SELF-ASSESSMENT REPORT (SAR)

For Accreditation of Undergraduate Engineering Programme (Tier-I)

Bachelor of Technology *in*

Civil Engineering



Kalinga Institute of Industrial Technology (KIIT)

Deemed to be University

Submitted to



NBCC Place, 4th Floor East Tower, Bhisham Pitamah Marg, Pragati Vihar New Delhi 110003

February 2023

SAR Contents

Serial Code & Link to the Item	Item	Page No.
PART A	Institutional Information	2
PART B	Criteria Summary	9
	Program Level Criteria	10
1	Vision, Mission and Program Educational Objectives	11
2	Program Curriculum and Teaching – Learning Processes	19
3	Course Outcomes and Program Outcomes	66
4	Students' Performance	109
5	Faculty Information and Contributions	167
6	Facilities and Technical Support	375
7	Continuous Improvement	390
	Institute Level Criteria	
8	First Year Academics	399
9	Student Support Systems	430
10	Governance, Institutional Support and Financial Resources	469
PART C	Declaration by the Institution	496
Annexure I	Program Outcomes(POs) & Program Specific Outcomes(PSOs)	497

PART A INSTITUTIONAL INFORMATION

PART A: Institutional Information

1.	Name and Address of the Institution:
	Kalinga Institute of Industrial Technology (KIIT) Deemed to be University City: Bhubaneswar State:- Odisha Pin Code: 751024
	Phone No (including STD Code):-08114382201
	Website: - <u>www.kiit.ac.in</u> E-mail:- kiit@kiit.ac.in
2.	Name and Address of the Affiliating University: Not Applicable
3.	Year of establishment of the Institution: 1997; Declared Deemed to be University during 2004
4.	Type of the Institution:
	Institute of National Importance University
	Deemed University
	Autonomous
	Any other (Please specify)
	Note:
1.	In case of Autonomous and Deemed University, mention the year of grant of status by the authority.
2.	In case of University Constituent Institution, please indicate the academic autonomy status of the
	Institution as defined in 12 th Plan guidelines of UGC. Institute should apply for Tier 1 only when fully
	academically autonomous.
5.	Ownership Status:
	Central Government
	State Government
	Government Aided
	Self - financing Trust

Society	
Section 25 Company	
Any Other (Please specify)	

Provide details:

6. Other Academic Institutions of the Trust/Society/Company etc., ifany:

Name of the Institution(s)	Year of	Programs of Study	Location
222502002020(5)	Establishment		2000000
KIIT	1995	Diploma in Civil Engineering	Campus - 2
Polytechnic		Diploma in Computer Science & Engineering	_
		Diploma in Electrical Engineering	
		Diploma in Electronics & Telecommunication	
		Engineering	
		Diploma in Metallurgical Engineering	
		Diploma in Mechanical Engineering	
KIIT ITI	1992	Electrician, Fitter & Electronics mechanic	Campus - 14

Table A.6

Note: Add rows as needed.

7. Details of all the programs being offered by the institution under consideration:

Name of the	Programme	Year of	Year of	Init	Intake	Curren	Accreditation	From	To	Program	Program
Program	Applied	Start	AICTE	ial	increase	t Intake	Status			for	for
	Level		Approval	Int						considerati	Duration
				ake						on	
							Granted				
D.T. 1 : C: '1							accreditation	07.01	20/07		
B.Tech in Civil	UG	1997	1997	20	Yes	180	for 6+1+1	07-01-	30/07	Yes	4
Engineering							years for the	2014	/2022		
							period				
							1				
M.Tech in Civil	PG	2010	2010	18	No	18	Eligible but			No	2
Engineering	10	2010	2010	10	NO	10	not applied			110	2

Table A.7

* Write applicableone:

Applying first time

- Granted provisional accreditation for two/three years for the period(specify-period)
- Granted accreditation for 5/6 years for the period (specify period)
- Not accredited (specify visit dates, year)
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

Note: Add rows as needed.

8. Programs to be considered for Accreditation vide this application

Sl. No.	Level	Discipline	Program Name
1	UG	Engineering & Technology	Civil Engineering
2	UG	Engineering & Technology	Computer Science & Engineering
3	UG	Engineering & Technology	Electrical Engineering
4	UG	Engineering & Technology	Electronics and Telecommunication Engineering
5	UG	Engineering & Technology	Mechanical Engineering

Table A.8

9. Total number of employees:

A. Regular Employees (Faculty and Staff):

	CAY (2022-2023)		CAYm1 (2021-2022)		CAYm2 (2020-2021)	
Year of Study						
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in engineering (Male)	332	344	331	334	329	331
Faculty in engineering (Female)	132	134	133	132	128	129
Faculty in Maths, Science and Humanities teaching in Engineering Program (Male)	100	103	99	99	92	93
Faculty in Maths, Science and Humanities teaching in Engineering Program (Female)	60	62	56	57	53	53
Non-teaching staff (Male)	5560	5567	5554	5558	5463	5465
Non-teaching staff (Female)	4473	4482	4472	4476	3655	3660

Table A.9a

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2

consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

- 1. Shall have the AICTE prescribed qualifications and experience.
- 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

CAY – Current Academic Year CAYm1- Current Academic Year minus1= Current Assessment Year CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

B. Contractual Staff Employees (Faculty and Staff): (Not covered in TableA):

	CAY (2021-2022)		CAYm1		CAYm2	
Year of Study			(20)	20-2021)	(2019-2020)	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in engineering (Male)						
Faculty in engineering (Female)						
Faculty in Maths, Science and Humanities teaching in Engineering Program (Male)						
Faculty in Maths, Science and Humanities teaching in Engineering Program (Female)						
Non-teaching staff (Male)						
Non-teaching staff (Female)						

Table A.9b

10. Total number of Engineering Students:

Engineering and Technology-UG	√ Shift 1	Shift 2
Engineering and Technology-PG	√Shift 1	Shift 2
Engineering and Technology-Polytechnic	Shift 1	Shift 2
MBA	√Shift 1	Shift 2
MCA	√Shift 1	Shift 2

Engineering and Technology-UG-Shift 1

Item	CAY	CAYm1	CAYm2
Total no. of boys	4582	4437	4323
Total no. of girls	2061	1994	1853
Total no. of students	6643	6431	6176

Engineering and Technology-PG-Shift 1

Item	CAY	CAYm1	CAYm2
Total no. of boys	156	153	155
Total no. of girls	66	69	67
Total no. of students	222	222	222

Engineering and Technology-MBA-Shift 1

Item	CAY	CAYm1	CAYm2
Total no. of boys	475	468	475
Total no. of girls	245	252	245
Total no. of students	720	720	720

Engineering and Technology-MCA-Shift 1

Item	CAY	CAYm1	CAYm2
Total no. of boys	255	249	252
Total no. of girls	105	111	108
Total no. of students	360	360	360

Table A.10

(Instruction: The data may be categorized in tabular form separately for undergraduate, postgraduate engineering, other program, if applicable)

Note: In case the institution is running programs other than engineering programs, a separate table giving similar details is to be included.

1. Vision of the Institution:

To create an advanced centre of professional learning of international standing where pursuit of knowledge and excellence shall reign supreme, unfettered by the barriers of nationality, language, cultural plurality and religion.

2. Mission of the Institution:

- Imparting quality value based education of international standard and imbibing skill for solving real life problems.
- *Inculcating global perspective in attitude.*
- Creating leadership qualities with futuristic vision.
- Fostering spirit of entrepreneurship and realisation of societal responsibilities.
- Cultivating adaptation of ethics, morality and healthy practices in professional life.
- Instilling habit of continual learning.
- Encouraging and supporting creative abilities and research temperament.
- Establishing and promoting close interaction with industries and other utility sectors and keep abreast with state-of-the-art technology.

3. Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution					
Name Prof. (Dr.) Sasmita Samanta					
Designation	Vice Chancellor				
Mobile No	9937220218				
Email Id	vicechancellor@kiit.ac.in				

NBA Coordinator					
Name Dr. Dipti Ranjan Biswal					
Designation	Deputy Director (National Accreditation)				
Mobile No	9583595895				
Email Id	dipti.biswalfce@kiit.ac.in				

PART B- Criteria Summary

Criteria No	Criteria	Marks/ Weightage	Institute Mark
1	Vision, Mission and Program Educational Objectives	50	50
2	Program Curriculum and Teaching – Learning Processes	100	100
3	Course Outcomes and Program Outcomes	175	175
4	Students' Performance	100	86.07
5	Faculty Information and Contributions	200	200
6	Facilities and Technical Support	80	80
7	Continuous Improvement	75	75
8	First Year Academics	50	48.68
9	Student Support Systems	50	50
10	Governance, Institutional Support and Financial Resources	120	120
	Total	1000	984.75

PART B: PROGRAMME LEVEL CRITERIA

CRITERION 1	Vision, Mission and Program Educational Objectives	50
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1.1 State the Vision and Mission of the Department and Institute (5)

<u>Vision of the Institute:</u>

To create advanced centre of professional learning of international standing where pursuit of knowledge and excellence shall reign supreme, unfettered by the barriers of nationality, language, cultural plurality and religion.

Mission of the Institute:

Mission statements of KIIT DU are as follows.

- MU-1: Imparting value based quality education of international standard and imbibing skill for solving real life problems.
- MU-2: Inculcating global perspective in attitude.
- MU-3: Creating leadership qualities with futuristic vision.
- MU-4: Fostering spirit of entrepreneurship and realization of societal responsibilities.
- MU-5: Cultivating adaptation of ethics, morality and healthy practices in professional life.
- MU-6: Instilling habit of continual learning.
- MU-7: Encouraging and supporting creative abilities and research temperament.
- MU-8: Establishing and promoting close interaction with industries and other utility sectors and keep abreast with state-of-the-art technology.

The B.Tech. programme in Civil Engineering is offered from the School of Civil Engineering.

Vision of School of Civil Engineering:

To impart education and research in Civil Engineering, with particular emphasis on their application in the industry, infrastructure building, economic welfare, health, safety and commerce in a diverse society and to create scope for professional engineering licensure and practice.

Mission of School of Civil Engineering

Mission statements of the school of Civil Engineering, KIIT DU are as follows.

- M-1: To provide students with a broad and in-depth education in civil engineering fundamentals, applications, and design in order to prepare them for the practice of civil engineering at the professional level with the confidence and skill necessary to meet the technical and social challenges of the future.
- M-2: To prepare students for higher education or entrepreneurship
- M-3: To encourage and facilitate students, to involve themselves in continuous learning, to build skills beyond the curriculum

- M-4: To inculcate critical thinking and an open-ended problem-solving attitude to build up creative abilities and research spirit
- M-5: To impart the essential skills of leadership, teamwork, communication and ethics so that they can interact and communicate effectively (written and/or oral) with others (e.g., supervisor, client and/or team)
- M-6: To engage students with alumni, industry, government, and community partners through outreach activities in order to inculcate global perception
- M-7: To engage students in creating innovative design solutions that include realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, sustainability, and global considerations, and disseminating these designs at national and regional venues
- M-8: To provide solutions and propose methodologies in the areas related to structural, geotechnical, water resources and environmental engineering

Mapping between the mission statements of the school and mission statements of the university

Mission of School/Mission	M 1	M 2	M3	M4	M5	M6	M7	M8
of university								
MU 1	$\sqrt{}$						$\sqrt{}$	
MU 2						$\sqrt{}$		
MU 3	$\sqrt{}$							
MU 4								
MU 5					V			
MU 6			V					
MU 7				V				
MU 8								$\sqrt{}$

1.2 State the Program Educational Objectives (PEOs) (5)

The Programme Educational Objectives (PEOs) of the B.Tech. Programme in Civil Engineering are as follows:

- **PEO 1:** The B. Tech program (Civil Engineering) prepares the graduates who shall provide solutions to Civil Engineering problems and allied areas involving structural design, construction, geotechnical, environmental and water resources issues.
- **PEO 2:** The B. Tech program (Civil Engineering) prepares the graduates who shall reinforce their knowledge through higher educational programs and life-long learning, adapt to rapid changes in technology, perceive the limitation and impact of engineering solutions in social, legal, environmental, economical and multidisciplinary contexts.
- **PEO 3:** The B. Tech program (Civil Engineering) prepares the graduates who shall demonstrate professional and ethical responsibilities and thrive to reinforce their knowledge being a part of higher educational programs.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

- The vision and mission of the Deemed University is available at: http://www.kiit.ac.in
- The vision and mission of the Deemed University are also displayed through notice boards across the campus.
- The vision and mission of the School is available at: https://civil.kiit.ac.in/
- The vision and mission of the School are also displayed through notice boards inside the School.
- The Program Educational Objectives of the B.Tech. Program in Civil Engineering is available at: https://civil.kiit.ac.in/programme/
- The PEOs are also displayed through notice boards inside the school and in the Syllabus book of the program.
- The PEOs are reviewed every 3-4 years to ensure they are relevant, and are aligned with missions of both the Deemed University and the School. Program outcomes and Program Specific Outcomes and the program curricula. This review is done through feedbacks taken from faculty members, students, alumni, parents, parents, industry experts, eminent academicians, members of Board of Studies and the academic audit team.

Process of dissemination among stake holders

List of stakeholders: Internal & External

Internal:

1. Students: Display on noticeboards, Induction programs, Tutor mentor meetings

Implementation Schedule

Display vide boards	Through the year, in the School corridor
Induction Programs	Conducted annually
Tutor Mentor Meetings	Using Second Saturday of each month

- 2. <u>Faculty:</u> Faculty meeting, Course files, individual copy of Vision and Mission given for display at work station, Faculty circular through mail
- 3. Support staff: Display on notice board and corridors
- 4. Management: Individual copy of Vision and Mission handed over during faculty & staff meetings

External:

- 1. Parents: Parents-teachersInteractions
- 2. Alumni: Alumni meet / E Mails/Alumni Website
- 3. Industry/employer: E Mails /Institute Website
- 4. Affiliating University: E Mails/ Institute Website
- 5. AICTE/NBA: SAR/Institute Website

Extent of awareness of Vision, Mission and PEOs amongst stakeholders:

Apart from this, Vision and Mission is disseminated to the stakeholders of the programs through faculty meetings, FDPs, student awareness workshops, student induction programs, and parent-teacher meetings etc.

The faculty members and students demonstrate complete awareness during class meetings, faculty meetings, curriculum review meeting, program review meeting etc.

- ✓ Sap portal
- ✓ Introductory classes
- ✓ Tutor mentor meetings

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15)

(Articulate the process involved in defining the Vision and Mission of the department and PEOs of the program.)

The School of Civil Engineering follow a standard process for defining the vision and mission of the school. School has a drafting committee for initial drafting of the vision and mission statements which is framed considering short- and long-term goals for the School keeping alignment with the vision and mission of the Deemed University. The draft statements are subsequently revised based on the feedback of internal and external stake holders such as:

- Graduates
- Alumni
- Parents
- Faculty members
- Industry representatives
- Eminent academicians
- Academic and Research partners
- Internal Quality Assurance Cell
- Management of the Deemed University

Finally, the vision and mission statements are approved by the Deemed University Academic Council. The detailed process of defining mission and vision is shown in Fig. 1.1.

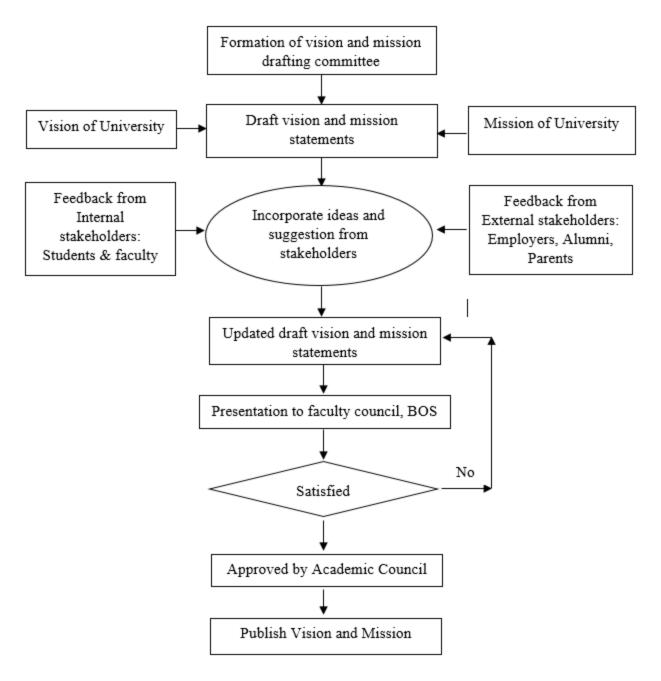


Figure 1.1: Process for defining Vision and Mission statements

Process for defining Programme Educational Objectives

The programme educational objectives of an engineering degree program are the statements that describe the expected achievements of graduates in their career, and also in particular, what the graduates are expected to perform and achieve during the **first few years after graduation**. In the first place, these objectives should help in fulfilling the mission of the department. Secondly, the students graduating from the programme are expected to lead a fruitful and meaningful life in the society by being useful in its progressive development.

Following process were adopted in defining the Program Educational Objectives as mentioned in figure 1.2

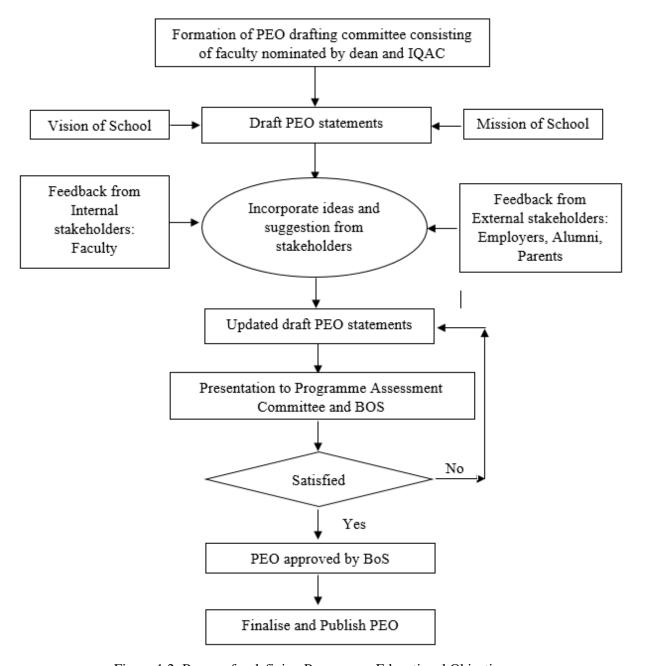


Figure 1.2: Process for defining Programme Educational Objectives

1.5 Establish consistency of PEOs with Mission of the Department (10)

The program educational objectives of this program are aligned and consistent with the mission statements of the School as described below:

PEO 1: The B. Tech program (Civil Engineering) prepares the graduates who shall provide solutions to Civil Engineering problems and allied areas involving structural design, construction, geotechnical, environmental and water resources issues.

- This objective statement is consistent and aligned with the following mission statements of the school: "Imparting quality value based education of international standard and imbibing skill for solving real life problems; Establishing and promoting close interaction with industries and other utility sectors and keep abreast with state-of-the-art technology".
- This objective statement is also consistent and aligned with the following mission statements of the School: "To prepare students for professional career, higher studies and entrepreneurship; To facilitate students to utilize fundamental technical knowledge and skills in Civil engineering, to analyze and solve problems, and apply these abilities to generate new knowledge, ideas or products in academia, industry or Government; To integrate training in engineering principles, critical thinking, hands-on projects, open-ended problem solving to build up creative abilities and research spirit."
- The institute and the School focus on providing and facilitating technical education of high quality and international standard to its students thereby producing able graduates in their field of expertise. The graduates are expected to possess analytical and creative skills based on their years of study in the program which includes an appropriate mix of professional core courses, design courses ,wide choice of elective courses, laboratory sessions, industrial trainings, hands-on projects and open ended exercises. They are also expected to keep themselves updated with emerging technologies and industrial revolutions in their respective fields so as to provide or suggest suitable solutions to different Civil Engineering problems, and lead a successful career in their domain

PEO 2: The B. Tech program (Civil Engineering) prepares the graduates who shall reinforce their knowledge through higher educational programs and life-long learning, adapt to rapid changes in technology, perceive the limitation and impact of engineering solutions in social, legal, environmental, economical and multidisciplinary contexts.

- This objective statement is also consistent and aligned with the following mission statements of the School: "To engage students with alumni, industry, Government, and community partners through outreach activities in order to inculcate global perception; To engage students in creating innovative design solutions that include realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, sustainability, and global considerations, and disseminating these designs at national and regional venues".
- The graduates will be able to perceive the limitation and impact of engineering solutions in different contexts (as mentioned in PEO 2) in a better way if they maintain close interaction with industries, alumni and community partners, and keep themselves updated with state of the art technologies. Consequently, they are expected to take decisions in deploying engineering solutions or promoting entrepreneurship keeping social, legal, environmental and economical aspects in consideration. This will also help them to inculcate global perspective in attitude.

PEO 3: The B. Tech program (Civil Engineering) prepares the graduates who shall demonstrate professional and ethical responsibilities and thrive to reinforce their knowledge being a part of higher educational programs.

- This objective statement is also consistent and aligned with the following mission statements of the School: "To encourage and facilitate students, to involve themselves in research work through continuous learning, to build skills beyond curriculum; To impart the essential skills of leadership, teamwork, communication and ethics in students to interact and communicate effectively (written and/or oral) with others (e.g., supervisor, client and/or team; to prepare students for higher studies"
- All these mission statements directly reflect the professional responsibilities of a graduate as an engineer. The professionals are expected to keep on learning and remain updated with emerging technologies from time to time. They should also emphasize on upgrading their academic qualification through different short term or long term educational programs.

PEO Statements	M1	M2	М3	M4	M5	M6	M7	M8
PEO1:	2	1	3	3	3	3	2	2
PEO2:	1	3	1	1	2	2	3	3
PEO3:	2	3	2	2	2	3	3	3

CRITERION 2	Program Curriculum and Teaching –Learning Processes	100
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2.1 Program Curriculum (30)

2.1.1 State the process for designing the program curriculum (10)

(Describe the process that periodically documents and demonstrates how the program curriculum is evolved considering the POs and PSOs)

The curriculum design process of KIIT DU is a systematic process involving the University level committee and School level committee. The school has taken several measures through a process for designing the program curriculum in order to accomplish the program outcomes. The detailed procedure for designing the curriculum is as shown in figure 2.1.

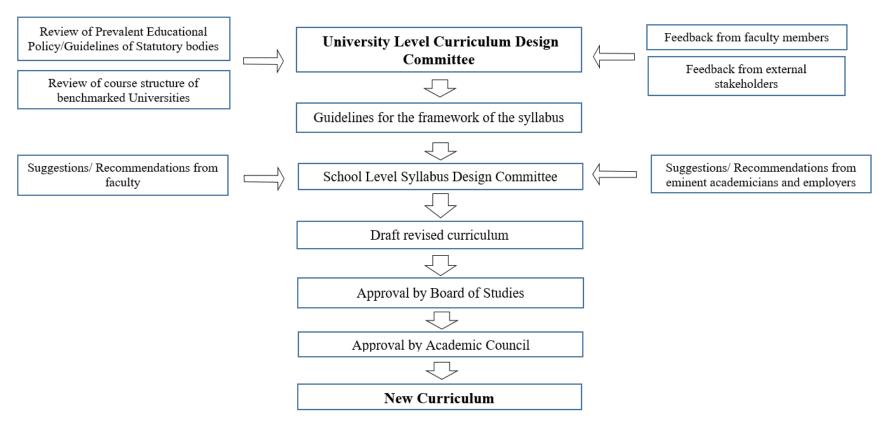


Figure 2.1: Process for Curriculum Design

2.1.2 Structure of the Curriculum (5)

Table B.2.1.2

ID	Course		Total	l Number o	f contact ho	ours		Credit	
	Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credit	Practical Credit	Credits
1	C101	Mathematics-I	3	1	0	4	4	0	4
2	C102	Chemistry	3	0	0	3	3	0	3
3	C103	Professional Communication	2	0	0	2	2	0	2
4	C104	Biology	2	0	0	2	2	0	2
5	C105	Chemistry Lab	0	0	3	3	0	1.5	1.5
6	C106	Computer Programming	0	2	4	6	2	2	4
7	C107	Language Lab	0	0	2	2	0	1	1
8	C108	Engineering Graphics	0	1	2	3	1	1	2
9	C109	Mathematics-II	3	1	0	4	4	0	4
10	C110	Physics	3	1	0	4	4	0	4
11	C111	Basic Electrical Engineering	3	0	0	3	3	0	3
12	C112	Engineering Mechanics	3	0	0	3	3	0	3
13	C113	Physics Lab	0	0	3	3	0	1.5	1.5
14	C114	Basic Electrical Engineering Lab	0	0	2	2	0	1	1
15	C115	Basic Manufacturing Systems	0	1	2	3	0	2	2
16	C116	Environmental Science	0	0	2	2	0	1	1
17	C117	Yoga and Human Consciousness	0	0	2	2	0	1	1
18	C201	Fluid Mechanics	3	1	0	4	4	0	4
19	C202	Mechanics of Material	3	1	0	4	4	0	4
20	C203	Environmental Engineering-I	3	0	0	3	3	0	3
21	C204	Surveying & Geomatics	3	0	0	3	3	0	3
22	C205	Civil Engineering Materials & Construction	3	0	0	3	3	0	3
23	C206	HS Elective-I	3	0	0	3	3	0	3
24	C207	Environmental Engg. Lab.	0	0	2	2	0	1	1
25	C208	Surveying Field Work	0	0	3	3	0	1.5	1.5
26	C209	Material Testing Lab.	0	0	2	2	0	1	1
27	C210	Business Communication	0	2	0	2	0	1	1
28	C211	Mathematics –III	3	1	0	4	4	0	4
29	C212	Structural Analysis	3	1	0	4	4	0	4

30	C213	Surface Hydrology & Hydraulics	3	0	0	3	3	0	3
31	C214	Geotechnical Engineering-I	3	0	0	3	3	0	3
32	C215	Environmental Engineering-II	3	0	0	3	3	0	3
33	C216	Construction Planning & Management	3	0	0	3	3	0	3
34	C217	Geotechnical Engineering Lab.	0	0	3	3	0	1.5	1.5
35	C218	Fluid Mechanics Lab.	0	0	2	2	0	1	1
36	C219	Structural Analysis Applications	0	2	0	2	0	1	1
37	C220	Hydraulics & Hydrologic Design	0	2	0	2	0	1	1
38	C301	Design of Concrete Structures	3	1	0	4	4	0	4
39	C302	Transportation Engineering-I	3	0	0	3	3	0	3
40	C303	Water Resources Engineering	3	0	0	3	3	0	3
41	C304	Geotechnical Engineering-II	3	0	0	3	3	0	3
42	C305	Department Elective-I	3	0	0	3	3	0	3
43	C306	Department Elective-II	3	0	0	3	3	0	3
44	C307	Transportation Engg. Laboratory	0	0	2	2	0	1	1
45	C308	Structural Design (RCC)	0	2	0	2	0	1	1
46	C309	Geotechnical Design	0	2	0	2	0	1	1
47	C310	Water Resources Design	0	2	0	2	0	1	1
48	C405	Inferential Statistics	3	1	0	4	4	0	4
49	C311	Design of Steel Structures	3	0	0	3	3	0	3
50	C313	Transportation Engineering-II	3	0	0	3	3	0	3
51	C314	Department Elective-III	3	0	0	3	3	0	3
52	C315	Department Elective-IV	3	0	0	3	3	0	3
53	C316	Department Elective-V	3	0	0	3	3	0	3
54	C317	Open Elective-I / (Minor-I)	3	0	0	3	3	0	3
55	C318	Structural Engg. Lab.	0	0	2	2	0	1	1
56	C319	Estimating & Costing	0	2	0	2	1	0	1
57	C320	Computer Aided Building Drawing	0	2	0	2	1	0	1
58	C321	Structural Design (Steel)	0	2	0	2	1	0	1
59	C322	Minor Project	0	0	4	4	0	2	2

60	C401	Professional Practice, Law & Ethics	2	0	0	2	2	0	2
61	C402	Open Elective-II	3	0	0	3	3	0	3
62	C403	Project-I / Internship	0	0	6	6	0	3	3
63	C404	Practical Training	0	0	4	4	0	2	2
64	C406	HS Elective-II	3	0	0	3	3	0	3
65	C407	Project	0	0	20	20	0	10	10

2.1.3 State the components of the curriculum (5)

Program curriculum grouping based on course components

Table B.2.1.3

Course components	Curriculum content (% of total number of credits in the program)	Total number of contact hours	Total number of credits	
Mathematics and Basic Sciences	19.63	36	32	
Engineering Sciences	7.36	17	12	
Humanities and Social Sciences	3.68	8	6	
Program Core	41.72	84	68	
program Electives	9.20	15	15	
Open Electives	3.68	6	6	
Institute Electives	3.68	6	6	
Projects	9.20	30	15	
Internships, practical training	1.23	4	2	
Any other (Specif)	0.61	2	1	
Total Credits	163			

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

(State the process details)

The curriculum for B. Tech. in Civil Engineering maintains a balance among various categories of courses from Science, Mathematics, Engineering Science, Humanities and Management, Professional core, professional electives, open elective Projects, and Internship components. The syllabus for each course has been designed to comply with the curriculum for attaining the POs and PSOs defined for the program.

The process used to identify extent of compliance of the curriculum is given below.

- The curriculum development process is illustrated in figure 2.1.
- All course outcomes of the courses are mapped with the POs and PSOs along with their level of correlation: 1 (low), 2(medium) and 3 (high). (Table 2.1).
- It is ensured that all POs/PSOs are adequately covered by the courses being taught and each course is mapped to high correlation level with at least one PO.
- It also ensured that all POs/PSOs have high correlation with adequate number of courses. The course and PO mapping of all the compulsory courses have been provided in the sub Criteria 3.1 as programme articulation matrix. However, low level of mapping of course with PO/PSO shows curricular gap which are fulfilled through guest lectures, seminars, industrial visits etc.
- The POs and PSOs attainment is calculated considering cumulative internal examination and semester end examination. Feedbacks are also collected from external stake holders like Alumni, Graduates and Employers for indirect attainment of POs and PSOs. Finally, the POs and PSOs attainment is calculated considering the relative weightage of direct attainment and indirect attainment (Fig. 2.2)
- PO/PSO attainments are analysed in the Programme Assessment Committee and BOS meeting; recommendations are suggested

Table 2.1: Course Outcome with PO/PSO Mapping of Geotechnical Engineering-I

Sl. No.	Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12	PSO1	PSO2	PSO3
1	CO1	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1
2	CO2	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1
3	CO3	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1
4	CO4	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1
5	CO5	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1
6	CO6	3	3	2	0	0	0	1	0	0	0	0	0	1	1	1

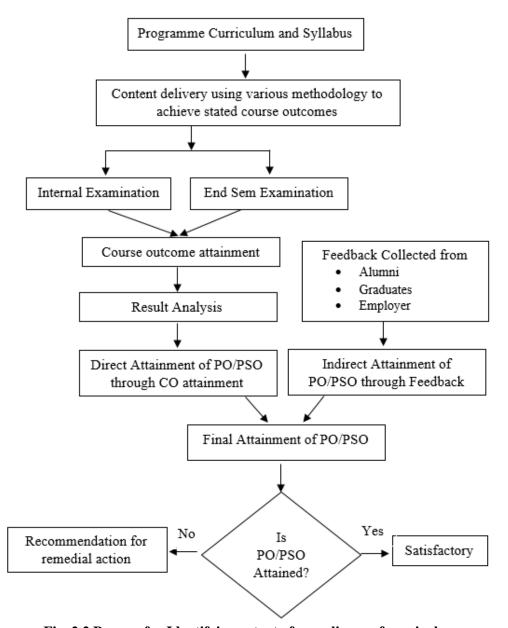


Fig. 2.2 Process for Identifying extent of compliance of curriculum

2.2 Teaching-Learning Processes (70)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

The Institute has adopted an integrated teaching learning process which includes different student centric methods aimed for enhancing learning experiences. The curricula and courses are updated periodically satisfying requirements by statutory bodies, addressing global issues, and course and program outcomes along with the Bloom's learning levels. School of Civil Engineering has a systematic procedure for improvement of teaching —learning process and thereby the students' performance. The process for **Teaching-Learning and Quality Improvement** in the school is focused on following broad criteria

(A) Adherence to Academic Calendar

The academic calendar of BTech programmes is prepared by the university and shared to the Deans and Directors of the Schools and faculty members. The academic calendar contains following information related to reporting of students, commencement of classes, pre-mid semester session, mid semester session, post mid semester session, end semester session, all in a chronological order.

Subject allotment for each subject takes place in the previous semester as per the faculty specialization and students' choice so that the faculty members can get enough time to plan their pedagogical approach for the subject.

All academic activities are being done in time without any disruption in the Academic Calendar **Time Table**

A detailed time table is prepared at the school level by the programme head of the concerned programme for smooth functioning of the programme.

B. Instructional Methods and Pedagogical Initiatives

A course committee is formed for each course headed by course coordinator, who prepares the course handout in coordination with the course faculty. Course handout contains details of the course such as course code, course credit, course content, course outcome, lesson plan, assessment scheme, activity calendar, text books & Reference books etc. The lesson plan covers the details of the modulus /topics to be covered in each class along with the course outcome mapping and the chapters of textbook/reference book.

All the course teacher prepares the teaching /lecture materials and shares the materials with the students. For lab course lab manuals are shared with the students along with the course handout. Lab manuals are prepared well in advance and all lab manuals will be thoroughly scrutinized by the mentor of the respective lab and if it is required.

Class room lecture and Discussion: The lecture hour is utilized for planning implementing evaluating and making decision in the class room. During each topic discussion first ten minutes are utilized for discussing the theory behind it and next 30 minutes are used to presenting the reader the practice situations in which the knowledge about the skills can be applied and evaluated. Further 10 minutes are used to connect with the practical situation and the last 10 minutes for discussions.

Hands on practice: A practical section demonstrates how theory can be verified by experiments through interpretation of results. For each laboratory course a well defined lab manual is prepared and shared with the students to perform the experiments. Further each labs conducted

open ended experiments to check the skills of students in solving real life problems. Students normally performs the experiment which devlops a zeal between the students to correlate the results with practical situations where in the students are exposed to get a glance of practical area's including the limitations with each exercise of practical.

Assignments/Tutorial: A batch of 5 to 6 students are formed in a class room and a topic/practical problem is given to them related to course out come and guided accordingly to have the access the e-media, journal, site visits, group discussions etc. Later on they are evaluated and asked to present their work so that it creates a collaborative learning environment and also helps the co-students.

Seminar/Presentations: The student's collect knowledge related to a topic and present it in a technical report and using power point presentation, the topic is presented to other students for their knowledge and benefits as mentioned above.

Guest lecturers from industrial background: Special qualified and experienced guest lecturers are arranged to get the real life experience and modern techniques, which are actually implemented in the field, and hence improves the understanding and learning experience. Therefore, the curriculum gap if any is fulfilled.

Industrial visits: The students are encourage to to undergo industrial visit to have an exposure of real-life probems and the soultions provided by the industry.

Video lecture from Online sources: Students are also encourage to learn from video lectures, animations, different images, open courseware, e-Resources Journals & Articles, Coursera, MOOCs, NPTEL, SWAYAM and KIITX etc.

Smart Classrooms: The classooms are well equiped with advanced projector and smart writing board. Every classroom having PC system internet conectivity. All the laboratories are well equipped with the equipment, materials.

C. Continuous Learning Activity

The continuous assessment of a student in a course requires full engagement in different activities as an individual or in a group. Group activities include group discussions, field work, surveys, laboratory tasks and group projects. Individual task varies from student to student as allocated by the course teacher.

The institute has introduced a framework of learning activities with the following focus areas in all streams:

Interactive focus: Activities include synchronous and collaborative discussions, group activities and assignments, etc.

Critical thinking: Activities include undertaking case studies, field surveys, problem identification, reviewing impacts created by previous researchers, identifying gaps and scope for further improvement and strategy formulation.

Problem solving: Activities include implementation of strategies under real life circumstances, developing an understanding of constraints, realizing relevant social, environmental, legal and economic implications and analyzing the impact created; activities also include solving real life open ended problems supported by simulations and modeling relevant to the purpose.

Creation: Activities include design and implementation tasks both at simulation level followed by hardware implementation, real time deployment and study of the impacts.

Preparedness for competitive examinations and higher studies: Activities include extra studies (self-learning) and problem solving as preparation for competitive examinations and higher studies.

D. Actions taken for Bright and Weak Students

Course Committee meeting is conducted regularly to identify the bright students and weak students and suitable actions are taken.

The identification of weak and bright students is a continuous process. The process of assessment of the learning levels of the students and conduction of activities are done in two stages (Stage 1 and stage 2) which are explained in the Figures 2.3 and 2.4.

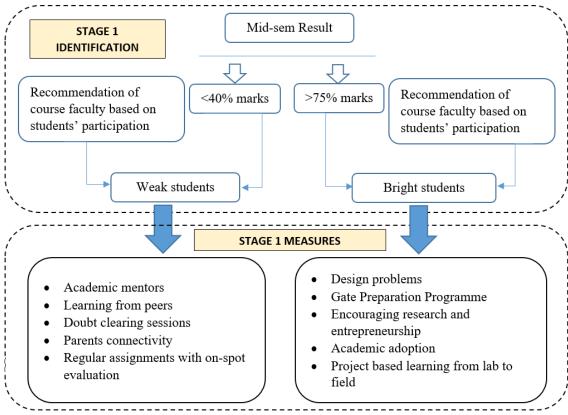


Fig. 2.3: Identification and measures for weak and bright students in stage 1

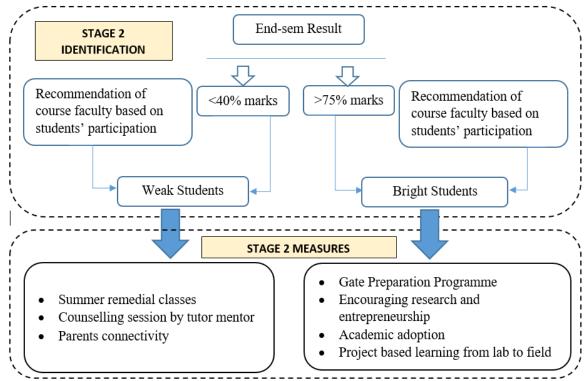


Fig. 2.4: Identification and measures for weak and bright students in stage 2

Special Programmes for Weak and Bright Students

D.1 Activities for Bright Students

- a. **Introduction of Major-minor scheme:** A student having a Major in a Branch of Engineering can opt for a Minor in a different Branch of Engineering from another School. To get Minor in a discipline, a student has to complete 20 credits in that area (Six Theory subjects @ 3 credits each and Two Labs @ 1 credit each / a Minor Project of 2 credits).
- b. **Introduction of B.Tech. with Honours**: A student has to undertake additional Three Advanced level courses (to the tune of 9 cr) to get a B.Tech Honours Degree. A student will be allowed to opt for the Honours scheme only if he/she has a minimum CGPA of 8.00 at the end of 5th sem and which is to be maintained constantly in the 6th, 7th and 8th sem.
- **c. GATE Preparation Programme:** School of Civil Engineering in association with the University has started Gate preparation programme for the advanced learners. It includes classroom teaching, Gate standard problem solving, module wise practice test, practice test similar to Gate and doubt clearing class.
- d. **Encouraging research and entrepreneurship**: Students are advised to actively join in various research groups in their field of interest with the help of faculty members. This helps the students to imbibe a research culture and have good publications from the start of their career. Further for the students, who have innovative entrepreneurial ideas, they

- are advised to actively participate in the lectures conducted by the school by inviting the successful industry people and entrepreneurs.
- e. Academic Adoption: The Deemed University has initiated the 'Academic Adoption' scheme towards nurturing young minds towards research and higher education. This is also designed for teachers to promote their research interests. As a result, it's expected from students to achieve some publications with adopting faculty members, which will help them to achieve fellowships from institutes of higher learning. The process normally starts from 2nd year of the program where mentors are allotted to students with research bent of mind to handhold them and guide them through a well defined research path culminating in a major project cum research experience by the end of the graduation. This is also aimed at increasing student publications indexed in SCOPUS at the undergraduate level with faculty members as co-authors.
- f. **Project based learning from lab to field**: Students are given the opportunity to be part of live research and consultancy projects to have a better understanding of their theoretical knowledge.

D.2. Activities for Weak Students

- a. **Academic mentors**: Other than tutor-mentors, academic mentors are assigned specially for the slow learners who regularly supervise the overall academic improvement of their mentees.
- b. **Learning from peers**: In a residential university like KIIT DU, where most of the students live in hostels, the peer groups always play a major role in the knowledge advancement of the slow learners. Therefore, special attention is given towards this aspect so as to engage advanced learners for the same.
- c. **Doubt clearing sessions**: Concerned subject teachers take extra sessions for clearing the doubts of slow learners who usually skip asking during the regular classes.
- d. **Summer remedial classes**: Summer remedial classes are conducted for the slow learners during the summer vacation.
- e. **Parents connectivity**: Periodical meetings and phone calls are conducted with parents to discuss the academic as well as personality improvements of the students.
- f. **Regular assignments with on-spot evaluation**: Students are given regular assignments. A fixed time is given to the students to submit the assignment and is checked on the same day to provide feedback regarding their performance.

E. Conduct of experiments

- All lab manuals are prepared well before the commencement of the semester as prescribed by the University.
- Each class is divided into two groups and the two groups are sent to two separate Laboratories; in further they are divided into small groups, not more than five students.
- Each group will do the experiments separately in order to make them understand and conduct the laboratory experiment and to get individual attention from the faculty.
- The students record the experimental values in their observation after completing the relevant calculations; the students submit the same for evaluation.
- Continuous assessments done on the basis of submission of laboratory records, understanding of the experiment through viva-voce and participation in performing the experiment.

F. Project

As mentioned above each batch of class is assigned micro project, which includes the topic from curriculum, practical problems, societal requirement etc. and asked to present in a small report format including power point presentation.

G. Maintenance of Course File

Maintenance of Course File:-For each course, a course file is prepared and maintained by the concerned faculty member. The course file consists of the following points:-

Course Handout

Course Material (Teaching Material)

Mapping of the Course outcomes with the Program Outcomes/ Program Specific Outcomes Activity details (if assignments have been given):

- Assignment/quiz/group activity with marks allocated separately for different questions and instructions to the students.
- Model solution containing evaluation scheme.
- o Samples of student assignments marked/evaluated with comments (if any).
- o Marks obtained by different student in each assignment.
- o *Mapping of the questions with the Course Outcomes.*

• Mid semester examination documents:

- o Mid semester question paper.
- o Mapping of mid semester questions with course/learning outcomes.
- o Model solution of mid semester question paper along with the corresponding evaluation scheme.

• End semester examination documents:

- o End semester question paper.
- o Mapping of end semester questions with course/learning outcomes.
- Model solution of end semester question paper along with the corresponding evaluation scheme.

• Course Attainment:

- o Course outcome attainment and result analysis
- **Minutes of meetings** of the **course committee** throughout the semester
- Notification of extra classes, remedial and tutorial classes to help weak students or clarifying concepts for all students.- One notification/Email is required
- All E mail communication communications with students and parents.

H. Library and Internet Facilities

Library facilities: College is been provided with good collection of books including text book, reference books, technical journals, magazines etc. Books are arranged according to subject classification and in a systematic manner. Also there is a separate newspaper section for day-to-day reference. In addition to this department is maintaining departmental library separately.

Internet facility: Internet facility allows our students to access internet 24/7. High speed Wi-Fi network surrounds campus and let student access it any time. Students can access E-books through internet. Our department has dedicated Internet Leased line of 2 Mbps, connected throughout the Campus. Students and faculties are free to access internet after the regular working hours. This helps the students to prepare papers on the latest technologies to be presented in various symposiums and seminars. With Internet facilities in the well-equipped computer lab, providing high speed of connectivity the student can surf the net together for unlimited information.

I. Teaching And Learning During Covid-19 PANDEMIC

During COVID-19 pandemic in India, the academic and research activities of the Institute through were continued through the extensive use of following ICT facilities and associated technical infrastructure:

- 3.7 Gbps internet connectivity
- 35082 Laptops available with all faculty-members, executives and students of the University
- SAP /ERP Platform

The following apps/platforms are being extensively used for conducting the online classes supported by suitable Learning Management systems:

- Zoom
- Google Meet
- Cisco Webex
- Gsuite
- Moodle

• MyPerfectice

All the Lab class is conducted using virtual platform google meet and zoom. The experiments were explained through prerecorded video conducted by the concerned faculty members and technical assistant. Virtual labs developed Ministry of Education is also used for demonstration. Relevant informative videos related to experiments were also being shown to students from different internet sources

J. Student feedback of teaching learning process and action taken

Feedback is collected from each student at every mid of the semester and at end of the semester and analyzed by the Internal Quality Cell. Feedback covers questions to course content, pedagogy, effectiveness of instructional methodology, Approach and attitude of faculty members.

The feedbacks are used to strengthen the instructional methods and also the content of the course or teaching material. Based on the feedback, faculty members are encouraged to improve their skills and abilities. Reputed academicians are also invited to deliver lecture on improving the efficiency of the teaching-learning process. In case of any negative comment related to attitude or approach of faculty members, a counselling session is organized by the HoD for those faculty members who have secured low scores and negative comments, if any, in the feedback.

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester tests, assignments and evaluation)

The courses taken up by the student are classified into theory, practical and sessional courses. A set of assessments are conducted for each of these courses through which the students' performance is currently evaluated as summarized below:

Courses	Assessment
Theory courses	The assessment is done in three stages:
	Continuous assessment (30 marks): Student is evaluated based on different tasks and learning activities throughout the semester for the course. The management, assignment and evaluation of tasks, assignments are done through different learning management systems like Google Classroom, Moodle etc.
	Mid semester examination (20 marks): Student is evaluated based on mid semester examination (closed book examination) conducted towards the middle of the semester based on a part of the syllabus decided and announced by the course coordinator in discussion with other course teachers.

	End Semester examination (50 marks): Student is evaluated based on end semester examination (closed book examination) conducted towards at the end of the semester based on the entire syllabus for the course.
	The mid semester and end semester examinations are conducted by the School Examination cell in coordination with the central examination cell under the supervision of the Controller of Examinations of the Institute. All evaluations are done online, marks are communicated to the students and grievances if any are immediately resolved.
Practical courses	The assessment is done in 2 stages:
	Continuous or Internal assessment (60 marks): Student is evaluated based on their performance, concepts, performance as a group member, viva and documentation corresponding to different experimental tasks, simulations, programming and learning activities prescribed and carried out throughout the semester.
	End Semester examination (40 marks): Student is evaluated based on their performance on a given experimental or hands-on task that has to be completed within a stipulated time under constant proctoring, and on their performance in the end semester viva examination.
Sessional Courses	Continuous assessment (100 marks): Student is evaluated based on different tasks, learning activities, group tasks and /or reviews and viva conducted throughout the semester for the course. The management, assignment and evaluation of tasks, assignments are done through different learning management systems like Google Classroom, Moodle etc.

KIIT DU has set guidelines for conducting examinations including setting up the question papers of mid semester and end-semester examination and continuous evaluation through activities. The guidelines of each component of assessment are given below.

The activities in continuous assessments have been designed to facilitate/strengthen learning among the students. The activities are to be designed such that the course teacher will be to assess the student on following categories as well as to the intended course outcomes.

A set of suggested practices on the above aspects have been furnished in the table below. Course teachers are free to adopt a practice within or beyond the frame work suggested.

Focus	Learning Practice	Brief description
Interactivity Focus (Group based evaluation)	Synchronous Discussion	Provide a set of questions to 20-30 students. Facilitate sharing of responses.
	Collaborative Discussion	Divide available set of information to 5-6 parts. Provide a part of information to 5-6 students. Allow sharing of information and further buildup among the subgroups.
	Group Assignment	In a group of 5-6 assign roles to members as project manager, schedule and records manager, presenters and researchers. Assign a project that can be developed in a semester.
Critical Thinking Focus	Response to issues	Assign an ongoing practice / Text / Audio / Video. Student is supposed to critique based on set criteria.
	Case Study	Students are supposed to identify issues, stakeholders, options, impacts and consequences.
	Research need identification	Student is supposed to go through review papers / set of research papers to identify a pertinent research need. A two page report compiling the background, literature summary and research need is to be presented.
Creation	Info-graphic	To explain, describe and visualize the given information / process / procedure.
	Written summary	From a specific aspect of a class / text / research article student is supposed to write a one page summary
	Physical model/ mathematical model/soft-model	Student is supposed to develop an appropriate model.
Problem solving	Assignments	Set of problems / cases to be solved and submitted
	Modeling and simulation	Students are supposed to develop algorithm/code/ mathematical model, to use appropriate software and simulate.
Preparedness for GATE/ And other competitive exams	Quiz	Students are supposed to answer course questions set according to standard of GATE/ CES/ CS/ Other competitive exams.
Reflection (Self evaluation)	Self assessment	Student to assess the quality of their work based on given criteria.

Reflection on learning	A write-up reflecting what the student intended to learn before the course, reflect upon what is learnt and effectiveness of specific learning tools
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The activity are planned and informed to the students in the course handout at the start of the semester. The learning activities of each course are continuously monitored by Programme Assessment committee.

B. Quality of the Internal Question Paper

Following processes is in place to maintain the quality of the internal question paper. The process is reviewed over the years and updated.

- The course coordinator decides the syllabus for the internal examination and requests question pool from the respective committee members.
- After collecting the questions from respective committee members, the course coordinator prepares the internal question paper and evaluates each question through following parameters.
 - 1. Mapping of individual questions of the question paper with the respective Course Outcomes (COs).
 - 2. Mapping of individual question paper with the respective levels of questions based on the Bloom's Taxonomy.
 - 3. Mapping of individual question paper with the respective chapters of the course.
 - 4. Finally, the quality of the question is analyzed based on the prevalent guidelines to related to the Bloom's Taxonomy requirement and the coverage of chapter and course outcomes.
- Then, the course coordinator shares the evaluation sheets with the committee members for review and feedback.
- After the evaluation sheet data found to meet the quality standards, the question paper is submitted to Faculty-In-Charge Examination.

C. Quality of the end semester Question Paper

Following process is in place to maintain the quality of the end semester question paper.

- The Course Co-ordinator recommends the name of any four/ five faculty members from the course committee for setting up the end semester question paper.
- A school level committee comprising of Dean, Program Head, Assistant Controller of Examination finalizes the list of end semester paper setters (any two/ three faculty members) and two moderators. The list is further sent to Vice Chancellor for approval. The paper setters are also faculty member from other premier institution of India.
- After receiving the approval from Vice Chancellor, the respective faculty members (both paper setter and moderators) are intimated confidentially regarding preparation of

question paper along with the guidelines for setting up of question paper by the office of the Dean. During Covid time, the format of question paper was revised for online examination.

- The paper setter after setting up the question paper, evaluate the question paper and submits the question paper along with an evaluation sheet template to the moderator. The evaluation sheet template comprises of
 - 1. Mapping of individual questions of the question paper with the respective Course Outcomes (COs). The mapping is quantified through a score.
 - 2. Mapping of individual question paper with the respective levels of questions based on the Bloom's Taxonomy. The mapping is quantified through a score.
 - 3. Mapping of individual question paper with the respective chapters of the course. The mapping is quantified through a score
 - 4. Finally, the quality of the question is statistically analyzed.
- The moderator reviews the question paper along with the evaluation sheet template and finally submits the question paper (from three paper setters) to the Controller Of Examination after being sure about the quality standard of the question paper.

A sample template of question paper with the mapping of questions paper with course outcome and Bloom's Learning level is given below.

Format-1(Default)

<u>Pattern</u>

- SIX questions are to be attempted
- Question paper consists of four SECTIONS that is, A, B, C and D
- · Section-A is compulsory and to cover the entire syllabus.
- The examinee has to attempt <u>any five questions</u> from the <u>SECTIONS B.C.D</u> with <u>minimum one</u> question from each SECTION.

<u>Usefulness:</u>

- · All levels of learning are assessed as per the Bloom's taxonomy
- Course Outcomes and Performance Indicators are achieved
- Suitable for lower semesters of the programmes

Question number	Learning levels as per Bloom's taxonomy	Description	Marks		Course Outcomes (CO)/ Performance Indicators(PI)	Additional Instructions				
	Section A	A	20% of total Marks to	√	All COs PI s related to Learning levels					
Q1 (a)-(j)	Learning levels 1 and 2	Questions based on remembering and understanding.	be assigned for Q1.		be assigned for Q1.		be assigned for Q1.		1 and 2as per Bloom's taxonomy	
	Section 1	В		1	All COs					
Q2 Q3	Learning levels 1,2, and 3	Questions based on remembering, understanding and application		✓	PI s related to Learning levels 1, 2 and 3 as per Bloom's taxonomy	The questions in				
	Section	C	16% of total Marks to ✓ All COs			SECTION-B.C. and D				
Q4 Q5 Q6	Learning Levels 3 and 4	Questions based on application and analysis.	be assigned to each question		PI s related to Learning levels 3 and 4 as per Bloom's taxonomy	should collectively cover all COs defined for the Course.				
Section D				✓	All COs	101 1110 00 1110				
Q7 Q8	Learning levels 4,5,6	Questions based on analysis, evaluation, design, formulation or innovation.		~	PI s related to Learning levels 4, 5 and 6 as per Bloom's taxonomy					

C. Question quality Assessment:

The quality of questions is assessed by a Question Quality Assessment Committee formed by the School.

The assessment is made with respect to the stated course outcomes, the learning levels as per Bloom's Taxonomy (LL1 to LL6 representing Remember, Understand, Apply, Analyze, Evaluate and Create respectively) and the chapter coverage.

The marks allotted with respect to the Course Outcomes, Learning Levels and Chapter IDs are compared against a desired set. The deviations are computed and the question quality with respect to the CO, LL and Chapters are marked as 'Strong', 'Moderate' and 'Weak'.

The process of question quality assessment is usually completed within one month of the assessment. The process covers the questions of mid-semester and end-semester. Through assessing the questions relating to the course during the semester a comprehensive analysis is taken up by the Quality Assurance Cell and the report is shared to the Program Assessment Committee.

Quality of the Evaluation

Following processes has been defined to maintain the quality of evaluation of answer scripts. The process is reviewed over the years and updated.

- The answer scripts are scanned (By a third party service provider) and uploaded with an intimation to the evaluators.
- The evaluator evaluates the answer scripts online, using the login credentials. For every evaluation/ award of mark to the individual answers, there is a provision to give remarks about justification of the award of mark.
- The course coordinator prepares a scheme of evaluation, which is circulated among all evaluators and students.
- Once the evaluation is over, the chief examiner appointed by Vice Chancellor, reviews
 the evaluated answer sheets online, and does necessary updates with proper justification
 in the remark field. The chief examiner checks whether marks has been awarded
 judiciously or not.
- As transparency is another key focus point of the University, the reviewed answer sheets are sent for student view. Students go through their answer sheets online and apply for recheck.
- Then, the copies are sent back to the respective evaluator for recheck and after that final mark are generated.

Examination during Covid-19:

During Covid-19, online exam was conducted with the help of following online platforms.

- Zoom with pro accounts for the invigilators and examinees (For uninterrupted online invigilation: Maximum 20 Examinees per invigilator have been allowed).
- Moodle with cloud hosting to support 1000 examinees concurrent access.

- Google Drive used by invigilators to deal with issues with respect to uploading of scanned documents.
- WhatsApp Groups (for real time communication between examination officers, invigilators and examinees)

Reforms in Question Paper:

- The University has approved six formats of end semester question paper to be used for all theory type course items offered from different Schools of the University. These formats have been prepared by a subcommittee of the Academic Monitoring Committee of the University for Implementation. The Course Committees of the School select the appropriate format of end semester question paper (one out of these six formats) for effective assessment of the course. The question paper format selected for the course are included in the Course Handout for distribution to the students before the start of the teaching learning process for the Course.
- A consolidated list containing the semester, subject name, subject code and selected question format no are sent to the Office of the Controller of Examinations for implementation in the online evaluation process.

2.2.3 Quality of student projects (20)

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation details including details of POs and PSOs addressed through the projects with justification)

As per BTech Civil curriculum for 2015, 2016 and 2017 admitted batches, each student has to undertake one projects during 6th, 7th and 8th semester as mentioned below

SL no.	Semester	Course code	Course name	Credits
1	6	CE 3082	Minor Project	2
2	7	CE 4081	Project Preparation	2
3	9	CE 4082	Project	6

Similarly, as per BTech Civil curriculum for 2018, 2019 and 2020 and 2021 admitted batches, each student has to undertake one projects during 6^{th} , 7_{th} and 8_{th} semester as mentioned below

SL no.	Semester	Course code	Course name	Credit
1	6	CE 3082	Minor Project	2
2	7	CE 4081	Project Preparation	3

3	9	CE 4082	Project	10	
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A. Identification of Projects and allocation methodology to faculty members

Process related to project identification, allotment, and monitoring are described in Fig. 2.5

A project coordinator is appointed by the Dean of the School, who is responsible for planning, scheduling and execution of all the activities related to the student project work.

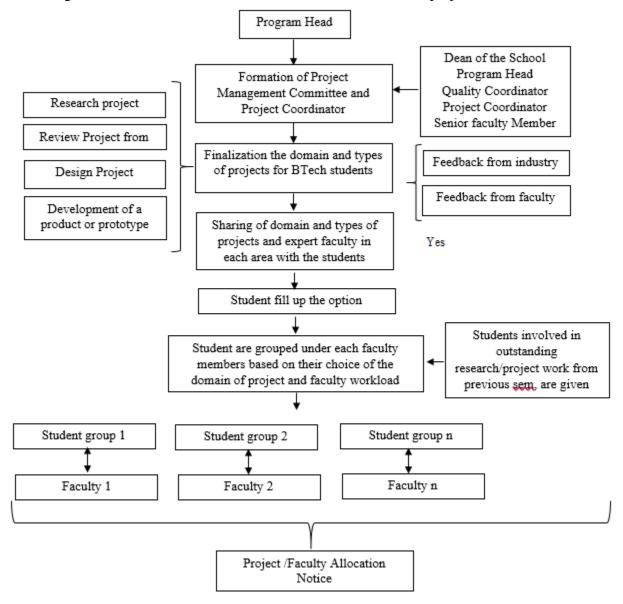


Figure 2.5. Process for Project Allocation methodology

B. Planning, Scheduling, Monitoring and Execution

The project scheduling and monitoring is briefly explained in the following table.

Step	Task	Process description		
Step-	Project Identification	Projects are identified by faculty members and/or students in their respective area of interest. The detailed process is depicted in Fig. 2.5.		
Step-	Allotment	Projects are assigned to students and guides allotted to them. The laboratory is assigned and the resources are provided to students for project development.		
Step-	Continuous Monitoring	The progress of a project is monitored by the guide on day to day basis The continuous progress is also assessed through periodic review by panel.		
Step- Evaluation the working principle of the project works. Students have implementation methodology, design process of components, perform		Students have to give demonstration of the project works Students have to present the working principle of the project works. Students have to explain implementation methodology, design process of components, performance of the system, application of projects and future scopes. Finally students has to submit the project report.		

Role of Students

- Regular interaction with guide with minimum 75% attendance. The attendance record will be maintained by the guide which will be submitted to the project coordinators before mid-semester and end-semester.
- Perform a literature review of current knowledge and developments in the chosen research area.
- Undertake detailed technical work in the chosen area consisting of:
 - o Analytical and computational studies
 - Experimental works
 - Model and prototype creation
- Maintain a record of individual contribution to the project completed.
- Prepare a formal report, one for mid-semester, and another for end-semester (templates are attached)
 describing the work undertaken and results obtained so far with similarity index less than 20% (Attach
 Plagiarism Report).
- The project should be linked to the Societal Impacts/ Sustainability/ Economic Viability.
- Present the work in a forum by preparing a formal presentation.
- Students have to participate in the 8th Semester project expo by preparing extended abstracts and presentation in consultation with their guides.

Role of Guides:

- The guide must prepare the **project groups comprising maximum of 5 students**.
- The guide should send the proposed project title to the project coordinators within 15 days of the start of 7th semester.
- The guides should maintain the attendance record of their project students and submit the same to the project coordinators before mid-semester and end-semester.
- In case the progress is found to be unsatisfactory, it should be reported in advance to the project coordinators for their information and necessary action.
- The guides should submit their marks to project coordinators for mid-semester and end-semester exam
 before the committee evaluation.

- The guide should ensure that all the project reports should be prepared in the attached format given below and also submit a plagiarism report with $\leq 20\%$ similarity before the final submission.
- The guide should ensure the participation of students in 8th Sem project expo and check the extended abstract.

Role of Project Coordinators:

- The coordinators will conduct the mid-semester and end-semester examination and therefore should mail the same prior to atleast two weeks before the presentations.
- The coordinators will collect the proposed project titles within 15 days of the start of the 7th semester.
- The coordinators will collect the attendance report of project students before mid-semester and endsemester exams.

Guidelines for presentation:

- The Power Point presentation should be of 15-20 slides comprising:
 - o Title (Project title, name/names (roll numbers) of students along with the name of supervisor)
 - o Introduction (Background of the study, Significance of the study)
 - o Objectives of the study
 - o Review of literature
 - Materials and Methods (Description of study area/experimental design, data collection, materials and procedures to achieve the objective)
 - Results and Discussion (Graphs, tables or charts that demonstrate critical elements of the research findings or outcomes)
 - o Societal Impacts/ Sustainability/ Economic Viability
 - Conclusion
 - o Recommendations for future study
 - o List of Publications, if any

Guidelines for project report:

- All the main text of the thesis should be in "Times New Roman 12" font style with 1.5 line spacing.
- No unnecessary gap should be provided in between paragraph, subheadings, page end etc. (follow the template).
- *Cite the references in ASCE style.*
- All the cited references in the main text must be listed under and vice versa.
- Provide table and figure number with caption for all the tables and figures in the main text. (Follow the template).
- The report should contain the following headings as per the attached templates.
 - Abstract
 - Introduction
 - Objectives of the Study
 - o Review of the Literature
 - o Materials and Methods/Software Tools/Data Collection and Extraction
 - o Results and Discussion
 - Societal Impacts/ Sustainability/ Economic Viability
 - Conclusion

Project Evaluation Scheme

- Performance in Project components is evaluated separately by the project guide, panel
 members, reviews and external evaluators. The assessment takes into account
 model/prototype/construction material development, use of modern engineering tools,
 quality of project work and innovation, student presentation, viva, reviews, report
 writing, and individual contributions.
- Since last two academic years, evaluation of major design projects involves external examiners and exhibition through Project Expo. Project Expo is a platform where the final year students are got a chance to show case their project and the project are evaluated by external experts from industry and academia

A detailed project assessment scheme is provided below

EC	Evaluation	Evaluation type	Marks/Weightage	Components of evaluation
No.	Component			
1	Mid Semester	Presentation, viva	30	Report – 10
	Examination	and report	(Panel – 15, Guide – 15)	Presentation skills & content – 10
		submission		Viva – 10
2	End Semester	Presentation, viva	70	Report – 30
	Examination	and report	(Panel – 35, Guide – 35)	Presentation skills & content – 20
		submission		Viva – 20

C. Types and relevance of the projects and their contribution towards attainment of POs

Course Outcomes of project

At the end of the course, the students will be able to:

CO1: perform a background study on certain scientific aspect and formulate a project objective

CO2: outline a pathway for the implementation of the project within the time line

CO3: apply fundamental mathematical concepts, advanced technical know-how, use modern tools, perform experiments and critically analyze the data

CO4: provide solutions with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

CO5: function effectively as an individual, and as a member or leader in a team under multidisciplinary settings following ethical practices

CO6: communicate effectively with a range of audiences and prepare reports

Mapping of project CO with PO/PSO

Sl. No.	Project CO	Relevance to PO/PSO
1	CO1	PO2
2	CO2	PO9, PO10. PO11
3	CO3	PO1, PO2, PO3, PO4, PO5
4	CO4	PO6, PO7, PO8, PO11, PO12, PSO1, PSO2, PSO3
5	CO5	PO9
6	CO6	PO9, PO10

A list of major projects addressing various POs

Sl. No.	Project title	Group Code	Relevance to PO/PSO	Year
1	Solutions to the cost overrun in the construction projects	1	1,2,3,6,9,10,12,5,11	2022
2	Design of pile foundation	1	1,2,3,6,9,10,12,5,8	2022
3	Seismic assessment of multi-storey apartment building	1	1,2,3,6,9,10,12,5,8,13	2022
4	Design of a healthy building: Perspective of air pollution and ventilation.	1	1,2,3,6,9,10,12,5,8,14	2022
5	P-y analysis of laterally loaded piles	1	1,2,3,6,9,10,12,5,	2022
6	Design of a road over bridge near paap mochansagar in Janakpur city, Nepal	1	1,2,3,6,9,10,12,5,8,11,13	2022
7	Design of Pavement and Cross Drainage structures of a Expansion of National Highway	1	1,2,3,6,9,10,12,5,8,11,13,15	2022
8	Design of flexible pavement including cross drainage of a village road near deulbar village	1	1,2,3,6,9,10,12,5,8,11,13,15	2022
9	Geo-Technical Investigation Report on Construction of EMRS (Ekalabya Model Residential School) at Kaptipada, Odisha	1	1,2,3,6,9,10,12,4,8,11,13	2022
10	Case study of an accident blackspot-factors and effects	1	1,2,3,6,9,10,12,4,11	2022
11	Design of rcc bridge	1	1,2,3,6,9,10,12,5,8,11,13	2022
12	Design of soil nailed slope protection system in hilly terrain	1	1,2,3,6,9,10,12,4,8,11,13,14	2022
13	Planning and design of exhibition hall at Dhangadi, Nepal	1	1,2,3,6,9,10,12,5,8,11,13	2022
14	Delineation and Analyzation of Waste Stabilization Pond (WSP) for sustainable treatment of beverage industry wastewater: A research containing climatic factors, design and circular economy	1	1,2,3,6,9,10,12,4,7,8,14,15	2022
15	Analysis of a girder bridge	1	1,2,3,6,9,10,12,5,8	2022
16	Quantity survey, material calculation, cost evaluation and bbs of a box culvert	1	1,2,3,6,9,10,12,5,11	2022
17	Accident prediction using fuzzy inference system	1	1,2,3,6,9,10,12,5,7	2022
18	Phytoremediation potential of sunflower (helianthus annuus) plant in different contaminated soils: a review	1	1,2,3,6,9,10,12,4,7,14	2022
19	Soil stabilization using fly ash method	1	1,2,3,6,9,10,12,4,7,13,14	2022
20	Development of a crash prediction model using historical crash data	1	1,2,3,6,9,10,12,5,7	2022
21	Developement of los criteria for uncontrolled median openings	1	1,2,3,6,9,10,12,5,7	2022
22	Construction Planning of G+3 RESIDENTIAL BUILDING	1	1,2,3,6,9,10,12,5,11	2022
23	Development of LOS Range for Speed Humps	1	1,2,3,6,9,10,12,5	2022
24	Hydraulic analysis of unsteady channel flow modelling using HEC-RAS	1	1,2,3,6,9,10,12,5,7,14,15	2022
25	Association of air pollution and meteorological parameters with covid-19	1	1,2,3,6,9,10,12,4,7,14	2022
26	Design and cost comparison of regular and sustainable building	1	1,2,3,6,9,10,12,5,7,8,13,14	2022
27	Capacity reduction due to on-street parking	1	1,2,3,6,9,10,12,5,11	2022
28	Use of fibre in bituminous mixes	1	1,2,3,6,9,10,12,4,7,13	2022
29	Design of Wastewater Stabilization Ponds For KIIT & KISS	1	1,2,3,6,9,10,12,4,7,8,11,13,1	2022
30	Utilization of fly ash as filler in bituminous mixes	1	1,2,3,6,9,10,12,4,7,13,14	2022
31	Assessment of traffic congestion due to presence of uncontrolled median openings	1	1,2,3,6,9,10,12,5	2022
32	Developing Road Traffic Noise Map Using GIS and sound meter.	1	1,2,3,6,9,10,12,5,7,14	2022
33	Design of flexible pavement using IIT-pave	1	1,2,3,6,9,10,12,5,8,13	2022
34	Analysis of hydrological extreme event in mahanadi river basin	1	1,2,3,6,9,10,12,5,8,14,15	2022
35	Design of an unlined prismatic irrigated channel considering various types of crop season in alluvial soil	1	1,2,3,6,9,10,12,5,8,11,14,15	2022

	Long term assessment of waste composition from landfill	1	1,2,3,6,9,10,12,5,7,11,14	2022
37	Desgin of industrial warehouse	1	1,2,3,6,9,10,12,5,8,11,13	2022
38	Assessment of pedestrian safety on indian roads	1	1,2,3,6,9,10,12,5,8	2022
39	Analysis and design of steel intensive quarantine center building	2	1,2,3,6,9,10,12,5,7,8,11,13,1 4	2021
40	Evaluating the effect of vegetation coverage on the performance of Floating Treatment Wetland	2	1,2,3,6,9,10,12,5,7,8,11,14,1 5	2021
41	Performance of agro-industrial wastes used in lightweight concrete	2	1,2,3,6,9,10,12,4,7,8,11,13,	2021
42	Comparative analysis and design of three storey house using STAAD PRO, ETABS and SAP 2000	2	1,2,3,6,9,10,12,5,8	2021
43	Operational Effects of Speed Breakers: A Case Study In India	2	1,2,3,6,9,10,12,5,8	2021
44	Analysis of quality inequity in the drinking water of bhubaneswar city	2	1,2,3,6,9,10,12,4,7,8,14	2021
45	Analysis and design of g+8 storey residential building	2	1,2,3,6,9,10,12,5,8,11	2021
46	Stability of slope and foundation with respect to its distance from edge of the slope	2	1,2,3,6,9,10,12,4,7,8,14	2021
47	Design of Sewage Treatment Plant For KIIT and KISS	2	1,2,3,6,9,10,12,4,7,8,11,14	2021
48	Geometrical Design of Traffic Calming Device For Bhubaneswar City	2	1,2,3,6,9,10,12,5,8	2021
49	Study of Low Cost Housing and Design of A Typical Condominium House Using Staad Pro	2	1,2,3,6,9,10,12,5,7,13	2021
50	Design of Flexible Pavement With Granular Base And Subbase For NH-16	2	1,2,3,6,9,10,12,5,8,11	2021
51	Design of Monopile and Cost Estimation of an Offshore Wind Turbine	2	1,2,3,6,9,10,12,5,8,11	2021
52	Selection of an Appropriate Truss Type Based on Optimized Truss Configurations	2	1,2,3,6,9,10,12,5,8,11,13	2021
53	Comparison of Life Cycle Cost of Flexible Pavement With Granular and Cemented Base	2	1,2,3,6,9,10,12,5,8,11,13	2021
54	Optimization of position of steel plate shear wall in a multi-storied steel building	3	1,2,3,6,9,10,12,5,8,11,13	2020
55	Geoengineering & microstructural properties of alkali activated fly ash geopolymer	3	1,2,3,6,9,10,12,4,7,8,11,13	2020
56	Evaluation of the geotechnical properties of msw in a landfill	3	1,2,3,6,9,10,12,4,7,8,11,14,1 5	2020
57	Design and comparsion of pavement alternatives for Gola-Sahajanpur road (sh-93)	3	1,2,3,6,9,10,12,5,8,11,13	2020
58	Application of waste plastic in modifying bitumen properties	3	1,2,3,6,9,10,12,4,7,8,11,13	2020
59	Water resource management in different agroclimatic zones of odisha, India using EDI and SPI	3	1,2,3,6,9,10,12,5,8,11,14,15	2020
60	Effect of Oil Contaminated Aggregates on Mechanical Properties of Concrete	3	1,2,3,6,9,10,12,4,7,8,11,13,1 4	2020
61	Compressive Strength of Fiber Reinforced Cement Stabilised Flyash	3	1,2,3,6,9,10,12,4,8,11,13	2020
62	Design of Water Tank For Rooftop Rainwater Harvesting System	3	1,2,3,6,9,10,12,5,8,11,15	2020
63	Study of Strength Properties of Concrete Using Copper Slag and Steel Slag as A Partial Replacement of Fine Aggregates	3	1,2,3,6,9,10,12,4,7,13,14	2020
64	Analysis and Design of Steel Intensive Innovative Food Grain Godown	3	1,2,3,6,9,10,12,5,8,14	2020
65	Use of pervious concrete for ground water recharge	3	1,2,3,6,9,10,12,4,8,11,13,14, 15	2020
66	Stabilization of black cotton soil using Fly ash and marble dust	4	1,2,3,6,9,10,12,4,7,8,13,14	2019
67	Monsoon Rainfall Analysis of Balasore and Puri Districts of Odisha	4	1,2,3,6,9,10,12,5,7,15	2019
68	Study of Pervious Concrete	4	1,2,3,6,9,10,12, 4,8,11,13,14	2019
69	Shear Behaviour of A Stepped Reinforced Concrete Beam	4	1,2,3,6,9,10,12,4,8,11,13	2019
70	Analysis and Design of School Building using Staad Pro	4	1,2,3,6,9,10,12,5,8,11	2019
71	Study of Triaxial Behaviour of Soils Reinforced With Low Strength Geotextile	4	1,2,3,6,9,10,12,4,7,8,13	2019
72	Design Of A Simplistic Vermicomposting Shed	4	1,2,3,6,9,10,12,4,8,11,14	2019

D. Evidences of papers published/ awards received by projects

The students are encouraged to publish their innovative works in to the national and international conferences, Journals etc. Many students do participate in national and international competitions. A list of student publications out of their project work are given below.

Sl. No.	Student name	Batch	Faculty	Achievement
	Naushin Yasmin	2018- 22	Prof. Kundan Samal	 Selected for Mitacs Globalink research internship program (2021) in her 6th semester, University of Alberta, Edmonton, Canada. Selected for DAAD (WISE) Research Internship Program to work in University of Duisburg- Essen, Germany (2021). Selected for NTU-India connect, Singapore internship program (2021) to work in Nanyang Technological University, Singapore. Started working from 4th semester on a project 'Ecological Floating Bed for wastewater treatment' and has published following papers. Samal Kundan, Yasmin Naushin, Kumari Priya. Challenges in the implementation of Phyto Fuel System (PFS) for wastewater treatment and harnessing bio-energy. Journal of Environmental Chemical Engineering. 2020, 8, 104388. (Elsevier)
	Priya Kumari	2018- 22	Prof. Kundan Samal	Started working from 4th semester on a project 'Ecological Floating Bed for wastewater treatment' and has published following papers. • Samal Kundan, Yasmin Naushin, Kumari Priya. Challenges in the implementation of Phyto Fuel System (PFS) for wastewater treatment and harnessing bio-energy. Journal of Environmental Chemical Engineering. 2020, 8, 104388. (Elsevier)
	Saswat Mahapatra	2018-22	Prof. Kundan Samal	 Worked on topic composting and vermicomposting and filed one Indian patent and published one paper A portable organic waste management apparatus and method of composting (202131038736). Mahapatra Saswat, Ali Md Hibzur, Samal Kundan. Assessment of compost maturity-stability indices and recent development of composting bin. Energy Nexus. 2022, 100062. (Elsevier) Started working on project Oxidation pond for wastewater treatment from 4th semester and published following paper. Mahapatra Saswat, Samal Kundan, Dash Rajesh Roshan. Waste Stabilization Pond (WSP) for wastewater treatment: A review on factors, modelling and cost analysis. Journal of Environmental Management. 2022, 308, 114668. (Elsevier)

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Hibzur Ali	2018-22	Prof. Kundan Samal Prof. Sanjib Moulick	 Worked on topic composting and vermicomposting and filed one Indian patent and published one paper A portable organic waste management apparatus and method of composting (202131038736). Mahapatra Saswat, Ali Md Hibzur, Samal Kundan. Assessment of compost maturity-stability indices and recent development of composting bin. Energy Nexus. 2022, 100062. (Elsevier)
Soham Kar	2017-21	Prof. Kundan Samal	 Selected for Mitacs Globalink research internship program (2020) in his 6th semester, Concordia University, Montreal, Canada. Started working from 4th semester on a project 'Ecological Floating Bed for wastewater treatment' and has published following papers. Samal Kundan, Kar Soham, Trivedi Shivanshi. Ecological floating bed (EFB) for decontamination of polluted water bodies: Design, mechanism and performance. Journal of Environmental Management. 2019, 251, 109550. (Elsevier) Samal Kundan, Kar Soham, Trivedi Shivanshi, Upadhaya Sudhanshu. Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes. SN Applied Science. 2021, 3. (Springer)
Yash Raj	2017-21	Prof. Malaya Mohanty	 Started working from 4th semester on KIIT DU sponsored project "Design analysis of speed breakers and its operational effects of road users" and have 1 journal publication and a conference proceeding. Mohanty, M., Raj, Y., Tiwary, U., Roy, S., Rout, S., and Samal, S. R. (2021). "Operational Effects of Speed Breakers: A Case Study in India", European Transport/Trasporti Europei, 81(1), DOI: 10.48295/ET.2021.81.1. Mohanty, M., Samal, S. R., Raj, Y., Rout, S., Tiwary, U., and Roy, S. (2020) "Performance analysis of speed breakers: A case study in India", ASCE India 2020 Conference, Paper ID: AIC2020-13-338.
Shivanshi Trivedi	2017- 21	Prof. Kundan Samal	Started working from 4th semester on a project 'Ecological Floating Bed for wastewater treatment' and has published following papers. • Samal Kundan, Kar Soham, Trivedi Shivanshi. Ecological floating bed (EFB) for decontamination of polluted water bodies: Design, mechanism and

			 performance. Journal of Environmental Management. 2019, 251, 109550. (Elsevier) Samal Kundan, Kar Soham, Trivedi Shivanshi, Upadhaya Sudhanshu. Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes. SN Applied Science. 2021, 3. (Springer) Samal Kundan, Trivedi Shivanshi. A statistical and kinetic approach to develop an Ecological Floating Bed for the treatment of wastewater. Journal of Environmental Chemical Engineering. 2020, 8, 104102. (Elsevier)
Utkarsh Tiwari	2017-21	Prof. Malaya Mohanty	 Started working from 4th semester on KIIT DU sponsored project "Design analysis of speed breakers and its operational effects of road users" and have 1 journal publication and a conference proceeding. Mohanty, M., Raj, Y., Tiwary, U., Roy, S., Rout, S., and Samal, S. R. (2021). "Operational Effects of Speed Breakers: A Case Study in India", European Transport/Trasporti Europei, 81(1), DOI: 10.48295/ET.2021.81.1. Mohanty, M., Samal, S. R., Raj, Y., Rout, S., Tiwary, U., and Roy, S. (2020) "Performance analysis of speed breakers: A case study in India", ASCE India 2020 Conference, Paper ID: AIC2020-13-338.
Sudhanshu Upadhaya	2017-21	Prof. Kundan Samal	He is the University topper and receiver of chancellor medal and founder gold medal. Started working from 4th semester on a project 'Ecological Floating Bed for wastewater treatment' and has published following paper. • Samal Kundan, Kar Soham, Trivedi Shivanshi, Upadhaya Sudhanshu. Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes. SN Applied Science. 2021, 3. (Springer)
Sagarika Roy	2017-21	Prof. Malaya Mohanty	 Started working from 4th semester on KIIT DU sponsored project "Design analysis of speed breakers and its operational effects of road users" and have 1 journal publication and a conference proceeding. Mohanty, M., Raj, Y., Tiwary, U., Roy, S., Rout, S., and Samal, S. R. (2021). "Operational Effects of Speed Breakers: A Case Study in India", European Transport/Trasporti Europei, 81(1), DOI: 10.48295/ET.2021.81.1. Mohanty, M., Samal, S. R., Raj, Y., Rout, S.,

Alakh Raj Mohan 21 Prof. Kundan Samal Waste Management' and has published following paper. - Samal Kundan, Mohan Alakh Raj, Chaudhury Nabin, Moulick Sanjib, Application of Vermitechnology in waste management: A review on mechanism and performance. Journal of Environmental Chemical Engineering. 2019, 7, 103392. (Elsevier) - Prof. Purnachandra Saha - Prof. Purnachandra Saha - Samal Kundan, Mohan Alakh Raj, Chaudhury Nabin, Moulick Sanjib, Application of Vermitechnology in waste management: A review on mechanism and performance. Journal of Environmental Chemical Engineering. 2019, 7, 103392. (Elsevier) - Jard prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. - Sourav Paul - Shubham Shubham Shubham Singh - Sujon Prof. 217 Prof. 218 Prof. Purnachandra Saha - Prof. Purnachandra Saha Removal of VOCs and Improvement of Indoor Air Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. - Sujon Mondal, Soham De, Purnachandra Saha Removal of VOCs and Improvement of Endoor Air Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. - Sujon Mondal, Soham De, Purnachandra Saha, Removal of VOCs and Improvement of Indoor Air Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. - Sujon Mondal, Soham De, Purnachandra Saha, Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter, Lecture Notes in Civil Engineering book series (LNCE, volume 81), 2020.	Г	1	T	
Alakh Raj Mohan 21 Prof. Kundan Samal				ASCE India 2020 Conference, Paper ID: AIC2020-13-338.
Debdatta Chakraborty 2017- 21 Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Prof. Purnachandra Saha Pro		3		 Waste Management' and has published following paper. Samal Kundan, Mohan Alakh Raj, Chaudhury Nabin, Moulick Sanjib. Application of vermitechnology in waste management: A review on mechanism and performance. Journal of Environmental Chemical Engineering. 2019, 7,
Soham De 2017- 21 Prof. Purnachandra Saha Sourav Paul Shubham Singh Singh 2017- 21 Soham De Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. Sujon Mondal, Soham De, Purnachandra Saha. Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series (LNCE, volume 81), 2020. 3rd prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. 3rd prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. Sujon Mondal, Soham De, Purnachandra Saha. Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series (LNCE, volume 81), 2020.			Purnachandra	 3rd prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. 2nd position in Bridge builder competition conducted by IIT Bombay. Runner up in BIM Design competition secured 'Best planner 2k19' title, SCE, KIIT (Organised by
Sourav Paul Purnachandra Sona Sourav Paul Sourav Paul Purnachandra Sona Sourav Paul Sourav Paul Purnachandra Sona Sourav Paul Sourav Paul Sourav Paul Sourav Paul Sourav Paul Purnachandra Sona Sourav Paul Souravive Quarantine Centre Building for COVID 19" on March 19-20, 2021. Sujon Mondal, Soham De, Purnachandra Saha. Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series (LNCE, volume 81), 2020.	Soham De		Purnachandra	 Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. Sujon Mondal, Soham De, Purnachandra Saha. Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series
Shubham Singh 2017- 21 Prof. Purnachandra Saha Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. Sujon Sujon Mondal Prof. Purnachandra Saha Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series (LNCE, volume 81), 2020.	Sourav Pau		Purnachandra	Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for
Sujon Mondal 2017- Mondal 21 Purnachandra Saha of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. Lecture Notes in Civil Engineering book series (LNCE,volume 81), 2020.			Purnachandra	Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021.
Sagnik Paul 2017- Prof. Worked on urban road maintenance and published paper.		21	Purnachandra	of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter. <u>Lecture Notes in Civil Engineering</u> book series (LNCE,volume 81), 2020.
	Sagnik Pau	1 2017-	Prof.	Worked on urban road maintenance and published paper.

Choudh	ary 21	Purnachandra Saha	Debarshi Sahoo, Sagnik Paul Choudhury, Purnachandra Saha. <u>Urban road maintenance management & repairing</u> techniques.
Nabin Chaudhu	2017- 21	Prof. Kundan Samal	Started working from 4th semester on a project 'Solid Waste Management' and has published following paper. • Samal Kundan, Mohan Alakh Raj, Chaudhury Nabin, Moulick Sanjib. Application of vermitechnology in waste management: A review on mechanism and performance. Journal of Environmental Chemical Engineering. 2019, 7, 103392. (Elsevier)
Subhang Rout	gee 2017- 21	Prof. Malaya Mohanty	 Started working from 4th semester on KIIT DU sponsored project "Design analysis of speed breakers and its operational effects of road users" and have 1 journal publication and a conference proceeding. Mohanty, M., Raj, Y., Tiwary, U., Roy, S., Rout, S., and Samal, S. R. (2021). "Operational Effects of Speed Breakers: A Case Study in India", European Transport/Trasporti Europei, 81(1), DOI: 10.48295/ET.2021.81.1. Mohanty, M., Samal, S. R., Raj, Y., Rout, S., Tiwary, U., and Roy, S. (2020) "Performance analysis of speed breakers: A case study in India", ASCE India 2020 Conference, Paper ID: AIC2020-13-338.
Debdatta Chakrab		Prof. Purnachandra Saha	 3rd prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2019-20 on the Theme "Steel Intensive Innovative Quarantine Centre Building for COVID 19" on March 19-20, 2021. 2nd position in Bridge builder competition conducted by IIT Bombay. Runner up in BIM Design competition secured 'Best planner 2k19' title, SCE, KIIT (Organised by Autodesk with collab Twintech)
Nirmal Pandey	2016- 20	Prof. Purnachandra Saha	2nd Prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2016-17 on the Theme "Inter State Bus Terminus for Smart City" on 21 December, 2017.
Aproov Ankit	2016- 20	Prof. Purnachandra Saha	2nd Prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2016-17 on the Theme "Inter State Bus Terminus for Smart City" on 21 December, 2017.
Sajal Ve	rma 2014- 18	Prof. Purnachandra	2nd Prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative

		Saha	Structural Steel Design: 2016-17 on the Theme "Inter State Bus Terminus for Smart City" on 21 December, 2017.
Krishan Pareek	2014- 18	Prof. Purnachandra Saha	2nd Prize in National level Civil/Structural Engineering Students Award Competition for Best Innovative Structural Steel Design: 2016-17 on the Theme "Inter State Bus Terminus for Smart City" on 21 December, 2017.

2.2.4 Initiatives related to industry interaction (10)

(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts etc. Mention the initiatives, implementation details and impact analysis)

School of Civil Engineering has developed a strong industry-academia partnership inorder to maximize the benefit to the students. The School has taken a number of initiatives for a vibrant industry interaction, some of which are given below.

- Industry Involvement in the Program Design and Curriculum
- Industry involvement in Industry Supported Laboratories
- Partial delivery in Partial delivery of course:
- Invited lectures by Industry Experts
- Workshops/Conferences
- Industrial visits
- Industry Electives
- Industry involvement in Research
- Industry involvement in student projects
- Internship

Industry Involvement in the Program Design and Curriculum

- a. Industry experts are part of Board of School of Civil Engineering
- b. Feedbacks are taken continuously from industry experts for curriculum design and development

MoUs with Industry

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details (Name of the primary contact person, address, email id, phone number)	Name of the participants: Names of faculty member with students	Starting date of collaboration (DD-MM- YYYY)	Duration (in days)	Nature of the activity
1	Remote Sensing and GIS	Spark and Absys	D K Bera, B G MOhapatra, B Das, J Padhy, K P Samal	6-1-2018	365	Training and Skill Development
2	Scaffolding and Formwork Doka India Lab	Doka India Limited	D K Bera, B G Mohapatra, A k Pani	10-6-2016	730	Training and Skill Development
3	Building Information and Modelling lab development	KIIT DU and Autodesk India Private Limited	D K Bera, B G Mohapatra, N C Moharana, P C Saha, Mohibullah,	16-02-2018	365	Skill Development
4	Training, Education and Internship in the area of Port and Harbour Engineering	KIIT DU and Global Archer Consultancy LLP	D k Bera, Mohibullah, B G Mohapatra, S Moulick	19-02-2018	1825	Training and Skill Development
5	Mutual Cooperation and dissemination of respective expertise in civil/highway engineering field through the road infrastructure development	KIIT DU and National Highway Authority of India	B G Mohapatra, B Das, P k Acharya, D R Biswal, M Mohanty, B Beriha	01-08-2020	1825	Research, Teaching, Training, Sharing of expertise, Students Internship
6	Technical Support to the Housing and Urban Development Department, Government of Odisha to implement the state urban sanitation strategy (FSSM)	KIIT DU, Ernst & Young LLP, India and Housing and Urban Development, Govt.of Odisha	B G Mohapatra, B Das, P K Acharya, S Moulick, T Mohanty, K Samal, Mr. Sarith Sasidharan, Advisory Services, Government & Public	04-03-2020	1825	Building of local technical capabilities and execution of the interventions

			Sector, E&Y LLP, Bengaluru			
7	Industrial training of students, Research and developments, Work Integrated learning Program.	KIIT DU and G R INFRA PROJECTS LTD.	B G Mohapatra, D.K Bera, P K Acharya, D R Biswal, M Mohanty, B Beriha	01-04-2022	1095	Industrial training of students, Students development programmes

• Industry Supported Laboratories

Sl. No.	Name of the Laboratory	Name of the	Brief detail about laboratory
		associated industry	
1	Building Information and Modelling Lab	Autodesk India Ltd and Twin Tech Engineering and Design Technology	Conducting Training on softwares like autocad, revit, civil 3d etc
2	Scaffolding and Formwork Lab	Doka India	Conducting workshops on the erection and de-erection of formwork with doka material.

• Partial delivery of course:

Sl.	Industry	Designation including	Topic	Date
No	Expert/Academi	Affiliated organisation		
	a Expert			
1.	Industry Expert	Mr. Pramod Kumar Mishra, General Manager – Learning and Development, G.R. Infraprojects Ltd.,	"Career options for Civil Engineers in Infrastructure Sector".	23 ⁻ April 2022
2.	Industry Expert	National Council for Cement and Building Materials (NCCBM)	Waste Utilization in Cement and Concrete Industry	21 ⁻ Mar 2022
3.	Industry Expert	Dr. B. Pandu Ranga Rao, General Manager (NCB- Hyderabad) & Unit In- charge (NCB- Bhubaneswar)	Construction Technology and Project Management	9 ⁻ April 2022

4.	Nupur Apte- Gumaste	Executive Director, Global Archer Construction & Engineering LLP	Const. MGMT, BOQ, Quantity survey, Business development, QA/QC	17-Mar-21
5.	Somnath Gaikwad	CFO, Global Archer Construction & Engineering LLP	Accounts & Finance, Opex, Capex, Revenue, Depreciation, Cash Flow, Budget, Drawdown, TDS, GST, Tour Claim, TA Bill	18-Mar-21
6.	Shubham Choudhary	Project Engineer, Global Archer Construction & Engineering LLP	Brief on GSM Project, Challenges, faced, followed with Project Management.	18-Mar-21
7.	Papiya Saha	Business Development Manager, Global Archer Construction & Engineering LLP	Individual project details & work methodology, Tender surfing, NIT, Documentation, Eligibility Criteria Financial & Technical, Turnover, JV , SPV, Sub Let, CVs, Experts, Approach Methodology & Social Media Management.	19-Mar-21
8.	Ankur Raj	Deputy Manager -Projects, Global Archer Construction & Engineering LLP	Refinery: Introduction, Design & construction of onshore oil facilities like Sub-stations, Control Room, W are house, Pavement, sheds etc., Mobilization process, Work Implementation with Proper Safety Guideline, Hand over Process.	19-Mar-21
9.	D. N. Pegu	Vice President, Global Archer Construction & Engineering LLP	Brief on Boffa Project, Challenges, faced, followed with Project Management, Bridge, Culvert and Road works.	22-Mar-21
10.	Vijay Jamader	QA/QC Engineer, Global Archer Construction & Engineering LLP	Testing of Aggregate,Concrete, Cement ,Soil, Bitumen, NDT	23-Mar-21

11.	Nishikant Parida	Manager- Operations, Global Archer Construction & Engineering LLP	Konta port loading & unloading procedure	23-Mar-21
12.	Sudhir Pawar	Sr. Manager, Global Archer Construction & Engineering LLP	Konta port Operation & Maintanance	23-Mar-21
13.	Priyanka Sinha	Global Archer Construction & Engineering LLP	Introduction and fundamentals	25 th - 28 th Feb 2019
14.	Dayanand Pegu	Global Archer Construction & Engineering LLP	Port infrastructures	27th - 28th Feb 2019
15.	Shailendra Jha	Global Archer Construction & Engineering LLP	Harbour infrastructures	28th Feb & 1st March 2019
16.	Saroj Nayak	Global Archer Construction & Engineering LLP	Traffic Study, Demand Assessment/Forecast:	1st & 2nd April 2019
17.	Mayur Bhatt	Global Archer Construction & Engineering LLP	Surveying & study	1st & 2nd April 2019
18.	Jali Debnath / Manoj Verma	Global Archer Construction & Engineering LLP	Introduction and fundamentals of ports	7th - 9th March 2019

• Guest Lectures in Lecture series/Conferences/Seminars/workshops by Industry Experts

Sl.	Industry	Designation	Topic	Date
No.	Expert/Academia	including Affiliated		
	Expert	organisation		
1.	Industry Expert	Mr. Jagannath Oleti, VP	Building Culture of a	28-08-2020
		President & Head HR L	Digital Future:	
		& T Defence	Challenges Here and	
			Now (People	
			Perspective)	
2.	Industry Expert	Ms. Annie Lim, TA	Building Culture of a	28-08-2020
		Head & Diversity	Digital Future:	
		Outreach Citrix	Challenges Here and	
		Singapore	Now (People	
			Perspective)	
3.	Industry Expert	Mr. Sreenu Ambati, VP	Building Culture of a	28-08-2020
		HR, Navayuga	Digital Future:	
		Enginnering Company	Challenges Here and	

		Limited	Now (People Perspective)	
4.	Industry Expert	Mr. Sanjay Chaturvedi,	Future of Work: HR	29-08-2020
7.	muusiry Expert	Director, HR, Hilti India	Competencies	27-00-2020
5.	Industry Expert	Dr. Rasheed M. L.,	Future of Work: HR	29-08-2020
5.	madsiry Expert	Head HR, My Homes	Competencies	27 00 2020
		Construction Ltd	Competencies	
6.	Industry Expert	Mr. Arabinda Nandy,	Becoming Industry	29-08-2020
0.	maustry Expert	GM-HR, Strata	Ready	27 00 2020
		Geosystems (India) Pvt.		
		Ltd.		
7.	Industry Expert	Mr. Tridip Sarma, GM,	Becoming Industry	29-08-2020
	J 1	HR, Patel Engineering	Ready	
		Ltd.	,	
8.	Industry Expert	Mr. Rashmi	Building the	29-08-2020
	7 1	Mansharamani, CHRO,	Organization for Future	
		The Wave Group		
9.	Industry Expert	Mr. Rajesh Srishetty,	Emerging Technologies	29-08-2020
		Bridage Group	in Building	
			Construction in India	
10	Industry Expert	Prof. Suranjan Panigrahi	Air-Water- Health	19-12-2020 to
		Professor, Purdue	Nexus: Role of	21-12-2020
		University, USA	Advanced	
			Technologies.	
11	Industry Expert	Prof. Ts.Dr. Christy P.	Cultural Shift towards	19-12-2020 to
		Gomez Associate	Sustainability in the	21-12-2020
		Professor, Universiti	Construction Industry	
		Tun Hussein Onn,		
		Malaysia		
12	Industry Expert	Prof. Jean-Louis	Indoor Airquality, CO2	19-12-2020 to
		Roubaty Professor,	measurement and	21-12-2020
		Paris-Diderot University	Reduction of Covid-19	
1.2	T 1 4 E 4	Consultant	0	10.12.2020 /
13	Industry Expert	Prof. Hong Yao-ming	Sustainable and Green	19-12-2020 to
1.4	La dispatare Description	igr	Energy Building	21-12-2020
14	Industry Expert	Dr. Ajay Pradhan VP,	Sustainable Agriculture	19-12-2020 to
		CEAI & President,	Water Management through	21-12-2020
		C2S2 Pvt Ltd	Management through Internet of	
			Things (IoT) in Punjab, Indi a	
15	Industry Expert	Prof. Sudhindra Nath	Education and Training	19-12-2020 to
13	mustry Expert	Panda Director,	for Sustainable	21-12-2020
		National Institute of	Development	21-12-2020
		Technical teachers	Bevelopment	
		Training and Research		
		(NITTR), Govt of India		
16	Industry Expert	Prof. Debakanta (Deb)	Pavement Material	19-12-2020 to
	mousty Expert	Mishra Associate	Characterisation and	21-12-2020
		Professor, Oklahoma	field instrumentation	21 12 2020
		Tioressor, Oktanoma	11010 IIIou airicitation	1

		State University, USA		
17	Industry Expert	Prof. Achintya	Preparing Our	19-12-2020 to
		Bezbaruah Professor,	Municipal Infrastructure	21-12-2020
		North Dakota State	for Climate Change	
		University, USA	_	
18	Industry Expert	Prof. Pijush Samui	Artificial Intelligence in	19-12-2020 to
		Associate Professor,	Infrastructure	21-12-2020
		NIT Patna	Engineering	
19	Industry Expert	Dr. Sunil S. Basarkar,	Sustainability in	19-12-2020 to
		General Manager,	infrastructure in	21-12-2020
		AFCONS Infrastructure	Reference to Multi-	
		Limited	Activity Road Project at	
			Himachal Pradesh,	
			India	
20	Industry Expert	Dr. R. N. Sankhua,	Sustainable Water	19-12-2020 to
		Chief Engineer,	Resources: Reimagining	21-12-2020
		NWDA, Hyderabad	a blue future	
21	Industry Expert	Mr. Prasanta Kumar	Sustainable Urban	19-12-2020 to
		Mohapatra Project	Municipal Waste	21-12-2020
		Director, OWSSB,	management	
		Govt. of Odisha		
22	Industry Expert	Mr. Ajay Singhal	Status of Infrastructure	19-12-2020 to
		general manager, G R	Projects in India	21-12-2020
		Infrastructure Pvt Ltd		

• Industrial visits

Sl. No.	Industry Visited	Site Details/Project details	Date
1	Rudrapur,cuttack, Odisha		12/11/2019
2	36 MLD Sewage Treatment plant		07/12/2019
3	Kalinga Institute of Medical Science's		31/01/2020
4	Pradhan Constructions		04/04/2022

Industry Electives

Departmental elective and Open elective is floated under the category of Industry Elective. This is introduced with an objective to familiarize students with the basics of Construction techniques, provide students an opportunity for real-time practical exposure of the Construction Industry. Ensuring that the trainee apprentice acquires basic working knowledge of the Construction sites. Create industry-certified Graduate Engineers in the field of the Construction Engineering.

• Industry involvement in Research

School of Civil Engineering has is engaged with various industries for carrying out impactful

research. A brief list of research activities with industries are given below.

Name of the industry	Area of the MoU	MoU sign Date	Research Activities
Ernst & Young LLP	Urban FSSM Fellowship programme to support the programme delivery at district level and to provide technical support for FSSM.	25 th February, 2020	One paper published in journal: Paper detail: Design of faecal sludge treatment plant (FSTP) and availability of its treatment technologies authored by Kundan Samal, Sanjib Moulick, Benu Gopal Mohapatra, Sasmita Samanta, Sandipan Sarangi in Energy Nexus. One patent has been filed.
National Council of Cement and Building Materials	Fostering collaboration between the two institutions to promote	01 st February, 2022	A collaborative research project proposal named "Development of paver block from cement-less binder using agro-industrial waste" submitted by KIIT DU and NCCBM is under consideration of DST, Govt of India.
National Highway Authority of India	Mutual Cooperation and dissemination of respective expertise in civil/highway engineering field through the road infrastructural development	18 th August, 2020	Field visit and research on road safety.

2.2.5 Initiatives related to industry internship/summer training (10)

Initiative:

Students undertake field/industry visits and undergo internships/trainings to acquaint themselves with the industry and job requirements and develop an understanding of the real time issues. School level Industry Engagement Cell (IEC) along with Central IEC coordinates with various industry, government agencies, academic institutions for internship programme of students. During Covid-19, School of Civil Engineering has also conducted a number of internship programme for the students whish are given below.

Sl.	Name of Internship Programme	Starting	Ending date	Number	r of
No.	Name of Internsinp Programme	date	Ending date	participa	ants

1	Summer Internship on "Waste Management as Business Model"	20/06-2020	19/07/2020	42
2	Summer Internship on "Planning, Designing & Detailing of a Building with case study	20/06-2020	19/07/2020	45
3	Summer Internship on "Project Management using Primavera P6"	20/06-2020	19/07/2020	37
4	Summer Internship on "Transportation infrastructure: Planning & Design"	20/06-2020	19/07/2020	41
5	Summer Internship on "Infrastructure Engineering and Design Solutions using E-Survey CADD"	1/6/2021	2/7/2021	32
6	Summer Internship on "Design of RCC Structures usign Tekla Software".	1/6/2021	2/7/2021	25
7	Summer Internship on "Project Planning and Scheduling using Primavera"	1/6/2021	2/7/2021	23
8	Summer Internship on "Transportation infrastructure: Planning & Design"	1/6/2021	2/7/2021	27
9	Summer Internship on "Modelling Applications in Water Resources Engineering"	1/6/2021	2/7/2021	21

Implementation

Sl. No	Name of the industry	Title of the training No of student		Duration of the training (days)
1	National Highway Authority of India (NHAI)	NHAI offer internship to 40 numbers of undergraduate / postgraduate students of KIIT and pay stipend @ Rs. 6,000/- per month for undergraduate students and @ Rs. 12,000/- per month to Postgraduate students	40	30
2	Government of Odisha's Housing and Urban Department	The Urban Learning Internship Program (TULIP). with a stipend of Rs. 5000/- per month	9	30
3	Tata Steel Limited	Vocational Training Program	2	30
4	URTS Private Limited	Operations Intern	1	60
5	Twintech Engineering and Design Technology	Drafting, Annotation, 3D Modelling with AutoCAD	2	30
6	SAIL	Compressive strength of concrete	1	30
7	CPWD	Construction and planning activities	2	30
8	Larsen & Toubro Limited	Summer Internship	3	45
9	JSW PTPL Paradip	Summer Internship	1	30
10	CPWD, Bhubaneswar	Design and construction of water treatment plant.	1	30
11	Infrastructure Development Ministry Nepal	Transportation	1	120
12	NCC Limited	Summer Internship	1	60
13	Public Works Department,	Site Engineer	1	30

14 Govt of West Bengal, Social Sector, PWDTE, Tamluk Division 15 Psp projects limited Winter internship 6 30 30 30 30 30 30 30		Assam			
1					
Tamluk Division	14	•	Construction of Sadhhay Mandan	1	30
15	14		Construction of Sadonav Mandap	1	30
10	15		Winter internship	6	30
17		110	•		
Allied infrastructures and projects Summer internship 1 60		Orient Constructions Private	•		
19	18	Allied infrastructures and	Summer internship	1	60
Sai Shiv Construction Private Limited Limited Limited Limited	19	Kolkata Metro Rail	Summer Intern	1	30
MECON Limited Ranchi Basics of RCC Design 1 30	20	Sai Shiv Construction Private	Multi Level Car parking	5	10
NCC limited	21	Amazon.com	Compliance intern	1	180
NCC limited	22	MECON Limited Ranchi	Basics of RCC Design	1	30
24	23	NCC limited	Ü	1	365
25			č	2	30
NBCC India Summer Intern 4 30	25	PNC Infratech limited		1	30
NBCC India Summer Intern 4 30				1	
Water power consultant pvt. Ltd		NBCC India	<u> </u>		
Sesentials Program 14 41	28	Water power consultant pvt.		1	60
CPWD,Odisha Various construction and planning activities (Water treatment plant) 30	29	High Radius		14	41
CPWD,Odisha activities (Water treatment plant) 30	30	civil center	G+6 Storey Commercial Building	2	30
PHE(PUBLIC HEALTH ENGINEERING)	31	CPWD,Odisha	activities(Water treatment	1	30
33 (PGCIL) Gurugram haryana Summer Internship 1 30 34 SHAJ Road work 1 30 35 Vedanta Aluminium Limited, Lanjigarh (Odisha) Civil maintenance and ongoing capex project 1 30 36 Iron Triangle ltd. Summer internship 5 30 37 CTTC, Bhubaneswar StaadPro 4 30 38 Water Resource Department Water conservation practices and keoti canal network in Rewa district 1 30 39 Bihar Rajya Pul Nirman Nigam Ltd Bridge Construction. 1 45 40 Rajbir construction pvt ltd. Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road. 1 25 40 Rajbir construction pvt ltd. 25 40	32		Distribution of Pipeline system	1	60
34SHAJRoad work13035Vedanta Aluminium Limited, Lanjigarh (Odisha)Civil maintenance and ongoing capex project13036Iron Triangle ltd.Summer internship53037CTTC, BhubaneswarStaadPro43038Water Resource DepartmentWater conservation practices and keoti canal network in Rewa district13039Bihar Rajya Pul Nirman Nigam LtdBridge Construction.14540Rajbir construction pvt ltd.Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road.125	33	(PGCIL) Gurugram	Summer Internship	1	30
Vedanta Aluminium Limited, Lanjigarh (Odisha) Civil maintenance and ongoing capex project 1 30	34		Road work	1	30
36 Iron Triangle ltd. Summer internship 5 30 37 CTTC, Bhubaneswar StaadPro 4 30 38 Water Resource Department Water conservation practices and keoti canal network in Rewa district 1 30 39 Bihar Rajya Pul Nirman Nigam Ltd Bridge Construction. 1 45 40 Rajbir construction pvt ltd. Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road. 1 25 40 Rajbir construction pvt ltd. 30 50 Rajbir construction pvt ltd. 3		Vedanta Aluminium Limited,	Civil maintenance and ongoing	1	
StaadPro Water Conservation practices and keoti canal network in Rewa district Simple Construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road. StaadPro 4 30	36			5	30
Water Resource Department Keoti canal network in Rewa district Bihar Rajya Pul Nirman Nigam Ltd Bridge Construction. Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road.					
Bihar Rajya Pul Nirman Nigam Ltd Bridge Construction. Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road.			Water conservation practices and keoti canal network in		
40 Rajbir construction pvt ltd. Improvement and construction of new pipe culverts and 2 minor bridges and improvement of two way bituminous road.	39			1	45
41 China petroleum pipeline ltd. Summer Internship 1 30	40		new pipe culverts and 2	1	25
	40	Rajbir construction pvt ltd.	improvement of two way	1	

42	Shapoorji pallonji group	Belle vue eye hospital kolkata	5	45
		Road Construction in		
43	PWD, Raiganj Subdivision	Transportation	1	30
		Engineering		
44	Rang Private Limited	Internship on Road construction	1	30
45	jai shiv construction pvt.ltd	construction site	1	60
46	Tisa infratec	Implementation of buildings	1	60
47	Bisoi and Associates	Buillding Construction	5	30
48	Ashoka buildcon	Construction	4	30
49	Shree Maa Sakhada Bhagwati Construction and company Pvt. Ltd.	construction management	1	30
50	Gammon India Ltd.	9012 ANV2 Kolkata Metro Rail Project	4	30
51	SCPL	Summer internship program	4	90
52	BRPNNL	Flyover Construction	1	30
53	PWD Chhattisgarh	Executive Engineer PWD Champa	1	30
54	Centre for Environmental Efficiency	Self Sustainable Houses	1	30
55	INSDAG	National Award Competition for Students	1	90
56	Ashoka Ranastalam Anandapuram Road Limited	National Highway Project	1	30
57	PWD	Preparation of estimate of Building and Road works.	1	30
58	NBCC (INDIA) LIMITED	Summer Internship	1	30
59	Water Resouces Department, Government of Odisha	Summer Intenship	1	30
60	Skipper Limited	Internship On Transmission Tower Testing Bed	1	30
61	Raipur Smart City Corporation Limited	Jawahar Bazaar Multi-Level Parking	1	45
62	ReadyGo Cabs (Riant Group)	Business Development Intern	1	30
63	East Central railways	Site supervision	1	30
64	Department of Water Resources, Office Of The Executive Engineer, Prachi Division, Bhubaneswar, Odisha	Industrial Training	1	30
65	A.G Office at Keshari Nagar , Unit-V , Bhubaneswar , Odisha	Construction of New office Building (G+6)	1	30
66	Sagar nirman sewa	Road construction work(DBSD work)	1	120
67	Rk Construction, Mayurbhanj	Quality Control And Management	2	90
68	Private	IT Centre Building	1	30
69	Shree Bhagat Construction Pvt.Ltd.	Survey And Implementation of a building Porject	1	90

70	North Eastern Electric Power Corporation Limited	Summer Industrial Training at 101 MW Tripura Gas Based Combined Cycle Power Plant	1	30
71	APDL Pvt. Ltd	Site Engineer	1	30
72	Mm engineering and consultant	Pile designing	1	45
73	Central Public Works Department	POSOCO work site	1	30
74	Nirajan Mahapatra A Class Engineer Contractor	Dam Project Construction and Maintenance	1	30
75	P.W.D west bengal	Summer Internship	1	30
76	P.W.D	Site engineer	1	45
77	Sri yes yes shelter	Break ground, excavation and foundation	1	30
78	Deyan Infratech	Client Dealing, Architectural Planning, Drafting, 3D Modelling, Basic Interior detailing & Material Selection for a Residential Building Project	1	30
79	RK Construction Mayurbhanj	Quality Control And Management	1	90
80	Online Internship program Conducted by KIIT	Summer Internship on "Infrastructure Engineering and Design Solutions using E-Survey CADD"	32	30
81	Online Internship program Conducted by KIIT	Summer Internship on "Design of RCC Structures using Tekla Software".	25	30
82	Online Internship program Conducted by KIIT	Summer Internship on "Project Planning and Scheduling using Primavera"	23	30
83	Online Internship program Conducted by KIIT	Summer Internship on "Transportation infrastructure: Planning & Design"	27	30
84	Online Internship program Conducted by KIIT	Summer Internship on "Modeling Applications in Water Resources Engineering"	21	30
85	M/s Ecometrix Consultant Pvt. Ltd.	Online training program on 'EPANET Software' by Mr. Ashok Kumar Tarai, Consultant – Water and Environment, M/s Ecometrix Consultant Pvt. Ltd.	45	30

Impact Analysis: Feedback collection process

- Students' exposure to industry gets improved.The student's technical skills are improved.

- Student's placement in core companies is improved.
- The student's placement percentage has improved compared to the previous years.
- Students gain valuable work experience.
- Students have an edge in the job market
- Students understand the practical challenges and process in the industry.

Feedback collection process

- Feedback is obtained from the students regarding the industrial training/internship.
- Necessary actions with regard to the feedback given by the students who underwent training.
- A sample feedback form is given below.

STUDENT FEEDBACK ON INDUSTRIAL TRAINING/INTERNSHIP

Name of the Student:		Se	emester		
Duration:					
Name of the organization/industry					
Short title of training:					
PLEASE TICK APPROPRIATE OPTION	(PART-A)				
Description	Below Average (1)	Average (2)	Good (3)	Very Good (4)	Excellent (5)
Relevance of the industrial training or internship with the curriculum	5 ()				
Effectiveness in communicating the course content was The instructor's ability and willingness to					
answer the questions Ability to keep the session lively and					
Quality of training manual & handouts as future resource /learning tools Opportunity to learn from the internship					
work in the company Training environment with the co- interns/workers.					
Recommend the company for future training/internship					
PART-B					
1. How did you find the training duration?	High		Appropriate	Less	
2. Which subject did you like the most duri	ing the industria	l training/in	iternship?		
3. What would you suggest to improve the	industrial traini	ng/internshi	p?		
				Signature of	the Student

CRITERION 3	Course Outcomes and Program Outcomes	175
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3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)

- NBA defined Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program. Six to ten matrices of core courses are to be mentioned with at least one per semester.
- Select core courses to demonstrate the mapping/correlation with all POs and PSOs.
- Number of Outcomes for a Course is expected to be around 6.

(A) PROGRAM OUTCOMES (NBA defined Outcomes)

Engineering Graduates will be able to:

- 1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. **Environment and sustainability:** understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics:** Apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice.
- 9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- 11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

- 1. Ability to select and utilize sustainable low cost alternate materials contributing to environment friendly construction practices.
- 2. Ability to understand and adopt methodologies and actions for sustainable environment.
- 3. Ability to understand and develop strategies for sustainable water resources in the context of climate change.

No. of Core	C2:2	C3:3	C4:1
Courses:6			

Note: Number of Outcomes for a Course is expected to be around 6

Course Name:	C203	Course Year:	2019-2020

Course Name	Statements
C203.1	Estimate the water demand for a particular areas
C203.2	characterize physical and chemical parameters responsible
C203.3	characterize biological parameters of water and its significance
C203.4	design various units of a water treatment plant
C203.5	identify and control the parameters responsible for air pollution
C203.6	identify and control the parameters responsible for noise pollution

Course Name: C214	Course Year:	2019-2020
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Course Name	Statements
C214.1	identify the soil types and classify based on index properties
C214.2	evaluate the capillarity and permeability characteristics of soils
C214.3	determine the seepage pressure in soil
C214.4	estimate effective stress under various conditions to lead failures of hydraulic
	structures by piping
C214.5	Determine various shear strength parameters of soil.
C214.6	determine the long-term settlement of foundations based on one dimensional
	consolidation theory

Course Name:	C301	Course Year:	2020-21
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Course Name	Statements
C301.1	understand the basic concepts of working stress and limit state methods
C301.2	determine strength of reinforced concrete beams and slabs at various support conditions as per Limit state design
C301.3	design reinforced concrete beams and slabs at various support conditions for different loadings as per Limit state design
C301.4	design staircases for different support conditions as per Limit state design
C301.5	design different types of reinforced concrete compression members as per Limit state design
C301.6	design different types of footings as per Limit state design

Course Name:	C303	Course Year:	2020-21
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Course Name	Statements
C303.1	classify the canals, design irrigation channels and apply the concept of Kennedy
	and lacey theory
C303.2	explain the theories of seepage and design of weirs on permeable foundation
C303.3	Select appropriate sites for construction of reservoirs and dams.
C303.4	Design the gravity dam by considering various forces acting on it.
C303.5	Describe the types, causes of failure and criteria for safe design of earthen dam.
C303.6	study about different types of spillways and design of Ogee spillway

Course Name:	C311	Course Year:	2020-21
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Course Name	Statements
C311.1	understand the properties of different types of rolled steel structural members
C311.2	design different types of connections (bolted & welded) as per Limit state
	design
C311.3	design different types of steel structural members for axial (tension and
	compression) as per Limit state design
C311.4	design of beams as per Limit state design
C311.5	design beam-column and select appropriate column bases for steel columns
C311.6	analyse beams and frames using plastic theory

Course Name:	C401	Course Year:	2021-22
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Course Name	Statements
C401.1	Select appropriate engineering decisions in consideration of professional ethics

	in realization of more critical impact of engineering compared to general
	experiments.
C401.2	Evaluate and prescribe risk reducing measures.
C401.3	Comprehend the dynamics in engineers' roles and responsibilities with
	emerging issues in global scene.
C401.4	Know the various compliance requirements and the regulatory bodies to protect
	environment.
C401.5	Have a fair idea to protect their engineering inventions from unauthorized
	exploitation under intellectual property rights system and laws relating to
	information communication technologies
C401.6	Understand, analyse and prevent misuse of IT related transactions.

1. Course name: C203

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	Estimate the water demand for a particular areas	3					2	3	1		1	2	2
C203.2	characterize physical and chemical parameters responsible	3					2	3	1		1	2	2
C203.3	characterize biological parameters of water and its significance	3					2	3	1		1	2	2
C203.4	design various units of a water treatment plant	3		2			2	3	1		1	2	2
C203.5	identify and control the parameters responsible for air pollution	3		2			2	3	1		1	2	2
C203.6	identify and control the parameters responsible for noise pollution	3		2			2	3	1		1	2	2
Average		3		2			2	3	1		1	2	2

2. Course name: C214

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	identify the soil types and												
	classify based on index												
	properties	3	3	2				1					
C214.2	evaluate the capillarity												
	and permeability												
	characteristics of soils	3	3	2				1					
C214.3	determine the seepage												
	pressure in soil	3	3	2				1					
C214.4	estimate effective stress												
	under various conditions												
	to lead failures of												
	hydraulic structures by												
	piping	3	3	2				1					
C214.5	Determine various shear												1
	strength parameters of												
	soil.	3	3	2				1					
C214.6	determine the long-term												1
	settlement of foundations												
	based on one dimensional												
	consolidation theory	3	3	2				1					
Average		3	3	2				1					l

3. Course name: C301

68

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	understand the basic												
	concepts of working												
	stress and limit state		2										
G201.2	methods	3	3	3				1	3		2	1	2
C301.2	determine strength of												
	reinforced concrete												
	beams and slabs at												
	various support												
	conditions as per Limit	3	3	3				1	3		2	1	2
C301.3	state design design reinforced	3	3	3				1	3			1	
C301.3	concrete beams and												
	slabs at various support												
	conditions for different												
	loadings as per Limit												
	state design	3	3	3				1	3		2	1	2
C301.4	design staircases for												
	different support												
	conditions as per Limit												
	state design	3	3	3				1	3		2	1	2
C301.5	design different types of												
	reinforced concrete												
	compression members as												
	per Limit state design	3	3	3				1	3		2	1	2
C301.6	design different types of												
	footings as per Limit												
	state design	3	3	3				1	3		2	1	2
Average		3	3	3				1	3		2	1	2

4. Course name: C303

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	classify the canals, design irrigation channels and apply the concept of Kennedy and lacey theory	3	3	3				2					
C303.2	explain the theories of seepage and design of weirs on permeable foundation	3	3	3				2					
C303.3	Select appropriate sites for construction of reservoirs and dams.	3	1	1				2					
C303.4	Design the gravity dam by considering various forces acting on it.	3	2	2				2					
C303.5	Describe the types, causes of failure and criteria for safe design of earthen dam.	3	3	3				2					
C303.6	study about different types of spillways and design of Ogee spillway	3	1	1				2					
Average		3	3	2				1					

5. Course name: C311

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	understand the properties of different	3	3	3							2		

	types of rolled steel structural members								
C311.2	design different types of connections (bolted & welded) as per Limit state								
	design	3	3	3				2	
C311.3	design different types of steel structural members for axial (tension and compression) as per Limit state design	3	3	3				2	
C311.4	design of beams as per Limit state								
	design	3	3	3				2	
C311.5	design beam-column and select appropriate column bases for steel columns	3	3	3				2	
C311.6	analyse beams and frames using								
	plastic theory	3	3	3				2	
Average		3	3	3				2	

6. Course name: C401

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	Select appropriate engineering												
	decisions in consideration of												
	professional ethics in realization of												
	more critical impact of engineering												
	compared to general experiments.								3	1		1	1
C401.2	Evaluate and prescribe risk reducing												
	measures.								3	1		1	1
C401.3	Comprehend the dynamics in												
	engineers' roles and responsibilities												
	with emerging issues in global scene.								3	1		1	1
C401.4	Know the various compliance												
	requirements and the regulatory												
	bodies to protect environment.								3	1		1	1
C401.5	Have a fair idea to protect their												
	engineering inventions from												
	unauthorized exploitation under												
	intellectual property rights system												
	and laws relating to information												
	communication technologies						1		3	1		1	1
C401.6	Understand, analyse and prevent												
	misuse of IT related transactions.						1		3	1		1	1
	Average						1		3	1		1	1

1. Course Name: C203

Course	PSO1	PSO2	PSO3
C203.1	-	3	-

C203.2	-	3	-
C203.3	-	3	-
C203.4	-	3	-
C203.5	-	3	-
C203.6	-	3	-
Average	-	3	-

2. Course Name: C214

Course	PSO1	PSO2	PSO3
C214.1	-	-	-
C214.2	-	-	-
C214.3	-	-	-
C214.4	-	-	-
C214.5	-	-	-
C214.6	-	-	-
Average	-	-	-

3. Course Name: C301

Course	PSO1	PSO2	PSO3
C301.1	-	-	-
C301.2	-	-	-
C301.3	-	-	-
C301.4	-	-	-
C301.5	-	-	-
C301.6	-	-	-
Average	-	-	-

4. Course Name: C303

Course	PSO1	PSO2	PSO3
C303.1	-	-	3
C303.2	-	-	3
C303.3	-	-	3
C303.4	-	-	3
C303.5	-	-	3
C303.6	-	-	3
Average	-	-	3

5. Course Name: C311

71

Course	PSO1	PSO2	PSO3
C311.1	-	-	-
C311.2	-	-	-
C311.3	-	-	-
C311.4	-	-	-
C311.5	-	-	-
C311.6	-	-	-
Average	-	-	-

5. Course Name: C401

Course	PSO1	PSO2	PSO3
C401.1	-	-	-
C401.2	-	-	-
C401.3	-	-	-
C401.4	-	-	-
C401.5	-	-	-
C401.6	-	-	-
Average	-	-	-

Program Articulation Matrix

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	2.67	2.50	3.00	2.67	1.50	1.60	2.00		1.00			2.00
C102	2.33	2.33	3.00	1.75		1.50	1.50		0.83			1.00
C103							3.00	2.25		3.00	1.00	2.00
C104	2.00	0.00	0.00	1.00	0.00	1.00	3.00	1.00	0.00	0.00	0.00	3.00
C105	2.20	2.33		2.50	1.00		1.00					
C106	2.67	2.83	2.67	2.17	2.25			1.00		1.67		1.67
C107						1.00				3.00		2.00
C108	1.50	1.75			2.67	1.00					1.75	2.83
C109	3.00	3.00	1.00	3.00								2.67
C110	2.40	1.33	1.00	1.00								1.00
C111	2.00	2.00	2.17	1.83		1.50	1.67					1.40
C112	3.00	2.00	1.00	1.00								2.33
C113	2.20	1.67	2.00									1.40
C114	2.60	3.00	2.40	1.83	2.25	1.75	1.60	1.00	3.00	1.00		1.25
C115	1.50	1.33	1.40	1.80	1.50	1.33	1.50	1.50	2.33	1.00	1.50	1.33
C116	1.00	1.00	2.00	3.00	2.00	2.00	3.00	3.00	3.00	2.00	2.20	2.00
C201	3.00	3.00					1.00					

C202	3.00	3.00	1.00									
C203	3.00	5.00	2.00			2.00	3.00	1.00		1.00	2.00	2.00
C204	3.00	1.00	1.00							2.00	2.00	1.00
C205	1.00		1.00			1.00	1.83				1.00	
C207	3.00	3.00	2.00	3.00	3.00	2.00	3.00	3.00	1.00	2.00	2.00	2.00
C208	3.00	3.00		3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00
C209	3.00	2.00	2.00	3.00	3.00		2.00	3.00	1.00	2.00	3.00	2.00
C210							1.00		3.00	2.00	1.00	3.00
C211	3.00	3.00	1.80	3.00					2.00			2.67
C212	3.00	3.00										
C213	3.00	3.00					1.00					
C214	3.00	3.00	2.00				1.00					
C215	3.00		2.00			2.00	3.00	1.00		1.00	2.00	2.00
C216	3.00	2.00				1.00	1.00				3.00	
C217	3.00	3.00		3.00	1.00				2.00	2.00		
C218	3.00	3.00		3.00	3.00				2.00	2.00		
C219	3.00	3.00										
C220	3.00	3.00	3.00				2.00	1.00	2.00	2.00		1.00
C301	3.00	3.00	3.00				1.00	3.00		2.00	1.00	2.00
C302	2.17	2.17	2.67				3.00	1.00		1.00	2.00	1.00
C303	3.00	2.17	2.17				2.00					
C304	3.00	3.00	2.83			1.00	1.00					1.00
C307	3.00	2.00		3.00	3.00				2.00	2.00		
C308	3.00	3.00	3.00		3.00		2.00	2.00	1.00	2.00	2.00	1.00
C309	3.00	3.00	3.00		2.00		1.00	1.00	1.00	2.00	2.00	1.00
C310	3.00	3.00	3.00				2.00	2.00	1.00	2.17	2.00	
C311	3.00	3.00	3.00							2.00		
C312	2.17	2.17	2.67				3.00	1.00		1.00	2.00	1.00
C317	3.00	3.00	3.00	3.00	3.00		1.00	2.00	1.00	2.00	2.00	1.00
C318	3.00	2.00	1.00		2.00	2.00	2.00	3.00	2.00	2.00	3.00	1.00
C319	2.00		2.00		3.00	1.00		1.00		2.00		
C320	3.00	3.00	3.00		3.00			3.00	2.00	2.00	2.00	1.00
C321	1.00	3.00	3.00	3.00	3.00					3.00	3.00	3.00
C401						1.00		3.00	1.00		1.00	1.00
C403	2.67	2.00	2.60	3.00	2.50	1.60	1.67	1.80	3.00	1.50	2.00	3.00
C404	1.83	1.50	1.67	1.67	1.67	3.00	2.50	2.50	2.83	3.00	2.00	3.00
C405	3.00	3.00	1.80	3.00					2.00			2.67
C407	3.00	2.67	2.00	2.60	3.00	2.50	1.60	1.67	1.80	3.00	1.50	2.00

Course Code	PSO1	PSO2	PSO3
C101		2.25	
C102		1.33	

C103			
C104			
C105			
C106	1.75	1.00	
C107			
C108	1.00	1.00	1.00
C109			
C110			
C111	1.50	2.50	1.40
C112		2.17	1.00
C113			
C114	1.83	1.33	1.75
C115	2.50	1.17	1.00
C116	2.00	2.00	3.00
C201			2.00
C202			
C203		3.00	
C204			
C205	2.83	1.00	
C207		3.00	
C208	2.00	2.00	2.00
C209	3.00		
C210			
C211			
C212			
C213			3.00
C214			
C215		3.00	
C216			
C217			
C218			3.00
C219			
C220		1.00	3.00
C301			
C302			
C303			3.00
C304			
C307		2.00	2.00
C308			
C309	2.00		
C310			3.00
C311			
C312	2.00	2.00	

C317	2.00		
C318	2.00	2.00	2.00
C319	1.00	1.00	1.00
C320	2.00		
C321	3.00	3.00	2.00
C401			
C403	3.00	3.00	2.00
C404	3.00	3.00	3.00
C405			
C407	3	3	2

3.2 Attainment of Course Outcomes (75)

3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Describe different assessment tools (semester end examinations, mid-semester tests, laboratory examinations, student portfolios etc) to measure the student learning and hence attainment of course outcomes. (Student portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period.) The process adopted to map the assessment questions, parameters of assessment rubrics etc. to the course outcomes to be explained with examples. The process of data collection from different assessment tools and the analysis of collected data to arrive at CO attainment levels need to be explained with examples

All the courses offered in the program curriculum are broadly classified into 4 categories with their individual assessment methods:

- Theory courses
- Practical courses
- Sessional courses
- Project.

The performance of student in each semester is assessed for a maximum of 100 marks for theory, practical and sessional/project components. These different categories of courses have different assessment schemes as discussed in the table below

Course category:	Assessment Methods:	Evaluator		
Theory courses	• Continuous assessment of 30 marks:	 Continuous 		

	T		ı	
(assessed out of	0	\mathcal{E}		assessment is done
100 marks)		performance in different		by the concerned
		assignments/tests/tasks/learning		faculty member for
		activities given by the course faculty-		the course teaching
		member. The tasks are designed to		the student.
		address all the course outcomes		
		almost uniformly. These tasks are		
		given at different times in the		
		semester.		
	• Mid	semester examination/assessment of		
		arks (questions corresponding to		
		nment of different COs):		
	0			
		performance in the mid-semester	•	Answer script for
		examination which is conducted once		mid semester
		in a semester which is currently of		examination is
		one hour duration. As the name		evaluated by the
		implies, this examination is conducted		designated faculty
		in the middle of the semester.		member and marks
	0	* *		passed on to the
	0			examination cell
		attainments of certain course		for further
		outcomes defined for the course,		compilation.
		through the students' marks or scores.		
		semester examination/assessment of		
		arks (questions correspond to		
	attai	nment of different COs):		
	0	\mathcal{E}		
		performance in the end-semester		
		examination which is conducted at the		
		end of every semester. This		
		examination is currently of two hours	•	Answer script for
		duration.		end semester
	0	Frequency: once in a semester.		examination is
	0			evaluated by the
		attainments of course outcomes		designated faculty
		defined for the course through the		member and marks
		students' marks or scores.		passed on to the
				examination cell
				for further
				compilation.
				Compilation.
Practical courses	• Conf	inuous assessment of 60 marks		
(assessed out of	Cont		•	Continuous
100 marks)		performance in day to day laboratory		assessment is done
100 marks)		activities where the student's		by the concerned
	<u> </u>	activities where the student s		by the concerned

Sessional courses	involvement, conduct of the experiment, recording of observations and analysis/ design outputs, documentation of results and observations, clarity of concept is taken into account by the designated laboratory faculty member. All the laboratory tasks are designed to assess the attainments of different course outcomes defined for the course through students' marks or scores. End semester examination/ assessment of 40 marks Assessment is done through conduct of a given experiments tasks, viva, etc. This is normally conducted at the end of the semester and is normally of three hour duration. Frequency: once in a semester. The tasks, questionnaires are mapped to course outcomes and the students' marks or score is used to compute the attainment.	 faculty member for the laboratory course teaching the student. End semester examinations, tasks, viva are conducted by the concerned faculty member. Marks from continuous assessment and performance in the end semester examination are passed onto the examination cell for further compilation.
(assessed out of 100 marks)	 Continuous assessment of 100 marks: Assessment is done through student's performance in different assignments/tests/tasks/learning activities given by the course faculty-member. The tasks are designed to address all the course outcomes almost uniformly. Frequency: Assessed throughout the semester. Different tasks are mapped to 	• Continuous assessment is done by the concerned faculty member for the sessional course teaching the student and marks passed onto the examination cell for further

different outcomes and the students' marks or score in that category is used to compute the attainment	processing.
Projects (assessed out of 100 marks) • The project evaluation process is indicated below and includes consideration of factors related to contribution both as a group and as an individual in the process. Markings are based on: a. Model or prototype/product development or software application (10 marks by panel and 10 marks by the Project guide/supervisor). b. Modern tools, software and their usage (10 marks by panel). c. Quality of project and innovation (10 marks by panel). d. Presentation given by the student illustrating individual contribution (10 marks by panel). e. Performance of the student in the viva (10 marks by panel) f. Project report (20 marks) g. Individual contribution report (10 marks by guide). h. Performance of the student as a member of the group (10 marks by guide). The panel reviewing the project work are external members are noted by the project guides for future reference.	Evaluators are already mentioned. The logistics for undergraduate programs are looked after by a Project Monitoring Committee (PMC). Marks from different assessment components are compiled by the PMC are passed on to the examination cell.

Every course has a defined set of course outcome statements which describes the abilities a student will develop after successfully completing the course. The assessment methods are used to evaluate the attainment of the course outcomes on a scale of 0-3 lead to the direct attainment

of program outcomes. The attainments of course outcomes are measured from marks obtained by the students in different examinations, course related assessments (different assessment and examination questions are framed to test the attainment of different course outcomes for a course).

Class average is the average percentage of marks secured by all the students in a assessment component in a specific CO

Targets are quantized into three different levels (Level 1, Level 2 and Level 3) based on Class average in each CO as per the rubrics given below.

Attainment levels and threshold levels of course outcomes

Threshold Levels for CO Attainment						
Level	0	0	≤ Class Average in each CO <	Threshold 1		
Level	1	Threshold 1	≤ Class Average in each CO <	Threshold 2		
Level	2	Threshold 2	≤ Class Average in each CO <	Threshold 3		
Level	3	Threshold 3	≤ Class Average in each CO <	100		

Thresholds 1, 2, and 3 are normally set at 25%, 50% and 75% respectively. However, if the course coordinator and course committee involved in ascertaining the attainment levels can raise the thresholds if required.

Data Acquisition Process:

- All the questions of mid semester and end semesters are mapped with course outcomes during the preparation of question paper.
- All the activities/assignments/quiz/ experiments are mapped with course outcomes by the course coordinator.
- Exam papers are assessed and marks of obtained by all the students are saved in ediquity software which is shared with the course coordinator for further CO attainment analysis.
- During Covid 19, marks obtained by all the students are saved in Moodle which is shared with the course coordinator for further CO attainment analysis.
- Final computation of course outcome is done through spreadsheets and also through SAP.

CO attainment information will be compiled by the course coordinators and information passed on to the School Quality Assurance Cell and Program Assessment Committee for subsequent decisions and actions. The calculation for attainments is performed after declaration of end semester examination results. All documentations related to attainments are maintained by the course coordinators.

Course outcome attainment for each type of courses are discussed below.

Attainment of course outcomes for theory courses:

The course outcomes attainment is assessed based on students' performance in cumulative internal examination (which included continuous assessment and mid sem) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course Category	Assessment Tools	Marks	Category	Weightage
	Continuous Evaluation	30	Cumulative Internal	50
	Mid-Semester	20	Examination (CIE)	
Theory Course	Examination	20	Examination (CIL)	
	End Semester	50	Semester End Examination	50
	Examination	30	(SEE)	50

The students' marks in different questions are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

	Continuous	Evaluation	Mid Semester		Cumulative Internal Examination		Examination
			Examination				
	Total marks	Total	Total marks	Total	Total marks	Total	Class Average
	obtained by	marks	obtained by	marks	obtained by	marks	
Course	all the	allotted	all the	allotted to	all the	allotted to	
Outcom	student	questions	student	questions	student	questions	
es	correspondi	mapped to	correspondi	mapped	correspondi	mapped	
	ng to each	each CO	ng to each	each CO	ng to each	each CO	
	CO	(consideri	CO	(consideri	CO	(consideri	
		ng all the		ng all the		ng all the	
		students)		students)		students)	
COx	Χ'	X	Y'	Y	X'+Y'	X+Y	X'+Y'/(X+Y)
							x100

Semester End Examination: Class average corresponding to each CO is assessed as below.

	Semester End Examination n				
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to questions mapped each CO (considering all	Class Average		
		the students)			
COx	Z'	Z	Z'/Z x 100		

Targets are quantized into three different levels (Level 1, Level 2 and Level 3) based on Class Average in each CO as per the rubrics given below. The course outcome attainment is assessed

based the set target levels as given below.

Table: 1. Attainment levels and targets of various course outcomes

	Thresholds Levels for CO Attainment				
Level	0	0	≤ Class Average in each CO <	25	
Level	1	25	≤ Class Average in each CO <	50	
Level	2	50	≤ Class Average in each CO <	75	
Level	3	75	≤ Class Average in each CO <	100	

The CO attainment is assessed separately for CIE and SEE. The final CO attainment is measured based the weighted average of CIE (C) and SEE (S). For the theory course, the weightage of CIE and SEE is 50 % and 50%.

Final Attainment level=

Weightage in CIE (=0.5) * CO Attainment in Cumulative Internal Exam (CIE) + Weightage in CIE (=0.5) * CO Attainment in Semester End Exam (SEE)

Attainment of course outcomes for Practical courses:

The course outcome attainment is assessed based on the students' performance in cumulative internal examination (which included continuous assessment through experimental activities/tasks) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course Category	Assessment Tools		Marks	Category	Weightage
Practical Course	Continuous (Experimental tasks)	Evaluation activities/	100	Cumulative Internal Examination (CIE)	100

The experimental activities and tasks are mapped to differentThe experimental activities and tasks are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

	Cumul	ative Internal Examination	
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to questions mapped each CO (considering all the students)	Class Average
COx	X'	X	X'/X x100

Semester End Examination: Class average corresponding to each CO is assessed as below.

	Semeste	r End Internal Examination	
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to questions mapped each CO (considering all the students)	Class Average
COx	Z'	Z	Z'/Z x 100

The course outcome attainment is assessed based on the set target levels as given below.

Thresholds Levels for CO Attainment				
Level	0	0	≤ Class Average in each CO <	25
Level	1	25	Section 2	50
Level	2	50	≤ Class Average in each CO <	75
Level	3	75	≤ Class Average in each CO <	100

The CO attainment is assessed separately for CIE and SEE. The final CO attainment is measured based the weighted average of CIE (C) and SEE (S). For the practical theory course, the weightage of CIE and SEE is 60 % and 40%.

Final Attainment level= Weightage in CIE (=0.6) * CO Attainment in CIE + Weightage in CIE (=0.4) * CO Attainment in SEE

Attainment of course outcomes for Sessional courses:

The course outcome attainment is assessed based on the students' performance in cumulative internal examination (which included continuous assessment through different activities like design, development, analysis or any other tasks) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course Category Assessment Tools	Marks Category	Weightage
-------------------------------------	----------------	-----------

Practical	Continuous Evaluation (Experimental activities/tasks)	60	Cumulative Internal Examination (CIE)	60	
Course	End Semester Examination	40	Semester End Examination (SEE)	40	

The experimental activities and tasks are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

C	Cumul	ative Internal Examination	
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average
COx	X'	X	X'/X x100

Semester End Internal Examination: Class average corresponding to each CO is assessed as below.

Course	Semes	ter Internal Examination	
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average
COx	Z'	Z	Z'/Z x 100

The course outcome attainment is assessed based on the set target levels as given below.

	Threshold Levels for CO Attainment							
Level	0	0	≤ Class Average in each CO <	25				
Level	1	25	≤ Class Average in each CO <	50				
Level	2	50	≤ Class Average in each CO <	75				
Level	3	75	≤ Class Average in each CO <	100				

The CO attainment is assessed separately for CIE and SEE. The final CO attainment is measured based the weighted average of CIE (C) and SEE (S). For the practical course, the weightage of CIE and SEE is 60 % and 40%.

Final Attainment level= Weightage in CIE (=0.6) * CO Attainment in CIE + Weightage in

CIE (=0.4) * CO Attainment in SEE

EXAMPLE OF COURSE OUTCOME ATTAINMENT OF A THEORY COURSE : Civil Engineering Materials & Construction

Course Outcomes of Civil Engineering Materials & Construction

At the end of the course, the students will be able to:

- CO1. Understand the properties of stones and bricks
- CO2. Learn different properties of cement and concrete
- CO3. Acquire knowledge on properties of timber
- CO4. Learn about different types of foundations
- CO5. Identify different types of masonries
- CO6. Select different types of doors, windows and floors for construction

Table 1: Course Outcomes and Activities Mapping of Continuous Assessment

Activity No	CO1	CO2	CO3	CO4	CO5	CO6
1	$\sqrt{}$					
2		\checkmark				
3			\checkmark			
4				\checkmark		
5						
6						

Table 2: Mark Calculation of Continuous Evaluation

	CO A	TTAINM	ENT CA	LCULA	TION	OF CO	NTINO	US EV	ALUATION	
Program	Branch	Batch	Academic Year		Semester		Course Code		Course Name	
Btech	Civil Engg.	2018-22	2019	2019-20 3rd CI		CE 2109		Civil Engineering Materials & Construction		
Activ	vity	Full marks	CO1	CO2	CO3	CO4	CO5	CO6	Students appearing in the examination/attempting the question	Added Marks of all students for the question
Activ	ity 1	5	5						196	765
Activ	ity 2	5		5					196	700
Activ	ity 3	5			5				196	743

Activity 4	5		5			196	763
Activity 5	5			5		196	740
Activity 6	5				5	196	718

CO Number	Total marks allotted corresponding to each	Total marks secured corresponding to each					
	CO	СО					
CO1	980	765					
CO2	980	700					
CO3	980	743					
CO4	980	763					
CO5	980	740					
CO6	980	718					

Table 3: Mark Calculation of Mid Semester Evaluation

	CO ATTAINMENT CALCULATION OF MID SEMESTER EXAMINATION									
Program	Branch	Batch	Academic Year S		Sem	ester	Course Code		Course Name	
BTech	Civil Engg.	2018-22	2019	9-20	31	rd	CE	2109	Civil Enginee Materials o Construction	&
Question No	Sub Question No	Full marks	CO1	CO2	CO3	CO4	CO5	CO6	Students appearing in the examination/attempting the question	Added Marks of all students for the question
Q1	1a	1	1						182	162
	1b	1		1					189	157
	1c	1		1					194	161
	1d	1	1						191	164
	1e	1	1						188	161
Q2	2	5	5						150	612
Q3	3	5		5					151	582
Q4	4	5	5						151	584
	5a	2.5		2.5					87	341
Q7	5b	2.5	2.5						58	226
	5c	2.5	2.5						63	196

CO Number	Total marks allotted corresponding to specific CO	Total marks secured to specific CO	Class Average (%)
CO1	2368.5	2105	88.87

CO2	1355.5	1241	91.55
CO3	0	0	#DIV/0!
CO4	0	0	#DIV/0!
CO5	0	0	#DIV/0!
CO6	0	0	#DIV/0!

Table 4: Calculation of Class average in Cumulative Internal Examination (CIE)

CO AT	CO ATTAINMENT CALCULATION OF CUMULATIVE INTERNAL EXAMINATION									
Programme	Branch	Batch	Academic Year	Semester	Course Code	Course	e Name			
BTech	Civil Engg.	2018-22	2019-20	019-20 3rd		Civil Engineering Materials & Construction		Materials &		
	Continuous	Evaluation	Mid Ser		Cumulative Internal Examination					
Course			Examin	ation						
Outcomes	Total marks allotted corresponding to each CO	Total marks secured corresponding to each CO	Total marks allotted corresponding to each CO	Total marks secured corresponding to each CO	Total marks allotted corresponding to each CO	Total marks secured corresponding to each CO	Class Average			
CO1	980	765	2368.5	2105	3348.5	2870	85.71			
CO2	980	700	1355.5	1241	2335.5	1941	83.11			
CO3	980	743	0	0	980	743	75.82			
CO4	980	763	0	0	980	763	77.86			
CO5	980	740	0	0	980	740	75.51			
CO6	980	718	0	0	980	718	73.27			

Table 4: Calculation of Class average in Semester End Examination (SEE)

CO ATTAINMENT CALCULATION (SEE)

Programm e	Branch	Batch		lemic ear	Sem	ester		ırse ode	Course Nam	ne
BTech	Civil Engg.	2018- 2022	2019	-2020	31	rd	CE2	2109	Civil Engineer Materials & Construction	& Ö
Question No	Sub Questio n No	Full marks	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	Students appearing in the examination/attemptin g the question	Added Marks of all students for the questio n
Q1	1a	1	1						158	117
	1b	1	1						155	119
	1c	1		1					154	118
	1d	1		1					154	118

1	ı	i								
	1e	1			1				164	127
	1f	1				1			157	124
	1g	1					1		167	121
	1h	1						1	164	124
	1i	1						1	166	125
	1j	1						1	154	118
02	2a	4	4						116	348
Q2	2b	4	4						116	328
02	3a	4	4						131	414
Q3	3b	4		4					131	381
0.4	4a	4			4				112	323
Q4	4b	4		4					112	351
0.5	5a	4	4						121	346
Q5	5b	4		4					121	375
06	6a	4				4			122	367
Q6	6b	4				4			122	338
07	7a	4		4					107	336
Q7	7b	4				4			107	309
00	8a	4		4					124	324
Q8	8b	4					4		124	370

CO No.	Total marks allotted corresponding to specific CO	Total marks secured to specific CO	Class Average (%)
CO1	2249	1672	74.34
CO2	2688	2003	74.52
CO3	612	450	73.53
CO4	1561	1138	72.90
CO5	663	491	74.06
CO6	484	367	75.83

Table 6. Final Co Attainment

	CO Attainment Calculation											
Programme	Branch	Batch	Acade	eemic Year	Semster							
Btech	Civil Engg.	2018-22	2	3rd								
Course Code	CE2109	Course Name	Civil Eng	& Construction								
		Target Levels	for CO Attainn	nent								
Level	1	20	≥ Clas	ss Average <	50							
Level	2	50	≥ Clas	ss Average <	75							
Level	3	75	≥ Clas	≥ Class Average <								
		CO A	Attainment									
	Cumulative 1	Internal Examination (CIE)	Semester E	Total CO								
Course Outcomes	Weightage	50%	Weightage	50%	Attainment							
Outcomes	Class Average	CO Attainment Level	Class Average	CO Attainment Level	Attamment							
CO1	85.71	3	74.34	2	2.5							
CO2	83.11	3	74.52	2	2.5							
CO3	75.82	3	73.53	2.5								
CO4	77.86	3	72.90	2.5								
CO5	75.51	3	74.06	2.5								
CO6	73.27	2	75.83	3	2.5							

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)

The target or the expected attainment for the course:

• Achieve attainment level of **2.5** for all course outcomes defined for the course.

The attainment of course outcome in cumulative internal examination and semester end examination is given below

CO Attainment in Cumulative Internal Examination (CIE)

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
C101	Mathematics-I	3	3	3	3	3	2
C102	Chemistry	3	2	3	3	3	2
C103	Professional Communication	3	3	3	3	3	3
C104	Biology	3	3	3	3	3	3

		1	1	1	1	1	1
C105	Chemistry Lab	3	3	3	3	3	3
C106	Computer Programming	3	3	3	2	3	2
C107	Language Lab	3	3	3	3	3	3
C108	Engineering Graphics	3	3	3	3	3	3
C109	Mathematics-II	3	3	3	3	2	2
C110	Physics	3	3	3	3	3	3
C111	Basic Electrical Engineering	3	3	3	3	3	2
C112	Engineering Mechanics	3	3	2	3	2	3
C113	Physics Lab	3	3	3	3	3	3
C114	Basic Electrical Engineering Lab	3	3	3	3	3	3
C115	Basic Manufacturing Systems	3	3	3	3	3	3
C116	Environmental Science	3	3	3	3	3	3
C201	Fluid Mechanics	3	3	3	3	3	2
C202	Mechanics of Material	3	3	3	3	2	2
C203	Environmental Engineering-I	3	3	3	3	3	3
C204	Surveying & Geomatics	3	3	3	3	2	3
C205	Civil Engineering Materials & Construction	3	3	3	3	3	2
C207	Environmental Engg. Lab.	3	3	3	3	3	3
C208	Surveying Field Work	3	3	3	3	3	3
C209	Material Testing Lab.	3	3	3	3	3	3
C210	Business Communication	3	3	3	3	3	3
C211	Mathematics –III	3	2	2	3	3	3
C212	Structural Analysis	3	3	3	3	3	3
C213	Surface Hydrology & Hydraulics	3	2	3	3	2	3
C214	Geotechnical Engineering-I	3	3	3	3	3	3
C215	Environmental Engineering-II	3	3	3	3	3	3
C216	Construction Planning & Management	3	3	3	2	2	3
C217	Geotechnical Engineering Lab.	3	3	3	3	3	3
C218	Fluid Mechanics Lab.	3	3	3	3	3	3
C219	Structural Analysis Applications	3	3	2	3	3	3
C220	Hydraulics & Hydrologic Design	3	3	2	2	3	3
C301	Design of Concrete Structures	3	3	3	3	3	3
C302	Transportation Engineering-I	3	3	3	3	3	3
C303	Water Resources Engineering	3	3	3	3	3	2
C304	Geotechnical Engineering-II	3	3	3	3	3	3
C307	Transportation Engg. Laboratory	3	3	3	3	3	3
C308	Structural Design (RCC)	3	2	2	2	2	2
C309	Geotechnical Design	3	3	3	3	3	3
C310	Water Resources Design	2	2	2	3	3	3
C311	Design of Steel Structures	3	3	2	3	3	2
C312	Transportation Engineering-II	3	3	3	3	3	3
		3	3	3	3	3	3
C317	Structural Engg. Lab.	3)	3	3	3	3

C319	Computer Aided Building Drawing	3	3	3	3	3	3
C320	Structural Design (Steel)	3	3	3	3	3	3
C321	Minor Project	3	3	3	3	3	3
C401	Professional Practice, Law & Ethics	3	3	3	3	3	3
C403	Project-I / Internship	3	3	3	3	3	3
C404	Practical Training	3	3	3	3	3	3
C405	Inferential Statistics	3	3	3	3	2	2
C407	Project/Internship	3	3	3	3	3	3

CO Attainment in Semester End Examination (SEE)

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
C101	Mathematics-I	3	3	2	2	2	3
C102	Chemistry	3	3	3	2	3	2
C103	Professional Communication	3	3	3	3	3	3
C104	Biology	3	2	3	2	3	2
C105	Chemistry Lab	3	3	3	3	3	3
C106	Computer Programming	3	3	3	2	2	2
C108	Engineering Graphics	3	3	2	2	3	2
C109	Mathematics-II	3	2	2	2	3	3
C110	Physics	3	3	3	2	2	3
C111	Basic Electrical Engineering	3	3	2	2	3	2
C112	Engineering Mechanics	3	2	3	3	3	3
C113	Physics Lab	3	3	2	3	3	3
C114	Basic Electrical Engineering Lab	3	3	3	3	3	3
C115	Basic Manufacturing Systems	3	3	3	3	2	3
C116	Environmental Science	3	3	2	3	3	3
C201	Fluid Mechanics	3	3	2	3	2	2
C202	Mechanics of Material	3	3	2	2	2	2
C203	Environmental Engineering-I	3	2	2	3	3	3
C204	Surveying & Geomatics	3	3	3	2	3	3
C205	Civil Engineering Materials & Construction	2	2	2	2	2	3
C207	Environmental Engg. Lab.	3	3	3	3	3	3
C208	Surveying Field Work	3	3	3	3	2	3
C209	Material Testing Lab.	2	3	2	2	3	2
C210	Business Communication	3	3	3	3	3	3
C211	Mathematics –III	3	3	3	2	2	2
C212	Structural Analysis	2	2	2	2	2	2
C213	Surface Hydrology & Hydraulics	3	2	3	2	2	2
C214	Geotechnical Engineering-I	3	3	2	2	3	2
C215	Environmental Engineering-II	3	3	3	3	2	3

C216	Construction Planning & Management	3	3	2	3	3	3
C217	Geotechnical Engineering Lab.	3	3	3	2	2	2
C218	Fluid Mechanics Lab.	3	3	3	3	2	3
C219	Structural Analysis Applications	3	3	3	3	2	2
C220	Hydraulics & Hydrologic Design	3	2	3	3	2	3
C301	Design of Concrete Structures	2	3	3	2	3	2
C302	Transportation Engineering-I	2	2	2	2	2	2
C303	Water Resources Engineering	3	2	2	2	2	2
C304	Geotechnical Engineering-II	3	3	2	2	3	2
C307	Transportation Engg. Laboratory	2	2	2	2	2	2
C308	Structural Design (RCC)	3	3	3	3	2	3
C309	Geotechnical Design	3	3	3	2	3	2
C310	Water Resources Design	3	2	3	2	2	3
C311	Design of Steel Structures	3	2	2	2	2	2
C312	Transportation Engineering-II	3	3	3	2	3	2
C317	Structural Engg. Lab.	3	3	3	3	3	3
C318	Estimating & Costing	3	3	3	3	3	3
C319	Computer Aided Building Drawing	3	3	3	3	3	3
C320	Structural Design (Steel)	3	2	3	3	2	3
C401	Professional Practice, Law & Ethics	3	3	3	3	3	3
C405	Inferential Statistics	3	2	2	2	2	2

Final CO Attainment of all the core courses

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Target	Remarks
C101	Mathematics-I	3	3	2.5	2.5	2.5	2.5	2.5	Achieved
C102	Chemistry	3	2.5	3	2.5	3	2	2.5	CO6 target not achieved
C103	Professional Communication	3	3	3	3	3	3	2.5	Achieved
C104	Biology	3	2.5	3	2.5	3	2.5	2.5	Achieved
C105	Chemistry Lab	3	3	3	3	3	3	2.5	Achieved
C106	Computer Programming	3	3	3	2	2.5	2	2.5	CO4 and CO6 target not achieved
C107	Language Lab	3	3	3	3	3	3	2.5	Achieved
C108	Engineering Graphics	3	3	2.5	2.5	3	2.5	2.5	Achieved
C109	Mathematics-II	3	2.5	2.5	2.5	2.5	2.5	2.5	Achieved
C110	Physics	3	3	3	2.5	2.5	3	2.5	Achieved
C111	Basic Electrical Engineering	3	3	2.5	2.5	3	2	2.5	CO6 target not achieved
C112	Engineering Mechanics	3	2.5	2.5	3	2.5	3	2.5	Achieved
C113	Physics Lab	3	3	2.6	3	3	3	2.5	Achieved

C114	Basic Electrical Engineering Lab	3	3	3	3	3	3	2.5	Achieved
C115	Basic Manufacturing Systems	3	3	3	3	2.5	3	2.5	Achieved
C116	Environmental Science	3	3	2.5	3	3	3	2.5	Achieved
C201	Fluid Mechanics	3	3	2.5	3	2.5	2	2.5	CO6 target not achieved
C202	Mechanics of Material	3	3	2.5	2.5	2	2	2.5	CO5 and CO6 target not achieved
C203	Environmental Engineering-I	3	2.5	2.5	3	3	3	2.5	Achieved
C204	Surveying & Geomatics	3	3	3	2.5	2.5	3	2.5	Achieved
C205	Civil Engineering Materials & Construction	2.5	2.5	2.5	2.5	2.5	2.5	2.5	Achieved
C207	Environmental Engg. Lab.	3	3	3	3	3	3	2.5	Achieved
C208	Surveying Field Work	3	3	3	3	2.6	3	2.5	Achieved
C209	Material Testing Lab.	2.6	3	2.6	2.6	3	2.6	2.5	Achieved
C210	Business Communication	3	3	3	3	3	3	2.5	Achieved
C211	Mathematics –III	3	2.5	2.5	2.5	2.5	2.5	2.5	Achieved
C212	Structural Analysis	2.5	2.5	2.5	2.5	2.5	2.5	2.5	Achieved
C213	Surface Hydrology & Hydraulics	3	2	3	2.5	2	2.5	2.5	CO2 and CO5 target not achieved
C214	Geotechnical Engineering-I	3	3	2.5	2.5	3	2.5	2.5	Achieved
C215	Environmental Engineering-II	3	3	3	3	2.5	3	2.5	Achieved
C216	Construction Planning & Management	3	3	2.5	2.5	2.5	3	2.5	Achieved
C217	Geotechnical Engineering Lab.	3	3	3	2.6	2.6	2.6	2.5	Achieved
C218	Fluid Mechanics Lab.	3	3	3	3	2.6	3	2.5	Achieved
C219	Structural Analysis Applications	3	3	2.5	3	2.5	2.5	2.5	Achieved
C220	Hydraulics & Hydrologic Design	3	2.5	2.5	2.5	2.5	3	2.5	Achieved
C301	Design of Concrete Structures	2.5	3	3	2.5	3	2.5	2.5	Achieved
C302	Transportation Engineering-I	2.5	2.5	2.5	2.5	2.5	2.5	2.5	Achieved
C303	Water Resources	3	2.5	2.5	2.5	2.5	2	2.5	CO6 target not achieved

	Engineering								
C304	Geotechnical Engineering-II	3	3	2.5	2.5	3	2.5	2.5	
C307	Transportation Engg. Laboratory	2.6	2.6	2.6	2.6	2.6	2.6	2.5	Achieved
C308	Structural Design (RCC)	3	2.5	2.5	2.5	2	2.5	2.5	CO5 target not achieved
C309	Geotechnical Design	3	3	3	2.5	3	2.5	2.5	
C310	Water Resources Design	2.5	2	2.5	2.5	2.5	3	2.5	CO2 target not achieved
C311	Design of Steel Structures	3	2.5	2	2.5	2.5	2	2.5	CO3and CO6 target not achieved
C312	Transportation Engineering-II	3	3	3	2.5	3	2.5	2.5	Achieved
C317	Structural Engg. Lab.	3	3	3	3	3	3	2.5	Achieved
C318	Estimating & Costing	3	3	3	3	3	3	2.5	Achieved
C319	Computer Aided Building Drawing	3	3	3	3	3	3	2.5	Achieved
C320	Structural Design (Steel)	3	2.5	3	3	2.5	3	2.5	Achieved
C321	Minor Project	3	3	3	3	3	3	2.5	Achieved
C401	Professional Practice, Law & Ethics	3	3	3	3	3	3	2.5	Achieved
C403	Project-I / Internship	3	3	3	3	3	3	2.5	Achieved
C404	Practical Training	3	3	3	3	3	3	2.5	Achieved
C405	Inferential Statistics	3	2.5	2.5	2.5	2	2	2.5	CO5 and CO6 target not achieved
C407	Project/Internshi	3	3	3	3	3	3	2.5	Achieved

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

B. Attainment of Program Outcomes

The Program outcome assessment tools are categorized into direct and indirect method of outcome assessment. The program regularly uses a documented processes for assessing and evaluating the extent to which the student outcomes are being attained.

Direct Program outcome attainment is evaluated through the course outcome attainment or specified rubrics. Indirect PO attainment is evaluated through based on questionnaire survey of various stake holders such as Graduates, Alumni and Employers. The details of frequency of collection and responsible authorities are given below.

Type of	Weightage	Assessment tools	Assessment	Data Collection	Responsible entity
Assessment			Criteria	frequency	
Direct Assessment	80	Internal examination and External Examination	CO attainment	Once every semester	Course coordinator & School quality Cell
Indirect Assessment	20	Graduate survey, Alumni Survey and Employer Survey		Once in a year	Quality Cell & Program Assessment Committee

The process of direct and indirect PO attainment is described below.

B.1. Direct assessment and evaluation of Program Outcomes and Program Specific Outcomes

The direct PO_x -attainment level = weighted average of course outcome attainment levels for course outcomes spanning all possible courses linked to PO_x according to Program and course articulation matrix.

x-represents the PO/PSO number.

The formula for calculating the PO attainment considering the relevant courses and their outcomes is given below:

$$PO_{x} = \frac{\sum_{i=1}^{N} CO_{i}M_{i}}{\sum_{i=1}^{N} M_{i}}$$

'i' represents the ith CO in the PO-CO articulation matrix. CO_i is the CO Attainment level for that CO and M_i represents the mapping level (1, 2, or 3) between PO_x and CO_i .

The direct PO attainment is estimated by the School Quality Assurance Cell and intimated to the Program Assessment committee after the declaration of even semester results for an academic year.

EXAMPLE: DIRECT PO ATTAINMENT OF CIVIL ENGINEERING MATERIALS & CONSTRUCTION

Course Outcome and Program Outcome mapping of Civil Engineering Materials & Construction

CO Number	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	0	1	0	0	1	2	0	0	0	1	0
CO2	1	0	1	0	0	1	2	0	0	0	1	0
CO3	1	0	1	0	0	1	2	0	0	0	1	0

CO4	1	0	1	0	0	1	1	0	0	0	1	0
CO5	1	0	1	0	0	1	2	0	0	0	1	0
CO6	1	0	1	0	0	1	2	0	0	0	1	0

The calculation of Program Outcome Attainment of Civil Engineering Materials & Construction is given below.

Programme	Branch		Batch		Aca	demic `	Year	Semester		Course Code		Course Name	
BTech	Civil Eng	ivil Engg.		2018-2022		2019-2020		3 rd		CE2109		Civil Engineerin g Materials & Constructio n	
GO M.	СО	201	200	200	РО	PO	РО	PO	PO	PO	PO1	PO1	PO1
CO Number	Attainment	PO1	PO2	PO3	4	5	6	7	8	9	0	1	2
CO1	2.5	1	0	1	0	0	1	2	0	0	0	1	0
CO2	2.5	1	0	1	0	0	1	2	0	0	0	1	0
CO3	2.5	1	0	1	0	0	1	2	0	0	0	1	0
CO4	2.5	1	0	1	0	0	1	1	0	0	0	1	0
CO5	2.5	1	0	1	0	0	1	2	0	0	0	1	0
CO6	2.5	1	0	1	0	0	1	2	0	0	0	1	0
Sum Product		15	0	15	0	0	15	27. 5	0	0	0	15	0
Sum of mapping		6	0	6	0	0	6	11	0	0	0	6	0
ATTAINM ENT		2.50	### ##	2.50	### ##	### ##	2.5	2.5	### ##	### ##	####	2.50	####

Attainment of PO1= (1x3+1x3+1x2.5+1x3+1x3+1x2.5)/(1+1+1+1+1+1+1) = 2.83

B.2 Indirect assessment and evaluation of Program Outcomes and Program Specific Outcomes

The indirect assessment of Program Outcomes and Program Specific Outcomes are obtained by the following survey tools:

Survey tools	Activity Owners	Compilation
Graduate Survey	School Quality Assurance Cell	Yearly once
Alumni Survey	School Alumni Cell	Yearly once
Employer Survey	Training and Placement Cell	Yearly once

The graduate survey form, alumni survey form and employer survey form are given in Appendices S1, S2 and S3 respectively. The draft survey format is developed by Internal quality assessment cell of university and shared with quality cell of each school. Quality cell and Programme assessment committee finalizes the survey form. The form is shared to the graduates/alumni/employer through the google form.

The surveys reports are passed on to the School QA cell for further computation as described below:

B.2.1 Graduate Survey

- Section B of the graduate survey (appendix-S1) has a set of questions and statements which needs to be answered through ratings on a scale of 5 where '1' indicates poor and '5' indicates excellent rating. For each question in section B, the attainment level is calculated as given below:
 - O Attainment level corresponding to each statement= 3 (high) if more than/equal to 80% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - O Attainment level corresponding to each statement= 2 (medium) if more than/equal to 60% and less than 80% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - Attainment level corresponding to each statement= 1 (low) if more than/equal to 40% and less than 60% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - Attainment level corresponding to each statement= 0 (no attainment) if less than 40% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
- Section C of the graduate survey refers to students' involvement in different extracurricular activities/affairs/events in technical/domain oriented and/or social affairs/outreach activities. Two lists are maintained 'A' and 'B'.
 - List A mentions different categories of involvement in extracurricular activities/affairs/events in technical/domain:
 - Technical societies at KIIT-DU
 - KIIT Technology Business Incubator Cell
 - Coordination and participation in Technical events/fests/contests
 - Member of professional bodies/student chapters/student societies
 - Live and interdisciplinary projects
 - Research projects with faculty members
 - Associated with industry engagement cell
 - International student exchange program
 - List B mentions different categories of involvement in extracurricular activities/affairs/events in social and outreach activities:
 - Voluntary service/Social Outreach Activities/Community Services, etc.
 - Environmental and Social Awareness Programs
 - Attainment level corresponding to List A:
 - Attainment Level =3 (high) if more than 80% of the students were engaged/involved in any of the categories in list A.
 - Attainment Level =2 (medium) if more than 60% of the students were engaged/involved in any of the categories in list A.
 - Attainment Level =1 (low) if more than 40% of the students were engaged/involved in any of the categories in list A.
 - Attainment level corresponding to List B:
 - Attainment Level =3 (high) if more than 80% of the students were engaged/involved in any of the categories in list b.
 - Attainment Level =2 (medium) if more than 60% of the students were engaged/involved in any of the categories in list B.
 - Attainment Level =1 (low) if more than 40% of the students were engaged/involved in any of the categories in list B.

B.2.2 Alumni Survey

- Section B of the alumni survey (appendix-S2) has a set of questions and statements which needs to be answered through ratings on a scale of 5 where '1' indicates poor and '5' indicates excellent rating. For each question in section B, the attainment level is calculated as given below:
 - Attainment level corresponding to each statement= 3 (high) if more than/equal to 80% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - O Attainment level corresponding to each statement= 2 (medium) if more than/equal to 60% and less than 80% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - Attainment level corresponding to each statement= 1 (low) if more than/equal to 40% and less than 60% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.
 - Attainment level corresponding to each statement= 0 (no attainment) if less than 40% of students/graduates/alumni rate it as 3 or higher on a 5 point scale.

B.2.3 Employer Survey

The employer survey contains a set of rubrics (as depicted in Appendix S3) which are to be marked on a scale of 5 for the batch of students interviewed for placements by different recruiters. Attainment level is measured against each rubric based on the following procedure:

- Attainment Level =3 (high) if more than 80% of the respondents mark them as 'good' (rating 3) or above.
- Attainment Level =2 (medium) if more than 60% of the respondents mark them as 'good' (rating 3) or above.
- Attainment Level =1 (low) if more than 40% of the respondents mark them as 'good' (rating 3) or above.

The correlation of the PO/PSO statements with the survey reports is given below:

Programme Outcomes	Graduate Survey (Section B)	Graduate Survey (Section C)	Alumni survey	Employer Survey
PO1	1	1		1
PO2	1	1	1	1
PO3	1	1	1	1
PO4	1	1		
PO5	1	1	1	1
PO6		1	1	1
PO7		1	1	1
PO8		1	1	1
PO9		1	1	1
PO10	1	1	1	1
PO11	1	1	1	
PO12	1	1	1	
PSO1	1			
PSO2	1			
PSO3	1			

The different Program Outcomes indirect assessment is done by taking the average of the attainment-levels of the following statements from each survey:

POs	Graduate Survey	Graduate Survey	Alumni survey	Employer Survey
	Attainment level	Attainment level	Attainment level	Attainment level
	corresponding to	corresponding to List	corresponding to	corresponding to
	question number	(Section C)	question number	parameter/rubric
	(Section B)			
PO1	1,2	List A	1,2	1
PO2	1,2,3,4	List A	1,2,3	1
PO3	5,6	List A	4,7	4
PO4	3,4,6	List A	4,5	
PO5	7	List A	6	1
PO6	6,11	List B	7	5
PO7	11	List B	7,8,9	5
PO8	12	List A, B	10	5
PO9	8,9,10	List A, B	11,13,14	6,7
PO10	13,14	List A, B	12	2
PO11	15	List A, B	15	
PO12	16	List A, B	16	1,2,6,7,8
PSO1	1- 16		1- 16	1,2
PSO2	1- 16		1- 16	1,2
PSO3	1- 16		1- 16	1,2

Overall attainment of Program Outcomes

The final PO/PSO attainment is evaluated considering 80% weightage of direct PO attainment and 20% weightage of PSO attainment.

Final PO/PSO attainment=0.8*Direct Assessment (attainment level) + 0.2*Indirect Assessment (attainment level)

Target Attainment Level

The target attainment level for 2022 graduating batch is 2.25.

Appendix S1 GRADUATE SURVEY

Dear Graduand,

Greetings from Kalinga Institute of Industrial Technology, Deemed to be University! Congratulations on completing your program of study at our University!

We request you to participate in the graduate survey and share your feedback with us. Your thoughtful responses will improve the educational experience for future students and guide us as we work to improve

our services.

Thank you for helping make KIIT, Deemed to be University the best that it can be for future generations!

Sincerely,

Prof. Biswajit Mishra
Dean, Internal Quality Assurance Cell
Kalinga Institute of Industrial Technology, Deemed to be University.
Bhubaneswar-751024
India

SECTION A:

Personal Information

- Full name of the student:
- Email ID:
- Roll number:
- B. Tech Program of study:
- Choose the option applicable in your case at the moment:
 - o Received job offer/s
 - Appearing for job interviews
 - Preparing for higher studies
 - o Planning/preparing for entrepreneurship
- Kindly provide details with respect to the above (if you are placed ,provide your company details and your designation; if you are planning for higher studies, indicate the type of program and the institute if you have received admission letter; if you are planning for entrepreneurship, kindly provide details in terms of the name of the business unit, its brief profile, weblink,etc):

SECTION B:

Provide your response to the questions of this section as ratings on a scale of 1-5 where 1 indicates poor and 5 indicates excellent rating

- 1. How far are you proficient in mathematics, basic sciences and engineering sciences?
- 2. How strong do you feel are your concepts in core courses pertaining to your program of study?
- 3. How successfully are you able to perform experiments, record, analyze and interpret data?
- 4. How well can you perceive, analyze and solve complex problems in your domain of study?
- 5. How well are you able to design products, prototypes and systems satisfying given specifications pertaining to your program of study?
- 6. How well can you perceive the limitations, feasibility and impact of your engineering solutions or designs with respect to social, cultural, health, economical, legal, and multidisciplinary contexts?
- 7. How well are you familiar with research methodology, and modern engineering tools for performing complex experiments, project work and research activities?
- 8. How well have you been involved as a member in group /team activities in sessional courses, labs and projects?

- 9. How do you rate your ability as a team leader?
- 10. How confident do you feel in executing tasks as an individual?
- 11. How well can you understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development?
- 12. How committed are you to professional ethics and responsibilities and norms of the engineering practice?
- 13. How well are you able to make presentations, communicate your ideas in seminars, technical discussions and group activities?
- 14. How well can you make documentations and reports pertaining to technical data, findings, analysis and inferences?
- 15. How well do you consider are your project and associated financial management skills?
- 16. How strongly do you feel that you will need to engage in higher studies, self-learning as well as lifelong learning?

SECTION C:

Student Engagement in Extracurricular Activities

- Choose the ones you were involved in, during your study at KIIT-DU:
 - Technical societies at KIIT-DU
 - o KIIT Technology Business Incubator Cell
 - Coordination and participation in Technical events/fests/contests
 - o Member of professional bodies/student chapters/student societies
 - Live and interdisciplinary projects
 - o Research projects with faculty members
 - o Associated with industry engagement cell
 - o International student exchange program
 - o Voluntary service/Social Outreach Activities/Community Services, etc.
 - o Environmental and Social Awareness Programs
- Provide specifics :

SECTION D:

Review of Program Educational Objectives

Program Educational Objectives (PEOs) as broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.

Weblink for PEO statements for B. Tech Programs offered by the School of Engineering:

- How far do you think your study in KIIT-DU has prepared you for attaining the Program Educational Objectives (corresponding to your program) in future: provide your response on a scale of 1-5:
- Would you like to suggest any changes in the statements?

SECTION E:

Submission

Suggestions (if any) for juniors with respect to academics and research:

Appendix S2

ALUMNI SURVEY

Dear Alumnus.

Greetings from Kalinga Institute of Industrial Technology (KIIT), Deemed to be University!

We hope that you and your family are fine amidst the pandemic.

The Institution is conducting an alumni survey and review of the program educational objectives for the B. Tech programs.

Program Educational Objectives (PEOs) are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.

We request you to give your frank response in this survey. We also request you to reflect on the PEO statements and suggest changes you recommend in them.

We thank you for your time in participating in this review.

Thanking you,

Best Wishes,

Dr. S.S. Behura Deputy Director (Student Services) Kalinga Institute of Industrial Technology, Deemed to be University Bhubaneswar, India.

Section A: Review of Program Educational Objectives:

Program Educational Objectives (PEOs) are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.

≪Weblinks for PEOs≫

- Full name of the alumnus:
- Email ID:
- Indicate your discipline of study at KIIT-DU:
- Year of graduation:
- Roll number at KIIT-DU:
- Indicate your level of agreement with the PEO statements (on a scale of 1-5):
- Provide your suggestions and recommendations (if any) with respect to the PEO statements for your discipline of study at KIIT-DU:
- Kindly choose the option applicable in your case:

- o I am a working professional.
- o I am pursuing higher studies.
- o I am an entrepreneur.
- Kindly provide details about your employer (company and your designation, location) or about your higher studies (Institute and Program) or about your entrepreneurship (name of business unit, website, year of establishment):

Section B: Survey: Kindly choose the score best acceptable in your case (on a scale of 1-5):

- 1. How proficient are you in mathematics and basic sciences?
- 2. How advanced are your engineering and technical concepts and knowledge?
- 3. How well are you able to integrate your concepts and knowledge for solving complex problems or design systems/products?
- 4. How well can you design and perform experiments leading to new study and innovations?
- 5. How proficient are you in analyzing facts and figures and drawing relevant conclusions in your profession?
- 6. How proficient are you in using modern engineering and IT tools and resources?
- 7. How well can you perceive the limitations and impact of engineering solutions or professional practice in the context of societal, legal, health, safety, economical and environmental contexts?
- 8. How well can you predict the upcoming changes and challenges in your profession based on current scenarios nationally and globally?
- 9. How strongly do you feel the need for sustainable development in different contexts?
- 10. How well can you apply and realize the need and importance of engineering professionalism, responsibility and ethical standards?
- 11. How comfortable are you working in international/Global Environment?
- 12. How well can you communicate your ideas, findings and inferences to a range of audiences orally and through written form?
- 13. How strongly well do you perform as a member of diverse teams?
- 14. How capable are you in building teams and leading them?
- 15. How well can you manage projects? (Setting goals, building teams, team management, planning, project execution, etc.)
- 16. How strongly do you believe in the need and importance of higher studies, self and life-long learning?

Section C: Suggestions

Kindly provide suggestions (if any) on additional courses, laboratories, training modules, centers of excellence, project thrust areas, employability skills required for emerging recruiting sectors for the concerned discipline of study, which you think will lead to better attainment of the Program Educational Objectives:

Appendix S3 EMPLOYER SURVEY

Dear Employer,

The evaluation by the employers is regarded as most valuable as the industries / organizations are the ultimate standard.

We request you to put a tick ($$) mark in the follow	wing table based on your observations / experience.
Name of the Organization	
Name of the Representative	•••••
Designation	Contact No
Email ID	Website

RA		Excellent	Very Good	Good	Average	Below Average			
SU	BJECŢ	[5]	[4]	[3]	[2]	[1]			
FEEDBACK ON: STUDENTS/ GRADUATES (tick the relevant one)									
1.	Technical Knowledge / Skills								
2.	Communication skills								
3.	Personal interest & Involvement								
4.	Innovativeness & Creativity								
5.	Responsible & Reliable								
6.	Effective team member / leader								
7.	Effectively address work place problems								
8.	Overall contribution to meet organizational goal								
FE	EDBACK ON INSTITUTION								
1.	Course curriculum								
2.	Training of the students								
3.	Attitude of University Employees								
4.	Hospitality and logistic support								
Sug	gestion (if any) for improvement:				·				

3.3.2 Provide results of evaluation of each PO & PSO (65)

PO Attainment (Direct)

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	2.56	2.55	2.58	2.56	2.58	2.56	2.50		2.75			2.60
C102	2.64	2.66	2.67	2.61		2.67	2.67		2.65			2.67
C103							3.00	3.00		3.00	3.00	3.00
C104	2.63			2.63		2.63	2.63	2.63				2.63
C105	3.00	3.00		3.00	3.00		3.00					
C106	2.56	2.59	2.56	2.46	2.33			2.25		2.20		2.10
C107						3.00				3.00		3.00
C108	2.75	2.75			2.75	2.75					2.75	2.75
C109	2.63	2.63	2.63	2.63								2.64
C110	2.85	2.88	2.79	2.79								2.79
C111	2.56	2.56	2.58	2.55		2.61	2.55					2.46
C112	2.63	2.63	2.63	2.63								2.63
C113	2.93	2.92	3.00									2.94
C114	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00
C115	2.94	2.75	2.86	2.89	2.92	2.94	2.89	3.00	2.89	2.92	2.89	2.94
C116	2.55	2.55	2.55	2.50	2.50	2.55	2.55	2.50	2.50	2.50	2.52	2.55
C201	2.50	2.50					2.50					
C202	2.38	2.38	2.38									
C203	2.67		2.75			2.67	2.67	2.67		2.67	2.67	2.67
C204	2.50	2.50	2.50							2.50	2.50	2.50
C205	2.50		2.50			2.50	2.50				2.50	
C207	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
C208	2.82	2.82		2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
C209	2.73	2.73	2.73	2.73	2.73		2.73	2.73	2.73	2.73	2.73	2.73
C210							3.00		3.00	3.00	3.00	3.00
C211	2.58	2.58	2.56	2.55					2.50			2.59
C212	2.50	2.50										
C213	2.46	2.46					2.46					
C214	2.63	2.63	2.63				2.63					
C215	2.63		2.50			2.63	2.63	2.63		2.63	2.63	2.63
C216	2.54	2.54				2.54	2.54				2.54	
C217	2.80	2.80		2.80	2.80				2.80	2.80		
C218	2.80	2.80		2.80	2.80				2.80	2.80		
C219	2.50	2.50										
C220	2.75	2.75	2.75				2.75	2.75	2.75	2.75		2.75
C301	2.50	2.50	2.50				2.50	2.50		2.50	2.50	2.50
C302	2.50	2.50	2.50				2.50	2.50		2.50	2.50	2.50
C303	2.54	2.60	2.60				2.54					
C304	2.79	2.79	2.78			2.79	2.79					2.79
C307	2.80	2.80		2.80	2.80				2.80	2.80		
C308	2.50	2.50	2.50		2.50		2.50	2.50	2.50	2.50	2.50	2.50

Average	2.68	2.69	2.68	2.75	2.79	2.75	2.72	2.74	2.78	2.75	2.74	2.73
C407	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C405	2.42	2.42	2.47	2.40					2.50			2.44
C404	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C403	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C401						2.75		2.75	2.75		2.75	2.75
C321	3.00	3.00	3.00	3.00	3.00					3.00	3.00	3.00
C320	2.75	2.75	2.75		2.75			2.75	2.75	2.75	2.75	2.75
C319	2.58		2.58		2.58	2.58		2.58		2.58		
C318	2.79	2.79	2.79		2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
C317	2.93	2.93	2.93	2.93	2.93		2.93	2.93	2.93	2.93	2.93	2.93
C312	2.58	2.58	2.63				2.67	2.67		2.67	2.67	2.67
C311	2.38	2.38	2.38							2.38		
C310	2.58	2.58	2.58				2.58	2.58	2.58	2.58	2.58	
C309	2.79	2.79	2.79		2.79		2.79	2.79	2.79	2.79	2.79	2.79

PO attainment indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Graduate Survey	3	3	3	3	3	3	3	3	3	3	3	3
Employer Survey	3	3	3	3	3	3	3	3	3	3	3	3
Alumni Survey	3	3	3		3	3	3	3	3	3		3
Average	3	3	3	3	3	3	3	3	3	3	3	3

Overall PO attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment (X)	2.68	2.69	2.68	2.75	2.79	2.75	2.72	2.74	2.78	2.75	2.74	2.73
Indirect Attainment (Y)	3	3	3	3	3	3	3	3	3	3	3	3
Over all Attainment (0.8*X+0.2*Y)	2.74	2.75	2.75	2.80	2.83	2.80	2.77	2.79	2.82	2.80	2.80	2.79

PSO Attainment (Direct)

Course Code	PSO1	PSO2	PSO3
C101		2.56	
C102		2.56	
C103			
C104			
C105			
C106	2.29	2.25	

C107			
C107	2.75	2.75	2.75
C108	2.75	2.75	2.75
C109			
C110	2.50	2.50	2.57
C111	2.58	2.50	2.57
C112		2.63	2.63
C113	2.00	2.00	2.00
C114	3.00	3.00	3.00
C115	2.90	2.93	2.92
C116	2.50	2.63	2.63
C201			2.50
C202		2.67	
C203		2.67	
C204			
C205	2.50	2.50	
C206			
C207		2.80	
C208	2.82	2.82	2.82
C209	2.73		
C210			
C211			
C212			
C213			2.46
C214			
C215		2.63	
C216			
C217			
C218			2.80
C219			
C220		2.75	2.75
C301			
C302			
C303			2.54
C304			
C305			
C306			
C307		2.80	2.80
C308			
C309	2.79		
C310			2.58
C311			
C312	2.67	2.67	
C313			
C314			
C315			

C316			
C317	2.93		
C318	2.75	2.75	2.75
C319	2.58	2.58	2.58
C320	2.75		
C321	3.00	3.00	3.00
C401			
C402			
C403	3.00	3.00	3.00
C404	3.00	3.00	3.00
C405			
C406			
C407	3.00	3.00	3.00
Average	2.77	2.73	2.75

PSO attainment (indirect)

Survey	PSO1	PSO2	PSO3
Graduate Survey	3	3	3
Employer Survey	3	3	3
Alumni Survey	3	3	3
Average	3	3	3

Overall PSO attainment level

Attainment	PSO1	PSO2	PSO3
Direct Attainment (X)	2.77	2.73	2.75
Indirect Attainment (Y)	3	3	3
Over all Attainment (0.8*X+0.2*Y)	2.82	2.78	2.80

CRITERION 4	Students' Performance	100
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Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022- 23)	CAYm 1 (2021- 22)	CAYm2 (2020-21)	CAYm3 (2019-20)	CAYm4 (2018-19)	CAYm5 (2017-18)	CAYm6 (2016-17)
Sanctioned intake of the program (<i>N</i>)	120	180	180	180	180	180	180
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions, plus no. of students migrated to this program (N1)	120	180	180	180	180	180	180
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	18	18	15	16	20	30
Separate division students, if applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the Program ($N1 + N2 + N3$)	120	198	198	195	196	200	210

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG – Last Year

Graduate

LYGm1 – Last Year Graduate minus 1 LYGm2

- Last Year Graduate minus 2

Table 4.2

Year of entry	N1 + N2 + N3 (As defined above)	without	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year	
CAY(2022-23)	120					
CAYm1(2021-22)	198	177				
CAYm2(2020-21)	198	175	190			
CAYm3(2019-20)	195	174	187	185		
CAYm4 (LYG) (2018-19)	196	175	189	186	184	
CAYm5 (LYGm1)	200	176	193	190	187	
(2017-18)						

CAYm6 (LYGm2)	210	176	204	201	199
(2016-17)	210				

Table 4.3

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I Year	II Year	III Year	IV Year
CAY(2022-23)	120				
CAYm1(2021-22)	198	180			
CAYm2(2020-21)	198	180	198		
CAYm3(2019-20)	195	180	195	195	
CAYm4 (LYG) (2018-	196	180	196	196	196
CAYm5 (LYGm1) (2017-18)	200	180	200	200	200
CAYm6 (LYGm2) (2016-17)	210	180	210	210	210

4.1 Enrolment Ratio (20)

Enrolment Ratio=[(N1/N) x100%]

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	Marks
>=90% students enrolled	20
>=80% students enrolled	18
>=70% students enrolled	16
>=60% students enrolled	14
Otherwise	0

	N (From table 4.1)	N1(From table 4.1)	ment Ratio=[(N1/N) x100%]
CAY(2022-23)	120	120	100
CAYm1(2021-22)	180	180	100
CAYm2(2020-21)	180	180	100

Average[(ER1+ER2+ER3)]/3:100

Assessment: 20.00

4.2 Success Rate in the stipulated period of the program (20)

4.2.1Success rate without backlogs in any semester/year of study (15)

SI= (Number of students who have graduated from the program without backlog)/(Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches

Success rate without backlogs in any semester/year of study = $15 \times Average SI$

Item	Last Year of Graduate , LYG	Last Year of Graduate minus 1, LYGm1	Last Year of Graduate minus 2, LYGm2
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable		200	210
Number of students who have graduated without backlogs in the stipulated period	184	187	199
Success Index (SI)	0.94	0.93	0.95

Average[(S1+S2+S3)]/3:1.0

Assessment: (15x 0.94)=14.1

$4.2.2 \ Success \ rate \ in \ stipulated \ period \ of \ study \ [Total \ of \ with \ backlog + without \ backlog] \ (5)$

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, ifapplicable)

Average SI = mean of Success Index (SI) for past three batches Success rate = 5

× Average SI

Item	Last Year of Graduate, LYG (CAYm4)	Last Year of Graduate minus 1, LYGm1 (CAYm5)	Last Year of Graduate minus 2, LYGm2 (CAYm6)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	196	200	210
Number of students who have graduated in the stipulated period	196	200	210
Success Index (SI)	1	1	1
Average Success Index	1		

Note: If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 &

4.2.2 will be applicable simultaneously

4.3 Academic Performance in Second Year (10)

 $A cademic\ Performance = Average\ API\ (A cademic\ Performance\ Index),\ where$

 $API = ((Mean\ of\ 2^{nd}\ Year\ Grade\ Point\ Average\ of\ all\ successful\ Students\ on\ a\ 10\ point\ scale)\ or\ (Mean\ of\ the\ percentage\ of\ marks\ of\ all\ successful\ students\ in\ Second\ Year/10))\ x\ (number\ of\ successful\ students/number\ of\ students\ appeared\ in\ the\ examination)$

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm220 20-21	CAYm320 19-20	LYG(2018-19)
Mean of CGPA or Mean Percentage of all successful students (X)	8.30	8.29	8.23
Total no. of successful students (Y)	198	195	196
Total no. of students appeared in the examination (Z)	198	195	196
$API = X^* (Y/Z)$	8.30	8.29	8.23
Average $API = (AP1 + AP2 + AP3)/3$		8.27	

4.4 Placement, Higher Studies and Entrepreneurship (30)

Assessment Points = $30 \times \text{average placement}$

Item	CAYm1 2021-2022/ LYG(2018- 19)	CAYm2 2020- 2021/ LYGm1(2017-18)	CAYm3 2019- 2020/ LYGm2(2016-17)
Total No. of Final Year Students (N)	196	200	210
No. of students placed in companies or Government Sector (x)	128	123	120
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	25	19	45
No. of students turned entrepreneur in engineering/technology (z)	5	8	5
x + y + z =	158	150	170
Placement Index : $(x + y + z)/N$	P1=0.80	P2=0.75	P3=0.81

Average placement= (P1 + P2 + P3)/3	0.79
Assessment Points = $30 \times \text{average placement}$	23.7

4.4.1 Provide the placement data in the below mentioned format with the name of the program and the assessment year:

Programs Name and Assessment Year					
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date	

Programs Name and Assessment Year					
2021 -	- 2022				
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date	
1	ABHISHEK KUMAR	18620764999	SkillVertex	23-02-2022	
2	SHIVAM KUMAR CHOUDHARY	18012258899	Adani Group	Adani Group	
3	ARUN MISHRA	18301061787	Juspay technology PVT.LTD	24.6.21	
4	AISHWARYA KHAMBRA	18600264779	Cognizant	Cognizant	
5	DEBJYOTI CHAKRABORTY	18307861855	Accenture	Date: 04/28/2022 C10990556	
6	ANISH PAWAR	18012658903	SkillVertex	23-02-2022	
7	ANJAN PRATAPSINGH	18600364780	SkillVertex	22.2.22	
8	ASHUTOSH VERMA	18291761694	HighRadius Technologies	HighRadius Technologies	
9	ANKIT RAJ	18697465799	Orissa Sponge Iron & Steel Ltd	OSISL/2022-23/016, 14.7.22	
10	ANUBHAV GOGOI	18012958906	SkillVertex	23-02-2022	
11	ARGHAJIT DAS	18013058907	Unschool	Unschool	
12	ATRI BISWAS	18301361790	Accenture	Date:01-Apr-2022 C10945410	
13	GOURAV DUTTA	18308061857	HighRadius Technologies	12 th August,2021	
14	AYUSH RAJ	18644865241	HighRadius Technologies	2.2.22	
15	AYUSHI DUBEY	18600464781	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22	
16	ANKIT KUMAR MOHANTY	18013358910	Road Safety Department, Govt. of Odisha	Road Safety Department, Govt. of Odisha	
17	BITATI SARKAR	18600564782	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22	
18	HARSH KUMAR	18292261699	HighRadius Technologies	12 th August,2021	
19	ANIKET RAJ	18291361690	HighRadius Technologies	14th December,2021	
20	BARSHA PRIYADARSHINI	18301661793	HighRadius Technologies	14th December,2021	

21	HARSHIT KISHLAY	18013658913	Shapoorji Pallonji	U45200MH1943PTC003812,22.11 .21
22	INDRADIPTO CHATTERJEE	18705465950	Amazon Non Tech	Amazon Non Tech
23	DEBASIS PANDA	18301761794	HighRadius Technologies	14th December,2021
24	DHIRAJ GUPTA	18685465660	Power Mech Projects	Power Mech Projects
25	KARSH KOMAL SINGH	18013758914	SkillVertex	23-02-2022
26	MOHIT VATSH	18014158918	Cognizant Ltd.	31.12.21
27	IQTIZA KHAN	18292361700	HighRadius Technologies	HighRadius Technologies
28	SAKSHI GUPTA	18292761704	PwC India	PwC India
29	PRASHANT UPADHYA	18292561702	Ernst & Young (EY)	03 November, 2021
30	PRIYADARSHINEE JENA	18014358920	Power Mech Projects	Power Mech Projects
31	DISHANI CHATTERJEE	18302061797	HighRadius Technologies	20th January,2022
32	ROHAN SINHA	18600864785	HighRadius Technologies	HighRadius Technologies
33	ROHIT DWIVEDI	18014558922	SkillVertex	23-02-2022
34	ROHIT SARKAR	18014758924	Practo	Practo
35	SAKET KUMAR	18600964786	Cognizant	Candidate ID – 19196549, 10-Feb- 2022
36	JAYANJAN BHATTACHARYA	18302761804	Deloitte	28.5.22
37	SANJUKTA MANDAL	18015258929	Amazon Non Tech	17.1.22
38	VISHAL KUMAR	18706065956	Voltas Ltd	Voltas Ltd
39	SHUBHRA SHARMA	18015558932	Wipro	Wipro
40	SOUMENDRA KUMAR BEHERA	18015658933	SkillVertex	22-02-2022
41	DIVIJ NAGPAL	18294961726	Cognizant	08-Feb-2022
42	PRIYAM PAL	18304061817	Cognizant	10-Feb-2022, Candidate ID – 19190837
43	SUCHISMITA DEY	18016058937	Codeyoung	13.11.21
44	SUMIT KUMAR MAHATO	18621165003	Johnson Tiles	Date: 10th January 2022 Ref.: GT/SB/OL/SG/2022
45	TARUN SAINI	18601064787	AdPushup	14th February, 2022.
46	VIKRAM ROY	18016258939	BYJU'S- Think & Learn	BYJU'S- Think & Learn
47	UMA SHANKAR MAJHI	18704065932	Road Safety Departmen, Govt. of Odisha	Road Safety Departmen, Govt. of Odisha
48	KARTIK BUDHRAJA	18295461731	Cognizant	08-Feb-2022
49	ABHISHEK ANAND	18601264789	HighRadius Technologies	HighRadius Technologies
50	ADARSH KUMAR	18644965242	Practo	Practo
51	SHREYA	18292961706	High Radius	20th September, 2021

	AGNIHOTRI		Technologies	
52	ANANYA KUMAR	18016558942	Wipro	7.2.22
53	AKASH RANJAN	18637865171	HighRadius Technologies	12 th August,2021
54	MONIMOY PAUL	18295961736	HighRadius Technologies	HighRadius Technologies
55	SATISH CHANDRA	18304761824	Amazon Tech	17.1.22
56	ANKITA ROUTRAY	18016958946	Brandscapes	28.12.21
57	ANUBHAV CHOUDHRY	18017058947	Power Mech Projects	Power Mech Projects
58	OISIKA PAUL	18296161738	HighRadius Technologies	HighRadius Technologies
59	BEDANT KOUSHIK PANDA	18017258949	Cognizant	Cognizant
60	KRISHNA KUMAR	18705765953	Practo	Practo
61	DEBARUNA NASKAR	18601364790	Cognizant	Cognizant
62	DEBJYOTI NATH	18017358950	Cognizant	02-Dec-2021
63	DEEP NANDY	18017458951	SkillVertex	23-02-2022
64	DEEPIKA KUMARI	18017558952	Amazon Non Tech	17.1.22
65	KSHITIJ CHAUBEY	18295661733	HighRadius Technologies	20th August,2021
66	DIBYASRI KARMAKAR	18645265245	SkillVertex	23-02-2022
67	GAURAV SAHOO	18718071943	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22
68	RITUPARNA ROY	18297161748	HighRadius Technologies	12 th August,2021
69	JAY SINHA	18017758954	Ericsson India Global Services	Date Reference 2022-04-12 EGIL/HR-22:3206 Uen
70	KAUSHIK KUMAR PATRA	18017858955	SkillVertex	23-02-2022
71	KUMAR SHASHANK	18017958956	Infosys	Infosys
72	MD EZAZUR RAHMAN	18018158958	Bookmyshow	22.1.22
73	SHAMBHAVI STUTI	18297561752	HighRadius Technologies	12 th August,2021
74	SIDDHANT MUKHERJEE	18297961756	Accenture	01-Apr-2022 C10945406
75	PALASH MAITY	18018458961	Holcim Group	17.2.22
76	PRIYA KUMARI	18018558962	Verzeo	Verzeo
77	RAMNISH GUPTA	18018758964	HighRadius Technologies	HighRadius Technologies
78	RATIRAM PATTNAIK	18018858965	SkillVertex	23-02-2022
79	RAVI RAMAN JHA	18018958966	Adani Group	Adani Group
80	SOUMYA LAHIRI	18298361760	Autodesk	7.4.21
81	SAGAR MANNA	18601864795	Cognizant	2.12.21

82	SAGARMAY DEBNATH	18601964796	Orissa Sponge Iron & Steel Ltd	OSISL/2022-23/015, 14.7.22
83	SARTHAK KUMAR LENKA	18019158968	SkillVertex	23-02-2022
84	SATIRTHA SATYAKAM JENA	18019258969	Acmegrade	16.2.22
85	SAURABH SINGH	18621365005	Brandscapes	28.12.21
86	SAURAV KUMAR	18019358970	Holcim Group	17.2.22
87	SUBHAM KUMAR VERMA	18298661763	Cognizant	Candidate ID – 19190903,10-Feb- 2022
88	SAYAN HATI	18019458971	Verzeo	14 December 2021 OL No: VZ22C263
89	SUMEDHA PATNAIK	18298761764	PwC India	Ref. No:280889WD 13 December 2021
90	SOUMYA PRAMANICK	18019558972	SkillVertex	22-02-2022
91	SOURAKAR BISWAS	18019758974	Cognizant	Cognizant
92	SUPURNA SADHUKHAN	18298861765	HighRadius Technologies	20th August,2021
93	SUBHAM MAHALIK	18019858975	Road Safety Department, Govt. of Odisha	Road Safety Department, Govt. of Odisha
94	SUCHISMITA GHOSH	18689665702	Jindal Steel Works	28.3.22
95	DIVYANSHU PANT	18302261799	HighRadius Technologies	12 th August,2021
96	SHRISHA MOHAN	18305161828	HighRadius Technologies	14th December,2021
97	MD SHAHWAZ	18602364800	Power Mech Projects	Power Mech Projects
98	SWASTIK SOURAV SAHOO	18298961766	HighRadius Technologies	20th September, 2021
99	ASHISH ANAND	18724177497	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22
100	MANAS SRIVASTAVA	18020258979	Collabera Services Ltd	Collabera Services Ltd
101	TIRTHANKAR MUKHERJEE	18299261769	Cognizant	31-Dec-2021
102	ATUL ANAND	18020358980	HighRadius Technologies	20th January,2022
103	THOKCHOM HEELEN	18020558982	Autodesk	Autodesk
104	AASTHA	18299661773	HighRadius Technologies	20th August,2021
105	MUQEET	18020758984	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22
106	ARPITA BEHERA	18020958986	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22
107	ERUM ARSHAD	18302361800	HighRadius Technologies	HighRadius Technologies
108	HARDIK KUMAR BEGMAL	18616564942	Capgemini	Capgemini
109	KAMALESH KUMAR YADAV	18621465006	Ashiana Housing	Ashina/HR/OL/2022, 27.5.22

110	ATISH KUMAR SAH	18621565007	Power Mech Projects	Power Mech Projects
111	SMRITI SINGH	18679565598	Shapoorji Pallonji	22.11.21
112	JOYJIT NATH	18302861805	Cognizant	ID: 1211718 November 03, 2021
113	KAUSHIK RANJAN OJHA	18302961806	HighRadius Technologies	14th December,2021
114	MEGHNA SINGH	18616664943	Cognizant	Cognizant
115	SHOURJYA CHAKRABORTY	18309661873	Ernst & Young	Ernst & Young
116	ANANYA CHATTOPADHYAY	18300261779	Wipro	Wipro
117	SAMANTA KUMARI	18718572204	Wipro	Wipro
118	SAYANTAN BANERJE	18309561872	Wipro	Wipro
119	SIMRAN MEHTA	18305461831	Accenture	14.1.22
120	ISHIKA SAHA	18302661803	Accenture	Accenture
121	DEBARSHI DEB	18307661853	PwC Acceleration	PwC Acceleration
122	ADITYA CHOUDHURY	19247868562	Shapoorji Pallonji	22.11.21
123	AUROBINDO SAHU	19247968563	Road Safety Department, Govt. of Odisha	Road Safety Department, Govt. of Odisha
124	NITISHA DEBNATH	19248068564	SkillVertex	23.2.22
125	RIYA CHAKRABORTY	19592572022	Acmegrade	Acmegrade
126	SAYANTIKA SEN	19248268566	Merkle Sokrati	24.9.21
127	SUSOVIT TRIPATHY	19248368567	SkillVertex	23.2.22
128	VISHAL THAKUR	19248568569	Power Mech Projects	Power Mech Projects

Programs Name and Assessment Year

2020 - 2021

S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointme nt letter reference no. with date
1	Abhash Aryan	17014751899	Megha Engineering & Infrastructure Ltd.	
2	Barial Soren	17015751909	Verzeo and Thermax	
3	Apurba Panigrahi	17015851910	Megha Engineering & Infrastructure Ltd.	
4	Arshita Hazarika	17016351915	PlanetSpark	Employee Code:

				_PS0358, 23/01/2021
5	Biprangshu Deb	17016651918	PropertyPistol	06 th March 2021
6	Chandramitra Baruah	17016751919	Verzeo	
7	Debjani Pal	17016951921	Amazon- Non Tech(Allow other Company)	
8	Debolina Saha	17017051922	Accenture (4.50) and Cognizant	C9263033 Date:10- Mar-2021
9	Himanshu Singh	17017451926	NCC	
10	Jyoti Kumari	17698465765	Amazon- Non Tech(Allow other Company)	
11	Krishna Kumar	17017651928	NCC	CO- HR/RCT/609 /2020-2021, 19.2.2021
12	Kumar Kishan	17017751929	Maia Estate(Allow)	
13	Nitish Kumar	17018151933	PropertyPistol and My home constructions	06 th March 2021
14	Priyasha Das	17018551937	Cognizant and High Radius	
15	Rhittik Bhattacharya	17378255538	PropertyPistol	06 th March 2021
16	Rupayan Dutta	17019051942	Wipro	
17	Sagnik Paul Choudhury	17019151943	BYJU'S-Think and learn(10.00)	
18	Saif Ahmed Ansari	17019251944	PropertyPistol	06 th March 2021
19	Saurabh Singh Rathore	17586857643	Verzeo	
20	Siddharth Singh	17019751949	Megha Engineering & Infrastructure Ltd.	
21	Alisha Kumari	17020451956	Verzeo and Global archer Consultancy	
22	Aniket Singha Deb	17020651958	NCC	
23	Anupam Saxena	17629158078	HighRadius (37th Batch)	
24	Biswajit Saha	17574757517	Megha Engineering & Infrastructure Ltd.	
25	Joyutpal Laskar Choudhury	17021851970	BYJU'S-Think and learn(10.00)	
26	Sakshi Goyal	17021951971	Infosys-5th and High radius	
27	Laila Chakraborty	17022051972	HighRadius(Batch-5)	
28	Manisha	17378455540	Accenture (4.50)	
29	Pranav	17022651978	My Home Constructions and Global archer	

			Consultancy	
30	Preetam Das	17022751979	Megha Engineering & Infrastructure Ltd.	
31	Riya Kumari	17022951981	TATA Power Delhi Distribution Ltd(5.50)	
32	Shaurya	17023351985	PropertyPistol and Global archer Consultancy	06 th February 2021
33	Sudhanshu Upadhyay	17023751989	NCC	
34	Sujit Sarkar	17023851990	PropertyPistol	06 th March 2021
35	Supradeep Dey	17587357648	Wipro and TCS	
36	Vikram Kumar	17709072471	NCC	
37	Alakh Raj Mohan	17024251994	TATA Power Delhi Distribution Ltd(5.50)	
38	Ashish Raj	17024451996	Megha Engineering & Infrastructure Ltd.	
39	Ashok Kumar Pandey	17024551997	Maia Estate(Allow)	
40	Ayan Sarkhel	17024751999	PropertyPistol	06 th March 2021
41	Debapriya Bandopadhyay	17378655542	Amazon- Non Tech	
42	Sagar Kapoor	17025752009	Megha Engineering & Infrastructure Ltd.	
43	Sagar Raj Singh	17025852010	Infosys	
44	Sagarika Roy	17025952011	Amazon- Non Tech	
45	Sayar Mondal	17026352015	NCC	
46	Sourish Das	17379155547	Megha Engineering & Infrastructure Ltd. and Global Archer Consultancy	
47	Subhangee Rout	17026952021	Climber(2nd Visit)	
48	Sushant Kumar Singh	17587557650	NCC	
49	Sushil Kumar Swain	17027152023	Megha Engineering & Infrastructure Ltd. and Simplex	
50	Susrut Gupta	17027352025	PropertyPistol	06 th March 2021
51	Suvam Kumar Das	17027452026	Verzeo	
52	Swetank Singh	17027652028	NCC	
53	Vivek Kumar	17028252034	Unschool and High radius	
54	Yashika Prusty	17028452036	Sheltera	04/02/202
55	Aakash Kumar	17028652038	Sheltera and Simplex	04/02/202
56	Shashank Shekhar	17587657651	Unschool	
57	Priyanshu Agarwal	17705265900	Infosys and Wipro	

58	Sayan Sarkar	18001358790	Verzeo	
59	Koushik Roy	18001458791	Maia Estate(Allow) and PropertyPistol and Ashiana Housing Ltd.	Ashiana/HR/ OL/2021, 7.7.2021
60	Saini Dey	18001558792	Climber	
61	Shivam Kumar	18001658793	PropertyPistol	06 th March 2021
62	Kingshook Saha	18623365025	Cognizant	Candidate ID – 14994957, 21-Mar-2021
63	Sri Sairam Jena	18002058797	DreamGains	14.4.2021
64	Swaraj Saha	18002158798	Megha Engineering & Infrastructure Ltd.	
65	Annyesha Sinha	17020951961	Zolostays Property Solution Ltd.	
66	Inzimamul Haque	17021751969	Ashiana Housing Ltd.	Ashiana/HR/ OL/2021, 7.7.2021
67	Nayan Chakrabarty	17018051932	Global Archer Consultancy	
68	Shaswati Sarma	17378555541	Global Archer Consultancy	
69	Shiv Kumar Yadav	17650358290	Global Archer Consultancy	
70	Saumya Basant	17023151983	Ashiana Housing Ltd.	Ashiana/HR/ OL/2021, 12.7.2021
71	Prateek Kumar	17018351935	HighRadius (51th Batch)	
72	Ravi Kumar	17018851940	Trident Group	
73	Ipsita Priyadarshini	17025052002	Trident Group	
74	Harsh Anand	17690458721	Simplex	
75	Mutum Avikrant	17022351975	Simplex	
76	Mohammad Azaz	17025252004	Simplex	
77	Aashu Yadav	17658758377	Wipro	
78	Apoorva Jyoti	17297354725	Accenture	C9282840, 12.3.2021
79	Arpan Roy Chowdhury	17297454726	Accenture	
80	Ateev Anand Saxena	17658858378	Accenture	
81	Atharv Jain	17297754729	Accenture	C9248809,3. 3.2021
82	Avirupa Saha	17297854730	Accenture	
83	Bijeet Ojha	17297954731	Accenture	
84	Dipanwita Mandal	17298154733	Accenture	C9282841,12 .3.2021
85	Gaurav Bansal	17298254734	Accenture	
86	Megha Chaudhuri	17580257572	Accenture	C9248805,3. 3.2021
87	Prabhav Kumar	17299754749	Accenture	

	Pandey			
88	Ria	17580357573	Accenture	C9282842,3. 3.2021
89	Shubham	17301954771	Accenture	
90	Sourav Gorai	17302454776	Accenture	
91	Sumantra Pal	17302854780	Infosys	HRD/FINAL SEMTRG/20 21/B1-231, 26.1.2021
92	Aditya Kumar Sahoo	17304054792	Accenture	C9394739, 13.4.2021
93	Ashwi Priyadarshi	17305254804	Wipro	
94	Nancy Singh	17400355759	Accenture	
95	Ritaja Rahman	17308254834	Accenture	C9282848, 12.3.2021
96	Shameek Bhattacharjee	17309154843	HighRadius	
97	Shrey Dixit	17309554847	Accenture	C9263147, 9.3.2021
98	Shreyam	17309754849	PlanetSpark	
99	Sushmita Roy	17310654858	Accenture	C9248811,3. 3.2021
100	Anirudh Banerjee	17311754869	Accenture	
101	Anirudh Gupta	17311854870	Infosys	
102	Manasi Sharma	17601557790	Infosys	
103	Mohit Rathor	17312354875	Infosys	
104	Priyam Anand	17312754879	Accenture	C9263150,10 .3.2021
105	Sadish Kumar Dash	17312954881	Accenture	
106	Sagnik Mukherjee	17313054882	Accenture	
107	Soumyajit Roy	17313854890	Accenture	
108	Souvik Ghosh	17313954891	Wipro	15.2.2021
109	Gaurav Das	17314754899	Wipro	
110	Navdeep Kishore Singh	17314854900	BYJU'S-Think and learn	
111	Priyam Saha	17658958379	Climber	
112	Aakash Kumar Sinha	17665258443	Accenture	
113	Ishani Sengupta	17596457739	Infosys	
114	Samsunnahar Khan	17300754759	Climber	
115	B Sharath	17305654808	Climber	17.1.2021
116	Srizan Dogra	17310454856	Climber	
117	Bhaskar Banerjee	17601757792	Climber	17.1.2021
118	Sonali Priyadarshini	17313654888	Unschool	
119	Ansuman Sahoo	17315154903	Cognizant	
120	Venkatesh Akhouri	17314654898	Wipro	
121	Mridul Rai	17307454826	Wipro	

122	Kapil Choudhary	17306754819	Cognizant	
123	Diksha Jha	17306254814	Wipro	

Programs Name and Assessment Year

2019 - 2020

S.no	Name of the student	Enrollment	Name of the	Appointment letter reference
	placed	no.	Employer	no. with date
			Merkle Sokrati	
1	Aayush Panda	16035145306	(Should be	
2	Daviel and Malautes	1,0255,45210	Allowed)	
3	Parichay Mohanty	16035545310	Capgemini(3.80)	
3	Akanksha Arbind	16035745312	Accenture (4.50)	TCSI /CT20102906574/IV allegte 12
4	Akash Deb	16035845313	TCS	TCSL/CT20192806574/Kolkata,12 /09/2019
5	Ankit Raj	16036345318	Byju's	
6	Ashutosh Kumar	16637351353	Accenture (4.50)	C8467918,Date:16-Jan-2020
7	Ayush Yadav	16036745322	Accenture (4.50)	
8	Chayan Das	16036945324	DXC Technology	21 Jun, 2020
9	Dileep Kumar	16659251601	GR Infraprojects	3.12.2020
10	Himanshu Raj	16037445329	Paramount Technomech	7-Feb-2020
11	Kairavi Nandana Ray	16037545330	UpGrad Education	28-January-2020
12			Extramarks 2nd	•
12	Keshav Kumar	16634951329	Visit	
13	Md Shahnawaj	16037945334	Shapoorji Pallonji	22.10.2019
14	Mohit Raj	16038145336	Extramarks 2nd Visit	
15	Namrata Pal	16038345338	Paramount	
16	Nikhil Thawani	16038545340	Ashiana Houseing 2nd Visit	Ash/HR AL/2020/1318,28th November 2020
17	Pratik Dey	16038645341	Chibber	1 st -Dec -2019
18	Ramendra Kumar Dubey	16038945344	Shapoorji Pallonji	22.10.2019
19	Raunak Kumar	16039145346	Global Archer	
20	Rohit Kumar	16039445349	Global Archer	
21	Salman Ashraf	16039545350	Chibber	
22	Saumya Sinha	16039745352	Paramount Technomech	7-Feb-2020
23	Sritam Mohapatra	16040845363	Capgemini(3.80)	
24	Subham Debbarma	16040945364	DXC Technology	
25	Sumon Mitra	16041145366	Accenture (4.50)	C8425084,Date:30-Dec-2019
26	Yajat Agrawal	16591050880	Accenture (ICI Role)	
27	Abdul Nazir	16041545370	ITD Cementation	12.10.2020

28	Abesh Ray	16041645371	Accenture (4.50)	
29	Abhinav Kumar	16041845373	Capgemini(3.80)	
30	Adrija Dutta	16042145376	TCS	
31	Akash Rai	16042245377	Accenture (4.50)	C8391696,Date:15-Jan-2020
32	Anindita Yadav	16042845383	Extramarks	
33	Harsh Kumar Jain	16043645391	Parmer Construction	
34	Joydeep Samanta	16043945394	Parmer Construction	
35	Khushi Kumari	16591350883	Paramount	7.2.2020
36	Madhurya Mandit Chutia	16591450884	Global Archer	
37	Murchana Rabha	16044445399	Accenture (ICI Role)	C8712193,07-Aug-2020
38	Dixit Kumar	16044745402	Paramount	7.2.2020
39	Priyajit Deb	16635051330	ExtraMarks (3rd Visit)	30-May-2020
40	Rajkumar Routh	16045245407	Accenture (4.50)	
41	Rishabh Sharma	16045445409	Accenture (4.50)	
42	Rudrani Das	16045645411	DreamGain Financial Ltd.	
43	Satyam Anand	16046145416	Edupolics	
44	Shashank Mishra	16046345418	Wipro	
45	Shivam Singh	16046445419	Accenture (4.50)	C8440606, Date: 01-Jan-2020
46	Shivangi Sharma	16046545420	Accenture (ICI Role)	C8712194,07-Aug-2020
47	Shrawani Tetarbe	16046645421	Highradius	
48	Shubham Choudhary	16046745422	Parmer Construction	
49	Shubham Sinha	16046845423	DXC Technology	
50	Sibasish Mishra	16047045425	GR Infraprojects	03/12/2020
51	Sohom Mondal	16047145426	Global Archer	
52	Sweta Gogoi	16047545430	Parmer Construction	
53	Abhilash Mishra	16048145436	ITD Cementation	12.10.2020
54	Abhishek Roychowdhury	16048245437	Chibber	1 st -Dec -2019
55	Amina Khanam	16048845443	Accenture (4.50)	
56	Aniket Singh	16676558542	Accenture (4.50)	
57	Bidesh Das	16635251332	Accenture (4.50)	C8391700,Date:15-Jan-2020
58	Deepak Kumar	16049345448	Global Archer	
59	Jagrity Sinha	16049445449	Chibber	1 st -Dec -2019
60	Kumar Pranav	16049745452	RDC Concrite	
61	Kunal Kumar	16049945454	Sapio Analytica Ltd.	
62	Manisha Mahabir	16050045455	Accenture (4.50)	
63	Manisha Panigrahi	16050145456	DXC Technology	20 Aug, 2020
64	Naveed Ahmad	16050245457	DreamGain Financial Ltd.	
07	Naveed Ahmad	10030243437	Financial Ltd.	

65	Nikita Sarkar	16050545460	Accenture (4.50)	
			Accenture (4.30)	GAC/REC/2020-21, 21st
66	Prahast Tripathi	16050945464	Global Archer	Sept'2020
67		16051145466	RAO	
	Prashant Shekhar		Edusolutions	
68	Raj Manthan	16051445469	Byju's	
69	Rishav Raj	16051745472	Capgemini(3.80)	
70	Rishav Rishikesh	16051845473	GR Infraprojects	03/12/2020
71	Rohit Kumar	16051945474	DreamGain Financial Ltd.	
72	Samarpan Sinha	16052245477	Accenture (4.50)	
73	Shree Priya	16052745482	Accenture (4.50)	
74	Shreeya Bhargawi	16052845483	DreamGain Financial Ltd.	
75	Soumit Dey	16053445489	GR Infraprojects	03/12/2020
76	Sourav Kar	16053645491	HighRadius (27th Batch)	89DD2EE7-0F1A-49F9-8390- 096AA50B82D8, Date: 01 Sep 2020
77	Subhrasan Medhi	16054145496	Accenture (4.50)	
78	Aditya Prasad Satpathy	16054945504	GR Infraprojects	
79	Anand Kumar Chaturvedi	16055245507	Samsung Heavy	SHII-HR-APPT-2020-0031
80	Ashish Rai	16055845513	HR Johnson	GST/OL/1/2020, 3.2.2020
81	Asim Singh	16592150891	Accenture (4.50)	
82	Bhabarnav Sarma	16055945514	Accenture (ICI Role)	
83	Desaindi Khersa	16056245517	Peak Infrasture	13.1.2020
84	Devroop Ghosh	16056345518	Accenture (4.50)	
85	Gyan Kinkar	16056645521	GR Infraprojects	
86	Gyan Prakash	16056745522	DreamGain Financial Ltd.	
87	Harsh Bakshi	16056945524	Accenture (4.50)	
88	Ibadawankmen Diengdoh	16057145526	DreamGain Financial Ltd.	
89	Jyoti Singh	16057245527	Accenture (4.50)	
90	Kasorina Golui	16057445529	DreamGain Financial Ltd.	
91	Mayank Singh	16057845533	Deloitte India	
92	Naveen Kumar	16649251489	Parmer Construction	
93	Nishant Verma	16057945534	Accenture (4.50)	
94	Padma Priyadarshini Parija	16058045535	Capgemini(3.80)	
95	Prerit Kumar Singh	16058145536	GR Infraprojects	
96	Ratul Suklabaidya	16058945544	Paramount	7-Feb-2020
97	Rishav Basak	16059045545	Accenture (4.50)	
98	Samrat Sen	16059245547	Highradius	Date: 01 Sep 2020
			Sapio Analytica	v= w=F =0=0
99	Sanchita Devi	16059345548	Ltd.	28.11.2019

100	Saurabh Sinha	16059445549	Shapoorji Pallonji	
101	Saurav Kumar	16059545550	Global Archer	GAC/REC/2020-21,21st Sept'2020
102	Shresth Sharma	16059945554	Parmer Construction	
103	Subhadeep Banerjee	16060245557	Chibber	
104	Kanishk Chauhan	16061145566	Climber	
105	Ritika Kerkatta	16061845573	Highradius	
106	Sharique Anwer	16061945574	Shapoorji Pallonji	22.10.2019
107	Roshan Ojha	16592350893	ITD Cementation	12.10.2020
108	Monalisa Kar	17000551757	Capgemini(3.80)	
109	Namrata Debnath	17000651758	Paramount	7.2.2020
110	Papiya Saha	17000751759	Global Archer	18.6.2020
111	Vanshika Rai	17001251764	Chibber	1.12.2019
112	Sabyasachi Dutta	17637158158	Global Archer	GAC/REC/2020-21,21st Sept'2020
113	Harsh Kumar	17678858597	Accenture (4.50)	
114	Sounak Majumder	16040645361	Maiaestates	29.6.2020
115	Subhamoy Dutta Gupta	16054045495	Maiaestates	29.6.2020
116	Sobhan Kumar Samal	16040545360	Ashiana Houseing	
117	Somesh Kumar Singh	16047245427	Ashiana Houseing	Ashina/HR/OL/2020, 30.10.2020
118	Ravi Shankar	16045345408	Prena Manpower Solution LLP	O1/HR/ENRL/MEC/01/VOL- 1/148569, 10.11.2020
119	Gyan Prakash	16056845523	Simplex Infrastructures	
120	Saptarshi Chakraborty	16045945414	Ashiana Houseing 2nd Visit	

Progra	Programs Name and Assessment Year				
2018 -	2019				
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date	
1	Abhishek Kumar Singh	15550743645	Simplex Infrasture Site Engg.	100 117011 00000	
2	Alisha Ali	15031238439	High Radius Technologies		
3	Anand Kishor	15031338440	Pie Infocomm		
4	Ankana Das	15031738444	Wipro	April 12, 2019	
5	Ankesh Kumar	15031838445	Simplex Infrasture Site Engg.		
6	Anurag	15031938446	Yash Paper		
7	Anushka Shankar	15595044088	RDC Concrete		
8	Asad Ullah Noorie	15032238449	Eduvirtuso		

9	Atul Narayan	15032338450	Simplex Infrasture Site Engg.	
10	Debdipta Maity	15033038457	DN Homes	
11	Divyanshu Singh	15033338460	ITD Cementation	15.7.2019
12	Kavyanjali Tripathi	15033738464	Shapoorji & Pallonji	00026031, 15.7.2019
13	Manish Kumar	15033938466	Sea Geo Surveys	
14	Faisal Aman	15034238469	Wipro	
15	Navneet Khare	15034738474	Tech Mahindra	
16	Nilanjana Saha	15034838475	Simplex Infrasture Site Engg.	
17	Puja Patel	15035038477	Orion	
18	Rajdeep Dasgupta	15035138478	Pie Infocomm	15.7.2019
19	Rupam Ravi	15035538482	Tech Mahindra	
20	Saurav Paul	15036038487	Ultratech Cement	
21	Sharmili Paul	15036138488	Wipro	
22	Sourav Paul	15036638493	Simplex Infrasture Site Engg.	
23			90	TCSL/CT20182572510/Kolkata,09/
23	Subhojit Das	15036938496	TCS	10/2018
24	Sudeshna Chakraborty	15551243650	Global Archer	1st August 2019.
25	Tanmoy Barik	15037538502	HCC	
26	Trisha Bej	15037638503	Tech Mahindra	
27	Vaibhav Rathore	15037738504	HCC	HRD/LM/028, 8.7.2019
28	Vikrant Ujjawal	15038138508	Pie Infocomm	
29	Vivek Pratap	15038238509	Global Archer	
30	Aditya Kumar	15038838515	TCS	
31	Adyesh Mishra	15038938516	Extra Marks	
32	Arkadeb Datta	15039838525	Byju's	
33	Asmeeta Pal	15039938526	Collabera	
34	Debashis Mishra	15040338530	Eduvirtuso	
35	Kamalika Das	15041138538	Vrednic	18.3.2019
36	Kumari Sonika	15041238539	Artech	
37	Mananjay Pratap Singh	15041338540	DN Homes	
38	Prajwal Prasanajeet	15041738544	TCS	
39	Prithviraj Sikdar	15041938546	Wipro	
40	Sabyasachi Swain	15042438551	TCS	
41	Sagar Khedia	15042538552	Simplex Infrasture Site Engg.	
42	Satyasankar Sahoo	15042838555	Ashiana Housing	
43	Shivam	15043738564	Ultratech Cement	
44	Shubham Kumar	15551443652	Simplex Infrasture Site Engg.	
45	Shubham Kumar	15044038567	Simplex Infrasture	

			Site Engg.	
46	Subhangi Sudhakar	15044238569	Artech	
47	Siddhant Bisen	15044338570	Collabera	
48	Sneha Saikia	15044438571	Artech	
49	Sudeshna Roychoudhury	15044838575	Wipro	
50	Sumit Kumar Panda	15045038577	SPARC	
51	Tuhin Ghosh	15045238579	Artech	
52	U Asutosh Patro	15595244090	Ashiana Housing	
53	Vipul Dubey	15045538582	Shapoorji & Pallonji	
54	Vitthal Kumar	15045638583	Lancesoft	
55	Abhishek Kumar	15046038587	Simplex Infrasture Site Engg.	
56	Abhishek Kumar Porwal	15046138588	Simplex Infrasture Site Engg.	
57	Abhishek Kumar Rao	15551543653	Vrednic	18.3.2019
58			My Perfectice(Opera tions +	
	Aditi Bardhan	15046238589	Blogging)	
59	Aditi Chakrakrabarty	15046338590	TCS	
60	Aditya Singh	15551643654	Lancesoft	
61	Ali Imran	15046438591	Tech Mahindra	
62	Aman Kumar Singh	15046538592	GMI	27.3.2019
63	Bedanta Saikia	15047338600	AFCONS Infrastructure Ltd.	AFC/BP/RN/70496, 14.5.2019
64	Debashina Dwivedy	15047438601	Mu-Sigma	
65	Duke Das	15047638603	Shapoorji & Pallonji	00026095,15.7.2019
66	Gaurav Bhatt	15595544093	Simplex Infrasture Site Engg.	00020073,13.7.2017
67	Gaurav Bhatt Gaurav Kumar	15047738604	Collabera	
68	Gaurav Kumar Singh	15047838605	Simplex Infrasture Site Engg.	
69	Harsh Menaria	15048038607	Vrednic	18.3.2019
70	Karun Bhujel	15048338610	Tech Mahindra	
71	Kauntey Suryavanshi	15048438611	HCC	
72	Malayaka Manali	15048538612	Collabera	
73	Manish Kumar	15048738614	Vrednic	18.3.2019
74	Meghna Saikia	15048938616	Clear tax	August 20,2019
75	Neeraj Agarwal	15049138618	Accrete	ACE/HR/190404/355
76	Poulami Paul	15049438621	Orion	
77	Pravomh Mukhopadhaya	15049638623	Decathlon	

78	Rohan Choudhary	15050138628	Byju's	
70	Rudra Prasanna		Asahi India	
79	Swain	15050338630	Glass Ltd.	
90			Simplex Infrasture	
80	Sachin Kumar Singh	15050538632	Site Engg.	
81	Sagarika Mitra	15050638633	Wipro	April 12, 2019
82	Sani Panda	15050838635	Accrete	ACE/HR/190629/385, 29.6.2019
83	Shreyan Sekhar			
	sarmah	15051238639	Global Archer	
84	Shubham Kumar	15051638643	Global Archer	
	Gupta Souvik	13031038043	Global Alchei	
85	Bhattacharyya	15051838645	Lancesoft	
86	Sreyashi Das	15051938646	Wipro	A mril 12, 2010
87	•		DN Homes	April 12, 2019
07	Subhabrata Nayek	15052038647	Simplex Infrasture	14.6.2019
88	Supriya Kumari	15052238649	Simplex infrasture Site Engg.	
89	Varun Mandal	15052638653	Orion	
90	Varun Mandai Vishal Shukla	15053038657		
91		15053638663	Ashiana Housing TCS	
91	Aditya Kumar	13033038003	Deloitte	
92	Ahana Guha	15053938666	(Advisory)	16.5.2019
93			•	
93	Ayush Agrawal	15054438671	RDC Concrete	
94	Dishari Parial	15055229770	High Radius	29-Apr-2019
95		15055238679	Technologies	
93	Ipshita Barua	15055338680	Global Archer AFCONS	
96	Jyoti Chandan Pati	15055438681	Infrastructure Ltd.	
97	KOENA SAHA	15055638683	Vrednic	18.3.2019
	Kunwar Vikrant	13033030003	Vicume	10.3.2017
98	Singh	15055738684	Global Archer	
99			Simplex Infrasture	
99	Mantu Kumar	15643744580	Site Engg.	
100	Mridul Das	15056038687	Citrix	
101	Nandinee Goswami	15056138688	Global Archer	1st of June, 2019.
102	Omkar Ghosh	15056238689	Tech Mahindra	
103			Simplex Infrasture	
	Parth Shukla	15623144371	Site Engg.	
104	Poulami Pal	15056538692	Tech Mahindra	
105	Rahul Anand	15057138698	Yash Paper	
106	Abdul Hoda	15057338700	Eduvirtuso	
107	Rakesh Kumar	15057538702	Extra Marks	
108	Rojasuman	1.70.7-2.2.2	T .C.C	TCSL/CT20182526629/Kolkata,09/
	Tripathy	15057838705	TCS	10/2018
109	Ronanki Sanjay	15057029707	Simplex Infrasture	
	Kumar Sandeep	15057938706	Site Engg.	
110	Madhusudan Sahoo	15058138708	Vrednic	18.3.2019
111	Sayan Dey	15058238709	Ashiana Housing	Ashiana/HR/OL/2019, 12.6.2019

112	Shubham Gupta	15058538712	Simplex Infrasture Site Engg.	
113	Shubham Gupta	13030330712	Simplex Infrasture	
	Soumya Kar	15058838715	Site Engg.	
114	Sumit Kumar Jha	15059138718	Orion	
115	G 77	15050220720	Simplex Infrasture	
	Sunny Kumar	15059338720	Site Engg.	
116	Varsha Vaishal	15059938726	Jaro Education	
117	Aakriti Sinha	15060338730	Lancesoft	
118	Abhilekh Singh	15060738734	Wipro	April 12, 2019
119	Abhimanyu	15060838735	Simplex Infrasture Site Engg.	
120	Abhinaba Sinha	15060938736	Tech Mahindra	
121	Abhishek Anand	15061038737	HCC	8.7.2019
122	Abinash Patowary	15627544415	Eduvirtuso	
123	Madhumita Mohanty	15643844581	Orion	15.2.2019
124	Bhaskar Bezboruah	15062038747	Eduvirtuso	
105			AFCONS	
125	Debarshee Das	15062338750	Infrastructure Ltd.	AFC/BP/AS/71157, 3.6.2019
126	Harsh Baranwal	15062638753	Keyence	
127	Himasree Dam	15062838755	Orion	
128			Simplex Infrasture	
120	Keshaw Kumar	15552243660	Site Engg.	
129	Kumar Saurabh	15062938756	Global Archer	2nd May 2019.
130	Linita George	15063038757	Tech Mahindra	
131	Mohit Kumar		Simplex Infrasture	
131	Sharma	15063138758	Site Engg.	
132	Nayan Gupta	15063238759	Simplex Infrasture Site Engg.	
133	Prashasti Laskar	15063838765	Pie Infocomm	
134	Pritam Kr. Sinha	15063938766	Extra Marks	
135	Rhiddhi Kotoky	15064138768	Tech Mahindra	
136	Rishav Raj	15064238769	Collabera	
137	Samikshya Behera	15064438771	Tech Mahindra	
	Sammon ja Bonora	13001730771	Ultratech	
138	Saptak Basu	15645444597	Cement	
139	Sarthak Bapat	15064638773	Sea Geo Surveys	
140	Sayani Saha	15064938776	Clear tax	
141	Shibam Banerjee	15065038777	Citrix	
142	Shivani Khare	15065138778	Tech Mahindra	
143	Shubham Kumar	15065338780	RDC Concrete	
144	Shubham Neogi	15065438781	Byju's	
145	Sukhamoy Ghoshal	15065538782	Eduvirtuso	
146	Susmita Swain	15065838785	Sea Geo Surveys	
	Sustifica Swalli	15005050705	Deloitte	
147	Utkarsh Chauhan	15066038787	(Advisory)	
148	Vishal Sahu	15066338790	Citrix	
149	Vivek Kumar	15066438791	Simplex Infrasture	
177	viver Kuillat	13000730731	Simplex initasture	

			Site Engg.	
150			Simplex Infrasture	
	Yash Srivastava	15066538792	Site Engg.	
151	Debarshi Sahoo	15066738794	HCC	
152	Anuvab Mohanty	15629544435	Tata Projects	TPL/Campus/2019/1322 09-Jan-2019
153	Ajeet kumar	15329141418	Global Archer	
154	Ankan Jana	15329541422	SPARC	
155	Anuttam Bhattacharjee	15329941426	TCS	
156	Bibaswan Manna	15330141428	DN Homes	
157	Geetansh Bhandari	15330441431	Lancesoft	
158	Kritika Talukdar	15330641433	Lancesoft	
159	Lohit Suryawanshi	15562643764	Pie Infocomm	
160	Saurav Kumar	15331341440	Simplex Infrasture Site Engg.	
161	Shovite Gaurav	15331541442	Vrednic	18.3.2019
162	Sreeparna Mandal	15331841445	Extra Marks	
163	Swagato Saha	15332141448	Shapoorji & Pallonji	00026026, 15.7.2019
164	Tushar Jha	15332441451	Wipro	00020020, 13.7.2017
	Soham	10002	Ultratech	
165	Chakraborty	15356741694	Cement	
166	Sudarshan Banerjee	15356941696	Vrednic	18.3.2019
167	Sachin Kumar Jha	15357241699	Eduvirtuso	
168	Siddhartha Bhowmik	15357941706	Kalpataru Playwood	
169	Bipul Kumar Rai	15358241709	Vrednic	18.3.2019
170	Mirza Mosahid Baig	15358541712	Simplex Infrasture Site Engg.	
171	Swastik Sarkar	15358641713	SPARC	
172	Akash Chakraborty	15358741714	Global Archer	
173	Melissa Dutta	15358941716	Wipro	April 12, 2019
174	Sakshi Patel	15359041717	Tech Mahindra	
175	Kaushiki Raj	15359141718	Deloitte (Advisory)	7.10.2019
176	Swapnil Behera	16005945008	Simplex Infrasture Site Engg.	
177	Mukul Sharma	16006345012	Extra Marks	

4.5 Professional Activities (20)

4.5.1 Professional societies/chapters and organizing engineering events (5)

(The Department shall provide relevant details)

List of societies and chapters are as follows

• KSCE

- ASCE
- ICE

C1	Name of the asserts	Data of arrait	Nymban
Sl.	Name of the events	Date of event	Number of participan ts
1	KSCE organised Alumni talk by Er. Vaibhav Rathore on Tunnel works and bridge construction	01/04/2022	50
2	KSCE organised Alumni meet 2010 Pass out Batch	03/04/2022	100
3	KSCE organised Interaction Session with Alumni Er. Karamvir Choudhary, Highway Manager, Aarvie Econ Ltd, C/O Bangalore International Airport Project Limited	09/04/2022	60
4	KIIT ASCE Student Chapter of School of Civil Engineering has organized Techno- Cultural event "CIVISTA".	9/4/2022	52
	, on 09-04-2022		
5	KSCE organised Interaction Session with Alumni Dr. Bikram Prasad, Assistant Professor, NIT Jalandhar on GATE Preparedness	03/09/2022	45
6	Under the supervision of the KIIT Society of Civil Engineers (KSCE), ASCE, ICE, and NSS held a celebration of Teachers Day on September 5, 2022	5/9/2022	100
7	On 15-09-2022 ASCE of School of Civil Engineering organized the event of Engineer's Day.	15/9/2022	70
8	On 29th September 2022, ASCE KIIT Student Chapter successfully	29/9/2022	50

			T T
	conducted an online workshop, with an active participation by student members, on Graphics Designing		
9	ASCE organized recruitment drive on 22.12.2022.	22/12/2022	70
10	KSCE "Speak and Search Lecture Series" on Environmental Awareness(Virtual platform) by Mr. Y. Rama Mohan Rao	06/02/2021	50
11	KSCE Alumni Meet with 2014 Pass out Students(Virtual platform)	14/03/2021	100
12	KSCE Yoga and Nature Therapy for Immune System and Life management(Virtual platform) by Dr.Biswabandita kar, Prof School of Applied Science and Director school of Yoga. KIIT DU.	04 /03/2021	95
13	KSCE Promoting Mental Health during Covid-19 Pandemic(Virtual platform) by Dr. Shree Mishra, Assistant Professor, Department of Psychiatry, AIIMS Bhubaneswar	22/05/2021	100
14	ASCE of The School of Civil Engineering organised a debate competition. The competition was named as "The Grand Verbattle" organized by the School of Civil Engineering.	7/11/21	65
15	ASCE members Interacted with the ABET Accreditation evaluator Dr.William Kitch on 08th November 2021	8/11/21	3

			T
16	KSCE Technical site visit by	31/01/2020	45
	Prof.Dipti Biswal		
	Prof.Mohibullah		
17	KSCE Enrollement of New	5/02/2020	
1 /	Members	3/02/2020	
10		12/02/2020	
18	Interactive session with Mr.	12/02/2020	53
	Amitabha Ghosal		
19	KSCE Civiwiz	14/02/2020	41
20	Technical Talk on "Small	07/03/2020	60
	Community Water and		
	Wastewater Treatment		
	by Dr. Achintya		
	Bezbaruah		
2.1		00.04.2020	0.2
21	KSCE Webinar on Career	09-04-2020	83
	Counselling and		
	Grooming Session		
22	KSCE Webinar on Scope for	20-04-2020	60
	girls in Civil		
	Engineering		
23	ICE Career Development	09-05-2020	50
23		09-03-2020	30
2.4	Webinar	15.04.2020	
24	ASCE Industrial interactive	17-06-2020	45
	session with Er. Nikesh		
	Ganesh Rathod		
25	My Life My Passion Series on	30/06/2020	50
	"Acoustics and Noise		
	Mapping" by Mrs.		
	Francesca Remigi		
	(CEng, UK) Alf		
	Greenwood,		
	Christopher Boydell		
26	ICE Alumni Meet Online	05-07-2020	50
	Series by Mr. Debajyoti		
	Saha and Mr. Rudroneel		
	Manna		
27	ASCE Interaction With New	17-07-2020	90
21	Members	17-07-2020	70
20		10.07.2020	02
28	KSCE Knowledge Forum – A	19-07-2020	83
	Guide to your future,		
	Lecture series by Dr.		
	Ashutosh Kumar		
	(Associate Professor at		
	IIT Mandi), Dr.		
	Deepanshu Shirole		
	<u> </u>		
	`		
	at Northwestern		
	University), Er. Bitan		
	Ghosh(Entrepreneur		
	and		

	Digital Nomad)		
20		20.07.2020	60
29	ASCE KIIT Chapter 2020-21	20-07-2020	60
	Membership drive		
	(online)		
30	ICE KIIT Chapter 2020-21	26-07-2020	70
	Recruitment Drive		
	(Online)		
31	ASCE Live Workshop on	26-07-2020	35
	Graphics Designing		
32	Introduction to ICE KIIT	02-08-2020	40
	Student Chapter		
	amongst Budding Civil		
	Engineers		
33	ASCE Webinar on Modern Day	02-08-2020	35
	Interview with Asish		
	Kumar Panda		
34	KSCE Webinar on Storm water	16-08-2020	90
	management by Prof.		-
	Debabrata Sahoo,		
	Associate Professor,		
	Department of		
	Agricultural Sciences,		
	South Carolina Water		
	Resource Centre,		
	Clemson University,		
	USA Cinversity,		
35	ICE Webinar on How to Face	16-08-2020	90
33	Fitness Challenges	10 00 2020	
	during Covid-19 on		
	Construction Sites		
36	ICE KIIT Quiz	18/10/2020	50
37	KSCE Technical talk on	3/08/2019	60
31	"Awakening	3/00/2017	00
	Giant:Nanotechnology		
	for the masses"by		
	1		
38	Dr.AchintyaBezbaruah KSCE Speak and Search	10/09/2010	55
38	1	10/08/2019	
	1		
	Ms.Padma Parija & Mr.		
20	Purnajit Bhowmik	16/09/2010	50
39	KSCE Speak and Search	16/08/2019	50
	Lecture Series by Mr.		
40	Ashish Raj	20/09/2010	50
40	KSCE Speak and Search	20/08/2019	50
	Lecture Series by Mr.		
4.1	Debarshi Sahoo	14/00/2010	4.5
41	KSCE Speak and Search	14/09/2019	45
	Lecture Series by Mr.		
1	Sourav Ghosh Dastider		

42	KSCE Speak and Search	21/09/2019	45
	Lecture Series by Ms.		
	Makida Amare		
43	KSCE Technical site visit	12/11/2019	60
44	KSCE Speak and Search	06/12/2019	50
	Lecture Series by Mr.		
	Salman Ashraf		
45	KSCE Technical site visit by	07/12/2019	50
	Dr.S.Maulick		

4.5.2 Publication of technical magazines, newsletters, etc. (5)

(The Department shall list the publications mentioned earlier along with the names of the editors, publishers, etc.)

	School of Civil Engineering Kalinga Institute of Industrial Technology (KIIT), Deemed to be University List of Journal Articles under KIIT University Affiliation												
Sl. No.	Name of the Faculty	Author Affiliation	Title of the Journal Article	Journal Title	Year of Publicatio n	Volume (Issue): Page No.	Impact Factor	Part of E- databases(Scopus / Web of Science)					
1	Malaya Mohanty; Rachita Panda; Srinivasa Rao Gandupalli; Ritik Raj Arya; Sarthak Kumar Lenka	KIIT DU KIIT DU GITAM DU KIIT DU KIIT DU	Factors propelling fatalities during road crashes: A detailed investigation and modelling of historical crash data with field studies	Heliyon	Nov-22		3.776	Scopus and Web of Science					
2	Md.Shahzar Intekhab; Swagato Das; M. Ahmad Jajnery; Salman Akhtar; Debarshi Sahoo Purnachandra Saha	KIIT DU C.V Raman Global University KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU	Analysis Methods of Irregular High- Rise Buildings Subjected to Seismic Loads	Journal of Vibration Engineering and Technologies	Jul-22		2.333	Scopus					

	1	ı	1	1		ı		
3	Malaya Mohanty; Rachita Panda; Srinivasa Rao Gandupalli; Didriksha Sonowal; Muskan Muskan; Riya Chakraborty; Mukund R. Dangeti	KIIT, DU KIIT, DU GITAM DU KIIT, DU NIT Agartala KIIT, DU GITAM DU	Development of crash prediction models by assessing the role of perpetrators and victims: a comparison of ANN & logistic model using historical crash data	International Journal of Injury Control and Safety Promotion	2022		2.603	Scopus & Web of Science
4	Saswat Mahapatra; Kundan Samal; Rajesh Roshan Dash	KIIT, DU KIIT, DU IIT Bhubaneswa r	Waste Stabilization Pond (WSP) for wastewater treatment: A review on factors, modelling and cost analysis	Journal of Environmenta I Management	Apr-22	Vol. 308, 114668	8.91	Scopus & Web of Science
5	Divyendu Tushar Disha Das Aparupa Pani Pratyasha Singh	KIIT, DU KIIT, DU KIIT, DU KIIT, DU	Geo- Engineering and Microstructural Properties of Geopolymer Concrete and Motar: A Review	Iranian Journal of Science and Technology, Transactions of Civil Engineering	Oct-21		NA	Scopus & Web of Science
6	Malaya Mohanty Yash Raj Subhangee Rout Utkarsh Tiwari Sagarika Roy Satyaranjan Samal	KIIT DU	Operational effects of speed breakers: A Case Study in India	European Transport \ Trasporti Europei	Mar-21	81 (01), pp 1-10	NA	Scopus & Web of Science
7	Kundan Samal Soham Kar Shivanshi Trivedi Sudhanshu Upadhyay	KIIT DU	Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes	SN Applied Sciences	Jan-21	03(01), 120	NA	Scopus & Web of Science
8	Kundan Samal NaushinYasmi n PriyaKumari	KIIT, DU	Challenges in the implementation of Phyto Fuel System (PFS) for wastewater treatment and harnessing bio- energy	Journal of Environmenta I Chemical Engineering	Oct-20	Vol. 8 (05), 104388	7.968	Scopus & Web of Science
9	Kundan Samal Shivanshi Trivedi	KIIT, DU	A statistical and kinetic approach to develop a Floating Bed for the treatment of wastewater	Journal of Environmenta I Chemical Engineering	Oct-20		7.968	Scopus

10	Kundan Samal S. Kar S. Trivedi	KIIT, DU	Ecological floating bed (EFB) for decontaminatio n of polluted water bodies: Design, mechanism and performance	Journal of Environmenta I Management	Dec-19	Vol. 251	8.91	Scopus & Web of Science
11	Kundan Samal AlakhRaj Mohan NabinChaudha ry Sanjib Moulick	KIIT, DU	Application of vermitechnolog y in waste management: A review on mechanism and performance	Journal of Environmenta l Chemical Engineering	Oct-19	7 (05), Article Number 103392	7.968	Scopus & Web of Science
12	Rishu Prasad S. K. S. Parashar	KIIT, DU	Structural and electromagnetic properties of nano cobalt ferrite polymeric thin film	Journal of Materials Science: Materials in Electronics	May-19	30(13), pp 12023- 12030	2.779	Scopus & Web of Science
13	K. Pareek S. Saha N. Gupta Purnachandra Saha	Nanhua University, Taiwan KIIT, DU KIIT, DU KIIT, DU	Effect of Recycled Aggregate on Mechanical and Durability Properties of Concrete	International Journal of Structural and Civil Engineering Research	May-19	8 (2), pp 119-125	NA	Google Scholar
14	Rishu Prasad A. E. Mohamoud S. K. S. Parashar	KIIT, DU KIIT, DU KIIT, DU	Enhancement of electromagnetic shielding and piezoelectric properties of White Portland cement by hydration time	Construction and Building Materials	Apr-19	204; pp 20-27	7.693	Scopus & Web of Science
15	Y. K. Sharma J. C. Pati A. Patel A. Jose Purnachandra Saha	KIIT, DU	Contribution of material properties on seismic behaviour of shear wall	International Journal of Research	Jul-18	5 (13), pp 224-232	NA	Google Scholar
16	R. Tripathy A. Chatterjee V. Vaishali P. Saha	KIIT, DU	Effect of material properties on the mechanical, thermal and acoustic properties of hollow blocks: A review	International Journal of Research	Jul-18	5 (13), pp 159-169	NA	Google Scholar
17	Biswaroop Ghosh A. K. Rath	KIIT, DU	Fly-Ash Pellets: A Replacement of Coarse Aggregate	International Journal of Technical Research and Applications	Aug-17	5 (2): pp 03-07	NA	Google Scholar

School of Civil Engineering Kalinga Institute of Industrial Technology (KIIT), Deemed to be University List of Book Chapters under KIIT University Affiliation

Sl. No	Name of the Facult y	Author Affiliat ion	Year Of Publication	Title of the Book Chapte r	Book Title	Publishe r	Volum e(issue) : Page no.	ISBN	Part of E- database s (Scopus/ Web of Science/ SCI)
1	Purnaj it Bhow mik; Gaura v Udgat a; Shivan shi Trived i	KIIT, DU	Apr-22	Risk Assess ment in Constr uction Industr y Using a Fuzzy Logic	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)— Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Springer	Volume 221, Pages 517 - 526	978- 981- 16- 8433- 3	Scopus
2	Sneha Sen; Akash Rai; Sanjib Moulic k	KIIT, DU	Apr-22	Manage ment of Bio-medical Wastes in a Multisp eciality Hospital in Bhuban eswar	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO- TRA-ENV- WRM, Lecture Notes in Civil Engineering Book Series	Springer	Volume 207, Pages 169 - 180	978- 981- 16- 7509- 6	Scopus
3	Soham Kar; Kunda n Samal	KIIT, DU	Apr-22	Hydro Econom y: Environ mental Sustaina bility of Water and Wastew ater	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO- TRA-ENV- WRM, Lecture Notes in Civil Engineering Book Series	Springer	Volume 207, Pages 181 - 197	978- 981- 16- 7509- 6	Scopus

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				Resourc es and Infrastr ucture					
4	Anime sh Maury a; Amina Khana m; Malay a Mohan ty	KIIT, DU	Apr-22	Cleaner City Throug h Lesser Noise: Traffic Noise Modell ing	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO- TRA-ENV- WRM, Lecture Notes in Civil Engineering Book Series	Springer	Volume 207, Pages 741 - 756	978- 981- 16- 7509- 6	Scopus
5	Manis ha Mohan ty; Ipsita Panda	KIIT, DU	Apr-22	Assess ment of Food Waste as Suitabl e Adsorb ent for Remov al of Chromi um (vi) from Synthet ic Waste Water	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO- TRA-ENV- WRM, Lecture Notes in Civil Engineering Book Series	Springer	Volume 207, Pages 757 - 778	978- 981- 16- 7509- 6	Scopus
6	Biswar oop Ghosh Ashoke Kumar Rath	KIIT, DU	Jul-20	Use of Autocla ved Fly- Ash Aggreg ates in Concret e Mixture	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Springer		978- 981- 15- 4576- 4	Scopus
7	Rudran i Das Amit Gangul y Purnac handra Saha	KIIT, DU	Jul-20	Differen t Techniq ues Used For Well Foundat	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Springer		978- 981- 15- 4576- 4	Scopus

				ion Constru ction Focused On Pneuma tic Cassion Techniq ue: A Review				
8	Gaurav Udgata Purnaji t Bhow mik Silpa P Das	KIIT, DU	Jul-20	Effect of Lime on Mechan ical Properti es of Silica Fume Modifie d Concret e	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Springer	978- 981- 15- 4576- 4	Scopus
9	Omkar Ghosh Sourav Das	KIIT, DU	Jul-20	Optimal Design of Hysteret ic Nonline ar Energy Sink for Suppres sion of Limit Cycle Oscillati ons of a Flappin g Airfoil	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Springer	978- 981- 15- 4576- 4	Scopus
10	Sneha Sen Purnac handra Saha	KIIT, DU	Jul-20	The Perform ance of Geopol ymer Concret e Utilizin g Wastes As Binder	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Springer	978- 981- 15- 4576- 4	Scopus

11	A. Patnaik V. Kumar Purnac handra Saha KIIT, DU	Jun-18	Importa nce of Indoor Environ mental Quality in Green Buildin gs	Environmental Pollution	Springer	PP 53- 64	978- 981- 10- 5792- 2	Google Scholar	
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School of Civil Engineering Kalinga Institute of Industrial Technology (KIIT), Deemed to be University List of Conference Proceedings under KIIT University Affiliation

Sl. No	Name of the Faculty	Year of Publicatio n	Title of the Conference Paper	Conference Title	Date of Conferenc e	Place of Publication : Publisher	National / Internationa l
1	M. Mohanty S. R. Samal Yash Raj Subhangee Rout Utkarsh Tiwari Sagarika Roy	Mar-20	Performance Analysis of Speed Breakers: A Case Study in India	2nd ASCE India Conference	2nd - 4th March 2020	Novotel, Kolkata	National
2	N. Gupta T. Barik S. Dey Purnachandr a Saha	Feb-19	Effect of Wind and Seismic forces on different Components of Cable Suspension Bridge: An Overview	Proceedings of National Conference on Advances in Structural Technologie s (CoAST- 2019)	1st - 3rd February 2019	NIT Silchar, India	National
3	P. Sen M. Kumar P. Shukla Purnachandr a Saha	Feb-19	The Aerodynami c and Seismic Behaviour of Cable- Stayed Bridge	Proceedings of National Conference on Advances in Structural Technologie s (CoAST-	1st - 3rd February 2019	NIT Silchar, India	National

				2019)			
4	K. Pareek Purnachandr a Saha	Feb-19	Basalt Fiber and Its Composites: An Overview	Proceedings of National Conference on Advances in Structural Technologie s (CoAST- 2019)	1st - 3rd February 2019	NIT Silchar, India	National
5	A. Singh A. Ghoshal A. Singh Purnachandr a Saha	Feb-19	Organic and Inorganic Elements Used for Co2 Absorption in Concrete	Proceedings of National Conference on Advances in Structural Technologie s (CoAST- 2019)	1st - 3rd February 2019	NIT Silchar, India	National
6	S. Mondal S. De Purnachandr a Saha	Feb-19	Removal of VOCs and Improvemen t of Indoor Air Quality Using Activated Carbon Air Filter	Proceedings of National Conference on Advances in Structural Technologie s (CoAST- 2019)	1st - 3rd February 2019	NIT Silchar, India	National

S.NO.	Name of the News Letter	Year
1.	NIRMINITE	2017 onwards
2.	Project Expo	2018 onwards
3.	KIIT R&D Newsletter	2021 onwards
4.	ICRDSI	2019 onwards
5.	International Conference on Sustainable Waste	2019
	Management towards Circular Economy	

${\bf 4.5.3\;Name\;of\;the\;Editors\;In\;Technical\;Magazines}$

SI . N o.	Name of the Editor	Title of the book/cha pters published	Title of the proceedi ngs of the conferen ce	Name of the conferen ce	National / Internati onal	Year of publica tion	ISBN/ISSN number of the proceeding	Affiliati ng Institut e at the time of publica tion	Name of the publish er
1	Purnacha ndra Saha,	Lecture Notes in Civil Engineeri ng, Recent Developm ents in Sustainabl e Infrastruct ure Select Proceedin gs of ICRDSI 2019	Lecture Notes in Civil Engineeri ng, Recent Develop ments in Sustainab le Infrastruc ture Select Proceedin gs of ICRDSI 2019	Internatio nal Conferen ce on Recent Develop ments in Sustainab le Develop ments (Material s & Managem ent) 2019	Internatio nal	2021	978-981-15-5001- 0	KIIT DU	Springer Internati onal
2	B G Mohapat ra	Lecture Notes in Civil Engineeri ng, Recent Developm ents in Sustainabl e Infrastruct ure Select Proceedin gs of ICRDSI 2019	Lecture Notes in Civil Engineeri ng, Recent Develop ments in Sustainab le Infrastruc ture Select Proceedin gs of ICRDSI 2019	Internatio nal Conferen ce on Recent Develop ments in Sustainab le Develop ments (Material s & Managem ent) 2019	Internatio nal	2021		KIIT DU	Springer Internati onal

3	S Nanda	Lecture Notes in Civil Engineeri ng, Recent Developm ents in Sustainabl e Infrastruct ure Select Proceedin gs of ICRDSI 2020	Lecture Notes in Civil Engineeri ng, Recent Develop ments in Sustainab le Infrastruc ture Select Proceedin gs of ICRDSI 2019	Internatio nal Conferen ce on Recent Develop ments in Sustainab le Develop ments (Material s & Managem ent) 2019	Internatio nal	2021		KIIT DU	Springer Internati onal
4	B G Mohapat ra	Circular Eeonomy in the Constructi on Industry	Circular Eeonomy in the Construct ion Industry	9 th Internatio nal Conferen ce on Sustainab le Waste Managem ent towards Circular Economy 2019	Internatio nal	2021	ISBN: 978-1-032- 10896-4	KIIT DU	CRC Press

4.5.4 Name of the Editors and Student Coordinators In Technical Magazines

Name of the student	Designation	Name of the magazines
Salman Ashraf	General Secretary	NIRMINITE- 2019
Sourav Roy	Chief Designer	NIRMINITE- 2019
Arijit Guha	Co-Chief Designer	NIRMINITE- 2019
Satej Kundu	Designer & Documentation	NIRMINITE- 2019
Soumya Sayan Pal	Documentation	NIRMINITE- 2019
Jyoti Prakash Jena	General Secretary	NIRMINITE- 2018
Debarshi Sahoo	Chief Designer	NIRMINITE- 2018
Tanmoy Barik	Co-Chief Designer	NIRMINITE- 2018
Vikas Kumar Kushwaha	Logo Designer	NIRMINITE- 2018
Aritra Das Adhikari	Assistant Designer	NIRMINITE- 2018
Souvik Sarkar	Designer & Documentation	NIRMINITE- 2018
Ranajoy Mukherjee	Documentation	NIRMINITE- 2018
Devroop Ghosh	Documentation	NIRMINITE- 2018
Bidesh Das	Documentation	NIRMINITE- 2018
Aditya Divyadarshi	General Secretary	NIRMINITE- 2017
Vikas Kumar Kushwaha	Graphics Designer	NIRMINITE- 2017
Dhruvojyoti Nath	Graphics Designer	NIRMINITE- 2017

Geetansh Bhandari, Ayush Rey	Member	NIRMINITE- 2017
Yadav, Nikhil Thawani,		
Salman asheaf and		
achintya Tushar Jha		

Name of the Paper Published In the Technical Magagine (ICRDSI) $\,$

Sl. No.	Name of the Author	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication
1	Paromik Ray Dillip Kumar Bera Ashoke Kumar Rath	Genetic Algorithm: An Innovative Technique For Optimizing A Construction Project	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
2	Srishti Saha Tribikram Mohanty Purnachandra Saha	Mechanical properties of fly ash and ferrochrome ash based geopolymer concrete using recycled aggregate	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
3	Pratik Sen Purnachandra Saha	Seismic Performance of Polynomial Friction Pendulum Isolator (PFPI) on Benchmark Cable- Stayed Bridge	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
4	Wubshet Gebru Ashoke Kumar Rath Dillip Kumar Bera	Individual and Combined Effect of Nano and Micro Silica on Cement Based Product	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
5	B. Jena	Limit State Design and Factor of Safety: An Overview	Lecture Notes in Civil Engineering, Recent	International Conference on Recent Developments in	International	Jul-20

6	Smruti Pal Ipsita Mohanty Ipsita Panda	Self Healing Conventional Concrete Using Bacteria	Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019 Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	Sustainable Developments (Materials & Management) 2019 International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
7	Biswaroop Ghosh Ashoke Kumar Rath	Use of Autoclaved Fly-Ash Aggregates in Concrete Mixture	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
8	Abhipsa Guru Mohibullah	Exploring the Acceptance of Life Cycle Cost for Residential Projects in India	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
9	Dolasankar Sahu Mohibullah	Genetic Algorithm for Resource Levelling Problem in Construction Projects	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
10	Rajarshi Patty Dillip Kumar Bera A.K. Rath	Strategies for Construction and Destruction (C&D) Waste Management	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
11	Chandan Kumar Majhi Satyajeet	An Approximate Cost Equation of Offshore Wind	Lecture Notes in Civil Engineering,	International Conference on Recent	International	Jul-20

	Nanda R.C Pradhan B. G. Mohapatra	Turbine Blade	Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019 Lecture Notes in	Developments in Sustainable Developments (Materials & Management) 2019		
12	Rudrani Das Amit Ganguly Purnachandra Saha	Different Techniques Used For Well Foundation Construction Focused On Pneumatic Cassion Technique : A Review	Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
13	T. Shil R. Pradhan S. Nanda B. G. Mohapatra	Strengthening of Soil Subgrade Using Bio-Enzyme	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
14	Paromik Ray Dillip Kumar Bera Ashoke Kumar Rath	Comparison Between the Tunnel Form System Formwork and the MIVAN Formwork System in a Multi-Unit Building Project	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
15	Paromik Ray Dillip Kumar Bera Ashoke Kumar Rath	Time Cost Optimization Using Genetic Algorithm of A Construction Project	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
16	S. S. Panda Subham Ghosh B. Jena	Yield Behavior of Three Edge Simply Supported Two Way Slab Under Concentrated Loading	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20

17	Kshyana Prava Samal G. C. Mishra Nayan Sharma	Analysis of Seepage from a Triangular Furrow with Negligible Free- Board Considering Soil Capillarity using Inverse Hodograph and Conformal Mapping	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
18	Bandita Paikaray Sarat Kumar Das B.G. Mohapatra Sahil Pritam Swain Sabyasachi Swain	Bearing Capacity Analysis Based on Optimization of Single Layer Depth of Reinforcement Below Rectangular Footing	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
19	Saismrutiranjan Mohanty Sanjib Moulick Sanjoy Maji	Decolorization of Congo Red Using Synthesized Titanate Nanotubes (TNTs)	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
20	Asheena Sunny Nitin Gusain	Optimization of percentage of AR glass fibre addition to flyash based self consolidating concrete	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
21	Srishti Saha Tribikram Mohanty Purnachandra Saha	Performance of Concrete with Marble Dust as Supplementary Material: A Review	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
22	Bidisha Byabartta Tanmoy Majumder Paromita Chakraborty Jyotiprakash Padhi	A Review: Effect of Turbidity Current on the Reservoir Sedimentation	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select	International Conference on Recent Developments in Sustainable Developments (Materials & Management)	International	Jul-20

	Bitanjaya Das		Proceedings of ICRDSI 2019	2019		
23	Debarshree Biswajit Jena Kaliprasanna Sethy Ashish Pani Kirti Kanta Sahoo	Mechanical Properties of Self- compacting Concrete Made of Glass Fibre	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
24	Ashish Pani Kirti Kanta Sahoo	Study on Mechanical Properties of Steel Fibre Concrete	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
25	Abhijeet Prasad Dash Kirtikanta Sahoo	Sustainable Infrastructures (Materials & Management) – High Strength Nano Concrete with the replacement of Nano Flyash	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
26	Lovely Sabat Chinmay Kumar Kundu	Torsional Buckling Analysis of a Bar Member	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
27	Swabarna Roy Chinmay Kumar Kundu	Design and Analysis of Transmission Tower Under Wind Loading	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
28	Swabarna Roy Chinmay Kumar Kundu	Structural Optimization of Microwave Antenna Tower Subjected to Wind Load	Lecture Notes in Civil Engineering, Recent Developments in Sustainable	International Conference on Recent Developments in Sustainable Developments	International	Jul-20

			Infrastructure	(Materials &		
			Select	Management)		
			Proceedings of	2019		
29	Brundaban Beriha Umesh Chandra Sahoo	Design of Long- Life Pavements for India	ICRDSI 2019 Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019 Lecture Notes in	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019 International	International	Jul-20
30	Sourav Sarkhel Jyotiprakash Padhi Anil Kumar Dash	Seismic Analysis of a Concrete Gravity Dam Using ABAQUS	Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
31	Neha Nasreen Ashok Kumar khan Sitam Suvam Jena	Performance study of single helix embedded in cohesionless soil under pullout load	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
32	Bhagyashree Panda Nazia T Imran Kundan Samal	A Study on Replacement of Coarse Aggregate with Recycled Concrete Aggregate (RCA) in Road Construction	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
33	Jyoti Ranjan Barik Purnachandra Saha	Seismic Control of Benchmark Highway Bridge Using Fiber Reinforced Elastomeric Isolator	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
34	Gaurav Udgata Purnajit Bhowmik Silpa P Das	Effect of Lime on Mechanical Properties of Silica Fume Modified Concrete	Lecture Notes in Civil Engineering, Recent Developments in	International Conference on Recent Developments in Sustainable	International	Jul-20

			Sustainable	Developments		
			Infrastructure	(Materials &		
			Select	Management)		
			Proceedings of ICRDSI 2019	2019		
35	Raja Sekhar Mamillapalli Ashok Kumar Rath Dilip Kumar Bera	Studies on Integration of Lean Construction and Sustainability in Indian Real Estate Projects	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
36	Omkar Ghosh Sourav Das	Optimal Design of Hysteretic Nonlinear Energy Sink for Suppression of Limit Cycle Oscillations of a Flapping Airfoil	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
37	Ankit Kumar Sumon Saha Rana Chattaraj	Soft Clay Stabilization With Steel Slag	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
38	Suresh Chandra Pattanaik Sanjaya Kumar Patro Bitanjaya Das	Polymeric Materials for Repair of Distressed Concrete Structures	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
39	Jyotiprakash Padhi Abhilash Mishra Shubham Choudhary Bitanjaya Das	Water Resource Management During Monsoon Months Based on SPI And CZI in Khordha District, India	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
40	Sushree Sasmita Dudam Bharath Kumar	Seasonal Variability of Satellite-Derived Aerosol Optical	Lecture Notes in Civil Engineering, Recent	International Conference on Recent Developments in	International	Jul-20

41	Lovely Sabat Chinmay Kumar Kundu	Depth in Smart City, Bhubaneshwar History of Finite Element Method	Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019 Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of	Sustainable Developments (Materials & Management) 2019 International Conference on Recent Developments in Sustainable Developments (Materials & Management)	International	Jul-20
42	S. S. Panda B. Jena	Yield Behaviour of Two-Way Reinforced Concrete Flyash Brick Slab	ICRDSI 2019 Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
43	Arani Dutta Narayan Chandra Moharana	Mechanical and Durability Properties of Fly Ash-Based Geopolymer Concrete	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
44	Vishal Singh B.G. Mohapatra	Parametric study on foundation retrofitting using Micro-piles	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
45	Rohita Kumar Sethi Prabhash Kumar Mishra Deepak Khare Kshyana Prava Samal	Modelling Sea Water Intrusion in the Eastern Coast Adjacent to Ersama and Kujanga Blocks of Odisha, India	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
46	Tribikram Mohanty Bhargavi	Durability Properties of Self Compacting	Lecture Notes in Civil Engineering,	International Conference on Recent	International	Jul-20

	Nandan Patra Purnachandra Saha	Concrete Using Silica Fume	Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	Developments in Sustainable Developments (Materials & Management) 2019		
47	Arnab Debnath Sumon Saha Rana Chattaraj	Stabilization of Clayey Soil With Marble Dust	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
48	Sneha Sen Purnachandra Saha	The Performance of Geopolymer Concrete Utilizing Wastes As Binder	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
49	Rachita Panda Tanmaya Kumar Sahoo	Effect of Replacement of GGBS and Fly Ash with Cement in Concrete	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
50	Anuradha Panda Bitanjaya Das Jyotiprakash Padhi Paromita Chakraborty	Groundwater Level Trend Analysis for Sustainble Extraction and Use in Coastal Odisha	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
51	Amarendra Kr. Mohapatra Dillip Kumar Bera A. K. Rath	Effect of Silica Fume on Strength Enhancement of Geo-polymer Mortar in Ambient Curing	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20

52	B. K. Das S. K. Das B. G. Mohapatra	Red Mud As A Controlled Low Strength Material	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
53	Srishti Saha Joyanta Pal	A Study on Properties of Concrete Using Silica Fume and Brick Aggregate	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
54	Divyajit Das Bhubaneswari Bisoyi Ipseeta Satpathy Biswajit Das	Urban Infrastructure and Special Economic Zone (SEZ): Challenges for Corporate Land Alienation	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Jul-20
55	Bandita Paikaray; Sarat Kumar Das; Benu Gopal Mohapatra; Sweta Sarang	Behavior of Rectangular Footing on Geosynthetic Reinforced Crusher Dust (Book Chapter)	Lecture Notes in Civil Engineering, Recent Developments in Sustainable Infrastructure Select Proceedings of ICRDSI 2019	International Conference on Recent Developments in Sustainable Developments (Materials & Management) 2019	International	Oct-20

Sl. No.	Name of the Author	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication
1	M. Mohanty S. R. Samal	Road crashes among adolescents: A case study	International Conference on Recent Development in Sustainable Infrastructures (Materials & Management) ICRDSI 2019	International Conference on Recent Development in Sustainable Infrastructures (Materials & Management) ICRDSI 2019	International	Jul-19

2	S. R. Samal M. Mohanty	Development of flexible pavement cost models for weak subgrade stabilized with fly ash and lime	Proceedings of The 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19
3	Bittu Ghosh D. Bharath Kumar Mohibullah	Role of GHG Emissions from Livestock Waste Controlling to Climate over India: A short Review	Proceedings of the 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19
4	B. Jena K. K. Sahoo	Mechanical Properties and Chloride Content on Self Compacting Concrete Exposed to Sea Water	Proceedings of The 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19
5	Dudam Bharath Kumar	Study on Improvement of Strength in Weak Soil using Rice Husk	Proceedings of The 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19
6	Dudam Bharath Kumar S. Jayalekshmi	Effect of Temperature on Adsorption of Municipal Solid Waste Leachate using Soil as an Adsorbent	Proceedings of The 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19
7	Sushree Sasmita Dudam Bharath Kumar	Study of water and wastewater treatment at Hindustan Coca- cola Pvt. Ltd. At Khurda, Odisha, India	Proceedings of The 9th International Conference on Sustainable Waste Management towards Circular Economy	The 9th International Conference on Sustainable Waste Management towards Circular Economy	International	Nov-19

4.5.5 Participation in inter-institute events by students of the program of study (10)

(The Department shall provide a table indicating those publications, which received awards in the events/conferences organized by other institutes)

Sl.	Year	Title of the	Name of the	Name of the Awarding Agency w	ith
no.	of	innovation	Awardee	contact details (Address, Phone	4 = 7
	Award			number, email ID)	157

1	2023	Student exchange programe	Navasree Das	CyTech, France
2	2023	Odisha club power lifting championship 2023	Amritanshu Sahoo	Odisha state power lifting association
3	2022	Youth Exchange Program	Navasree Das	AIESEC, Egypt
4	2022	Long jump and 100 m race	Shatakshi Rai	68 th Odisha Athletics Championship
5	2022	Odisha state power lifting championship 2022	Amritanshu Sahoo (3 rd)	Odisha state power lifting association
6	2022	Odisha state power lifting championship 2022	Amritanshu Sahoo (1 st)	Odisha state power lifting association
7	2021	Best innovative structural design	Soham De, Debdatta Chakraborty, Sourav Paul and Shubham Singh	Institute of Steel Development and Growth (INSDAG), Ministry of Steel, India
8	Urban FSSM Fellow 2021	Champion of the Week by Ernst & Young	Rajarshi Paty	E & Y LLP
9	Urban FSSM Fellow 2021	Recognition for best service as a Urban FSSM Fellow	Mohammad Shahnawaz Ansari	E & Y LLP
10	2021	Selected for MITACS Globalink Research Internship (GRI) ,University of Alberta-Edmonton	Naushin Yasmin	University of Alberta-Edmonton, Government of Canada
11	2021	Selected for NTU- India Connect Research Internship Programme, Nanyang Technological	Naushin Yasmin	Nanyang Technological University, Singapore
12	2021	Selected for DAAD WISE Internship Programme,	Naushin Yasmin	Universitat Duisburg-Essen, Germany
13	2020	Best innovative structural design	Salman Ashraf	Institute of Steel Development and Growth (INSDAG), Ministry of Steel, India
14	2020	Best innovative structural design	Shubham	Institute of Steel Development and Growth (INSDAG), Ministry of Steel, India

15	2020	Best innovative structural design	Debarshi Sahoo	Institute of Steel Development and Growth (INSDAG), Ministry of Steel, India
16	2020	Best innovative structural design	Nikil Tawani	Institute of Steel Development and Growth (INSDAG), Ministry of Steel, India
17	2020	Harvesting Clean Energy from Wastewater by Membranes	Naushin Yasmin	Globalink Research Internship (GRI) ,University of Alberta-Edmonton
18	2020	Advantages of steel in infrastruction construction	Debarshi Sahoo	Ispati Irada Brand Campaign, Ministry of steel
19	2020	Bridge Builder	Debarshi Sahoo	Techfest,IIT Bombay
20	2020	67 th Senior National Kabaddi Championship	Shiv Kumar Yadav	Govt. of India
21	2020	Best Player, IIIT BBSR University Fest	Hasman Isabel Pedro	IIT Bhubaneswar
22	2020	Basketball Winner, BGU Inter University Sports fest	Hasman Isabel Pedro	BGU Inter University
23	2020	Woman Finals Winner, BGU Inter University Sports meet	Hasman Isabel Pedro	BGU Inter University
24	2020	IIT KGP, Spring Fest 2020, Band Performance	Rohan Sinha	IIT Kharagpur
25	2020	IIT BBSR Alma Fiesta, Upbeat event 1st position	Rohan Sinha	IIT Bhubaneswar
26	2020	Youth Exchange Program	Navasree Das	AIESEC, Egypt
27	2019	Globalink Research Internship (MITAC),	Soham Kar	Govt. Of CANADA ,Concordia University, Montreal
28	2019	Tannery Wastewater Treatment Model Exibition	Vaibhav Rathore	Megalith 2019 Organised by IIT Kharagpur
29	2019	Tannery Wastewater Treatment Model Exibition	Parthiva Shome	Megalith 2019 Organised by IIT Kharagpur

30	2019	Tannery Wastewater Treatment Model Exibition	Kasorina Golui	Megalith 2019 Organised by IIT Kharagpur
31	2019	Tannery Wastewater Treatment Model Exibition	Mridul Das	Megalith 2019 Organised by IIT Kharagpur
32	2019	2nd prize in Encode Steel(A Structural Design Challenge) at Techfest	Debarshi Sahoo	IIT Bombay
33	2019	2nd prize in Encode Steel(A Structural Design Challenge) at Techfest	Sourav Paul	IIT Bombay
34	2019	2nd prize in Encode Steel(A Structural Design Challenge) at Techfest	Sayan Dey	IIT Bombay
35	2019	2nd prize in Encode Steel(A Structural Design Challenge) at Techfest	Debdatta Chakraborty	IIT Bombay
36	2019	3rd prize in AutoCAD at Annual Techfest"Megalith"	Shubham Chowdary	Civil Engineering Department, IIT Kharagpur
37	2019	3rd prize in AutoCAD at Annual Techfest"Megalith"	Rishab Sharma	Civil Engineering Department, IIT Kharagpur
38	2019	2nd prize in Edifice at Annual Techfest "Megalith"	Biswa Ranjan Jena	Civil Engineering Department, IIT Kharagpur
39	2019	2nd prize in Edifice at Annual Techfest "Megalith"	Debapriya Bandopadhyay	Civil Engineering Department, IIT Kharagpur
40	2019	2nd prize in Edifice at Annual Techfest "Megalith"	Manish Kumar Sahoo	Civil Engineering Department, IIT Kharagpur
41	2019	2nd prize in Edifice at Annual Techfest "Megalith"	Rohit Patel	Civil Engineering Department, IIT Kharagpur

42	2019	2nd prize in Model Exhibition at Annual Techfest of Civil Engineering Department, IIT Kharagpur "Megalith" 2019	Debarshi Sahoo	Civil Engineering Department, IIT Kharagpur
43	2019	2nd prize in Model Exhibition at Annual Techfest of Civil Engineering Department, IIT Kharagpur "Megalith" 2019	Sourav Paul	Civil Engineering Department, IIT Kharagpur
44	2019	2nd prize in Model Exhibition at Annual Techfest of Civil Engineering Department, IIT Kharagpur "Megalith" 2019	Sayan Dey	Civil Engineering Department, IIT Kharagpur
45	2019	2nd prize in Model Exhibition at Annual Techfest of Civil Engineering Department, IIT Kharagpur "Megalith" 2019	Debdatta Chakraborty	Civil Engineering Department, IIT Kharagpur
46	2018	Tannery Wastewater Treatment(Best Entry in innovation Challenge)	Subhojit Das	IIT Kharagpur
47	2018	Globalink Research Internship (MITAC)	Jyoti Prakash Jena	IIT Kharagpur
48	2018	1st prize in Model Exhibition (Bridge) at Annual Techfest"Megalith"	Nayan Gupta	Civil Engineering Department, IITKharagpur
49	2018	1st prize in Model Exhibition (Bridge) at Annual Techfest"Megalith"	Parth Shukla	Civil Engineering Department, IITKharagpur
50	2018	1st prize in Model Exhibition (Bridge) at Annual Techfest"Megalith"	Pritam Shina	Civil Engineering Department, IITKharagpur
51	2018	1st prize in Model Exhibition (Bridge)	Manish Kumar	Civil Engineering Department, IITKharagpur

		at Annual Techfest"Megalith"		
52	2018	1st prize in Model Exhibition (Bridge) at Annual Techfest"Megalith"	Anand Kishor	Civil Engineering Department, IITKharagpur

CRITERION 5	Faculty Information and Contributions	200
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S 1 N o	Name	PA N No.	Unive rsity Degre e	Date of Recei ving High est Degr	Area of Special ization	Resea rch Pape r Publi catio n	Ph. D Gui danc e	Facul ty recei ving Ph. D durin g the asses smen t	Curre nt Desig natio n	Date (Desi gnate d as Prof / Assoc . Prof.)	Init ial Dat e of Joi nin g	Assoc iation Type	At prese nt work ing with the Instit ution (Yes / No)	In case of NO, Dat e of Lea vin g	IS HOD / Prin cipal ?
		BJD			Transp			year	Assist		01-		7 110)	01-	
	Aditya	PD9	M.E/	14-	ortatio				ant		07-			03-	
	Kumar	745	M.Tec	12-	n				Profes		201	Regul		202	
1	Das	Е	h	2012	Engg.				sor		4	ar	No	1	No
	Amit	AU HPD	ME/M . Tech	07-	Transp ortatio				Assist ant		03- 12-				
	Kumar	9235	and	03-	n				Profes		201	Regul			
2	Das	D	PhD	2022	Engg.	2			sor		8	ar	Yes		No
		AU	ME/M		- 20				Assist		20-			11-	
	Anil	BPD	. Tech	22-	Structu				ant		06-			03-	
	Kumar	1813	and	03-	ral				Profes		201	Regul		202	
3	Dash	F	PhD	2016	Engg.				sor		6	ar	No	0	No
4	Aparupa Pani	BFI PP3 393 B	ME/M . Tech and PhD	09- 07- 2019	Geotec h. Engg	3	1		Assist ant Profes sor		02- 08- 201 0	Regul ar	Yes		No
		ETH			_				Assist		17-				
	A .1	PS5	M.E/	22.02	Structu				ant		01-	D 1			
5	Asheena Sunny	662 E	M.Tec h	22.02	ral Engg.	2			Profes sor		201 7	Regul ar	Yes		No
		AU	ME/M						Assoc		17-	aı	168		110
6	Asish Kumar Pani	APP 2236 R	. Tech and PhD	02- 09- 2021	Structu ral Engg.	5			iate Profes sor	15- 09- 2016	04- 200 7	Regul ar	Yes		No
		CA	ME/M						Assist		18-				
	D D	DPS	. Tech	13-	G1 .				ant		02-	D 1			
7	B. P.	1562	and PhD	06- 2008	Chemis				Profes		201	Regul	Yes		No
7	Sahoo	E AH	ME/M	2008	try				sor		3 01-	ar	ies		No
		GPK	. Tech	30-						11-	03-				
		1039	and	03-	Chemis				Profes	07-	200	Regul			
8	B.B. Kar	C	PhD	2001	try				sor	2012	5	ar	Yes		No
		APV	ME/M						Assoc		31-				
	D 11.	PP9	. Tech	09-	Geotec				iate	15-	07-	D .			
9	Bandita Paikaray	756	and PhD	11- 2019	h. Enga	8	2		Profes	09- 2016	200 8	Regul	Vac		No
9	Banu	L AG	ME/M		Engg	0	2		sor		01-	ar	Yes		INO
	Gopal	TPB	. Tech	01-	Geotec			_	Profes	06-	07-	Regul			
1	Mohapatr	5462	and	09-	h.	18	3	4	sor	06-	201	ar	Yes		No
0	a	C	PhD	2001	Engg					2012	0				
		ABP	ME/M . Tech	10-	Structu					02-	02- 08-				
1	Bhagabat	PJ31	and	07-	ral				Profes	08-	200	Regul			
1	Jena	38C	PhD	1970	Engg.	6	2		sor	2007	7	ar	Yes		No

		BKE			Transp				Assist		06-				
	Bhagyas	PP7	M.E/	18-	ortatio				ant		07-				
1	hree	201	M.Tec	01-	n				Profes		201	Regul			
2	Panda	F	h	2014	Engg.	4			sor		3	ar	Yes		No
		AH	ME/M		Water						01-				
		LPD	. Tech	16-	Resour					01-	09-				
1	Bitanjaya	8458	and	12-	ces				Profes	09-	200	Regul			
3	Das	K	PhD	1993	Engg.	19	5	4	sor	2004	4	ar	Yes		No
		BEL	ME/M	20-	Transp				Assist		27-				
	Brundaba	PB0	. Tech	20- 10-	ortatio	4	1		ant		06-	Regul	Yes		No
1	n Beriha	104	and	2020	n	4	1		Profes		201	ar	168		NO
4		G	PhD	2020	Engg.				sor		9				
		ASA	ME/M						Assoc		01-				
	Chinmay	PK9	. Tech	15-	Structu				iate	01-	09-				
1	Kumar	113	and	09-	ral				Profes	09-	201	Regul			
5	Kundu	E	PhD	2007	Engg.	11	3	0	sor	2015	5	ar	Yes		No
		AK	ME/M		Constr				Assoc		03-				
	Dillip	GPB	. Tech	12-	uction				iate	01-	01-				
1	Kumar	5659	and	11-	Manag				Profes	09-	200	Regul			
6	Bera	Q	PhD	2016	ement	17	4	2	sor	2016	5	ar	Yes		No
	Dipti	AN	ME/M	18-	Transp				Assoc	18-	18-				
	Ranjan	WP	. Tech	05-	ortatio	5	4		iate	06-	06-	Regul	Yes		No
1	Biswal	B66	and	2018	n	3	_		Profes	2018	201	ar	103		140
7	Diswai	52Q	PhD	2010	Engg.				sor	2010	8				
		BC	ME/M		Enviro				Assist		01-				
	Dudam	MP	. Tech	07-	nmenta				ant		07-	Regul			
	Bharath	B13	and	08-	1	11	1		Profes		201	ar	Yes		No
1	Kumar	22F	PhD	2017	Engine				sor		7	aı			
8			11112		ering										
		AEZ							Assist		23-				
		PU3	M.E/		Structu				ant		06-				
1	Gaurav	397	M.Tec	31.05	ral				Profes		201	Regul			
9	Udgata	R	h	.2016	Engg.	4			sor		6	ar	Yes		No
		AL	ME/M						Assoc		23-				
	Himansh	UPP	. Tech		Structu				iate	23-	01-				
2	u Sekhar	7236	and	28.03	ral				Profes	01-	201	Regul			
0	Panda	Q	PhD	.2016	Engg.	1			sor	2017	7	ar	Yes		No
		AV	M.E/	05-	Structu				Assist		23-				
	Ipsita	CP	M.Tec	02-	ral	1			ant		06-	Regul	Yes		No
2	Mohanty	M07	h	2016	Engg.	1			Profes		201	ar	105		110
1		42J		_010	55.				sor		7				
		CW	M.E/	16-	Geotec				Assist		04-				
	Ipsita	SPP	M.Tec	01-	h.	2			ant		07-	Regul	Yes		No
2	Panda	9150	h	2016	Engg	_			Profes		201	ar	1 -0		_,,
2		L			05				sor		7			4.0	
		APF	ME/M						Assist		27-			10-	
_		PD3	. Tech	22.5	Geotec				ant		06-	ъ .		08-	
2	Jagori	424	and	22.06	h.				Profes		201	Regul	**	202	
3	Dutta	F	PhD	.2016	Engg				sor		6	ar	No	1	No
		BIB	ME/M	17-	Water				Assoc	01-	06-				
	Jyotiprak	PP5	. Tech	04-	Resour	9	2		iate	09-	07-	Regul	Yes		No
2	ash Padhi	986J	and	2010	ces		_		Profes	2016	201	ar	1 -0		_,,
4			PhD	_010	Engg.				sor	_010	2				
		AX									10-				
		KPP	M.Sc.	06-	~					01-	08-				
2	K.	1089	and	09-	Chemis				Profes	03-	200	Regul			
5	Parashar	R	PhD	2004	try				sor	2019	9	ar	Yes		No
2	K.G.	AJ	ME/M	06-	Chemis				Profes	01-	22-	Regul			
6	Mishra	WP	. Tech	07-	try				sor	09-	07-	ar	Yes		No

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1	Panda	PP6	M.Tec	11-	ortatio				ant		06-	ar			
		733J	h	2016	n				Profes		201				
					Engg.				sor		7				
		AIP	ME/M	27-	Cantan				Assist		03-				
	Rana	PC4	. Tech	02-	Geotec	4	2		ant		01-	Regul	V		NI.
4	Chattaraj	084	and		h.	4	2		Profes		201	ar	Yes		No
2	v	P	PhD	2017	Engg				sor		7				
		BQ	ME/M						Assist		13-				
		AP	. Tech	25-					ant		01-				
4	S. K.	M57	and	07-	Chemis				Profes		201	Regul			
3	Maji	65K	PhD	2008	try				sor		4	ar	Yes		No
	111031	BZ							Assist		16-		100		110
	Sananda	WP	M.E/	02-	Enviro				ant		06-	Regul			
4	Sarkar	S88	M.Tec	02-	nmenta				Profes		201	ar	Yes		No
4	Barkar	43P	h	2015	1 Engg.				sor		6	aı			
7		ANS	ME/M						301		10-				
		PM0	. Tech	03-	Enviro					01-	01-				
4	Coniih	708	and	02-					Profes	07-	201	Dagul			
4 5	Sanjib				nmenta	10	2	1				Regul	V		37
3	Moulick	N	PhD	2003	1 Engg.	10	2	1	sor	2016	2	ar	Yes	 	Yes
	G ·	EEH) / F/	1.5	Transp			1	Assist		23-				
	Satya	PS2	M.E/	15-	ortatio				ant		07-	ъ.			
4	Ranjan	603	M.Tec	07-	n	4.0			Profes		201	Regul			
6	Samal	Е	h	2014	Engg.	10			sor		4	ar	Yes		No
		AD	ME/M						Assoc		20-				
		YPN	. Tech	11-	Geotec				iate	20-	02-				
4	Satyajeet	6744	and	03-	h.				Profes	02-	201	Regul			
7	Nanda	M	PhD	2013	Engg	3	4	1	sor	2017	7	ar	Yes		No
		HL	ME/M						Assist		30-				
	Shiv	XPK	. Tech	25-	Geotec				ant		07-				
4	Shankar	7687	and	06-	h.				Profes		201	Regul		202	
8	Kumar	Α	PhD	2018	Engg	2			sor		8	ar	No	0	No
		AU			Water				Assist		19-				
	Sitam	MPJ	M.E/		Resour				ant		06-				
4	Suvam	3464	M.Tec	07.02	ces				Profes		201	Regul			
9	Jena	Н	h	.2017	Engg.	1			sor		7	ar	Yes		No
_		EA							Assist		19-				
	Sunny	NPS	M.E/	22-	Structu				ant		06-	Regul			
5	Jaiswal	0722	M.Tec	07-	ral				Profes		201	ar	Yes		No
0	o alis vi ali	L	h	2017	Engg.				sor		7				
-		AOS			Structu				Assist		21-			30-	
		PB4	M.E/		ral				ant		07-			09-	
5	Susanta	028	M.Tec	09.04	Engine				Profes		201	Regul		202	
1	Banerjee	B	h	.2014	ering				sor		4	ar	No	1	No
1	Duncijee	AN	11	.2014	cring				Assist		19-	aı	110	1	110
	Sushree	OPP	M.E/		Structu				ant		06-				
5	Sushree	6897	M.Tec	24.07	ral				Profes			Dogu1			
2	Sangita Panda					1					201 7	Regul	Vac		No
,	ганда	K	h	.2015	Engg.	1			sor			ar	Yes	-	No
	1 41144		ī	I						01-	09- 03-				
	1 unu	AHF	MC	Λ1					1	111-	1 115-	i			
		PB4	M.Sc.	01-	Cl				Day Co.			D - 1			
5	T. K.	PB4 366	and	06-	Chemis				Profes	09-	200	Regul	37		ът
		PB4 366 A	and PhD		Chemis try				sor		200 9	Regul ar	Yes		No
5	T. K. Bastia	PB4 366 A AGJ	and PhD ME/M	06- 1993	try				sor Assoc	09- 2018	200 9 05-	ar	Yes		No
5 3	T. K. Bastia Tribikra	PB4 366 A AGJ PM1	and PhD ME/M . Tech	06- 1993 10-	try Structu	8	4		sor Assoc iate	09- 2018 01-	200 9 05- 09-	ar Regul			
5	T. K. Bastia	PB4 366 A AGJ	and PhD ME/M	06- 1993	try	8	4		sor Assoc	09- 2018	200 9 05-	ar	Yes		No No

Table B.5

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.

5.1. Student-Faculty Ratio (SFR) (20)

```
(To be calculated at Department Level)

No. of UG Programs in the Department (n):

No. of PG Programs in the Department (m):

No. of Students in UG 2<sup>nd</sup> Year= u1=

No. of Students in UG 3<sup>rd</sup> Year= u2

No. of Students in UG 4<sup>th</sup> Year= u3

No. of Students in PG 1<sup>st</sup> Year= p1

No. of Students in PG 2<sup>nd</sup> Year= p2
```

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1+UG2+UG3+PG1+PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Faculty Ratio (SFR) = S / F

	E	B. Tech in C	ivil Engineer	ring				
Year of Study	CA	Y	CAY	m1		CAYm2		
	(2022-	2023)	(2021-	2022)	(2020-2021)			
	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students		
2nd Year	180	18	180	18	180	15		
3rd Year	180	18	180	15	180	16		
4th Year	180	15	180	16	180	20		
Sub Total	540	51	540	49	540	51		
Total	59	1	58	9	591			
	No of P	G program	s in the depa	rtment: 1	I			
	N	I. Tech in (Civil Enginee	ring				
Year of Study	CA	Y	CAY	m1		CAYm2		
	(2022-	2023)	(2021-	2022)	(2020-2021)			
	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students		
1st Year	18		18		18			
2nd Year	18		18		18			
Sub Total	36	0	36	0	36	0		
Total	36	5	36	6		36		
Total	62	7	62	.5		627		
Total Faculty	43	3	43	3		45		
Student Faculty Ratio (SFR)	14.:	58	14.:	53		13.93		
Average Student Faculty Ratio (SFR)			I	14.34	I			
Marks for SFR				20.00				

Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:

```
      <= 15</td>
      -
      20 Marks

      <= 17</td>
      -
      18 Marks

      <= 19</td>
      -
      16 Marks

      <= 21</td>
      -
      14 Marks

      <= 23</td>
      -
      12 Marks

      <= 25</td>
      -
      10 Marks

      > 25.0
      -
      0 Marks
```

Note:

All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

- 1. Shall have the AICTE prescribed qualifications and experience.
- 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the	Total number of contractual faculty in the department
CAY (2022-2023)	43	0
CAYm1 (2021-2022)	43	0
CAYm2 (2020-2021)	45	0

Table 5.1.1

5.2. Faculty Cadre Proportion (20)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

- F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student- Faculty ratio based on no. of students (N) as per 5.1
- F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1
- F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

**	Professo	ors	Associate Profe	ssors	Assistant Professors		
Year	Required F1	Available	Required F2	Available	Required F3	Available	
CAY							
CAYm1							
CAYm2							
Average Numbers	RF1=	AF1=	RF2=	AF2=	RF3=	AF3=	

- If AF1 = AF2= 0 then zero marks
- Maximum marks to be limited if it exceeds 20

Example: Intake = 60 (i.e. total no. of students= 180); Required number of Faculty: 9; RF1= 1, RF2=2 and RF3=6

Case 1: AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks = (1+0.6+0.4) x 10 = 20

Case 2: AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks = (1+0.9+0.3) x 10 = limited to 20

Case 3: AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6; Cadre proportion marks = $(0+0.3+0.53) \times 10=8.3$

Faculty Cadre Proportion									
Year	Profes	sors	Associate p	rofessors	Assistant Professors				
Tour	Required F1	Available	Required F2	Available	Required F3	Available			
CAY (2022-2023)	3.48	4	6.96	13	20.90	26			
CAYm1 (2021-2022)	3.56	4	7.12	13	21.40	26			
CAYm2 (2020-2021)	3.48	4	6.97	13	20.90	28			
Average Numbers	3.50	4	7.01	13.00	21.06	26.66			
	RF1	AF1	RF2	AF2	RF3	AF3			
Cadre Ratio Marks	27.60	20							

5.3. Faculty Qualification (20)

FQ = 2.0 x [(10X + 4Y)/F)] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M. Tech., F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

	Faculty Qualification								
	Faculty with PhD Degree	Faculty with MTech Degree							
Year	X	Y	F	FQ					
CAY (2022-2023)	28	15	31.35	21.69					
CAYm1 (2021-2022)	28	15	31.25	21.76					
CAYm2 (2020-2021)	29	16	31.35	22.32					
Average Numbers				21.92					
	Marks								

5.4. Faculty Retention (10)

No. of regular faculty members in CAYm1= 43

CAY = 43

Item	
(% of faculty retained during the period of assessment keeping CAYm2 as base year)	Marks
>= 90% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	10
>=75% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	08
>= 60% of required Faculty members retained during the period of assessment keeping CAY <i>m</i> 2 as base year	06
>= 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	04
< 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	0

Table B.5.4

	Faculty Retention									
	CAY	CAYm2								
	(2022-2023)	(2021-2022)	(2020-2021)							
No of faculty retained	43	43	45							
Total no of faculty	43	43	45							
% of faculty retained	95.55	95.55								
Marks	10	10								

5.5. Faculty competencies in correlation to Program Specific Criteria (10)

(List the program specific criteria and the competencies (specialization, research publications, course developments etc.,) of faculty to correlate the program specific criteria and competencies.)

Sl. No	Name	Subject specializatio n	Research Specialization	No. of Publication s	Course Developments	Mapping of Capabilit y to PSO
1	Prof. Amit Kumar Das	Transportatio n Engg	Traffic flow modeling, Traffic engineering	2	Course handouts/laborator y video/lecture video	PSO 1, PSO2
2	Prof. Aparupa Pani	Geotechnical Engineering	Industrial Waste Management, Ground Improvement, Soil Stabilization	5	Course handouts/laborator y video/lecture video	PSO 2, PSO3
3	Prof. Asish Kumar Pani	Structural Engg.	Concrete block pavement, sustainable use of waste material, fiber reinforced concrete	5	Course handouts/laborator y video	PSO 1, PSO2
4	Prof. Bandita Paikaray	Geotechnical Engineering	Bearing capacity of shallow foundation, Ground improvement techniques, Geosynthetic reinforced structure	8	Course handouts	PSO 2, PSO3

5	Prof. Banu Gopal Mohapatra	Geotechnical Engineering, Foundation Engineering	Slope stabilization, Soil Nailing	11	Course handouts /Blogs/Lecture videos	PSO 2, PSO3
6	Prof. Bhagabat Jena	Structural Engg.	Structural analysis	6	Course handouts	PSO 1, PSO2
7	Prof. Bitanjaya Das	Transportatio n Engg	Hydrology and water resources engineering	21	Course handouts	PSO 2, PSO3
8	Prof. Brundaban Beriha	Transportatio n Engg	Pavement Analysis and Design, Pavement Material Characterization, Pavement Evaluation and Maintenance	7	Course handouts/lecture video	PSO 1, PSO2
9	Prof. Chinmay Kumar Kundu	Structural Engg.	nonlinear finite element analysis, smart structures, Composite structures	11	Course handouts	PSO 1, PSO2
10	Prof. Dillip Kumar Bera	Construction Management	Nano-materials used in cement, geo-polymer concrete, project optimization	18	Course handouts	PSO 1, PSO2
11	Prof. Dipti Ranjan Biswal	Transportatio n Engg	Pavement material characterization, stabilized base and sub-base, pavement design	8	Course handouts/lecture video	PSO 1, PSO2
12	Prof. Dudam Bharath Kumar	Environment al Engg.	Air pollution monitoring (PM2.5, PM10 and SO2 and NOx), Source- receptor modeling, Source Apportionment, Evaluation of satellite based aerosol estimates, receptor modeling, Indoor air quality studies, Traffic noise pollution	14	Course handouts/laborator y video	PSO 2, PSO3

			modeling			
13	Prof. Gaurav Udgata	Structural Engg.	Sustainable interlocking bricks	4	Course handouts/lecture video	PSO 1, PSO2
14	Prof. Himanshu Sekhar Panda	Structural Engg.	Structural Analysis and Design, Dynamic analysis and testing of laminated and delaminated composite structures under influence hygro- thermal environment	1	Course handouts	PSO 1, PSO2
15	Prof. Ipsita Mohanty	Structural Engg.	Sustainable material, pre- stressed concrete, RCC	1	Course handouts/lecture video	PSO 1, PSO2
16	Prof. Ipsita Panda	Geotechnical Engineering	Geo-environmental engineering, Ground improvement methods, soil remediation techniques, waste recycling and utilization, Bio- mediated soil improvement, Contaminated soil management.	2	Course handouts/laborator y video/lecture video	PSO 2, PSO3
17	Prof. Jyotiprakas h Padhi	Water Resources Engg.	water resource management, surface water hydrology and drought	7	Course handouts	PSO 2, PSO3
18	Prof. Kalpana Sahoo	Transportatio n Engg	Traffic engineering, rotary and intersection design, pavement material and pavement design	1	Course handouts	PSO 1, PSO2
19	Prof. Kirtikanta Sahoo	Structural Engg.	Smart Concrete, Advanced Concrete, Industrial waste in concrete, Bio-Concrete	9	Course handouts	PSO 1, PSO2
20	Prof.	Water	Irrigation	3	Course	PSO 2,

	Kshyana Prava Samal	Resources Engg.	Management and Ground water		handouts/laborator y video/lecture video	PSO3
21	Prof. Kundan Samal	Environment al Engg.	Biological water and wastewater treatment, Constructed Wetland, Composting and Vermi composting	13	Course handouts/laborator y video	PSO 2, PSO3
22	Prof. Madhulisha Pattanaik	Transportatio n Engg	Transportation Engineering, Pavement Materials, Recycling, Solid Waste Management	2	Course handouts	PSO 1, PSO2
23	Prof. Malaya Mohanty	Transportatio n Engg	Traffic engineering and management, Traffic safety	13	Course handouts /Lecture videos/ laboratory video	PSO 1, PSO2
24	Prof. Mohibullah	Construction Management	project Management in construction	5	Course handouts /Lecture videos	PSO 1, PSO2
25	Prof. Narayan Chandra Moharana	Structural Engg.	Sustainable material, reinforcement corrosion, analysis and design of steel and RCC structures	2	Course handouts/laborator y video	PSO 1, PSO2
26	Prof. Paromita Chakrabort y	Water Resources Engg.	Reservoir sedimentation, flow hydraulics, non- Newtonian fluids	10	Course handouts /Lecture videos	PSO 2, PSO3
27	Prof. Prasanna Kumar Acharya	Construction Management	Construction Engineering and Management	12	Course handouts/laborator y video/lecture video	PSO 1, PSO2
28	Prof. Preetynand a Nanda	Geotechnical Engineering	Ground improvement, utilization of industrial waste	4	Course handouts/laborator y video/lecture video	PSO 2, PSO3
29	Prof. Purna Chandra Saha	Structural Engg.	Earthquake engineering, Structural Dynamics, structural health monitoring and	40	Course handouts	PSO 1, PSO2

30	Prof. Rachita Panda	Transportatio n Engg	structural control, sustainable materials, green buildings Pavement design, traffic safety ground	4	Course handouts/laborator y video/lecture video	PSO 1, PSO2
31	Prof. Rana Chattaraj	Geotechnical Engineering	improvement, small strain and large strain dynamic properties of soil and liquefaction		Course handouts/lecture video	PSO3
32	Prof. Sananda Sarkar	Environment al Engg.	Modeling and understandi ng The Impacts of Climate Change On Water Resources, Watershed Modeling	3	Course handouts/lecture video/laboratory video	PSO 2, PSO3
33	Prof. Sanjib Moulick	Environment al Engg.	water and wastewater treatment, designing of water re-use system and water quality management	15	Course handouts/lecture video	PSO 2, PSO3
34	Prof. Satya Ranjan Samal	Transportatio n Engg	Traffic congestion and management, traffic safety	13	Course handouts/ laboratory video/lecture video	PSO 1, PSO2
35	Prof. Satyajeet Nanda	Geotechnical Engineering	load-settlement behavior of long piles, behavior of monopile in offshore loading condition, crushing properties of offshore sand, deep water anchor system and strain rate effect of soft soil using T-bar.	7	Course handouts /Lecture videos	PSO 2, PSO3

36	Prof. Sunny Jaiswal	Structural Engg.	Geopolymer- concrete and self- compacting concrete		Course handouts/laborator y video	PSO 1, PSO2
37	Prof. Sushree Sangita Panda	Structural Engg.	Structural engineering, Dowel Action in Reinforced Concrete Beam	2	Course handouts/laborator y video/lecture video	PSO 1, PSO2
38	Prof. Tribikram Mohanty	Structural Engg.	sustainable building materials and waste utilization	10	Course handouts/laborator y video/lecture video	PSO 1, PSO2

5.6. Innovations by the Faculty in Teaching and Learning (10)

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- The work must be made available on Institute website
- The work must be available for peer review and critique
- The work must be reproducible and developed further by other scholars

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, significance of results, effective presentation and reflective critique

Some of the innovations by the faculties in teaching & learning process:

- Mode of teaching is an amalgamation of the modern technology (e.g. power point presentation, audio-visual teaching etc.) with the traditional marker-duster method of teaching.
- The course handouts (lesson plan) are distributed among students by the subject teacher before the commencement
 of the classes.
- Study materials are shared to students via e-mail, websites, handouts etc.
- Students are encouraged to visit NPTEL lectures, browse different internet sites to increase their knowledge base
 about the subject. Moreover, through these activities students acquire relevant knowledge, which is beyond the
 prescribed university syllabus.
- Students are endowed with various online video lectures related to their curriculum, which is developed by faculty members of the school.
- The faculty members encourage students to participate in different technical competitions.
- Open-ended experiments are a part of the laboratory curriculum where the students apply the knowledge gained to during laboratory sessions to solve real life problems.

- The Tech-Fest and other technical events are organized by the school to create opportunities for students' selfdevelopment based on the gained technological knowledge.
- The school of Humanities regularly organizes soft skill classes for various schools, based on availability and requirement, to enhance the students' communication skills, grooming and body language to equip them for the professional world.
- Social network groups (e.g. WhatsApp) has been formed between the students and faculties in order to handle the queries of the students and provide the solutions 24x7.
- The school organizes a number of workshops/ conferences/ project contests/ symposium throughout the year for dissemination of knowledge on recent technologies.
- The school has established a number of centre of excellence in collaboration with external academic and research units for enhancing the skills of the students.
- Activity based learning has been introduced to analyze the abilities of students under different orientations based on problem solving, critical thinking focus, creation, interactivity focus, quiz, reflection etc.
- The biggest resource for self-learning is the school library which not only possesses ample of books to meet the students' syllabus-oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge. The library also possesses a number of magazines and periodicals related to different branches of science and technology, which the students may readily access.
- The library subscribes to a host of online and printed journals, which are made readily available to the students.

5.7. Faculty as participants in Faculty development/training activities/STTPs (15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty/ Faculty development program: 3Points
- Participation >5 days Faculty/ Faculty development program: 5 points

	Max. 5 per faculty			
Name of the Faculty	CAYm1 (2021- 2022)	CAYm2 (2020- 2021)	CAYm3 (2019- 2020)	
Prof. Bitanjaya Das	5	5	5	
Prof. Benu Gopal Mohapatra	5	5	5	
Prof. Sanjib Moulick	5	5	5	
Prof. Bhagabata Jena		5	5	
Prof. Asish Kumar Pani	5	5	5	
Prof. Bandita Paikaray	5	5	5	
Prof. Tribikram Mohanty	5	5	5	
Prof. Jyotiprakash Padhi	5	5	5	
Prof. Purna Chandra Saha	5	5	5	

Prof. Prasanna K Acharya	Prof. Satyajeet Nanda	5	5	5
Prof. Dillip Kumar Bera	Prof. Prasanna K Acharya	5	5	5
Prof. Kshyana Prava Samal 5 5 5 5 5 5 5 5 5	Prof. Narayan Chandra Moharana	5	5	5
Prof. Chinmay Kumar Kundu 5 5 5 Prof. Dipti Ranjan Biswal 5 5 5 Prof. Parof. Malaya Mohanty 5 5 5 Prof. Malaya Mohanty 5 5 5 Prof. Jagori Dutta 5 5 5 Prof. Madhu Lisha Pattanaik 5 5 5 Prof. Madhu Lisha Pattanaik 5 5 5 Prof. Madhu Lisha Pattanaik 5 5 5 Prof. Pretynanda Nanda 5 5 5 Prof. Pretynanda Nanda 5 5 5 Prof. Sanya Ranjan Samal 5 5 5 Prof. Sananda Sarkar 5 5 5 5 Prof. Asheena Sunny 5 5 5 5 Prof. Bagashree Panda 5 5	Prof. Dillip Kumar Bera	5	5	5
Prof. Dipti Ranjan Biswal 5 5 5 Prof. Paromita Chakraborty 5 5 5 Prof. Malaya Mohanty 5 5 5 Prof. Malaya Mohanty 5 5 5 Prof. Jagori Dutta 5 5 5 Prof. Madhu Lisha Pattanaik 5 5 5 Prof. Madhu Lisha Pattanaik 5 5 5 Prof. Prectynanda Nanda 5 5 5 Prof. Prectynanda Nanda 5 5 5 Prof. Satya Ranjan Samul 5 5 5 Prof. Sananda Sarkar 5 5 5 Prof. Asheena Sunny 5 5 5 Prof. Bagashree Panda 5	Prof. Kshyana Prava Samal	5	5	5
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	Prof. Kalpana Sahoo	5	5	5
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	Sum	200	203	205

RF= Number of Faculty required to comply with 20:1 Student- Faculty ratio as per 5.1	31.25	31.35	32.10
Assessment = 3 × (Sum/0.5 RF) (Marks limited to 15)	38.41	38.85	38.31
Average		38.52	
Average assessment over last three years (Marks limited to 15) =			15

2021-22

Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Pagant Advances in Forencia Analysis in Civil	27.00.2021	01.10.2021
	27.09.2021	01.10.2021
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	27.09.2021	01.10.2021
Engineering		
Decent Advances in Ferencia Analysis in Civil	27.00.2021	01.10.2021
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Engineering		
Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Engineering		
Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Engineering		
	Recent Advances in Forensic Analysis in Civil Engineering	Recent Advances in Forensic Analysis in Civil Engineering

Prof. Purna	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Chandra	Engineering		
Saha			
Prof. Brundaban	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Beriha	Engineering		
Prof. Narayan	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Chandra	Engineering		
Moharana			
Prof. Kshyana	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Prava	Engineering		
Samal			
Prof. Jyotiprakash	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Padhi	Engineering		
Prof Sananda	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Sarkar	Engineering		
Prof Satya Samal	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
	Engineering		
Prof Asheena	Recent Advances in Forensic Analysis in Civil	27.09.2021	01.10.2021
Sunny	Engineering		

2020-21

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Bitanjaya Das	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Dam & Network Safety Assurance organized by ICID and AF Academy	10.09.2020	10.09.2020
Prof. Benu Gopal Mohapatra	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Preparing for Post -Covid Job Market organized by KIIT DU	16.08.2020	16.08.2020
Prof. Sanjib Moulick	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
	Laboratory Quality Management System & Internal Audit conducted by National Institute for Standardization, Bureau of Indian Standards	01.09.2020	04.09.2020
Prof. Asish Kumar Pani	FDP on Finite Element Analysis of Structures (FEAST) organized by KIIT DU	20.06.2021	26.06.2021
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.09.2020	18.09.2020
	Latest Advances in Construction Management and Concrete Technology organized by College of Engineering and Technology, Odisha	01.09.2020	05.09.2020
Prof. Bandita Paikaray	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Geotechnical Application "Recent advances in geotechnical engineering" organized by Indian Geotechnical Society, Bhubaneswar Chapter	23.08.2020	23.08.2020
	Challenges and opportunities in geotechnical engineering organized by B V Raju Institute of Technology, Hyderabad	29.07.2020	29.07.2020
	Compaction characteristics of industrial wastes and by- products organized by Indian Geotechnical Society, Bhubaneswar Chapter	26.07.2020	26.07.2020
	Sustainable livelihood in climate change scenario organized by Indian Geotechnical Society, Bhubaneswar Chapter	25.07.2020	25.07.2020
Prof. Tribikram Mohanty	FDP on Finite Element Analysis of Structures (FEAST) organized by KIIT DU	20.06.2021	26.06.2021
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.09.2020	18.09.2020
	Latest Advances in Construction Management and Concrete Technology organized by College of Engineering and Technology, Odisha	01.09.2020	05.09.2020
Prof. Jyotiprakash Padhi	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	ATAL FDP on GIS and Remote Sensing organized by University College of Engineering, JNTU Kakinada	04.01.2021	08.01.2021
	Application of Remote sensing & GIS in Water, Environment, Land and Society organized by IAWEES and IHE Delft	01.12.2020	03.12.2020
	The Joy, Opportunities and Challenges in Field Hydrological Research organized by National Institute of	02.11.2020	06.11.2020

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
	Engineering. Mysuru and IIT Guwahati		
	Application of Remote sensing & GIS in Civil Engineering organized by Silicon Institute of Technology Sambalpur, Odisha	07.07.2020	10.07.2020
Prof. Paromita Chakraborty	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Purna Chandra Saha	FDP on Finite Element Analysis of Structures (FEAST) organized by KIIT DU	20.06.2021	26.06.2021
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.09.2020	18.09.2020
	World Ozone Day organized by KLEF, Guntur	16.09.2020	16.09.2020
	Prospects and Challenges in 3D Printing: A Design Perspective organized by B.M.S. College of Engineering	01.09.2020	05.09.2020
Prof. Preetynanda Nanda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Satya Ranjan Samal	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.9.2020	18.9.2020
	Sustainable Pavement: Current research and Practices (SPCRP-2020) organized by IGIT Sarang, Odisha	11.9.2020	15.9.2020
	Latest Advances in Concrete Technology and Construction Management (LACTCM-2020) organized by College of Engineering and Technology, Odisha	01.09.2020	05.09.2020
	"Research and Practices in Civil Engineering (RPCE-2020)" organized by IGIT Sarang, Odisha	03.08.2020	07.08.2020
Prof. Sananda Sarkar	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	International Virtual Conference AFM 2020 organized by School of Applied Sciences, KIIT DU	26.08.2020	28.08.2020
Prof. Asheena Sunny	FDP on Finite Element Analysis of Structures (FEAST) organized by KIIT DU	20.06.2021	26.06.2021
	FDP on A-Z of Writing & Publication in Scopus-Indexed Journals organized by GMR Institute of Technology Kakinada	16.08.2020	22.08.2020
Prof. Satyajeet Nanda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Madhu Lisha Pattanaik	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Sustainable Environmental Engineering Practices (SEEP-2020) organized by NIT Rourkela	21.09.2020	25.09.2020
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.9.2020	18.9.2020
	Two Day Online Road Safety Advocacy Program organized by MIT World Peace University, Maharashtra	05.02.2021	06.02.2021
	Webinar: Ultra-High-Performance Concrete organized by Ultratech Cement Ltd.	13.03.2021	13.03.2021
Prof. Malaya Mohanty	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Virtual Faculty Depelopment Programme	11.9.2020	15.9.2020
Prof. Dipti Ranjan Biswal	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Sustainable Pavement: Current research and Practices (SPCRP-2020) organized by IGIT Sarang, Odisha	11.9.2020	15.9.2020
	Virtual Faculty Depelopment Programme	12.8.2020	12.8.2020
	Short Term Course on "Advances in Pavement Engineering" organized by IIT Bhubaneswar	24.05.2021	28.05.2021
Prof. Amit Kumar Das	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Advances in Transportation Engineering (ATE-2020) organized by NIT Rourkela	23.09.2020	27.09.2020
Prof. Prasanna K Acharya	FDP on Statistical analysis and Computer Aided Design	20.06.2021	26.06.2021
Prof. Bhagyashree Panda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Rachita Panda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	The Joy, Opportunities and Challenges in Field Hydrological Research organized by National Institute of Engineering. Mysuru and IIT Guwahati	02.11.2020	06.11.2020
	SUSTAINABLE ENVIRONMENTAL GEOTECHNICS organized by Sagi Rama Krishnam Raju Engineering College, Andhra Pradesh	05.10.2020	09.10.2020
	Sustainable Environmental Engineering Practices	21.09.2020	25.09.2020

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
	(SEEP-2020) organized by NIT Rourkela		
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.9.2020	18.9.2020
	Application of Remote sensing & GIS in Civil Engineering organized by Silicon Institute of Technology Sambalpur, Odisha	07.07.2020	10.07.2020
	Research and Practices in Civil Engineering (RPCE-2020) organized by IGIT Sarang, Odisha	03.08.2020	07.08.2020
	Recent Advances in Forensic Analysis of Sub and Super Structures- Transportation Engineering Phase II organized by Velagapudi Ramakrishna Siddhartha Engineering College	24.08.2020	29.08.2020
	Webinar on Sky & Earth organized by Indian Geotechnical Society Bhubaneswar Chapter	25.07.2020	26.07.2020
Prof. Aparupa Pani	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Ipsita Panda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Sitam Suvam Jena	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.9.2020	18.9.2020
Prof. Rana Chattaraj	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Kshyana Prava Samal	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Gaurav Udgata	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Kundan Samal	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Mohibullah	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Ipsita Mohanty	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Brundaban Beriha	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Short Term Course on "Advances in Pavement Engineering" organized by IIT Bhubaneswar	24.05.2021	28.05.2021
Prof. Dudam Bharath Kumar	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
	International FDP on Climate Change and Hydrologic Extremes organized by Karunya Institute of Technology & Sciences and Regional Remote Sensing Centre – South, ISRO, Bengaluru	20-07-2020	24-07-2020
	Application of Remote sensing & GIS in Civil Engineering organized by Silicon Institute of Technology Sambalpur, Odisha	07.07.2020	10.07.2020
Prof. Sunny Jaiswal	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Sushree Sangita Panda	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Chinmay Kumar Kundu	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
	Emerging Trends in Civil Engineering (ETCE-2020) organized by VSSUT Burla, Odisha	14.9.2020	18.9.2020
Prof. Kirti Kanta Sahoo	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Narayan Chandra Moharana	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Dillip Kumar Bera	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021
Prof. Kalpana Sahoo	FDP on Statistical analysis and Computer Aided Design organized by KIIT DU	20.06.2021	26.06.2021

2019-20

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Bitanjaya Das	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Benu Gopal Mohapatra	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Wionapatra	Covid 19 Lives & Livelihood	05.05.2020	06.05.2020
Prof. Sanjib Moulick	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Bhagabata Jena	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Asish Kumar Pani	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Bandita Paikaray	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
	Application of soft computing in civil engineering Government College of Engineering Kalahandi,	09.06.2020	09.06.2020

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
	Bhawanipatna, Odisha		
Prof. Tribikram Mohanty	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Jyotiprakash Padhi	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Purna Chandra Saha	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Satyajeet Nanda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Prasanna K Acharya	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Narayan Chandra	FDP on blended learning organized by KIIT DU	05.05.2020	06.05.2020
Moharana	Covid 19 Lives & Livelihood	22.06.2020	28.06.2020
Prof. Dillip Kumar Bera	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Kshyana Prava Samal	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Chinmay Kumar Kundu	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Dipti Ranjan Biswal	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Kirti Kanta Sahoo	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Malaya Mohanty	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Jagori Dutta	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Madhu Lisha Pattanaik	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Preetynanda Nanda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Satya Ranjan Samal	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Sananda Sarkar	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Asheena Sunny	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Amit Kumar Das	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Bhagyashree Panda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Rachita Panda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Aparupa Pani	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Ipsita Panda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Sitam Suvam Jena	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Rana Chattaraj	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Gaurav Udgata	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Kundan Samal	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Mohibullah	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Ipsita Mohanty	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Brundaban Beriha	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Dudam Bharath Kumar	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Kumai	WORLD ENVIRONMENTAL DAY	05-06-2020	05-06-2020
Prof. Sushree Sangita Panda	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Kalpana Sahoo	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020
Prof. Sunny Jaiswal	FDP on blended learning organized by KIIT DU	22.06.2020	28.06.2020

2018-19

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Bitanjaya Das	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Benu Gopal Mohapatra	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Sanjib Moulick	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Bhagabata Jena	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Asish Kumar Pani	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Bandita Paikaray	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Tribikram Mohanty	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Jyotiprakash Padhi	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019

Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Purna Chandra Saha	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Satyajeet Nanda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Narayan Chandra Moharana	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Dillip Kumar Bera	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Kshyana Prava Samal	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Chinmay Kumar Kundu	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Dipti Ranjan Biswal	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Paromita Chakraborty	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Kirti Kanta Sahoo	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Preetynanda Nanda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Satya Ranjan Samal	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
	Recent Development in Pavement Analysis and Design conducted by IIT BHU	17.09.2018	22.09.2018
	Recent trend in transportation engineering and town planning conducted by Coimbatore Institute of Technology	May 2019	
Prof. Sananda Sarkar	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Asheena Sunny	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Amit Kumar Das	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Bhagyashree Panda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Rachita Panda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
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Faculty	Details of FDP/Workshop/Webinars/STTP	Starting date	End date
Prof. Aparupa Pani	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Ipsita Panda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Sitam Suvam Jena	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Rana Chattaraj	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Jagori Dutta	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Gaurav Udgata	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Kundan Samal	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Malaya Mohanty	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Mohibullah	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Ipsita Mohanty	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Dudam Bharath Kumar	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Sushree Sangita Panda	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Kalpana Sahoo	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019
Prof. Sunny Jaiswal	FDP on Contemporary methods in Civil Engineering organized by KIIT DU	22.06.2019	27.06.2019

5.8. Research and Development (75)

5.8.1. Academic Research (20)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

 $\square Number$ of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)

 \Box Ph.D. guided /Ph.D. awarded during the assessment period while working in the

institute (5) All relevant details shall be mentioned.

LIST OF JOURNAL PUBLICATIONS

Sl. No	Name of the Faculty	Author Affiliation	Title of the Journal Article	Journal Title	Year of Publicati on	Volume (Issue): Page No.	Impac t Factor	Part of E- databases (Scopus / Web of Science)
1	Asish Kumar Pani Bikasha Chandra Panda	KIIT DU University College of Engineering	Elastic Modulus of Equivalent Block Layer in Concrete Block Pavement Using Finite Element Analysis	The Indian Concrete Journal	Jan-23		NA	Scopus Accepted
2	Monika Mohanty Dipti Ranjan Biswal Smruti Sourava Mohapatra	IIT, Dhanbad KIIT DU IIT, Dhanbad	A systematic review exploring the utilization of coal mining and processing wastes as secondary aggregate in sub- base and base layers of pavement	Construction and Building Materials	Jan-23	Vol. 368 A.N. 130408	7.693	Scopus & Web of Science
3	Shivanand S. Shirkole Aparupa Pani	Institute of Chemical Technology Mumbai KIIT DU	A Concise Historical Account of Drying Technology - An International Journal	Drying Technology	Jan-23		3.556	Scopus & Web of Science
4	Aparupa Pani Shivanand S. Shirkole Arun S. Mujumdar	KIIT DU Institute of Chemical Technology Mumbai McGill University, Quebec, Canada	Expert reviews for assessment of recent developments and future prospectives of global drying R&D	Drying Technology	Jan-23		3.556	Scopus & Web of Science
5	Prasanna Kumar Acharya; Sanjaya Kumar Patro;	KIIT DU VSS University of Technology	Evaluation of environmental disturbance indicator using functional performance and life cycle assessment of ferrochrome waste concrete	Journal of Building Engineering	April-23	Vol65	7.144	Scopus
6	Manal Alali Bandita Paikaray Benu Gopal Mohapatra	KIIT DU	Behavioral investigation of the footings on geosynthetics- reinforced ferrochrome slag	International Journal of Sustainable Building Technology and Urban Development	Dec-22	13(4), pp. 436-453	NA	Scopus
7	Malaya Mohanty; Rachita Panda; Srinivasa Rao Gandupalli; Ritik Raj Arya; Sarthak Kumar Lenka	KIIT DU KIIT DU GITAM Deemed to be University KIIT DU KIIT DU	Factors propelling fatalities during road crashes: A detailed investigation and modelling of historical crash data with field studies	Heliyon	Nov-22		3.776	Scopus and Web of Science
8	Piotr Gorzelańczyk; Martin Jurkovič; Tomáš Kalina; Malaya Mohanty;	S S University of Appl. Sc., Poland University of Zilina, Slovak Republic University of Zilina, Slovak Republic KIIT DU	Assessment of Traffic Congestion under Indian Environment - a Case Study	Communicatio ns - Scientific letters of the University of Zilina	Sep-22		NA	Scopus Accepted
9	Piotr Gorzelańczyk; Martin Jurkovič; Tomáš Kalina; Malaya Mohanty;	S S University of Appl. Sc., Poland University of Zilina, Slovak Republic University of Zilina, Slovak Republic	Forecasting the road accident rate and the impact of the covid 19 on its frequency in the polish provinces	Communicatio ns - Scientific letters of the University of Zilina	Sep-22		NA	Scopus Accepted

		KIIT DU						
10	Prasanna Kumar Acharya; Sanjaya Kumar Patro;	KIIT DU VSS University of Technology	Evaluation of Functional, Microstructural, Environmental Impact, and Economic Performance of Concrete Utilizing Ferrochrome Ash and Slag	Journal of Sustainable Metallurgy	Sep-22		3.068	Scopus and Web of Science
11	Tribikram Mohanty; Ankit Kumar; Prasanna Kumar Acharya; Sanjaya Kumar Patro; Purnachandra Saha	KIIT DU KIIT DU KIIT DU VSS University of Technology KIIT DU	Performance of Structural Geopolymer Concrete Utilising Ferrochrome Ash and Fly Ash as Source Material	Journal of The Institution of Engineers (India): Series A	Sep-22		NA	Scopus
12	Kalyani Dash; Bibhu Prasad Sahoo	KIIT DU KIIT DU	Exploring the effect of TiO2 and ionic liquid on the dielectric properties of polyurethane and polyaniline blend nanocomposites	Polymer International	2022	71 (7), pp 847-855	3.213	Scopus & Web of Science
13	Debashish Meher; Tapan Kumar Bastia; Suman; Swatee Acharya; Bibhu Prasad Sahoo	KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU	Exploring the influence of ionic liquid and temperature on the dielectric properties and microwave absorption of SWCNT based PVDF/PANI blend nanocomposites	Materials Today: Proceedings	2022		NA	Scopus
14	Ganeswar Sahu; Bibhu Prasad Sahoo; Jasaswini Tripathy	KIIT DU KIIT DU KIIT DU	Influence of ionic liquid on the dielectric relaxation behavior of SWCNT reinforced poly(vinyl alcohol) based nanocomposites	Materials Today: Proceedings	2022		NA	Scopus & Web of Science
15	A.K.Sahoo; Biswa Bandita Kar	KIIT DU KIIT DU	Impact of Silica Fume on Fly Ash Based Concrete Material	Asian Journal of Water, Environment and Pollution	2022	19(4), pp. 49-54	NA	Scopus & Web of Science
16	H.N.Dash; S.Hota; Biswa Bandita Kar	KIIT DU KIIT DU KIIT DU	Recovery of vanadium from red mud using microwave assisted leaching	Materials Today: Proceedings	2022	NA	NA	Scopus
17	Sasmita Mishra; Santosh Kumar Nathsarma; K.G. Mishra; Raja Kishore Paramguru	KIIT DU KIIT DU KIIT DU KIIT DU	Antimicrobial Activity of Silver Nanoparticles on Pseudomonas aeruginosa: Influence of Particle Size Controlled through Mixed Current	Surface Engineering and Applied Electrochemis try	2022	58(2), pp. 184-193	NA	Scopus & Web of Science
18	S.K. Natthsharma; Sasmita Mishra; K.G.Mishra; Raj Kishore Paramguru	KIIT DU KIIT DU KIIT DU KIIT DU	Parameters Influencing Electrodeposition of Nanocrystalline Fe x-Co100 - x Alloys on Stainless Steel	Surface Engineering and Applied Electrochemis try	2022	58(1), pp. 20-30	NA	Scopus & Web of Science

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19	Sritam Swapnadarshi Sahu; Dillip Bera	KIIT DU KIIT DU	Performance evaluation of nano slag incorporating in concrete	Materials Today: Proceedings	Aug-22		NA	Scopus
20	Md.Shahzar Intekhab; Swagato Das; M. Ahmad Jajnery; Salman Akhtar; Debarshi Sahoo Purnachandra Saha	KIIT DU C.V Raman Global University KIIT DU KIIT DU KIIT DU KIIT DU	Analysis Methods of Irregular High-Rise Buildings Subjected to Seismic Loads	Journal of Vibration Engineering and Technologies	Jul-22		2.333	Scopus
21	Kshitish Ranjan Mishra; Malaya Mohanty; Partha Pratim Dey	Govt. of Odisha, India KIIT DU IIT Bhubaneswar	Modelling traffic safety at uncontrolled median openings: A case study in India	IATSS Research	Jul-22		NA	Scopus
22	Malaya Mohanty; Rachita Panda; Srinivasa Rao Gandupalli; Didriksha Sonowal; Muskan Muskan; Riya Chakraborty; Mukund R. Dangeti	KIIT DU KIIT DU GITAM Deemed to be University KIIT DU NIT Agartala KIIT DU GITAM Deemed to be University	Development of crash prediction models by assessing the role of perpetrators and victims: a comparison of ANN & logistic model using historical crash data	International Journal of Injury Control and Safety Promotion	2022		2.603	Scopus & Web of Science
23	Aparupa Pani; Shivanand S. Shirkole; Arun S, Mujumdar	KIIT DU ICT-IOC Odisha Campus, BBSR McGill University, Canada	Importance of renewable energy in the fight against global climate change	Drying Technology	2022			
24	Singh, Pratyasha; Aparupa Pani; Mujumdar, Arun S.; Shirkole, Shivanand S.	KIIT DU KIIT DU McGill University, Canada ICTM, Odisha	New strategies on the application of artificial intelligence in the field of phytoremediation	International Journal of Phytoremediat ion	2022		4.003	Scopus & Web of Science
25	Abhijeet Prasad Dash; Kirti Kanta Sahoo; Himanshu Sekhar Panda; Arpan Pradhan; Biswajit Jena	KIIT DU KIIT DU KIIT DU Christ Deemed to be University KIIT DU	Experimental study on the effect of superplasticizer on workability and strength characteristics of recycled coarse aggregate concrete	Materials Today: Proceedings	2022	Vol. 60, pp 488-493	NA	Scopus
26	Brundaban Beriha Umesh Chnadra Sahoo Debakanta Mishra	KIIT DU IIT, Bhubaneswar Oklahoma State University, USA	Crosspave: a multi-layer elastic analysis programme considering stress-dependent and cross-anisotropic behaviour of unbound aggregate pavement layers	International Journal of Pavement Engineering	2022		4.178	Scopus & Web of Science
27	Shivanand S. Shirkole; Aparupa Pani; Arun S. Mujumdar	ICT, Mumbai KIIT DU McGill University, Montreal, Canada	Role of expert reviews for assessment of current developments in global drying R&D	Drying Technology	2022	40 (2), pp 227 - 229	3.556	Scopus & Web of Science
28	Santanu Pathak; Rajan Choudhary; Abhinay Kumar; Madhu Lisha Pattanaik	IIT Guwahati IIT Guwahati IIT Guwahati KIIT DU	Friction Characteristics of Open Graded Asphalt Friction Courses with BOF and EAF Steel Slag Aggregates	Journal of Materials in Civil Engineering	Jun-22	34(6), 04022087	3.651	Scopus & Web of Science

29	Sumanta Chaudhuri; Paromita Chakraborty; Mrutyunjay Das; Bitanjaya Das	KIIT DU KIIT DU KIIT DU KIIT DU	Magnetohydrodynamic mixed convection in a non-Newtonian third-grade fluid flowing through vertical parallel plates: A semianalytical study of flow and heat transfer	Heat Transfer	Jun-22	51 (4), pp 3373 - 3400	2.431	Scopus & Web of Science
30	Bhagabata Jena; Rakesh Kumar Patra; Bibhuti Bhusan Mukharjee	KIIT DU NIT, Rourkela BPUT, Rourkela	Influence of Incorporation of Jute Fibre and Ferrochrome Slag on Properties of Concrete	Australian Journal of Civil Engineering	Jun-22	20 (01), pp 13-30	NA	Scopus & Web of Science
31	Kirti Kanta Sahoo; Prateek Kumar Dhir; Shantanu Kumar Behera; Dipti Ranjan Biswal	KIIT DU Univ. of Strathclyde, Glasgow KIIT DU KIIT DU	Influence of Ground- Granulated Blast-Furnace Slag on the Structural Performance of Self-Compacting Concrete	Practice Periodical on Structural Design and Construction	Aug-22	27 (03), 04022019	NA	Scopus
32	Satya Ranjan Samal; Malaya Mohanty; Dipti Ranjan Biswal	KIIT DU KIIT DU KIIT DU	A review of effectiveness of speed reducing devices with focus on developing countries	Transactions on Transport Sciences	May-22	13 (01), pp 65-73	NA	Scopus
33	Amit Kumar Das Ujjal Chattaraj	KIIT DU NIT Rourkela	Cellular Automata Model for Lane Changing Activity	International Journal of Intelligent Transportation Systems Research	Apr-22		NA	Scopus & Web of Science
34	Saswat Mahapatra; Kundan Samal; Rajesh Roshan Dash	KIIT DU KIIT DU IIT Bhubaneswar	Waste Stabilization Pond (WSP) for wastewater treatment: A review on factors, modelling and cost analysis	Journal of Environmental Management	Apr-22	Vol. 308, 114668	8.91	Scopus & Web of Science
35	Kundan Samal; Rupam Bandyopadhyay; Rajesh Roshan Dash	KIIT DU IIT Bhubaneswar IIT Bhubaneswar	Biological Treatment of Contaminants of Emerging Concern in Wastewater: A Review	Journal of Hazardous, Toxic, and Radioactive Waste	Apr-22	26 (2), 04022002	NA	Scopus & Web of Science
36	Sushree Sasmita; Dudam Bharath Kumar; Babu Priyadharshini	KIIT DU KIIT DU Bennett University, Greater Noida	Assessment of sources and health impacts of PM10 in an urban environment over eastern coastal plain of India	Environmental Challenges	Apr-22	Vol. 7, 100457	NA	Scopus
37	Manoj Kumar Dash; Sanjay K. Patro; Prasanna Kumar Acharya Mayuresh Dash	KIIT DU VSSUT Burla KIIT DU M.M.Engineers and Consultants	Impact of elevated temperature on strength and micro-structural properties of concrete containing water- cooled ferrochrome slag as fine aggregate	Construction and Building Materials	Mar-22	Vol. 323, 126542	7.693	Scopus & Web of Science
38	Amaresh Tripathy; Prasanna Kumar Acharya	KIIT DU KIIT DU	Characterization of bagasse ash and its sustainable use in concrete as a supplementary binder – A review	Construction and Building Materials	Mar-22	Vol. 322, 126391	7.693	Scopus & Web of Science
39	Pattanaik, Madhu Lisha; Kumar, Sanjit; Choudhary, Rajan; Agarwal, Mayank; Kumar, Bimlesh	KIIT DU IIT, Patna IIT, Guwahati IIT, Patna IIT, Guwahati	Predicting the abrasion loss of open-graded friction course mixes with EAF steel slag aggregates using machine learning algorithms	Construction and Building Materials	Feb-22	Vo. 321, A.N. 126408	7.693	Web of Science

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40	Srishti Saha; Purnachandra Saha; NeelimaTalluri	KIIT DU KIIT DU K L Deemed to be University	Effects of quality of water on the setting times and compressive strength of concrete	Materials Today: Proceedings	Jan-22	Vol. 60, pp 378-383	NA	Scopus
41	Swagato Das Purnachandra Saha; Swatee Prajna Jena; Pratyush Panda	C.V Raman Global University KIIT DU KIIT DU KIIT DU	Geopolymer concrete: Sustainable green concrete for reduced greenhouse gas emission – A review	Materials Today: Proceedings	Jan-22	Vol. 60, pp 62-71	NA	Scopus
42	Monalisa Sharma; Priyadarshinee Behera; Srishti Saha; Tribikram Mohanty; Purnachandra Saha	KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU	Effect of silica fume and red mud on mechanical properties of ferrochrome ash based concrete	Materials Today: Proceedings	Jan-22	Vol. 60, pp 55-61	NA	Scopus
43	Subha M. Roy; Rajendra Machavaram; Sanjib Moulick; C.K. Mukherjee	IIT, Kharagpur IIT, Kharagpur KIIT DU IIT, Kharagpur	Economic feasibility study of aerators in aquaculture using life cycle costing (LCC) approach	Journal of Environmental Management	Jan-22	302, 114037	8.91	Scopus & Web of Science
44	Raj Banerjee Rana Chattaraj Y. M. Parulekar Aniruddha Sengupta	BARC, Mumbai KIIT DU BARC, Mumbai IIT, Kharagpur	Numerical prediction of undrained cyclic triaxial experiments on saturated Kasai river sand using two constitutive models of liquefaction	Bulletin of Engineering Geology and the Environment	Nov-21	80, pp 8565– 8582	4.13	Scopus & Web of Science
45	Divyendu Tushar Disha Das Aparupa Pani Pratyasha Singh	KIIT DU KIIT DU KIIT DU KIIT DU	Geo-Engineering and Microstructural Properties of Geopolymer Concrete and Motar: A Review	Iranian Journal of Science and Technology, Transactions of Civil Engineering	Oct-21		NA	Scopus & Web of Science
46	Aparupa Pani Suresh Prasad Singh	KIIT DU NIT, Rourkela	Reclamation of Sedimented Ash Deposit by Chemical Columns	Journal of Hazardous, Toxic, and Radioactive Waste	Oct-21	25 (04), 04021031	NA	Scopus & Web of Science
47	B. Priyadarshini; Bibhu Prasad Sahoo; T. Sahoo; T. R. Sahoo	KIIT DU KIIT DU SRM, Kattankulathur, Chennai KIIT DU	Effect of Zn doping on dielectric properties of MgO nanoparticles synthesized by microwave-assisted combustion route	Materials Letters	2021	304, A.N. 130645	3.574	Scopus & Web of Science
48	Laxmidhar Panda; Subhakanta Dash; Biswa Bandita Kar; Snigdhac Panigrahi; Itishree Mohanty	KIIT DU S I ET, Dhenkanal KIIT DU Govt. (Autonomous) College, Phulbani S I ET, Dhenkanal	ALKALINE HYDROTHERMAL SYNTHESIS OF ZEOLITE FROM CLASS F COAL FLY ASH	Journal of Solid Waste Technology and Management	2021	47(4), pp. 674-681	NA	Scopus
49	Biswa Bandita Kar; Pratap Kumar Deheri; Dibyaranjan Rout	KIIT DU KIIT DU KIIT DU	Polymer and polymer-based nanocomposite materials for energy	Nano Tools and Devices for Enhanced Renewable Energy	2021	pp. 237-262	NA	Scopus

50	Pratap Kumar Deheri; Biswabandita Kar,	KIIT DU KIIT DU	Synthesis of Nanoclay Composite Material	Engineering Materials	2021	pp. 69-103	0.224	Scopus
51	S Hota; Biswabandita Kar; Manoranjan Mishra	GIT, Bhubaneswar KIIT DU GIT, Bhubaneswar	Removal of phosphorus from contaminated water sources using composite matrix fabricated from agro-based waste materials	Materials Today: Proceedings	2021	NA	NA	Scopus
52	Subhakanta Dash ; Biswabandita Kar; Laxmidhar Panda; Syed Mohammed Mustakim; Itishree Mohanty; Rudra Prasanna Nayak,	SIET, Dhenkanal KIIT DU KIIT DU CSIR-IMMT, Bhubaneswar SIET, Dhenkanal SIET, Dhenkanal	Use of sintered fly ash aggregate in pervious concrete	International Journal of Materials and Product Technology	2021	62(1-3), pp. 199-219	0.743	Scopus & Web of Science
53	Saroj Kumar Barik; Satyanarayan Brahma; Srikanta Samanta; Ajit Kumar Pattanaik; Raj Kishore Patel; Tapan Kumar Bastia; Rabindro Nath Samal; Dibakar Behera;	KIIT DU IGCAR, Tamil Nadu ICAR, kolkata WISA, New Delhi NIT, Rourkela KIIT DU WRTC, Bhubaneswar KIIT DU KIIT DU	Phosphorus sorption behaviour of the largest brackish water lagoon, South Asia	Journal of Earth System Science	2021	130(1),48	1.912	Scopus & Web of Science
54	Deepak Senapati; Jagannath Panda; Rashmirekha Tripathy; Tejaswini sahoo; J.R. Sahu; Madhuri Hembram; Saraswati Soren; C.K. Rath; T.K. Bastia; Rosalin sahu	KIIT DU	Graphene Composite Membrane for Water Desalination	Advances in Science, Technology and Innovation	2021	pp. 227-240	NA	Scopus
55	Manal Alali Bandita Paikaray Benu Gopal Mohapatra	KIIT DU KIIT DU KIIT DU	An insight on the response of foundations resting on sand with geosynthetic materials as a reinforcement	Journal of Physics: Conference Series	Aug-21	12153	NA	Scopus
56	Kundan Samal Rajesh Roshan Dash	KIIT DU IIT Bhubaneswar	Modelling of pollutants removal in Integrated Vermifilter (IVmF) using response surface methodology	Cleaner Engineering and Technology	Jun-21	100060	NA	Scopus

57	Sumanta Chaudhuri Sourick Sinha Paromita Chakraborty Mrutyunjay Das Satyabrata Sahoo Bitanjaya Das	KIIT DU KIIT DU KIIT DU KIIT DU IITISM, Dhanbad KIIT DU	Thermal characteristics of forced convection in combined pressure and shear- driven flow of a non- Newtonian third-grade fluid through parallel plates	Heat Transfer	Jun-21		2.431	Scopus & Web of Science
58	Satya Ranjan Samal Malaya Mohanty S. Moses Santhakumar	KIIT DU KIIT DU NIT, Tiruchirappalli, India	Adverse Effect of Congestion on Economy, Health and Environment Under Mixed Traffic Scenario	Transportation in Developing Economies, Springer Nature	May-21	07 (15), pp 1-10	NA	Web of Science
59	Raj Banerjee Rana Chattaraj Aniruddha Sengupta Y. M. Parulekar	BARC, Mumbai KIIT DU IIT, Kharagpur BARC, Mumbai	Dynamic behaviour of a piled raft resting on saturated Kasai River Sand	Geomechanics and Geoengineerin g	May-21		NA	Scopus & Web of Science
60	Malaya Mohanty Bhagyashree Panda Partha Pratim Dey	KIIT DU KIIT DU IIT, Bhubaneswar	Quantification of surrogate safety measure to predict severity of road crashes at median openings	IATSS Research	Apr-21		NA	Scopus
61	Sangram K. Sahoo Benu Gopal Mohapatra S. K. Patro Prasanna Kumar Acharya	KIIT DU KIIT DU KIIT DU VSS University of Technology	Evaluation of Graded Layer in Ground Granulated Blast Furnace Slag Based Layered Concrete	Construction and Building Materials	Mar-21	276, 122218	7.693	Scopus & Web of Science
62	Malaya Mohanty Yash Raj Subhangee Rout Utkarsh Tiwari Sagarika Roy Satyaranjan Samal	KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU	Operational effects of speed breakers: A Case Study in India	European Transport \ Trasporti Europei	Mar-21	81 (01), pp 1-10	NA	Scopus & Web of Science
63	Malaya Mohanty Partha Pratim Dey	KIIT DU IIT, Bhubaneswar	Operational effects of U-turns at median opening	Transportation Letters - The International Journal of Transportation Research	Mar-21		2.844	Scopus & Web of Science
64	P. Pandey K. Lynch V. Sivakumar B. Solan S. Tripathy Satyajeet Nanda S. Donohue	Queen"s University Belfast, UK Department of Finance, Northern Ireland, UK Queen"s University Belfast, UK Ulster University, UK Cardiff University, UK KIIT DU Cardiff University, UK	Measurements of permeability of saturated and unsaturated soils	Geotechnique	Feb-21	71 (02), pp 170-177	5.554	Scopus & Web of Science
65	Swabarna Roy Chinmay Kumar Kundu	KIIT DU IIT Bhubaneswar	State of the art review of wind induced vibration and its control on transmission towers	Structures	Feb-21	29, pp 254- 264	4.01	Scopus & Web of Science

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66	Swagato Das Purnachandra Saha	KIIT DU KIIT DU	Performance of swarm intelligence based chaotic meta-heuristic algorithms in civil structural health monitoring	Measurement	Feb-21	108533	5.131	Scopus & Web of Science
67	Prasanna Kumar Acharya S. K. Patro	KIIT DU VSS University of Technology	Flexural Behaviour of Reinforced Cement Concrete Beams made with Air-cooled ferrochrome Slag Coarse Aggregate	Indian Concrete Journal	Feb-21		NA	Scopus
68	Pawan Kumar Chamling Dipti Ranjan Biswal Umesh Chandra Sahoo	IIT Bhubaneswar KIIT DU IIT Bhubaneswar	Effect of moulding water content on strength characteristics of a cement- stabilized granular lateritic soil	Innovative Infrastructure Solutions	Jan-21	03(01), 120	NA	Scopus & Web of Science
69	Kundan Samal Soham Kar Shivanshi Trivedi Sudhanshu Upadhyay	KIIT DU KIIT DU KIIT DU KIIT DU	Assessing the impact of vegetation coverage ratio in a floating water treatment bed of Pistia stratiotes	SN Applied Sciences	Jan-21	03(01), 120	NA	Scopus & Web of Science
70	Bandita Paikaray Sarat Kumar Das Benu Gopal Mohapatra	KIIT DU IIT (ISM), Dhanbad KIIT DU	Bearing Capacity of Model Footing on Reinforced Foundation with Crusher Dust	Arabian Journal of Geosciences	Jan-21	57 (2021)	1.827	Scopus & Web of Science
71	Malaya Mohanty Partha Pratim Dey Bhagyashree Panda	KIIT DU IIT Bhubaneswar KIIT DU	Assessment of Traffic Safety at Median Openings using Surrogate Safety Measures: A Case Study in India	European Transport - Trasporti Europei	Dec-20	80 (03)	NA	Scopus & Web of Science
72	Saismrutiranjan Mohanty Sanjib Moulick Shuvendu Singha Sanjoy Kumar Maji	KIIT DU KIIT DU KIIT DU KIIT DU	Exclusion of crystal violet and methylene blue from wastewater using titanate nanotube: Kinetics of the adsorption and photodegradation	Journal of Indian Chemical Society	Dec-20	97 (12b), pp 1-9	NA	Web of Science
73	Malaya Mohanty Partha Pratim Dey	KIIT DU IIT Bhubaneswar	Modeling the lane changing behavior of major stream traffic due to U-turns	Transportation Engineering	Dec-20	Vol. 2, 100012	1.52	Scopus
74	Dipti Ranjan Biswal Umesh Chandra Sahoo Suresh Ranjan Dash	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	Structural response of an inverted pavement with stabilised base by numerical approach considering isotropic and anisotropic properties of unbound layers	Road Materials and Pavement Design	Nov-20	21 (08), pp 2160-2179	3.805	Scopus & Web of Science
75	Kundan Samal Naushin Yasmin Priya Kumari	KIIT DU KIIT DU KIIT DU	Challenges in the implementation of Phyto Fuel System (PFS) for wastewater treatment and harnessing bio- energy	Journal of Environmental Chemical Engineering	Oct-20	Vol. 8 (05), 104388	7.968	Scopus & Web of Science
76	Saismrutiranjan Mohanty Sanjib Moulick Sanjoy Kumar Maji	KIIT DU KIIT DU KIIT DU	Adsorption/photodegradation of crystal violet (basic dye) from aqueous solution by hydrothermally synthesized titanate nanotube (TNT)	Journal of Water Process Engineering	Oct-20	Vo. 37, 101428	7.34	Scopus & Web of Science
77	Kundan Samal Shivanshi Trivedi	KIIT DU KIIT DU	A statistical and kinetic approach to develop a Floating Bed for the treatment of wastewater	Journal of Environmental Chemical Engineering	Oct-20		7.968	Scopus

78	Swagato Das Dr. Purnachandra Saha Suresh Chandra Satapathy Junali Jena	KIIT DU	Social Group Optimization Algorithm for Civil Engineering Structural Health Monitoring	Engineering Optimization (GENO)	Sep-20		NA	Scopus & Web of Science
79	G. Sahu; J. Tripathy; Bibhu Prasad Sahoo	KIIT DU KIIT DU KIIT DU	Significant enhancement of dielectric properties of graphene oxide filled polyvinyl alcohol nanocomposites: Effect of ionic liquid and temperature	Polymer Composites	2020	41(10), pp. 4411-4430	3.531	Scopus & Web of Science
80	K. Dash; N. K. Hota; Bibhu Prasad Sahoo	KIIT DU KIIT DU KIIT DU	Fabrication of thermoplastic polyurethane and polyaniline conductive blend with improved mechanical, thermal and excellent dielectric properties: exploring the effect of ultralow-level loading of SWCNT and temperature	Journal of Materials Science	2020	55(26), pp. 12568- 12591	4.682	Scopus & Web of Science
81	G. Sahu; M. Das; M. Yadav; Bibhu Prasad Sahoo; J. Tripathy	KIIT DU KIIT DU V.B.S. P. University Jaunpur KIIT DU KIIT DU	Dielectric relaxation behavior of silver nanoparticles and graphene oxide embedded poly(vinyl alcohol) nanocomposite film: An effect of ionic liquid and temperature	Polymers	2020	12(2),374	4.967	Scopus & Web of Science
82	D.Das; Biswabandita Kar	KIIT DU KIIT DU	Impact of Soil Moisture and Soil Temperature on the Physico-Chemical Property of Laterite Soil	Asian Journal of Water, Environment and Pollution	2020	17(1), pp. 91-96	NA	Scopus & Web of Science
83	C.R.Sahoo; T.K.Bastia; A.Vikram; Biswabandita Kar	KIIT DU KIIT DU KIIT DU KIIT DU	Fabrication of Hydrophobic Particle Board from Waste Coir Pith and Rice Husk Ash	Asian Journal of Water, Environment and Pollution	2020	17(2), pp. 91-97	NA	Scopus & Web of Science
84	Bikram Keshari Das ; Tanushree Das; Kajal Parashar; S.K.S. Parashar; Rajeev Kumar; A.V. Anupama; Balaram Sahoo	KISS DU KISS DU KIIT DU KIIT DU IIS, Bangalore IIS, Bangalore IIS, Bangalore	Effect of Cr Doping on Structural, Optical and Dielectric Properties of ZnO Nanoceramics Synthesized by Mechanical Alloying	Electronic Materials Letters	2020	16(3), pp. 255-263	NA	Scopus & Web of Science
85	Bikash Pattanayak; Abhishek Mund; J.S. Jayakumar; Kajal Parashar; Sujay K. S. Parashar,	AVV, Amritapuri AVV, Amritapuri AVV, Amritapuri AVI, Amritapuri KIIT DU KIIT DU	Estimation of nusselt number and effectiveness of double- pipe heat exchanger with al2o3-, cuo-, tio2-, and zno- water based nanofluids	Heat Transfer	2020	49(4), pp. 9:2228-2247	NA	Scopus & Web of Science

86	Sasmita Mishra; Santosh Kumar Nathsarma; K.G. Mishra; Raja Kishore Paramguru	KIIT DU KIIT DU KIIT DU KIIT DU	Correlation of particles size with mixed current (im) in electroless deposition of nano silver metal onto polyurethane catheter surface	Materials Technology	2020	35(4), pp. 228-237	3.297	Scopus & Web of Science
87	Priyabrata Mohanty; Dibakar Behera; Shiv Kumar Panda; Tapan Kumar Bastia; Prasant Rath	KIIT DU KIIT DU KIIT DU KIIT DU KIIT DU	Hybrid composite laminates from UPE/ESOA blend reinforced with chitosan and bamboo fiber: A study of mechanical and thermal properties	Asian Journal of Chemistry	2020	32(6), pp. 1321-1328	0.355	Scopus
88	C.R.Sahoo; T.K.Bastia; A.Vikram; Biswabandita Kar	KIIT DU KIIT DU KIIT DU KIIT DU	Fabrication of Hydrophobic Particle Board from Waste Coir Pith and Rice Husk Ash	Asian Journal of Water, Environment and Pollution	2020	17(2), pp. 91-97	NA	Scopus & Web of Science
89	Saismrutiranjan Mohanty ; Sanjoy Kumar Maji,	KIIT DU KIIT DU	Adsorption/photodegradation of methylene blue from synthetic wastewater on titanate nanotubes surfaces	Water Science and Technology	2020	82(11), pp. 2562-2575	2.43	Scopus
90	Saismrutiranjan Mohanty ; Sanjib Moulick ; Sanjoy Kumar Maji,	KIIT DU KIIT DU KIIT DU	Adsorption/photodegradation of crystal violet (basic dye) from aqueous solution by hydrothermally synthesized titanate nanotube (TNT)	Journal of Water Process Engineering	2020	Volume 37 Article No. 101428	7.34	Scopus & Web of Science
91	Saismrutiranjan Mohanty ; Sanjib Moulick ; Sanjoy Kumar Maji,	KIIT DU KIIT DU KIIT DU	Adsorption/photodegradation of Congo Red on TNT surfaces: A kinetic study	Journal of the Indian Chemical Society	2020	97(4), pp. 563-570	0.243	Scopus & Web of Science
92	Habtamu Gelaw Mekonnen ; Debasis Sahoo ; Samaresh Jana ; Sanjoy Kumar Maji,	KIIT DU KIIT DU KIIT DU KIIT DU	Exploration of mesyl chloride in a one pot conversion of carboxylic acids to ketones	Current Organocatalys is	2020	7(3), pp. 242-247		Scopus & Web of Science
93	Mohammad Tanveer Sanjib Moulick C.K. Mukherjee	Tamil Nadu Fisheries University KIIT DU IIT, Kharagpur	Mathematical model for goldfish recirculating aquaculture system (GRAS)	Aquacultural Engineering	Aug-20	Vo. 90	3.273	Scopus & Web of Science
94	A. K. Pani B. C. Panda	KIIT DU	Load deflection profile of concrete block pavement	Journal of The Institution of Engineers (India): Series A	Jul-20		NA	Scopus
95	Subodha Kumar Rautaray Dillip Kumar Bera A. K. Rath	KIIT DU	Utilization Of Industrial Waste For Production Of Self Compacting Geo-Polymer Concrete	International Journal of Scientific and Technology Research	Jun-20	Vol. 9 (06), pp 1027- 1031	NA	Scopus (Accepted)

96	Dr. Kirtikanta Sahoo P. K. Dhir P. R. R. Teja P. Sarkar R. Davis	KIIT DU Univ. of Strathclyde, Glasgow G1 1XJ, UK NIT, Rourkela NIT, Rourkela NIT, Calicut	Seismic Safety Assessment of Buildings with Fly-Ash Concrete	Practice Periodical on Structural Design and Construction	Jun-20		NA	Scopus & Web of Science
97	Swagato Das Purnachandra Saha	KIIT DU KIIT DU	Performance of hybrid decomposition algorithm under heavy noise condition for health monitoring of structure	Journal of Civil Structural Health Monitoring	Jun-20		3.338	Scopus & Web of Science
98	Amarendra Kumar Mohapatra Dillip Kumar Bera Bainsi Dhara Nayak A. K. Rath	Water Resource Department, Govt. of Odisha KIIT DU CSIR-IMMT, Bhubaneswar KIIT DU	Behaviour of Geopolymer Concrete in Ambient Curing Using Industrial Wastes	ng Concrete Journal May-20 94 (05), pp 32-42		NA	Scopus	
99	Subha M. Roy Sanjib Moulick Chanchal Kumar Mukherjee	IIT, Kharagpur KIIT DU IIT, Kharagpur	Design Characteristics of Perforated Pooled Circular Stepped Cascade (PPCSC) Aeration System	Water Science and Technology: Water Supply	May-20		NA	Scopus & Web of Science
10 0	Brundaban Beriha Umesh Chandra Sahoo	Beriha sh Chandra Sahoo RIII DU Analysis of flexible pavement with cross-anisotropic Pavement Bhubaneswar material properties Research and Technology		NA	Scopus			
10 1	Saismrutiranjan Mohanty Sanjib Moulick Sanjoy Kumar Maji	KIIT DU KIIT DU KIIT DU	Adsorption/photodegradation of Congo Red on TNT surfaces: A kinetic study	Journal of the Indian Chemical Society	Apr-20	Vo. 97, pp 1-	0.243	Scopus
10 2	Kirtikanta Sahoo P. K. Dhir P. R. Ravi Teja P. Sarkar,	KIIT DU Univ. of Strathclyde, Glasgow G11XQ, UK NIT, Rourkela NIT, Rourkela	Variability of Silica Fume Concrete and Its Effect on Seismic Safety of Reinforced Concrete Buildings	Journal of Materials in Civil Engineering	Apr-20	32 (04)	3.651	Scopus & Web of Science
10 3	Brundaban Beriha Umesh Chandra Sahoo	KIIT DU IIT, Bhubaneswar	Fatigue behaviour of cement stabilized materials using dissipated energy	International Journal of Pavement Research and Technology	Mar-20		NA	Scopus
10 4	Dipti Ranjan Biswal Umesh Chandra Sahoo Suresh Ranjan Dash	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	Fatigue Characteristics of Cement Stabilized Granular Lateritic Soils	Journal of Transportation Engineering, Part-B Pavements	Mar-20	146 (01)	NA	Scopus & Web of Science
10 5	Swabarna Roy Chinmay Kumar Kundu	KIIT DU KIIT DU	KIIT DU use of optimization algorithms in steel truss Scientific and Technology Research pp 160-165		NA	Scopus		
10 6	Lovely Sabat Chinmay Kumar Kundu KIIT DU Composites Testing of Mechanical Properties of E- Glass Fiber and A-R Glass fiber Reinforced Epoxy Polymer Composites Feb-20 13266 - 13270		NA	Scopus (Accepted)				

10 7	Bandita Paikaray; Sarat Kumar Dash; Benu Gopal Mohapatra	KIIT DU IIT (ISM), Dhanbad KIIT DU	Effect of reinforcement layout on interference effect of square footings on reinforced crusher dust	International Journal of Geotechnical Engineering	Jan20		NA	Scopus & Web of Science
10 8	Malaya Mohanty; Satya Ranjan Samal	KIIT DU KIIT DU	Role of young drivers in road crashes: A case study in India	European Transport - Trasporti Europei	Dec-19		NA	Scopus & Web of Science
10 9	Kundan Samal S. Kar S. Trivedi	KIIT DU KIIT DU KIIT DU	Ecological floating bed (EFB) for decontamination of polluted water bodies: Design, mechanism and performance	Journal of Environmental Management	Dec-19	Vol. 251	8.91	Scopus & Web of Science
11 0	Amit Kumar Das Gaurav Udgata A. K. Pani	KIIT DU KIIT DU KIIT DU	IT DU IT DU Plastic disposal Engineering and Technology Dec-19 10 (12), pp 339-344		NA	Google Scholar		
11 1	Shiv Shankar Kumar A. Murali Krishna A. Dey	KIIT DU IIT, Tirupati IIT, Guwahati	Assessment of Dynamic Response of Cohesionless Soil Using Strain-Controlled and Geological Nov-19		NA	Scopus & Web of Science		
11 2	Abhilash Mishra; Shubham Choudhary Jyotiprakash Padhi Prof. Bitanjaya Das	KIIT DU KIIT D		NA	Google Scholar			
11 3	Srishti Saha Purnachandra Saha Tribikram Mohanty	KIIT DU KIIT DU KIIT DU	Structural Behaviour Fly ash and Ferrochrome ash Based Geopolymer Concrete with Recycled Aggregate	International Journal of Recent Technology and Engineering (IJRTE)	Nov-19	8 (04) pp 9329-9335	NA	Google Scholar
11 4	Tribikram Mohanty Srishti Saha Purnachandra Saha Bitanjaya Das	KIIT DU KIIT DU KIIT DU	Structural Behaviour of Concrete with Fly-Ash and Ferrochrome Ash as Partial Replacement of Cement	International Journal of Recent Technology and Engineering (IJRTE)	Nov-19	8 (04), pp 11086- 11091	NA	Google Scholar
11 5	Kundan Samal AlakhRaj Mohan NabinChaudhary Sanjib Moulick	KIIT DU KIIT DU KIIT DU KIIT DU	Application of vermitechnology in waste management: A review on mechanism and performance	Journal of Environmental Chemical Engineering	Oct-19	7 (05), Article Number 103392	7.968	Scopus & Web of Science
11 6	D. Meher; Suman; N. Karna; Bibhu Prasad Sahoo KIIT DU		Polymer	2019	181, A.N. 121759	4.432	Scopus & Web of Science	

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11 7	N. K. Hota; N. Karna; D. K. Tripathy; K. A. Dubey; Bibhu Prasad Sahoo	KIIT DU KIIT DU IIT Kharagpur	Exploring the effect of electron beam on swelling, gel fraction, mechanical and thermal properties of ethylene acrylic elastomer/millable polyurethane rubber blends	Plastics, Rubber and Composites	2019	48(6), pp. 248-255	NA	Scopus
11 8	N. K. Hota; N. Karna; K A. Dubey; D. K.Tripathy; Bibhu Prasad Sahoo	KIIT DU KIIT DU DAE, Trombey, Mumbai IIT Kharagpur KIIT DU	Effect of temperature and electron beam irradiation on the dielectric properties and electromagnetic interference shielding effectiveness of ethylene acrylic elastomer/millable polyurethane/SWCNT nanocomposites	European Polymer Journal	2019	112, pp. 754-765	5.546	Scopus
11 9	Bibhu Prasad Sahoo,	KIIT DU	Fabrication of radiation crosslinked and MWCNT reinforced ethylene acrylic elastomer nanocomposites: Evaluation of mechanical, dynamic mechanical, thermal and dielectric properties	Materials Today: Proceedings	2019	41, pp. 203- 210	NA	Scopus & Web of Science
12 0	Nanda Kumar Hota ; Bibhu Prasad Sahoo,	D.A.V.(Auto) College Titilagarh, Bolangir, KIIT DU	Single-walled carbon nanotube filled thermoplastic polyurethane nanocomposites: Influence of ionic liquid on dielectric properties	Materials Today: Proceedings	2019	41, pp. 216- 222	NA	Scopus & Web of Science
12	Bikram Keshari Das; Suresh K Verma; Tanushree Das; Pritam Kumar Panda; Kajal Parashar; Mrutyunjay Suar; S.K.S. Parashar.	KISS DU KIIT DU KIIT DU University of Freiburg, Freiburg KISS DU KIIT DU KIIT DU	Altered electrical properties with controlled copper doping in ZnO nanoparticles infers their cytotoxicity in macrophages by ROS induction and apoptosis	Chemico- Biological Interactions	2019	297, pp. 141-154	5.168	Scopus & Web of Science
12 2	Bikram Keshari Das; Tanushree Das; Kajal Parashar; S.K.S.Parashar; Rajeev Kumar; Harish K.Choudhary; Vijay B. Khopkar; A.V. Anupama; Balaramb Sahoo	KIIT DU KIIT DU KIIT DU KIIT DU IIS, Bangalore IIS, Bangalore IIS, Bangalore IIS, Bangalore	Investigation of structural, morphological and NTCR behaviour of Cu-doped ZnO nanoceramics synthesized by high energy ball milling	Materials Chemistry and Physics	2019	221, pp. 419-429	4.778	Scopus & Web of Science
12 3	S.K. Natthsharma; Sasmita Mishra; K.G.Mishra; Raj Kishore Paramguru	KIIT DU KIIT DU KIIT DU KIIT DU	The Effect of Bath Parameters on the Electrocrystallisation of Co x–Cu100–x Alloys on Stainless Steel Cathode	Transactions of the Indian Institute of Metals	2019	Volume 73, Issue 2, Pages 377 - 387	1.391	Scopus & Web of Science

12 4	Saroj Kumar Barik; Satyanarayan Brahma; Tapan Kumar Bastia; Dibakar Behera; Manish Kumar; Pratap Kumar Mohanty; Prasanta Rath	KIIT DU IGCAR,Tamil Nadu KIIT DU KIIT DU CSIR-IMMT, Bhubaneswar Berhampur University KIIT DU	Characteristics of geochemical fractions of phosphorus and its bioavailability in sediments of a largest brackish water lake, South Asia	Ecohydrology and Hydrobiology	2019	19(3), pp. 370-382	2.957	Scopus & Web of Science
12 5	Saroja Kumar Barik; Satyanarayan Bramha; Tapan Kumar Bastia; Dibakar Behera; Pratap Kumar Mohanty; Prasanta Rath,	KIIT DU Government of India, Kalpakkam KIIT DU KIIT DU DMS, Berhampur University KIIT DU	Distribution of geochemical fractions of phosphorus and its ecological risk in sediment cores of a largest brackish water lake, South Asia	International Journal of Sediment Research	2019	34(3), pp. 251-261	3.259	Scopus & Web of Science
12 6	Priyabrata Mohanty; Tapan Kumar Bastia; Dibakar Behera ; Shivkumari Panda	KIIT DU KIIT DU KIIT DU UACST, Cuttack,	Chitosan grafted carbon nanotubes reinforced vinyl ester/upe blend based partially bio-nanocomposite	Asian Journal of Chemistry	2019	31(9), pp. 1943-1948	0.355	Scopus
12 7	Saroja Kumar Barik ; Satyanarayan Bramha ; Dibakar Behera ; Tapan Kumar Bastia ; Gregory Cooper; Prasanta Rath,	KIIT DU Government of India, Kalpakkam KIIT DU KIIT DU SOAS, University of London KIIT DU	Ecological health assessment of a coastal ecosystem: Case study of the largest brackish water lagoon of Asia	Marine Pollution Bulletin	2019	138, pp. 352-363	7.001	Scopus & Web of Science
12 8	Sourav Das Mohamed Sajeer Arunasis Chakraborty	KIIT DU IIT, Guwahati IIT, Guwahati	Vibration control of horizontal axis offshore wind turbine blade using SMA stiffener	Smart Materials and Structures	Aug-19	28 (09), AN- 095025	4.131	Scopus & Web of Science
12 9	S. Chaudhuri Paromita Chakraborty Prof. B. Das R. K. Singh	KIIT DU KIIT DU KIIT DU KIIT DU King Khalid University, Abha, 61421, Saudi Arabia	Flow Analysis of Multilayer Gravity-Driven Sisko Fluid over a Flat Inclined Plane	Arabian Journal for Science and Engineering	Jul-19	44 (9), pp 8081-8093	2.807	Scopus & Web of Science
13 0	Rishu Prasad S. K. S. Parashar	KIIT DU KIIT DU	Structural and electromagnetic properties of nano cobalt ferrite polymeric thin film	Journal of Materials Science: Materials in Electronics	May-19	30(13), pp 12023- 12030	2.779	Scopus & Web of Science
13	J. J. Prabhu Anil Kumar Dash V. Nagarajan O. P. Sha	IIT, Kharagpur KIIT DU IIT, Kharagpur IIT, Kharagpur	On the hydrodynamic loading of marine cycloidal propeller during maneuvering	Applied Ocean Research	May-19	86, pp 87- 110	3.761	Scopus & Web of Science

13 2	K. Pareek S. Saha N. Gupta Purnachandra Saha	Nanhua University, Taiwan KIIT DU KIIT DU KIIT DU	Effect of Recycled Aggregate on Mechanical and Durability Properties of Concrete	International Journal of Structural and Civil Engineering Research	May-19	8 (2), pp 119-125	NA	Google Scholar
13 3	Ankita Sikder; Purnachandra Saha	KIIT DU KIIT DU	Effect of bacteria on performance of concrete/mortar: A review	International Journal of Recent Technology and Engineering	Apr-19	7 (6C2), pp 12-17	NA	Scopus
13 4	Rishu Prasad A. E. Mohamoud S. K. S. Parashar	KIIT DU KIIT DU KIIT DU	Enhancement of electromagnetic shielding and piezoelectric properties of White Portland cement by hydration time	Construction and Building Materials	Apr-19	204; pp 20- 27	7.693	Scopus & Web of Science
13 5	P. K. Dammala Shiv Shankar Kumar A. Murali Krishna S. Bhattacharya	IIT, Guwahati KIIT DU IIT, Guwahati University of Surrey, Guildford, GU2 7XH, UK	Dynamic soil properties and liquefaction potential of northeast Indian soil for non- linear effective stress analysis	Bulletin of Earthquake Engineering	Mar-19	17 (6), pp 2899-2933	4.556	Scopus & Web of Science
13 6	Kirtikanta Sahoo P. Sarkar, P. R. Davis	KIIT DU NIT, Rourkela NIT, Rourkela	Mechanical properties of silica fume concrete designed as per construction practice	Proceedings of Institution of Civil Engineers: Construction Materials	Feb-19	172 (1), pp 20-28	NA	Scopus & Web of Science
13 7	Kundan Samal R. R. Dash P. Bhunia	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	Design and development of a hybrid macrophyte assisted vermifilter for the treatment of dairy wastewater: A statistical and kinetic modelling approach	Science of the Total Environment	Dec-18	645, pp. 156-169	10.75	Scopus & Web of Science
13 8	Dudam Bharat Kumar S. Verma O. Boucher R. Wang	KIIT DU IIT, Kharagpur Sorbonne Université, Paris, France Fudan University, Shanghai, China	Constrained simulation of aerosol species and sources during pre-monsoon season over the Indian subcontinent	Atmospheric Research	Dec-18	214, pp 91- 108	5.965	Scopus & Web of Science
13 9	Swagato Das Purnachandra Saha	KIIT DU KIIT DU	A Review of Some Advanced Sensors used for Health Diagnosis of Civil Engineering Structures	Measurement	Dec-18	129, pp 68- 90	5.131	Scopus & Web of Science
14 0	Manoj Kumar Dash S. K. Patro	KIIT DU VSS University of Technology, Burla	Performance assessment of ferrochrome slag as partial replacement of fine aggregate in concrete	European Journal of Environmental and Civil Engineering	Dec-18		2.187	Scopus & Web of Science
14 1	Paromita Chakraborty A. Sarkar	KIIT DU IIT, Bhubaneswar	Study of flow characteristics within randomly distributed submerged rigid vegetation	Journal of Hydrodynami cs	Nov-18	31 (2), pp 358-367	2.983	Scopus & Web of Science
14 2	V. Sharma S. Irmak Jyotiprakash Padhi	University of Minnesota, Saint Paul, Minnesota University of Nebraska— Lincoln, Lincoln, Nebraska KIIT DU	Effects of cover crops on soil quality: Part II. Soil exchangeable bases (potassium, magnesium, sodium, and calcium), cation exchange capacity, and soil micronutrients (zinc, manganese, iron, copper, and boron)	Journal of Soil and Water Conservation	Nov-18	73 (6), pp 652-668	3.209	Scopus & Web of Science

14 3	V. Sharma S. Irmak Jyotiprakash Padhi Dipti Ranjan	University of Minnesota, Saint Paul, Minnesota University of Nebraska— Lincoln, Lincoln, Nebraska KIIT DU	Effects of cover crops on soil quality: Part I. Soil chemical properties-organic carbon, total nitrogen, pH, electrical conductivity, organic matter content, nitrate-nitrogen, and phosphorus	Journal of Soil and Water Conservation	Nov-18	73 (6), pp 637-651	3.209	Scopus & Web of Science
14 4	Biswal Umesh Chandra Sahoo Suresh Ranjan Dash	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	Mechanical characteristics of cement stabilised granular lateritic soils for use as structural layer of pavement	Road Materials and Pavement Design	Nov-18		3.805	Scopus & Web of Science
14 5	Prof. K. K. Sahoo; Aparna Sathyan; Pradip Sarkar; Robin Davis;	KIIT DU NIT, Rourkela NIT, Rourkela NIT, Rourkela	Improvement of the mechanical properties of Mortar and Concrete using Ureolytic Bacteria	Construction Materials, Proceeding of Institution of Civil engineers (ICE)	Oct-18	171 (5): pp 179-186	NA	Scopus & Web of Science
14	P. G. Whitehead L. Jin I. Macadamc T. Janes Sananda Sarkar H. J. E. Rodda R. Sinha R. J. Nicholls	University of Oxford, Oxford, UK State University of New York College at Cortland, USA Exeter EX1 3PB, UK Exeter EX1 3PB, UK Hydro-GIS Ltd, UK IIT, Kanpur University of Southampton, UK	Modelling impacts of climate change and socio-economic change on the Ganga, Brahmaputra, Meghna, Hooghly and Mahanadi river systems in India and Bangladesh	Science of the Total Environment	Sep-18	Vol. 636, PP- 1362- 1372	10.75	Scopus & Web of Science
14 7	Arijit Saha Purnachandra Saha S. K. Patro	KIIT DU KIIT DU VSS University of Technology, Burla	Seismic protection of the benchmark highway bridge with passive hybrid control system	Earthquakes and Structures	Sep-18	15 (3), pp 227-241	2.025	Scopus & Web of Science
14 8	Preetynanda Nanda S. P. Singh P. Chamling	KIIT DU	Effect of Slenderness Ratio on the Behaviour of Encased Stone Column	International Journal of Engineering Research & Technology	Sep-18	7 (9), pp 105-110	NA	Google Scholar
14 9	S.Dash; Biswabandita Kar	KIIT DU KIIT DU	Environment friendly pervious concrete for sustainable construction	IOP Conference Series: Materials Science and Engineering	2018	410(1),0120 05	NA	Scopus & Web of Science
15 0	S.K.Pradhan, I.Chakraborty, Biswabandita Kar	KIIT DU Malda College, Malda, KIIT DU	Lignin : A case study as an alternate to diesel fuels	Indian Journal of Environmental Protection	2018	38(7), pp. 611-613	NA	Scopus
15 1	S.K.Dash; S.K.Kar; Biswabandita Kar	KIIT DU NAC, Bhubaneswar KIIT DU	Effect of sand addition on the mechanical properties of pervious concrete	Indian Journal of Environmental Protection	2018	38(2), pp. 134-141	NA	Scopus
15 2	L. Panda ; Biswabandita Kar	KIIT DU KIIT DU	Preparation of Fly Ash Based Zeolite for Fluoride Removal	Asian Journal of Water, Environment	2018	15(4), pp. 105-113	NA	Scopus & Web of Science

				and Pollution				
15 3	S.Hota Biswabandita Kar	GIT, Bhubaneswar KIIT DU	Evaluation of physico- chemical parameters of river Rushikulya, Berhampur, Odisha	Indian Journal of Environmental Protection	2018	38(1), pp. 23-28	NA	Scopus
15 4	Sasmita Mishra; Santosh Kumar Nathsarma; K.G. Mishra; Raja Kishore Paramguru	KIIT DU KIIT DU KIIT DU KIIT DU	Kinetics and mechanism of electroless deposition of silver from an aqueous bath	Journal of the Electrochemic al Society	2018	165(5), pp. D206-D214	4.386	Scopus & Web of Science
15 5	Shivkumari Panda ; Dibakar Behera ; Prasant Rath ; Tapan Kumar Bastia,	KIIT DU KIIT DU KIIT DU KIIT DU	Enhanced properties of UPE/ESOA partially bio- nanocomposites reinforced with chitosan functionalized graphene nanoplatelets: An innovative approach	Bulletin of Materials Science	2018	41(4),102	1.878	Scopus & Web of Science
15 6	Kundan Samal R. R. Dash P. Bhunia	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	A comparative study of macrophytes influence on performance of hybrid vermifilter for dairy wastewater treatment	Journal of Environmental Chemical Engineering	Aug-18	6(4), pp. 4714-4726	7.968	Scopus & Web of Science
15 7	V. Sivakumar S. Donohue L. Rodvand Satyajeet Nanda S. Tripathy	Queen's University Belfast, UK University College Dublin, Ireland NTNU, Norway KIIT DU Cardiff University, UK	Behaviour of normally consolidated clay containing isolated solid inclusions	Proceedings of the Institution of Civil Engineers: Geotechnical Engineering	Aug-18	171 (4), pp 345-356	NA	Scopus & Web of Science
15 8	Dipti Ranjan Biswal Umesh Chandra Sahoo Suresh Ranjan Dash	KIIT DU IIT, Bhubaneswar IIT, Bhubaneswar	Non-destructive strength and stiffness evaluation of cement- stabilised granular lateritic soils	Road Materials and Pavement Design	Aug-18	21(03), pp 835-849	3.805	Scopus & Web of Science
15 9	Satyajeet Nanda V. Sivakumar S. Donohue S. Graham	KIIT DU Queen's University Belfast, UK University College Dublin, Ireland University College Dublin, Ireland	Small-strain behaviour and crushability of Ballyconnelly carbonate sand under monotonic and cyclic loading	Canadian Geotechnical Journal	Jul-18	55 (7), pp 979-987	4.167	Scopus & Web of Science
16 0	Manoj Kumar Dash S. K. Patro	KIIT DU VSS University of Technology, Burla	Effects of water cooled ferrochrome slag as fine aggregate on the properties of concrete	Construction and Building Materials	Jul-18	Vol. 177, PP 457-466	7.693	Scopus & Web of Science

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16 1	P. Whitehead, L. Jin I. Macadam T. S. Janes Sananda Sarkar H. J. E. Rodda R. Sinha R. J. Nicholls	Oxford, Oxford, UK State University of New York College at Cortland, USA Met Office, Fitzroy Road, UK Met Office, Fitzroy Road, UK KIIT DU Hydro-GIS Ltd., UK IIT, Kanpur University of Southampton	Corrigendum to "Modelling Impacts of Climate Change and Socio-Economic Change on the Ganga, Brahmaputra, Meghna, Hooghly and Mahanadi River Systems in India and Bangladesh"	Science of the Total Environment	Jul-18	644: pp 1651-1652	10.75	Scopus
16 2	Swagato Das Purnachandra Saha	KIIT DU KIIT DU	Structural health monitoring techniques implemented on IASC–ASCE benchmark problem: a review	echniques implemented on IASC–ASCE benchmark Lealth		8 (4), pp 689-718	3.338	Scopus & Web of Science
16 3	Y. K. Sharma J. C. Pati A. Patel A. Jose Purnachandra Saha	KIIT DU KIIT DU	Contribution of material properties on seismic behaviour of shear wall	International Journal of Research	Jul-18	5 (13), pp 224-232	NA	Google Scholar
16 4	R. Tripathy A. Chatterjee V. Vaishali P. Saha	KIIT DU KIIT DU	Effect of material properties on the mechanical, thermal and acoustic properties of hollow blocks: A review	International Journal of Research	Jul-18	5 (13), pp 159-169	NA	Google Scholar
16 5	T. Mohammad Sanjib Moulick C. K. Mukherjee	College of Fisheries Engineering, Tamil Nadu KIIT DU IIT, Kharagpur	Economic feasibility of goldfish (Carassius auratus Linn.) recirculating aquaculture system	Aquaculture Research	Jun-18	49 (9), pp 2945-2953	2.184	Scopus & Web of Science
16 6	L. Jin P. G. Whitehead H. Rodda I. Macadam Sananda Sarkar	State University of New York College at Cortland, USA University of Oxford, Oxford, UK Hydro-GIS Ltd., UK Met Office, Fitzroy Road, UK KIIT DU	Simulating climate change and socio-economic change impacts on flows and water quality in the Mahanadi River system, India	Science of the Total Environment	May-18	Vol. 637- 638: PP 907-917	10.75	Scopus & Web of Science
16 7	Prasanna K. Acharya; S. K. Patro;	KIIT DU VSS University of Technology, Burla	Bond, permeability, and acid resistance characteristics of ferrochrome waste concrete	ACI Materials Journal	May-18	115 (03), PP 359-368	1.661	Scopus & Web of Science

16 8	M.U. Arshad A. Kundu E. Bertino A. Ghafoor C. Kundu	Purdue University, United States Watson Research Center, Yorktown Heights, NY Purdue University, United States Purdue University, United States KIIT Deemeed to be University	Efficient and Scalable Integrity Verification of Data and Query Results for Graph Databases	IEEE Transactions on Knowledge and Data Engineering	May-18	30(05), pp 866-879	9.235	Scopus & Web of Science
16 9	Manish Kumar K. S. Parmar Dudam Bharath Kumar A. Mhawish D. M. Broday R. K. Mall T. Benarjee	BHU, Varanasi, India Punjab Technical University KIIT DU BHU, Varanasi, India Civil and Environmental Engineering, Technion, Haifa, Israel BHU, Varanasi, India BHU, Varanasi, India	Long-term aerosol climatology over Indo- Gangetic Plain: Trend, prediction and potential source fields	Atmospheric Environment	May-18	Vol. 180, pp 37-50	5.755	Scopus & Web of Science
17 0	Biswajit Jena Bipin Bihari Mohanty K. K. Sahoo	DRIEMS, Cuttack, Odisha DRIEMS, Cuttack, Odisha KIIT DU	Comparative Study of Self Compacting Concrete Reinforced with Different Chopped Fibers	Proceedings of Institution of Civil Engineers: Construction Materials	Apr-18	171 (2), pp 72-84	NA	Scopus
17 1	Nikesh Ganesh Rathod N. C. Moharana S. K. S. Parashar	KIIT DU KIIT DU KIIT DU	Effect of nano-SiO2 on physical and electrical properties of PPC cement using complex impedance spectroscopy	Materials Today: Proceedings	Feb-18	5(1): PP 193-199	NA	Scopus & Web of Science
17 2	K. Bhowmik Purnachandra Saha	KIIT DU KIIT DU	Seismic response control of benchmark highway bridge using passive hybrid control systems	International Journal of Materials and Structural Integrity	Feb-18	11(4): pp 155-174	NA	Scopus
17 3	N Sarath Chandra Reddy D. M. Dewaikar B. G. Mohapatra	IIT, Mumbai IIT, Mumbai KIIT DU	Gauss Integration Based Approach for the Establishment of Top Flow Line and Seepage Analysis in Homogeneous Earth Embankment Dams	International Journal of Advanced Structures & Geotechnical Engineering	Jan-18	1 (01), PP 1- 12	NA	Google Scholar

List of Conference Publication

Sl. No	Name of the Faculty	Year of Publicati on	Title of the Conference Paper	Conference Title	Place of Publication: Publisher	National / Internation al	Part of E- databases (Web of Knowledge/ Scopus/ Mathscience etc Please specify)
1	Ankita Sikder Purnachandra Saha	Aug-21	Effect of different types of Waste as Binder on Durability Properties of Geopolymer Concrete: A Review	2021 International Conference on Community Based Research and Innovations in Civil Engineering, CBRICE 2021, Jaipur	IOP Conference Series: Earth and Environmental Science	International	Scopus
2	Ashish Kundu; Abhishek Reddypalle; Chnimaya Kumar Kundu	Dec-21	AI-Driven Selective Protection of Multimedia Data	Bulletin of Indian Aerosol Science and Technology Association (IASTA)	3rd IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications, TPS-ISA 2021	International	Scopus
3	Chnimaya Kumar Kundu	Oct-20	Towards Dynamic Access Control for Privacy	2nd IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications, TPS-ISA 2020	Atlanta; United States	International	Scopus
4	S. R. Samal P. Gireesh Kumar J. Cyril Santhosh M. Santhakumar	Oct-20	Analysis of Traffic Congestion Impacts of Urban Road Network under Indian Condition	Sustainable Construction Technologies and Advancements in Civil Engineering, ScTACE 2020	Bhimavaram; India	International	Scopus
5	Preetynanda Nanda	Aug-20	Application of Biopolymers for Enhancing Engineering Properties of Problematic Soils and Industrial wastes: A Review	National Conferences on Advances in Sustainable Constrution Materials (ASCM 2020)		National	Scopus
6	M. Mohanty S. R. Samal Yash Raj Subhangee Rout Utkarsh Tiwari Sagarika Roy	Mar-20	Performance Analysis of Speed Breakers: A Case Study in India	2nd ASCE India Conference	Novotel, Kolkata	National	Google Scholar

7	M. Mohanty P. P. Dey B. Panda S. K. Das	Mar-20	Traffic safety analysis at median openings	2nd ASCE India Conference	Novotel, Kolkata	National	Google Scholar
8	T. Majumder B. Das J. Padhi	Feb-20	Distribution and Autocorrelation analysis of monsoon rainfall over Odisha	III Indian National Groundwater Conference	CWRDM, Kozhikode, Kerala	National	Google Scholar
9	B. Bisoi Divyajit Das Biswajit Das	Jan-20	Assessing Global Environmental Sustainability: Second-Order Effect of Information and Communication Technology	3rd International Conference on Smart Computing and Informatics, SCI 2018; Bhubaneswar; India; 21	Smart Innovation, Systems and Technologies	International	Scopus
10	Dudam Bharath Kumar	Dec-19	Satellite based observations for Surface level Urban Heat Island over Bhubaneswar: A case study	International Conference on countermeasures of urban heat island (IC2UHI)	IIIT Hyderabad	International	Google Scholar
11	Sukanya Dasgupta Nilanjana Roy Dudam Bharath Kumar	Dec-19	Use Urban Green as a Mitigation Strategy to Combat Urban Heat Island Effect: A Case of Puri-Cuttack Road	International Conference on countermeasures of urban heat island (IC2UHI)	IIIT Hyderabad	International	Google Scholar
12	S. R. Samal M. Mohanty	Nov-19	Development of flexible pavement cost models for weak subgrade stabilized with fly ash and lime	The 9th International Conference on Sustainable Waste Management towards Circular Economy	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
13	Bittu Ghosh D. Bharath Kumar Mohibullah	Nov-19	Role of GHG Emissions from Livestock Waste Controlling to Climate over India: A short Review	The 9th International Conference on Sustainable Waste Management towards Circular Economy	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
14	B. Jena K. K. Sahoo	Nov-19	Mechanical Properties and Chloride Content on Self Compacting Concrete Exposed to Sea Water	The 9th International Conference on Sustainable Waste Management towards Circular Economy	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
15	Dudam Bharath Kumar	Nov-19	Study on Improvement of Strength in Weak Soil using Rice Husk	The 9th International Conference on Sustainable Waste	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar

				Management towards Circular			
				Economy			
16	Dudam Bharath Kumar S. Jayalekshmi	Nov-19	Effect of Temperature on Adsorption of Municipal Solid Waste Leachate using Soil as an Adsorbent	The 9th International Conference on Sustainable Waste Management towards Circular Economy	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
17	Sushree Sasmita Dudam Bharath Kumar	Nov-19	Study of water and wastewater treatment at Hindustan Coca- cola Pvt. Ltd. At Khurda, Odisha, India	The 9th International Conference on Sustainable Waste Management towards Circular Economy	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
18	B. Bisoi Divyajit Das P. S. Subbarao B. Das	Nov-19	An Evaluation on Green Manufacturing: It's Technique, Significance and Rationality	International Conference on Advances in Materials and Manufacturing Engineering, ICAMME 2019	IOP Conference Series: Materials Science and Engineering	International	Scopus
19	A. Panda B. Das J. Padhi P. Chakraborty	Oct-19	Spatio-Temporal trend of groundwater level in Odisha		IIT Roorkee, Roorkee, India	International	Google Scholar
20	M. Mohanty S. R. Samal	Jul-19	Road crashes among adolescents: A case study	International Conference on Recent Development in Sustainable Infrastructures (Materials & Management) ICRDSI 2019	KIIT DU, Bhubaneswar, Odisha, India	International	Google Scholar
21	B. Paikaray S. K. Das B. G. Mohapatra S. Sarangi	Apr-19	Behaviour of Rectangular Footing on Reinforced Crusher Dust	International Conference on Smart Materials and Techniques for Sustainable Development, SMTS(2019)	Dr. N.G.P. Institute of Technology, Coimbatore	International	Google Scholar
22	Tribikram Mohanty Souna Majhi Purnachandra Saha Bitanjaya Das	Apr-19	Combined Effect of Fly-Ash and Ferrochrome Ash as Partial Replacement of Cement on Mechanical Properties of Concrete	International Conference on Green Energy and Environment Engineering, CGEEE 2018	Seisa Dohto University Kitahiroshima; Japan	International	Scopus
23	Dudam Bharath Kumar S. Sushree	Mar-19	Analysis of seasonal variation and sources of PM10 aerosols	International Conference of China India Association for	IIT-Delhi, New Delhi, India	International	Google Scholar

	H. Kumar		over eastern coast of India	Atmospheric Scientists (CIAAS)			
24	N. Gupta T. Barik S. Dey Purnachandra Saha	Feb-19	Effect of Wind and Seismic forces on different Components of Cable Suspension Bridge: An Overview	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
25	P. Sen M. Kumar P. Shukla Purnachandra Saha	Feb-19	The Aerodynamic and Seismic Behaviour of Cable-Stayed Bridge	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
26	K. Pareek Purnachandra Saha	Feb-19	Basalt Fiber and Its Composites: An Overview	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
27	S. Saha R. Dey Purnachandra Saha	Feb-19	Mechanical and Durability Properties of Concrete Using Recycled Aggregate	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
28	S. Roy S. Das Purnachandra Saha	Feb-19	Seismic Response Control of a Building Using Passive Hybrid Damper under Near Field Earthquakes	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
29	P. Das P. Roy Purnachandra Saha	Feb-19	Effect of Superplasticizer and Mineral Admixtures on Mechanical and Durability Properties of Geopolymer Concrete: A Review	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
30	P. Ray R. Patty D. K. Bera A. K. Rath	Feb-19	Innovative Optimization Techniques of Time and Cost Trade Off	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
31	S. Ghosh D. K. Bera	Feb-19	Oil Contaminated Sand: Towards Cleaner Future	Proceedings of National Conference on Advances in Structural Technologies	NIT Silchar, India	National	Google Scholar

				(CoAST-2019)			
32	L. Priyadarshini P. Ray P. Roy D. K. Bera	Feb-19	Risk Assessment and Management in Construction Projects	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
33	S. Mohapatra D. K. Bera A. K. Rath	Feb-19	A Review on Geo-Polymer Pervious Concrete by Using Recycled Coarse Aggregate	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
34	A. Singh A. Ghoshal A. Singh Purnachandra Saha	Feb-19	Organic and Inorganic Elements Used for Co2 Absorption in Concrete	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Google Scholar
35	S. Mondal S. De Purnachandra Saha	Feb-19	Removal of VOCs and Improvement of Indoor Air Quality Using Activated Carbon Air Filter	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Scopus
36	Swabarna Roy Swagato Das Purnachandra Saha	Jul-05	Seismic Control and Performance of Passive Hybrid Damper Under Near-Field Earthquakes	Proceedings of National Conference on Advances in Structural Technologies (CoAST-2019)	NIT Silchar, India	National	Scopus
37	Kshyana Prava Samal	Dec-18	Analysis of seepage from a triangular furrow considering soil capillarity using inverse hodograph and conformal mapping technique	International Conference HYDRO-2018		International	Google Scholar
38	Sourav Das A. Chakrabarty	Dec-18	Effects of Centrifugal Stiffening on Vibration Control of Horizontal Axis Wind Turbine Blade	SEC18: Proceedings of the 11th Structural Engineering Convention	Jadavpur University, Kolkata	National	Google Scholar
39	A. K. Das Sourav Das	Dec-18	Reliability Based Seismic Response Control of Liquid Storage Tank Isolated by Polynomial Friction Pendulum	SEC18: Proceedings of the 11th Structural Engineering Convention	Jadavpur University, Kolkata	National	Google Scholar

			Isolators				
40	A. K. Das Sourav Das	Dec-18	Reliability Based Optimum Design of Nonlinear TMD with Duffing Stiffness for Vibration Control of 76- Story Benchmark Building	SEC18: Proceedings of the 11th Structural Engineering Convention	Jadavpur University, Kolkata	National	Google Scholar
41	S. Roy S. Das Purnachandra Saha	Dec-18	Seismic Response Control of a Building Using Passive Hybrid Damper	SEC18: Proceedings of the 11th Structural Engineering Convention	Jadavpur University, Kolkata	National	Google Scholar
42	Dudam Bharath Kumar Sasmita Sushree	Nov-18	Sources and Characteristics of Aerosol over Smartcity Bhubaneswar in Winter and Summer	Bulletin of Indian Aerosol Science and Technology Association (IASTA)	IIT, Delhi	National	Google Scholar
43	D.Biswas; T. Ghosh; R. Prasad; Kajal Parashar; S.K.S. Parashar	2018	Study of Electromagnetic behavior of Nd2O3/PVA thin film for microwave applications	2018 International Conference on Applied Electromagnetics, Signal Processing and Communication, AESPC 2018	IEEE	International	Scopus
44	S. Baral; R. Prasad; Kajal Parashar; S.K.S. Parashar,	2018	Synthesis of La2O3/PVA thin film for microwave device application	2018 International Conference on Applied Electromagnetics, Signal Processing and Communication, AESPC 2018	IEEE	International	Scopus
45	Sagnik Chatterjee; Rishu Prasad; Kajal Parashar; S.K.S. Parashar	2018	Electromagnetic analysis of SiC/PVA polymer thin film for microwave applications	2018 International Conference on Applied Electromagnetics, Signal Processing and Communication, AESPC 2018	IEEE	International	Scopus
46	Ankit Singh; Rishu Prasad; Kajal Parashar; S.K.S. Parashar,	2018	Investigation of electromagnetic properties of Bi2O3/PVA for microwave application	2018 International Conference on Applied Electromagnetics, Signal Processing and Communication, AESPC 2018	IEEE	International	Scopus

47	Priyamvada, Deeksha Prasad, Rishu Parashar, Kajal Parashar S.K.S.	2018	Electromagnetic Interaction of Nickel Oxide polymeric thin film for microwave	2018 International Conference on Applied Electromagnetics, Signal Processing and Communication, AESPC 2018	IEEE	International	Scopus
48	L. Panda, Biswabandita Kar S.Dash,	2018	Preparation of fly ash based zeolite for removal of fluoride from drinking water	AIP Conference Proceedings	Bikaner, India	International	Scopus & Web of Science
49	S. Dash; Biswabandita Kar; P.S. Mukherjee	2018	Pervious concrete using fly ash aggregate as coarse aggregate- an experimental study	AIP Conference Proceedings	Bikaner, India	International	Scopus & Web of Science
50	A. Divyadarshi Kshyana Prava Samal	Jul-18	Cost optimization in Building Construction by Comparing Various Materials in Brickwork	IACCM 2018		International	Google Scholar
51	J. Padhi B. Das A. S. Rao	May-18	Optimal cropping pattern for sustainable agriculture under drought condition	8th Asian Regional Conference (8ARC): Irrigation in Support of Evergreen Revolution	Kathmandu, Nepal	International	Google Scholar
52	Dudam Bharath Kumar S. Choudhary	Mar-18	Episodic Analysis of Biomass Burning Aerosols over east-coast India: Effect of Regional and Long-range Transport	International Conference on Atmospheric Composition and Climate Change in Asia (ICACCCA)	Malaysia	International	Google Scholar
53	A. S. Rao Jyotiprakash Padhi B. Das	Jan-18	Assessment of Drought in Balangir District of Odisha, India using Drought Indices	International Conference on Water, Environment, Energy and Society		International	Google Scholar

List of Book Chapter

S 1. N o .	Name of the Faculty Affiliation	Year of Publi catio n Title of the Book Chapter	Book Title	Pub lish er	Volum e(issue): Page no.	ISBN	Part of E- data base s (Sco
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1	Pala Girees h Kumar ; Satya Ranjan Samal; Abhira mi Priyan ka Pathiva da	SVECW, Bhimavar am, India KIIT DU SVECW, Bhimavar am, India	May- 22	Traffic Crowd Assess ment and Placing of Traffic Signal at Unsign alized Intersec tion—A State of Art	Recent Advances in Civil Engineering, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 233, Pages 601- 611	978-981- 19-0188- 1	Sco
2	Satya Ranjan Samal; Malaya Mohan ty; Pala Girees h Kumar ; Moses Santha kumar M;	KIIT DU KIIT DU SVECW, Bhimavar am, India NIT, Tiruchirap palli	May- 22	Evaluat ion of Functio nal Effecti veness of Speed Humps in Accord ance to IRC Specifi cations	Recent Advances in Civil Engineering, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 233, Pages 105- 114	978-981- 19-0188- 1	Sco
3	Saismr utiranj an Mohan ty; Sanjib Moulic k; Sanjoy Kumar Maji,	KIIT DU KIIT DU KIIT DU	2022	Remov al of Malach ite Green from Spiked Pond Water Using Titanat e Nanotu	Lecture Notes in Civil Engineering	Spri nger	207, pp. 663- 675	978-981- 16-7508- 9	Sco pus

				bes					
4	Vishal Singh; Rajesh Kumar ; Benu G. Mohap atra; Malay Saha; S. N. Patel	BITS, Pilani BITS, Pilani KIIT DU SIEM, Siliguri BITS, Pilani	Apr- 22	Nonlin ear Vibrati on of Functio nally Graded CNT- Reinfor ced Compo site Plate Under Nonuni form In- Plane Loadin g	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 47 - 58	978-981- 16-8433- 3	Sco
5	Pramo dini Sahu; D. K. Bera; P. K. Parhi	CET Bhubanes war KIIT DU CET Bhubanes war	Apr- 22	Gradati on of the Relativ e Signific ance of the Claims Obtaine d from Constru ction Industr y	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 115 - 125	978-981- 16-8433- 3	Sco pus
6	Prasan na Kumar Achary a; Sanjay a Kumar Patro	KIIT DU VSSUT Burla	Apr- 22	Utilizat ion of Air- Cooled Ferroch rome Slag in Lime Additiv e	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 149 - 162	978-981- 16-8433- 3	Sco pus

				Blende d					
				Cement -Based Concret e					
7	Nathna el Azmer aw Workel uel; Tribikr am Mohan ty	KIIT DU KIIT DU	Apr- 22	Evaluat ion of Pre- cast Prestres sed Concret e System : For the Housin g Project s	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 163 - 172	978-981- 16-8433- 3	Sco
8	Dolasa nkar Sahu; Mohib ullah	KIIT DU KIIT DU	Apr- 22	Effecti ve Criterio n for Equipm ent Manag ement in Constru ction Industr	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 185 - 199	978-981- 16-8433- 3	Sco pus
9	Swagat o Das; Purnac handra Saha	C. V. Raman Global University KIIT DU	Apr- 22	Perfor mance of Optima 1 Sensor Placem ent Strategi es for Damag e Detecti on in Civil Engine ering	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 269 - 279	978-981- 16-8433- 3	Sco pus

1 0	Bittu Ghosh; Mohib ullah; D. K. Bera	KIIT DU KIIT DU KIIT DU	Apr- 22	Influen ce of Various Factor Associa te with Claims on Constru ction Industr	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 337 - 357	978-981- 16-8433- 3	Sco pus
1 1	Amare sh Tripath y; Prasan na Kumar Achary a	KIIT DU KIIT DU	Apr- 22	Charact eristics of Sugarc ane Bagass e Ash as a Pozzola nic Materia I—A Report on Present Knowle dge	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 463 - 479	978-981- 16-8433- 3	Sco pus
1 2	Purnaji t Bhow mik; Gaurav Udgata ; Shivan shi Trivedi	KIIT DU KIIT DU KIIT DU	Apr- 22	Risk Assess ment in Constru ction Industr y Using a Fuzzy Logic	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 517 - 526	978-981- 16-8433- 3	Sco pus
1 3	Lisyna Priyad arshini; Prasant a Roy	KIIT DU Amity University , Kolkata	Apr- 22	Risk Assess ment and Manag ement in Constru ction Industr y	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 539 - 556	978-981- 16-8433- 3	Sco pus

1 4	Subod ha Kumar Rautar ay; Dillip Kumar Bera; A. K. Rath	KIIT DU KIIT DU KIIT DU	Apr- 22	The Effects of Ground Granul ated Blast-Furnac e Slag Blendin g with Fly Ash Based Self Compacting Geopolyme r Concret e on the Worka bility and Strengt h Propert ies at Ambie nt Curing	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 221, Pages 567 - 579	978-981- 16-8433- 3	Sco
1 5	Aakash Kumar Gupta; Prasan na Kumar Achary a	KIIT DU KIIT DU	Apr- 22	Effect of Various Waste Materia ls on Hydrati on Process Bindin g Materia ls	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 603 - 618	978-981- 16-8433- 3	Sco pus
1 6	Sangra m K. Sahoo; Benu G. Mohap atra;	KIIT DU KIIT DU VSSUT Burla KIIT DU	Apr- 22	Perfor mance of Functio nally Graded Concret	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil	Spri nger	Volum e 221, Pages 619 - 643	978-981- 16-8433- 3	Sco pus

	Sanjay a K. Patro; Prasan na K. Achary a			e Made of Layere d Techni que—A Review	Engineering Book Series				
1 7	J. Nihar Ranjan ; Benu G. Mohap atra; Manal Alali	KIIT DU KIIT DU KIIT DU	Apr- 22	Approa ches to Slope Stabilit y Analysi s Consid ering the Effects of Dilatan cy and Strengt h Non- linearit y: A Review	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 645 - 655	978-981- 16-8433- 3	Sco pus
1 8	Binaya Patnaik ; Benu G. Mohap atra; Getnet Kassah un; Temes gen Gebrey esus	Gambella University , Ethiopia KIIT DU Wolaita Sodo University , Ethiopia Wolaita Sodo University , Ethiopia Formula Sodo University , Ethiopia	Apr- 22	Effecti ve Utilizat ion of Eragros tis Teff Straw in Adobe Units for Sustain able Constru ction in Ethiopi a	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 657 - 667	978-981- 16-8433- 3	Sco pus
1 9	Swabar na Roy; Chinm ay Kumar Kundu; Bhaga	KIIT DU KIIT DU KIIT DU	Apr- 22	Wind-Induce d Vibrati on Control on Transm	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book	Spri nger	Volum e 221, Pages 791 - 802	978-981- 16-8433- 3	Sco pus

	bata Jena			ission Tower	Series				
2 0	Lovely Sabat and Chinm ay Kumar Kundu	KIIT DU KIIT DU	Apr- 22	The Effect of Unifor m and Non- unifor m Torsion in Thin- Walled Structu res	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 803 - 815	978-981- 16-8433- 3	Sco
2 1	Jagann ath Patel; Dillip Kumar Bera; A. K. Rath	KIIT DU KIIT DU KIIT DU	Apr- 22	Study the Permea bility Behavi our of Perviou s Geo- polyme r Concret e at Ambie nt Temper ature	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 817 - 828	978-981- 16-8433- 3	Sco pus
2 2	Asish Kumar Pani; Prasan na Kumar Achary a; Jayara m Tripath	KIIT DU KIIT DU KIIT DU	Apr- 22	Ferroch rome Powder as a Partial Replac ement of Cement	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and Construction Management, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 221, Pages 829 - 837	978-981- 16-8433- 3	Sco pus
2 3	Thaer Alkate eb; Asheen	KIIT DU KIIT DU	Apr- 22	Seismic Perfor mance of Steel	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—Structure and	Spri nger	Volum e 221, Pages 839 -	978-981- 16-8433- 3	Sco pus

	a Sunny			Frames with Shape Memor y Alloy (SMA) Bracing System	Construction Management, Lecture Notes in Civil Engineering Book Series		846		
2 4	Bandit a Paikara y; Benu Gopal Mohap atra; Sushre e Barsha ; Apala Mohan ty	KIIT DU KIIT DU KIIT DU KIIT DU	Apr- 22	Behavi our of Surface Footing Resting on Reinfor ced Layere d Soil	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 799 - 806	978-981- 16-7509- 6	Sco pus
2 5	R. Pradha n; T. Shil; S. Nanda; Benu Gopal Mohap atra	KIIT DU KIIT DU KIIT DU KIIT DU	Apr- 22	Reducti on of Sub Base Layer Using Bio- enzyme Treated Soil	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 789 - 797	978-981- 16-7509- 6	Sco pus
2 6	Narala Ganga dhara Reddy; Preety nanda Nanda; Ramya Sri Mullap udi; Murala Veera Reddy	KITS, Warangal KIIT DU IIT Hyderaba d KITS, Warangal	Apr- 22	Use of Polyacr ylamid e for Erosion and Fugitiv e Dust Control of Geomat erials— A Review	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 143 - 151	978-981- 16-7509- 6	Sco pus

2 7	Sneha Sen; Akash Rai; Sanjib Moulic k	KIIT DU KIIT DU KIIT DU	Apr- 22	Manag ement of Bio- medical Wastes in a Multisp eciality Hospita 1 in Bhuban eswar	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 207, Pages 169 - 180	978-981- 16-7509- 6	Sco pus
2 8	Soham Kar; Kunda n Samal	KIIT DU KIIT DU	Apr- 22	Hydro Econo my: Enviro nmenta 1 Sustain ability of Water and Waste water Resour ces and Infrastr ucture	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 181 - 197	978-981- 16-7509- 6	Sco pus
2 9	Dudam Bharat h Kumar ; Sasmit a Sushre e	KIIT DU KIIT DU	Apr- 22	Testing the Skill of Hybrid Model Approa ch for Aerosol Estimat es	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 291 - 298	978-981- 16-7509- 6	Sco pus
3 0	J. Cyril Santho sh; Satya Ranjan Samal; V. Navin Ganesh ; Darla Pavani;	CIT, Coimbator e KIIT DU PSGITA, Coimbator e NIT, Trichy CIT, Coimbator e	Apr- 22	Experimental Investigation on the Effect of Polypro pylene Fibers with Respect	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 383 - 395	978-981- 16-7509- 6	Sco pus

	R.			to the					
	Sathya			Fatigue					
	naraya			Behavi or of					
	n Sridhar			Rigid					
	Bridia			Paveme					
				nt					
3 1	Kshya na Prava Samal; G. C. Mishra	KIIT DU IITR, Roorkee	Apr- 22	Seepag e Analysi s from an Array of Parallel Triangu lar Furrow s by Inverse Hodogr	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book	Spri	Volum e 207, Pages 439 - 459	978-981- 16-7509- 6	Sco
				aph and Confor mal Mappin g Techni que Impact	Series				
3 2	Kumar jeeb Pegu; Tanma ya Mohan ty; Kshya na Prava Samal	KIIT DU KIIT DU KIIT DU	Apr- 22	of Legal Instrum ents in Improv ing Domest ic Water Supply, Case Study Involvi ng Two Nations Tagged with Most Signific ant Improv ement	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 207, Pages 461 - 473	978-981- 16-7509- 6	Sco

3 3	Tanmo y Majum der; Bitanja ya Das; Jyotipr akash Padhi	KIIT DU KIIT DU KIIT DU	Apr- 22	Trend Analysi s of Monso on Rainfal l Over Odisha	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 513 - 523	978-981- 16-7509- 6	Sco pus
3 4	Tanmo y Majum der; Bitanja ya Das; Paromi ta Chakra borty	KIIT DU KIIT DU KIIT DU	Apr- 22	Spatiotempor al Analysi s of Monso on Rainfal 1 Over Odisha	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 525 - 536	978-981- 16-7509- 6	Sco pus
3 5	Deepik a P. Palai; Suman ta Chaud huri; Paromi ta Chakra borty; Bitanja ya Das	KIIT DU KIIT DU KIIT DU KIIT DU	Apr- 22	Effect of Aspect Ratio on Emerge nt Vegetat ed Flow Conditi on: A Semi- analytic al Study	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 207, Pages 551 - 561	978-981- 16-7509- 6	Sco pus
3 6	Ipsita Roy; Bitanja ya Das	KIIT DU KIIT DU	Apr- 22	Identification of Auto Regress ive Model Parame ter for Rainfal 1 Forecas ting in Balesw ar District of	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 207, Pages 551 - 561	978-981- 16-7509- 6	Sco pus

				Odisha					
				D					
3 7	Abinas h Mishra ; Paromi ta Chakra borty; Bitanja ya Das	KIIT DU KIIT DU KIIT DU	Apr- 22	Best Fitting of Probabi lity Distrib ution for Monso on Rainfal l in Kalaha ndi District of Odisha	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 585 - 597	978-981- 16-7509- 6	Sco pus
3 8	Tanma ya Kumar Sahoo; Rachit a Panda	DWR, Govt. of Odisha KIIT DU	Apr- 22	Estimat ing Uncerta inty in Flood Freque ncy Analysi s Due to Limited Sample Size Using Bootstr ap Method	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 653 - 661	978-981- 16-7509- 6	Sco pus
3 9	Saismr utiranj an Mohan ty; Sanjib Moulic k; Sanjoy Kumar Maji	KIIT DU KIIT DU KIIT DU	Apr- 22	Remov al of Malach ite Green from Spiked Pond Water Using Titanat	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 663 - 675	978-981- 16-7509- 6	Sco pus

				e Nanotu bes					
4 0	Chanc hala; Jyotipr akash Padhi; Bitanja ya Das	KIIT DU KIIT DU KIIT DU	Apr- 22	Surface Runoff Estimat ion of Rana Waters hed in Mahan adi River Basin Using HEC- HMS	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 687 - 700	978-981- 16-7509- 6	Sco pus
4 1	Sartha k Sahoo; Jyotipr akash Padhi	KIIT DU KIIT DU	Apr- 22	Analysi s of Annual and Season al Rainfal l of Differe nt District s of Odisha	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 701 - 712	978-981- 16-7509- 6	Sco pus
4 2	Soumy a Sayan Pal; Satyaje et Nanda	KIIT DU KIIT DU	Apr- 22	Recent Develo pments in Deep- Water and Ultra- deep- Water Dynam ically Installe d Anchor ing System s	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 725 - 739	978-981- 16-7509- 6	Sco pus

4 3	Anime sh Maury a; Amina Khana m; Malaya Mohan ty	KIIT DU KIIT DU KIIT DU	Apr- 22	Cleaner City Throug h Lesser Noise: Traffic Noise Modelli ng	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 741 - 756	978-981- 16-7509- 6	Sco pus
4 4	Manish a Mohan ty; Ipsita Panda	KIIT DU KIIT DU	Apr- 22	Assess ment of Food Waste as Suitabl e Adsorb ent for Remov al of Chromi um (vi) from Synthet ic Waste Water	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 757 - 778	978-981- 16-7509- 6	Sco pus
4 5	Kalpan a Sahoo; Satya Ranjan Panda; Basude b Munsh i	KIIT DU NIT, Rourkela NIT, Rourkela	Apr- 22	Stabiliz ation of Soil Sub- grade Using Plastic Waste and Effecti ve Cost Analysi s of Paveme nt Layers	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 207, Pages 827 - 840	978-981- 16-7509- 6	Sco pus
4 6	Satya Ranjan Samal; Malaya Mohan ty; Dipti	KIIT DU KIIT DU KIIT DU	Apr- 22	Operati onal Effecti veness of Speed Humps	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book	Spri nger	Volum e 207, Pages 841 - 850	978-981- 16-7509- 6	Sco pus

	Ranjan Biswal			in Urban Areas —A	Series				
4 7	Sushre e Sasmit a; Dudam Bharat h Kumar	KIIT DU KIIT DU	Apr- 22	Review Monito ring of PM10 Aerosol s in Outdoo r Enviro nment During Diwali Festival Over Bhuban eswar	Recent Developments in Sustainable Infrastructure (ICRDSI- 2020)—GEO-TRA- ENV-WRM, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 207, Pages 851 - 855	978-981- 16-7509- 6	Sco
4 8	Vishal Khann a; Brunda ban Beriha; Umesh Chandr a Sahoo	IIT Bhubanes war KIIT DU IIT BHubanes war	Mar- 22	Mecha nical Charact erizatio n of a Bioenzyme Treated Granul ar Lateriti c Soil for Application in Low Volum e Roads	Proceedings of the 7th Indian Young Geotechnical Engineers Conference, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 195, Pages 185 - 193	978-981- 16-6456- 4	Sco pus
4 9	M. Bhaum ik; Preety nanda Nanda; S. P. Singh	NIT Rourkela NIT, Rourkela KIIT DU	Mar- 22	Behavi or of geosynt hetic encased stone column	Proceedings of the 7th Indian Young Geotechnical Engineers Conference, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 195, Pages 145 - 156	978-981- 16-6456- 4	Sco pus

5 0	Satya Ranjan Panda Kalpna Sahoo Basude b Munsh i	NIT Rourkela KIIT DU NIT Rourkela	Apr- 21	Partial Replac ement of Cement with Glass Powder	Advances in Sustainable Construction Materials, Lecture Notes in Civil Engineering Book Series	Spri	Volum e 124, pp 405– 419	978-981- 33-4590- 4	Sco pus
5 1	K. Dash; Bibhu Prasad Sahoo	KIIT DU KIIT DU	2021	Dielect ric Relaxat ion Pheno mena of TiO2 Filled Polyure thane and Polyani line Blend Nanoco mposite s	Lecture Notes in Mechanical Engineering	Spri nger	52, pp. 61-73	978-981- 33-4794- 6	Sco pus
5 2	G. Sahu; Bibhu Prasad Sahoo; J. Tripath y	KIIT DU KIIT DU KIIT DU	2021	Effect of Graphe ne Oxide and Temper ature on Dielect ric Relaxat ion Behavi or of Poly(Vi nyl Alcoho l)- Based Nanoco mposite	Lecture Notes in Mechanical Engineering	Spri	pp. 469- 478	978-981- 15-7778- 9	Sco

5 3	Saismr utiranj an Mohan ty; Sanjib Moulic k; Sanjoy Kumar Maji,	KIIT DU KIIT DU KIIT DU	2021	Decolo rization of Congo Red Using Synthes ized Titanat e Nanotu bes (TNTs)	Lecture Notes in Civil Engineering	Spri nger	75, pp. 57-67	978-981- 15-4576- 4	Sco pus
5 4	Sasmit a Pati; Biswaj it Jena; Kirti Kanta Sahoo	DRIEMS, Cuttack DRIEMS, Cuttack KIIT DU	Apr- 21	Mecha nical Propert ies and Chlorid e Content on Self- compac ting Concret e Expose d to Sea Water	Advances in Sustainable Construction Materials, Lecture Notes in Civil Engineering Book Series	Spri nger	Volum e 124 LNCE, Pages 461 - 474	978-981- 33-4590- 4	Sco pus
5 5	Bandit a Paikara y; Sarat Kumar Das; Benu Gopal Mohap atra; Sweta Sarang	KIIT DU KIIT DU	Oct- 20	Behavi or of Rectan gular Footing on Geosyn thetic Reinfor ced Crusher Dust	Smart Technologies for Sustainable Development, Lecture Notes in Civil Engineering Book Series	Spri nger		978-981- 15-5001- 0	Sco pus
5 6	Paromi k Ray Dillip Kumar Bera Ashok e Kumar Rath	KIIT DU	Jul- 20	Genetic Algorit hm: An Innovat ive Techni que For Optimi zing A	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger		978-981- 15-4576- 4	Sco pus

				Constru ction Project				
5 7	Srishti Saha Tribikr am Mohan ty Purnac handra Saha	KIIT DU	Jul- 20	Mecha nical properti es of fly ash and ferroch rome ash based geopol ymer concret e using recycle d aggrega te	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco
5 8	Pratik Sen Purnac handra Saha	KIIT DU	Jul- 20	Seismic Perfor mance of Polyno mial Friction Pendul um Isolator (PFPI) on Bench mark Cable- Stayed Bridge	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
5 9	Wubsh et Gebru Ashok e Kumar Rath Dillip Kumar Bera	KIIT DU	Jul- 20	Individ ual and Combi ned Effect of Nano and Micro Silica	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

				on Cement Based Product				
6 0	B. Jena	KIIT DU	Jul- 20	Limit State Design and Factor of Safety: An Overvi ew	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
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6 2	Biswar oop Ghosh Ashok e Kumar Rath	KIIT DU	Jul- 20	Use of Autocla ved Fly- Ash Aggreg ates in Concret e Mixtur e	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
6 3	Abhips a Guru Mohib ullah	KIIT DU	Jul- 20	Explori ng the Accept ance of Life Cycle Cost for Reside ntial Project s in India	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

6 4	Dolasa nkar Sahu Mohib ullah	KIIT DU	Jul- 20	Genetic Algorit hm for Resour ce Levelli ng Proble m in Constru ction Project s	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
6 5	Rajars hi Patty Dillip Kumar Bera A.K. Rath	KIIT DU	Jul- 20	Strategi es for Constru ction and Destruc tion (C&D) Waste Manag ement	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
6 6	Chand an Kumar Majhi Satyaje et Nanda R.C Pradha n B. G. Mohap atra	KIIT DU	Jul- 20	An Approx imate Cost Equatio n of Offshor e Wind Turbine Blade	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
6 7	Rudran i Das Amit Gangul y Purnac handra Saha	KIIT DU	Jul- 20	Differe nt Techni ques Used For Well Founda tion Constru ction Focuse d On Pneum	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

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7 0	Paromi k Ray Dillip Kumar Bera Ashok e Kumar Rath	KIIT DU	Jul- 20	Time Cost Optimi zation Using Genetic Algorit hm of A Constru ction Project	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

7 1	S. S. Panda Subha m Ghosh B. Jena	KIIT DU	Jul- 20	Yield Behavi or of Three Edge Simply Support ed Two Way Slab Under Concen trated Loadin g	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri	978-981- 15-4576- 4	Sco pus
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7 3	Bandit a Paikara y Sarat Kumar Das B.G.	KIIT DU	Jul- 20	Bearing Capacit y Analysi s Based on Optimi zation	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

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7 7	Bidish a Byabar tta Tanmo y Majum der Paromi ta Chakra borty Jyotipr akash Padhi Bitanja ya Das	KIIT DU	Jul- 20	A Review : Effect of Turbidi ty Current on the Reserv oir Sedime ntation	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
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7 9	Ashish Pani Kirti Kanta Sahoo	KIIT DU	Jul- 20	Study on Mecha nical Propert ies of Steel Fibre Concret e	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
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8 8	Jyoti Ranjan Barik Purnac handra Saha	KIIT DU	Jul- 20	Seismic Control of Bench mark Highwa y Bridge Using Fiber Reinfor ced Elasto meric Isolator	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
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9 0	Raja Sekhar Mamill apalli Ashok Kumar Rath Dilip Kumar Bera	KIIT DU	Jul- 20	Studies on Integrat ion of Lean Constru ction and Sustain ability in Indian Real Estate Project s	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri	978-981- 15-4576- 4	Sco
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9 2	Ankit Kumar Sumon Saha Rana Chattar aj	KIIT DU	Jul- 20	g Airfoil Soft Clay Stabiliz ation With Steel Slag	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri	978-981- 15-4576- 4	Sco pus
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9 5	Sushre e Sasmit a Dudam Bharat h	KIIT DU	Jul- 20	Season al Variabi lity of Satellit e- Derive d Aerosol Optical Depth	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
	Kumar			in Smart City, Bhuban eshwar				
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9 9	Vishal Singh B.G. Mohap atra	KIIT DU	Jul- 20	Parame tric study on foundat ion retrofitt ing using Micro- piles	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
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1 0 1	Tribikr am Mohan ty Bharga vi Nanda n Patra Purnac handra Saha	KIIT DU	Jul- 20	Durabil ity Propert ies of Self Compa cting Concret e Using Silica Fume	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
1 0 2	Arnab Debnat h Sumon Saha Rana Chattar aj	KIIT DU	Jul- 20	Stabiliz ation of Clayey Soil With Marble Dust	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

1 0 3	Sneha Sen Purnac handra Saha	KIIT DU	Jul- 20	The Perfor mance of Geopol ymer Concret e Utilizin g Wastes As	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
1 0 4	Rachit a Panda Tanma ya Kumar Sahoo	KIIT DU	Jul- 20	Binder Effect of Replac ement of GGBS and Fly Ash with Cement in Concret e	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
1 0 5	Anurad ha Panda Bitanja ya Das Jyotipr akash Padhi Paromi ta Chakra borty	KIIT DU	Jul- 20	Ground water Level Trend Analysi s for Sustain ble Extracti on and Use in Coastal Odisha	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus
1 0 6	Amare ndra Kr. Mohap atra Dillip Kumar Bera A. K. Rath	KIIT DU	Jul- 20	Effect of Silica Fume on Strengt h Enhanc ement of Geo- polyme r	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger	978-981- 15-4576- 4	Sco pus

	B. K. Das			Mortar in Ambie nt Curing Red Mud As A	Recent Developments				
1 0 7	S. K. Das B. G. Mohap atra	KIIT DU	Jul- 20	Control led Low Strengt h Materia	in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger		978-981- 15-4576- 4	Sco pus
1 0 8	Srishti Saha Joyant a Pal	KIIT DU	Jul- 20	A Study on Propert ies of Concret e Using Silica Fume and Brick Aggreg ate	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger		978-981- 15-4576- 4	Sco pus
1 0 9	Divyaji t Das Bhuba neswar i Bisoyi Ipseeta Satpath y Biswaj it Das	KIIT DU	Jul- 20	Urban Infrastr ucture and Special Econo mic Zone (SEZ): Challen ges for Corpor ate Land Alienat ion	Recent Developments in Sustainable Infrastructure, Lecture Notes in Civil Engineering Book Series	Spri nger		978-981- 15-4576- 4	Sco pus
1 1 0	Rachit a Panda Sudhir a Rath	KIIT DU VSS University of Technolog y, Burla	Mar- 20	Improv ement in Engine ering Behavi	Urban Mining and Sustainable Waste Management	Spri nger	pp 239- 248	978-981- 15-0531- 7 (P) 978-981- 15-0532- 4	Goo gle Sch olar

				our of Expans ive Soil Reinfor ced with Rando mly Distrib uted Waste Plastic Strips				(Ebook)	
1 1 1	Kunda n Samal Rajnee sh Singh Rajesh Roshan Dash Puspen du Bhunia	KIIT DU KIIT DU KIIT DU KIIT DU	Jan- 20	Investi gation on the effect of plantin g Canna indica in two stage vermifi lter for syntheti c dairy wastew ater treatme nt	Recent Developments in Waste Management	Spri nger		978-981- 15-0990- 2	Sco
1 1 2	Satya Ranjan Samal Aditya Kumar Das	KIIT DU Indian Institute of Technolog y Bombay, Mumbai	Jan- 20	Evaluat ion of traffic congest ion parame ters under heterog eneous traffic conditi on: A case study on Bhuban eswar city	Lecture Notes in Civil Engineering	Spri	Volum e 45, Pages 675- 684	978-981- 32-9042- 6	Sco

1 1 3 3	Abhish ek Mund; Bikash Pattana yak; J.S. Jayaku mar; Kajal Parash ar; S.K.S. Parash ar	AVV, Amritapur i AVV, Amritapur i AVV, Amritapur i KIIT DU KIIT DU	2019	Experimental and numeri cal study of heat transfer in double-pipe heat exchan ger using Al2O3, and TiO2 w ater nanoflu id	Lecture Notes in Mechanical Engineering	Spri nger	pp. 531- 540	978-981- 13-6415- 0	Sco pus & We b of Scie nce
1 1 4	Bikash Pattana yak; Abhish ek Mund; J.S.Jay akumar ; Kajal Parash ar; S.K.S. Parash	AVV, Amritapur i AVV, Amritapur i AVV, Amritapur i KIIT DU KIIT DU	2019	Spray imping ement heat transfer using nanoflu id— experi mental study	Lecture Notes in Mechanical Engineering	Spri nger	pp. 369- 377	978-981- 13-6415- 0	Sco pus & We b of Scie nce
1 1 5	Dr. Bandit a Paikara y; Sarat Kumar Dash; Benu Gopal Mohap atra	KIIT DU IIT (ISM)Dha nbad KIIT DU	Feb- 19	Interfer ence of Two Shallo w Square Footing s on Geogri d Reinfor ced Crusher Dust	Sustainable Construction and Building Materials	Spri	Volum e 25, Pages 41-60	978-981- 13-3317- 0	Sco

1 1 6	Gaurav Udgata ; A. K. Rath	KIIT DU KIIT DU	Jan- 19	Effects of steel fibre on self- compac ting concret e with fly ash	Recent Advances in Structural Engineering, Vol. 1	Spri nger	Volum e 11, Pages 737- 746	978-981- 13-0361- 6	Sco pus
1 1 7	Rini Dey; Purnac handra Saha	BBIT, Budge BudgeKol kata KIIT DU	Jan- 19	Seismic respons e control of smart base-isolated benchm ark buildin g using hybrid control strategy (viscou s fluid damper with MR damper)	Recent Advances in Structural Engineering, Volume 2	Spri	Volum e 12, Pages 365- 374	978-981- 13-0365- 4	Sco
1 1 8	Rohit Shah; Tribikr am Mohan ty;	KIIT DU KIIT DU	Jan- 19	Combi ned effect of steel fibers with ferroch rome slag on hardene d concret e	Recent Advances in Structural Engineering, Volume 1	Spri nger	Volum e 11, Pages 647- 655	978-981- 13-0362- 3	Sco pus
1 1 9	A. Patnaik V. Kumar Purnac handra Saha	KIIT DU KIIT DU KIIT DU	Jun- 18	Importa nce of Indoor Enviro nmenta l Quality	Environmental Pollution	Spri nger	PP 53- 64	978-981- 10-5792- 2	Goo gle Sch olar

				in Green Buildin gs					
1 2 0	A. S. Rao Jyotipr akash Padhi B. Das	Departme nt of Water Resources Governme nt of Odisha KIIT DU KIIT DU	May- 18	Assess ment of Drough t in Balangi r District of Odisha, India using Drough t Indices	Climate Change Impacts	Spri nger	pp 273- 291	978-981- 10-5714- 4	Goo gle Sch olar

PhD Scholar List (Last 3 years)

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1	SUCHISMITA JENA	2281052	2022	Dr. M.L. Pattanaik	
2	SUSMITA SWAIN	2281053	2022	Dr. P. Saha	
3	SILPA PRIYADARSANI		2022	Dr. N.C. Moharana	Dr. Sanjukta Sahoo
	DAS	2281054			
4	ANINDITA SAMANT	2281055	2022	Dr. Aparupa Pani	
5	RAJNISH KUMAR	2281056	2022	Dr. C.K. Kundu	
6	BIDYA PARIJA	2281057	2022	Dr. B. Paikaray -	Dr. B.G. Mohapatra
7	SALINI PATRA	2281058	2022	Dr. A.K. Pani	
8	NILIMASHREE NIHARIKA	2281059	2022	Dr. D.K. Bera -	Dr. A.K. Rath

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12	HIMANDRI NANDINI SAHOO	2281063	2022	Dr. S. Nanda	
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20	PUNYASHA SEEYARAM	2181034	2021	Dr. S. Nanda	
21	KAMALDEEP BEHERA	2181035	2021	Dr. S. Nanda	
22	CHINMAYEE DASH	2181036	2021	Dr. B.G. Mohapatra	Dr. B. Beriha
23	SARTHAK SAHOO	2181037	2021	Dr. K.P. Samal	Dr P. K. Mishra
24	ATUL RANJAN	2181038	2021	Dr. H.S. Panda	
25	ANANYA DAS	2181039	2021	Dr. S. Moulick	Dr. Subhra Debdas

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26	ABINASH JENA	2181146	2021	Dr. S. Moulick	Dr. S.K. Maji
27	SUDHANSU BEHERA	2181163	2021	Dr. K. Samal	
28	ANIBRATA PAL	2081041	2020	Dr. P.K. Acharya	
29	ANURADHA PANDA	2081042	2020	Dr. B. Das	Dr. P. Chakraborty
30	ASHEENA SUNNY	2081043	2020	Dr. P. Saha	
31	CHANDANA ROY	2081044	2020	Dr. T. Mohanty	
32	IPSITA MOHANTY	2081045	2020	Dr. P. Saha	
33	LIPSITA SAMAL	2081046	2020	Dr. K.K. Sahoo	
34	MOHIBULLAH	2081047	2020	Dr. P.K. Acharya	
35	PRANGYA SUCHARITA RATH	2081048	2020	Dr. R. Chattaraj	
36	PRATYASHA SINGH	2081049	2020	Dr. Aparupa Pani	
37	PREETYNANDA NANDA	2081050	2020	Dr. S. Nanda	
38	RACHITA PANDA	2081051	2020	Dr. D.R. Biswal	
39	RASHMI RANJAN BISWAL	2081052	2020	Dr. B. Paikaray	
40	SARUK MALLICK	2081053	2020	Dr. P.K. Acharya	
41	SHASHANKA SEKHAR	2081054	2020	Dr. R. Chattaraj	

	PALAI				
42	SMRUTI RANJAN GACHHAYAT	2081055	2020	Dr. P.K. Acharya	
43	SOUVIK BANERJEE	2081056	2020	Dr. T. Mohanty	
44	SRISHTI SAHA	2081057	2020	Dr. P. Saha	
45	SWETAPADMA NAYAK	2081058	2020	Dr. P. Chakraborty	Dr. B. Das
46	SUTAAPA GIRI	2081258	2020	Dr. J. Padhi	Dr. B. Das
47	ASHOK KU TARAI	2081287	2020	Dr K. P. Samal	
48	JYOTISHREE SWAIN	2081295	2020	Dr. N.C. Moharana	
49	AMARESH TRIPATHY	1981017	2019	Dr. P.K. Acharya	
50	STUTEE MOHANTY	1981019	2019	Dr. S. Nanda	
51	GAURAV UDGATA	1981016	2019	Dr. K.K. Sahoo	Dr. D.R. Biswal
52	VEEROTTAM KUMAR CH	1981020	2019	Dr. P.K. Acharya	
53	ACHANTA SUDHEER	1981021	2019	Dr. T. Mohanty	
54	RAHUL KUMAR GUPTA	1981022	2019	Dr. T. Mohanty	Dr. P. Saha
55	SATYA RANJAN SAMAL	1981023	2019	Dr. M. Mohanty	
56	CHOUDHURY GYANARANJAN	1981024	2019	Dr. D.R. Biswal	

SAMAL		

PhD awarded list (last 3 years)

Sl No	Roll No	Name	Year
1	1381075	Rama Chandra Pradhan	2022
2	1481022	Subodh Kumar Routray	2022
3	1481025	Jagannath Patel	2022
4	1481024	Sangram Kishor Sahoo	2021
5	1681025	Swagato Das	2021
6	1281041	Amarendra Kumar Mohapatra	2020
7	1181002	Bijaya Kumar Das	2020
8	1381074	Manoj Kumar Dash	2019

5.8.2. Sponsored Research (20)

• Funded research from outside:

(Provide a list with Project Title, Funding Agency, Amount and Duration) Funding Amount (Cumulative during CAYm1, CAYm2 and CAYm3): Amount > 50 Lakh -20 Marks,

Amount $>\!40$ and $\underline{<}50$ Lakh - 15 Marks, 2020-21, 2019-20, 2018-19

Amount > 30 and ≤ 40 Lakh - 10 Marks, Amount ≥ 15 and ≤ 30 Lakh - 5 Marks, Amount

< 15 Lakh - 0 Marks

CAY 2022-2023								
Project Title	Duration	Funding Agency	Amount (in Rupees)					
Design, optimization and demonstration of chemical column and pressure injection treatment to enhance the shear strength characteristics along with phytoremediation of the abandoned ash pond		SERB, Department of Science & Technology, Govt of India	46,73,900					

257

Project Title	Duration	Funding Agency	Amount (in Rupees)
	CAYm3	2019-20	
	Total		27,75,590
Social determiners of water Inequity-A systematic investigation at Bhubaneswar	2019-2021	Indian Council of Social Science Research, Ministry of Human	3,40,000
Waste utilization in self-compacting concrete: Effective assessment of Environmental benefits	2019-2020	TEQIP-III under Collaborative Research and Innovation Scheme	1,98,000
Construction of Fly ash based Geopolymer Concrete (Green concrete) Road at Aradiapada School to Anantapur Road for the year 2018- 20	2018-2020	Engineer-in-Chief, Rural Works (0), Bhubaneswar	14,50,000
Photo-degradation of Dyes using Hydrothermally Synthesized Titanate Nanotube (TNT) and Surface Modified Titanate Nanotube (SMTNT)	2017-2020	Science & Engineering Research Board, Department of Science and Technology, Government of India	7,87,590
Project Title	Duration	Funding Agency	Amount (in Rupees)
		2020-21	40,02,044
Technical Support to the Housing and Urban Development Department, Government of Odisha to implement the state urban sanitation strategy (FSSM)	2019-2021 Total	Ernst & Young LLP, Govt. Of Odisha	46,34,644 48,89,644
Social determiners of water Inequity-A systematic investigation at Bhubaneswar	2019-2021	Indian Council of Social Science Research, Ministry of Human	2,55,000
Project Title	Duration	Funding Agency	Amount (in Rupees)
		2021-22	. , . ,
	 Total		52,73,900
Bhubaneswar Urban Catchment – A systematic Investigation	2022-2024	of Human Resources Development	6,00,000
Anthropogenic and Geogenic contamination of ground water in		Indian Council of Social Science Research, Ministry	

Photo-degradation of Dyes using Hydrothermally Synthesized Titanate Nanotube (TNT) and Surface Modified Titanate Nanotube (SMTNT)	2017-2020	Science & Engineering Research Board, Department of Science and Technology, Government of India	7,87,590
Improving Ground Water Level & Quality through Enhanced Water Use Efficiency in Eastern Indian Agriculture	2013-2018	Information Technology Research Academy (ITRA)	9,50,000
	Total	I	17,37,590

5.8.3. Development activities (15)

A. PRODUCT DEVELOPMENT

				DETAILS ()F PATEN	NTS			
	Full Name of the inventor	Full name of Co- inventors	Title of the patent	Patent filed applicatio n no	Date of applica tion	To who m app lied	Prese nt Status (Filed / Publis hed/ Grant ed)	Published Publication No with date	Granted Patent No with date
1	Prasanna Kumar Acharya	Sanjaya Kumar Patro	A compositi on for partial replaceme nt of ordinary portland cement	856/KOL/2 014	20-08- 2014	The Pate nt Offi ce, Gov t. of Indi a	Grante d	N/A	No: 303344 Date: 22-11-2018
2	Dillip Kumar Bera	Ashoke Kumar Rath, Sujay Kumar Singh Parashar	A novel cement compositi on incorporat ing bulk fly ash and nano fly ash	201631024 541	18-07- 2016	The Pate nt Offi ce, Gov t. of Indi a	Publis hed	W0/2018/01 5873 Date: 04-11-2016	

3	Kundan	Sanjib	A		26-08-	The	Filed	
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B. RESEARCH LABORATORIES

B.1 GEOTECHNICAL ENGINEERING RESEARCH SPECIFIC LAB Research Lab

Scope:

Civil Engineering School in KIIT boasts one of the most advanced and cutting-edge geotechnical research laboratory in Bhubaneswar, Odisha with a combined space of 35 m² for special experiments. It is used by B.Tech, M.Tech as well as Ph.D scholars of School of Civil Engineering.

Mentor: Dr. S. Nanda

Faculty-in-charge: Dr. Bandita Paikaray **Technical Assistant:** Mr. Manoj Kumar Naik

Equipment:

- Steel tank with transparent front
- Weight machine
- Load cell to apply the loads (50kN,100kN capacity)

- Loading frame attached with hydraulic jack
- Load indicator
- Steel funnels to pour the soil
- LVDTs (4 numbers)
- Back cement tanks
- Footings with different shapes
- Attachment rods and frames for loading
- Readout units for load cell and LVDTS

Experiments:

- Determination of bearing capacity of shallow foundation
- Determination of the settlement of footings resulting from the applied loads
- Determination of settlement of pavement layers placed on foundation soil.
- Determination of footing on reinforced soil foundation

Photo Gallery:



Steel Tank with loading frame



Steel Tank with loading frame



Hydraulic jack with load cell



Readout units for load cell and LVDT

B.2 COMPUTATIONAL LABORATORY Research Lab

Scope:

Computational Laboratory established at the School of Civil Engineering houses latest software to meet the computational demand of students, faculty members and researchers. The laboratory gives an opportunity all the stake holders such as faculty, students, and researchers to work in a collaborative learning environment. A number of finite element based software like ANSYS, FEAST, PLAXIS enables the students to analyse complex geotechnical engineering, pavement engineering, structural engineering problems. The objective of this lab is focused on applying the theories, design, application, and development of computational paradigms, highlighting finite element analysis, evolutionary computation, cloud-based mapping and analysis solution to make maps, analyze data, to share and collaborate, and structural analysis of various types of structures.

Mentor: Dr. P.C. Saha

Faculty In-Charge: Prof. Sunny Jaiswal

Technical Assistant: Ms. Sushree Barsarani Dakua

Major software:

- Arc-GIS
- FEAST^{SMT} (Finite Element Analysis of Structure)
- ERDAS IMAGINE
- PLAXIS 3D Suit & 2D Suit Software
- ANSYS SOFTWARE
- ERDAS IMAGINE
- GEOMEDIA PROFESSIONAL
- PHOTOGRAMMETRY
- MICROSTATION POWERDRAFT
- MICROSTATION
- STAAD.Pro
- STAAD FOUNDATION ADVANCED

Sponsored Research/Consultancy

- Structural health monitoring of ASCE bench mark structure and study of optimal sensor placement for damage diagnosis
- Analysis and vibration control of transmission tower
- Water resource analysis in Mahanadi basin using ensemble modelling
- Flow analysis in meandering river with grass
- Buckling analysis of thin-walled composite smart beams
- Fluid structure interaction of laminated composite and functionally grade plate
- Vibration analysis of isotropic plate in time domain and frequency domain using finite element method
- Numerical analysis of interlocking concrete block pavement using ANSYS
- Analysis of monsoon rainfall over Odisha

B.3 ADVANCED PAVEMENT MATERIAL TESTING LABORATORY Research Lab

Scope:

The Advanced Pavement material testing Laboratory consists of Servo hydraulic fatigue testing equipment. The servo hydraulic fatigue testing equipment can be used for determination of dynamic modulus, Resilient Modulus, Stiffness, permanent deformation, dynamic creep and fatigue life of Bituminous Mixture and stabilized soil & Aggregate samples. It has the provision of static and cyclic tests with Sine, square, triangle, ramp, hold, profile, other necessary waveforms and custom waveform activities. A list of tests which can be conducted based on specific AASHTO/ASTM/EN standards are given below.

Faculty-in-charge: Dr. D.R. Biswal and Dr. Brundaban Beriha

Technical Assistant: Ms. Elora Choudhury

Major Equipment: Universal Testing Machine with following specifications

Load Capacity: +/- 30kN Static, +/- 30kN Dynamic*

Frequency: Up to 70Hz

Load Cell: Low profile/Pancake type, +/-30kN capacity

Actuator Type: Double acting high precision labyrinth bearing or tie-rod actuator

Stroke: +/-25mm

The servo-hydraulic fatigue testing system has following accessories:

- Environmental chamber
- Accessories for Resilient Modulus test as per ASTM D4123
- Accessories for Resilient Modulus test as per ASTM D7369/AASHTO 322.
- Accessories for Resilient Modulus test as per EN 12697-24E
- Accessories for Stiffness Test as per EN 12697-26C.
- Accessories for Stiffness Test as per EN 12697-26B
- Accessories for Dynamic Modulus, Flow Number, and Flow Time: Asphalt Mixture Performance Tester (**AMPT**) as per AASHTO 378/TP 79.
- Accessories for Permanent deformation, Creep Strain, Creep Modulus, as per EN 12697-25B
- Accessories for fatigue study as per AASHTO 321
- Accessories for fatigue study as per ASTM D7460.
- Accessories for fatigue study as per EN 12697-24D
- General Purpose 4-B test for stabilized soil and aggregate
- Desktop with monitor

Experiments:

The servo hydraulic fatigue testing equipment can be used for

- Determination of Resilient modulus of Bituminous Mixtures by conducting Indirect Tension Test as per ASTM D4123
- Determination of Resilient modulus of Bituminous Mixtures by conducting Indirect Tension Test as per ASTM D7369/AASHTO 322.
- Determination of Resilient Modulus and Fracture Life of Hot Mix Asphalt by conducting 4-Point Bending Test as per EN 12697-24E
- Determination of Stiffness of Hot Mix Asphalt by conducting Indirect Tension Test as per EN 12697-26C.
- Determination of Stiffness of Hot Mix Asphalt by conducting 4-Point Bending Test as per EN 12697-26B
- Determining the Dynamic Modulus, Flow Number, and Flow Time for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (**AMPT**) as per AASHTO 378/TP 79.
- Determination of Permanent deformation, Creep Strain, Creep Modulus, by Conducting Cyclic Compression Test as per EN 12697-25B
- Determining the Fatigue Life of Compacted Hot Mix Asphalt (HMA) subjected to Repeated Flexural bending as per AASHTO 321
- Determining Fatigue Failure of Compacted Asphalt Concrete Subjected to Repeated Flexural Bending as per ASTM D7460.
- Determination of Fatigue Life of Hot Mix Asphalt by conducting 4-Point Bending Test as per EN 12697-24D

•	Determining Flexural Strength and Fatigue Life of concrete or cement stabilized soil by conducting Four Point Flexure Test on 100mmx100mmx450mm and 75mmx75mmx300mm size sample
Pho	oto Gallery







Loading frame of Servo Hydraulic Fatigue Testing Machine



Accessories for 4 point Bending Machine

B.4 ENVIRONMENTAL ENGINEERING RESEARCH LABORATORY Research Lab

Scope:

The Environmental Engineering Research Laboratory of School of Civil Engineering focuses on determination of elemental compositions in terms of C, H and N of powdered solid samples using CHN Analyser and determination of ionic composition of water or waste water samples using Ion-chromatography. Fully automated PC controlled CHN analyzer provides combustion of the sample followed by reduction, trapping, gas chromatographic separation and detection of the products by temperature stabilized thermal conductivity detector for C, H, and N. Ion Chromatography can be used to characterize the different cations and anions present in the air, water or wastewater samples.

Faculty-in-charge: Dr. K Samal and Dr. D. B. Kumar

Technical Assistant: Ms. Harapriya Raoutray

Major Equipment:

CHN Analyser

Model: PerkinElmer 2400 Series II System

Specification

o Combustion temperature: 100-1100 °C

o Reduction temperature: 100-1000 °C

o Sample feed: 60 Auto sampler

o Detector: TCD (Thermal Conductivity Detector)

Separation Technique: Frontal Chromatography

o Carrier gas: Helium

Combustion Gas: Oxygen

o Calculations: Estimation of CHN in %

Ion-Chromatography

Model: 930 Compact IC Flex ChS/PP

Specification

O Minimum Detection Limit (MDL): 0.05μg per Cubic Meter or Less

o Flow rate: 0.001 to 20.000 mL/min

o Data Acquisition: Uses Auto ranging digital conductivity signal monitoring with MagIC software

o Power Supply: 110-240 V, 50/60 Hz, 1.3 A

Experiments:

CHN Analyser can be used to

• Estimate percentage of Carbon, Hydrogen and Nitrogen in solid organic samples.

Ion-Chromatography can be used to

 determine inorganic ions present in the water including anions such as Chloride, Bromide, Phosphate, Sulphate, Nitrate, Fluoride, and cations such as Lithium, Sodium, Potassium, Magnesium, Calcium, Ammonium.

Photo Gallery





CHN Analyser



Ion-Chromatography

C. <u>Instructional materials</u>

C.1 Course Name: Traffic Engineering and Transportation Planning

Instructor Details:

Dr. Malaya Mohanty is presently working as Assistant Professor at KIIT DU, India. He works in the area of Traffic Engineering, mainly in the field of traffic operations, management, control, and safety. During his masters, he had worked on aspects of traffic safety on hilly roads. Further, different problems experienced by road users while driving through median openings in India under heterogeneous traffic conditions was studied in detail by him during his Ph.D. He is interested in all the aspects of traffic engineering like traffic flow, delay, congestion, safety and its analysis using statistics and validating them with the real field data. He is involved in various consultancy projects in the field of traffic engineering and traffic forecasting.

Course Outline:

The course will help students, policy makers, practitioners, etc. to understand the role of a traffic engineer in various important dimensions on field and develop innovative strategies to combat various traffic problems. The course will help learners to perceive the knowledge on various traffic parameters, understand various phenomena of traffic flow and congestion, and learn the basics of transportation planning process.

Prerequisite: NIL

Learning outcomes: Learners will be able to

- Identify the different aspects of traffic engineering
- Determine traffic RU characteristics at various sections of road
- Perform highway capacity analysis.
- Design traffic facilities and understand about traffic control system
- Explain the concept of transportation planning
- Explain the economic evaluation of transportation plan

Skills you will gain: Understand various traffic phenomena; relations between various traffic parameters, understand steps of transportation planning, Traffic signaling techniques, Route optimization, Measure traffic congestion and quality of flow, Design alternative transportation systems, parking demand calculations.

Course plan:

Week 1:

- Introduction to traffic engineering and transportation planning (Video Lecture)
- Road user and vehicle characteristics (Video Lecture)
- Fundamental curves and relations of traffic flow (Video Lecture)

Week 2:

• Traffic Characteristics & Conditions in India

(Headway, types of headway, Sharing of lanes, Gap, Lag, Critical gap, Vehicle arrival, Queuing theory, Pedestrian facilities)

Week 3: (Video tutorials, Quizzes, and assignments)

Origin and Destination Studies (O-D matrix, Use in Transportation Planning)

Traffic Volume & Occupancy Studies (Volume, Capacity, Lane occupancy, Area Occupancy)

- 1 Quiz
- 1 Assignment

Week 4: (Video tutorials, Quizzes, and assignments)

Speed, Journey time and Delay Studies

(Types of speed, Percentile speed, Delay concepts, delay at intersections, Moving observer method)

Week 5: (Video tutorials, Quizzes, and assignments)

Parking Studies, Parking types & Facilities.

(Different parameters of parking, types of parking, Parking accumulation, volume, turnover, efficiency)

Week 6: (Video tutorials, Quizzes, and assignments)

Highway capacity & Level of Service (Capacity and its types, LOS for different facilities, Pedestrian LOS and its computation, Computation of number of lanes for roads)

Week 7: (Video tutorials, Quizzes, and assignments)

Traffic channelization (Types of channelization and traffic movements),

Design of Rotary/Roundabout

Week 8: (Video tutorials, Quizzes, and assignments)

Design of Traffic Signals

Traffic Signs and Road marking

Road Accidents (Road crash data, Accident analysis)

Week 9: (Video tutorials, Quizzes, and assignments)

Transportation Planning & Planning Surveys

4 steps of transportation planning

Trip generation and trip distribution

Week 10: (Video tutorials, Quizzes, and assignments)

Modal Split by various models

Gravity model

Trip assignment

Week 11: (Video tutorials, Quizzes, and assignments)

Land use models

Optimum scheduling

C.2 Course Name: Construction Planning & Management

Instructor Details:

Mohibullah is presently working as Assistant Professor at KIIT DU, India. Started his career in construction Industry. Giving exposure in the real projects challenges and strengthening technical as well managerial part of construction. Worked in L&T for 4.5 years in various site projects. Later due to his keen interest in Academics, started career in education as a Assistant Professor. His area of research and interest is project Management in construction.

Course Outline:

The course deals with management theories to deal with construction projects ,how to apply modern management systems to manage major resources including people. This course includes the different phases of construction, planning and scheduling methods. The course will help learner to know how to monitor and control construction projects with various tools and their significance to make projects profitable.

Prerequisite: NIL

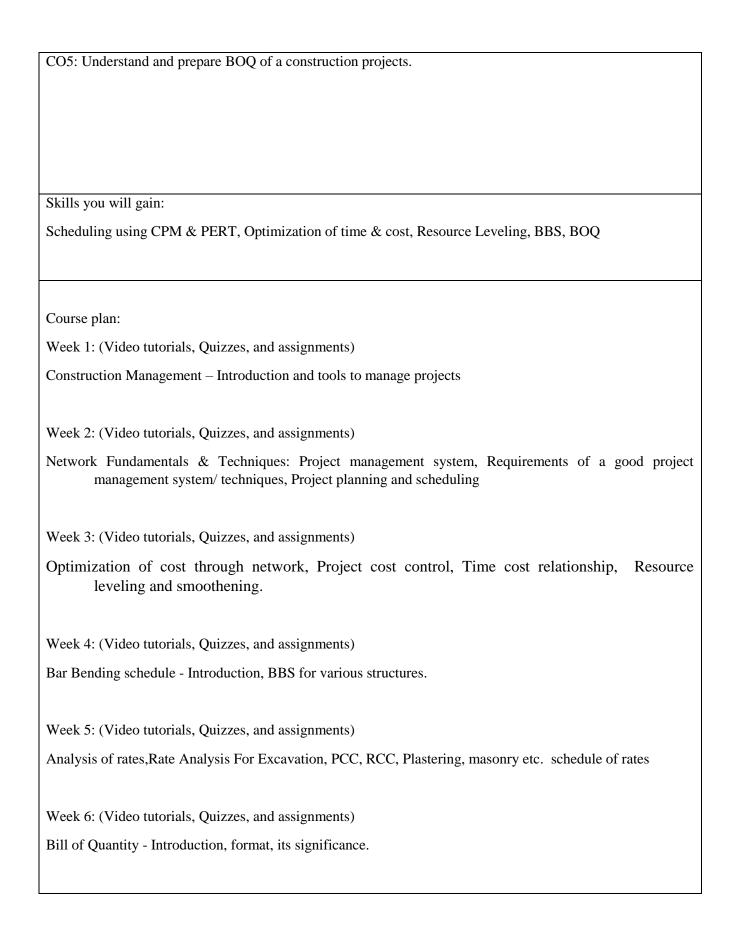
Learning outcomes: Learners will be able to

CO1: understand the different parameters of construction management

CO2: optimize the cost and time of a Project by using CPM & PERT

CO3: optimization of resources in a project

CO4: Understand and prepare Bar bending schedule



C.3 Course Name: Offshore Geotechnical Engineering

Instructor Details:

Dr. Satyajeet Nanda is working as an Associate Professor in the School of Civil Engineering, KIIT DU, Bhubaneswar, Odisha, India. He obtained Ph.D. in 2013 from the Department of Civil Engineering, Indian Institute of Technology Kanpur. He completed his M.Tech from IIT BHU and B.Tech. from CET, OUAT Bhubaneswar. He has worked as postdoctoral research fellow in School of Natural and Built Environment, Queen's University Belfast, United Kingdom between Dec. 2013 and Dec. 2016. Since the last eight years, Dr. Satyajeet Nanda is working on offshore Geotechnical engineering. He has been successfully completed a number of research assignment on various subjects related to offshore Geotechnical engineering. His research includes; load-settlement behavior of long piles, behavior of monopile in offshore loading condition, crushing properties of offshore sand, deep water anchor system and strain rate effect of soft soil.

Course Outline:	The course will provide basic information about offshore geotechnical engineering practices. The course shall be delivered in 12 weeks. The first two weeks discuss the offshore topographical features, marine sediment, and prevalent environmental forces in offshore. The weeks extending from week-3 to week-5 shall cover offshore site investigation and various in situ tests. The rest of the weeks shall discuss the geotechnical design aspect of different offshore foundation systems like Pile, Monopile, GBS and anchors.			
Prerequisite:	GE-I & GE-II			
Learning outcomes: Learners will be able to	 Offshore Environment Geotechnical investigation of offshore soils Uplift and lateral load carrying capacity of long pile Offshore anchors Gravity foundation Offshore pipeline and cable 			
Capacity Building & Skills you will gain	i. Learn about the various method used for site investigation for an offshore structure			
	ii. Learn about the Environmental loads prevalent if offshore			
	iii. Analysis of various foundation system used in offshore like, pile, GBS and anchors			

Total Duration: 12 to 18 hr		
Video Lecture:		
Activities:		
Course plan:		
 • Introduction, feature of offshore engineering, type of offshore foundation (Video Lecture) • introduction to the topographical feature of ocean floors, marine sediments (Video Lecture) • Environmental loads (Video Lecture) 	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 2: • Wave and current force (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 3: • Introduction on geophysical investigation and its application in offshore (Video Lecture) Geotechnical investigation (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment

Week 4: • In situ testing, Cone penetrometer and T-bar penetrometer (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 5: • Uplift load carrying capacity of single pile and group of piles (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 6: • Pile subjected to horizontal load and	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 7: • Pile subjected to horizontal load and moment acting on the pile cap (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment

Week 8: Types of shallow foundation in offshore condition (Video Lecture) Bearing capacity of shallow foundation (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 9: • types of anchor (Video Lecture) • Anchor line response for embedded anchors (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 10: Modal Split by various models (Video Lecture) Drag anchors (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 11: • Monopile (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment
Week 12: • pipeline network, geotechnical input to pipeline design, design issue (Video Lecture)	20 to 25 minutes for each video and total 60 to 90 minutes in a week	1 Quiz1 Assignment

moment acting on the pile cap (Video Lecture)	• 1 Quiz
plic cap (video Eccture)	• 1 Assignment

C.4 Course Name: Fluid Mechanics

Instructor Details: Dr. Paromita Chakraborty

Designation & Affiliation: Assistant Professor, School of Civil Engineering, KIIT DU, India.

Education: B. Tech, NIT Sichar, M. Tech, IIT Kanpur, Ph. D, IIT Bhubaneswar **Broad Area of Specialization:** Hydraulics & Water Resources Engineering

Specific Research Area: Flow behavior in open channel, hydraulics of flow in vegetated channel under laminar and turbulent flow conditions, experimental study of flow hydraulics in open channel, analytical and numerical analysis of open channel flow, rainfall-run off modeling, reservoir sedimentation process, sediment flow analysis.

Courses Taught: Fluid Mechanics, Advanced Fluid Mechanics, River Engineering & Sediment Transport, Surface Hydrology & Hydraulics, Water Resources Engineering

Course Outline:

The course will help students and researchers in understanding the applications of fluid mechanics concept in different domains of civil engineering problem solution. These include fluid property, types of fluid, fluid static, buoyancy and floatation, fluid kinematic, fluid dynamics, pipe flow, dimension analysis and models etc.

Prerequisite: Engineering Mechanics

Learning outcomes: The learners will be

- able to understand the fluid properties, classification of fluid and its application
- apply the basic equations of fluid statics to determine forces on planar and curved surfaces submerged in a static fluid; to manometers: to the determination of buoyancy and stability
- to know and use the concept of fluid kinematics, stream functions, velocity potentials and Laplace equation.
- to use Euler's and Bernoulli's equations and the conservation of mass to determine velocities, pressures and accelerations for fluids
- to perform dimensional analysis for problems in fluid mechanics.
- to apply the concepts to determine minor and major head losses for flows through pipes
- to apply the concept for design of simple pipe water distribution systems

Skills you will gain: Fundamental knowledge on fluid property, application of important fluid property for understanding natural phenomenon, skill of hydrostatic pressure and its measurement, hydrostatic force on different submerged bodies and its application in design of hydraulic

structures, pressure measurement using different types of manometers, understand, analyze and apply knowledge of buoyancy and floatation for design of floating objects.

Cours	e plan of Video Lectures & Tutorials	
Week		
•	Introduction to Fluid Mechanics	
•	Fundamental Properties of Fluid	
•	Detailed analysis of Viscosity, kinematic viscosity, different classification of fluid	Assignment-1 Quiz-1
•	Applications of Viscosity	
•	Pressure of Liquid	
•	Hydrostatic Law	
•	Pascal's Law	
•	Absolute and Gauge Pressure	
•	Hydrostatic Paradox	
Week	2:	
•	Measurement of Pressure	
•	Simple Manometer	Assignment-2
•	Positive U tube Manometer	Quiz-2
•	Negative U tube Manometer	
•	Differential Manometer	
•	Video Tutorial on Manometer	
•	Positive & Negative U tube manometer	
•	Differential Manometer	
Week	3:	
•	Hydrostatic Force on Surface	
•	Total Pressure	Assignment-3
•	Center of Pressure	Quiz-3
•	Pressure on submerged Horizontal Surface	
•	Pressure on submerged Vertical Surface	

Moment of Inertia for different Geometric Figures	
Hydrostatic Force on submerged Inclined Surface	
Derivation of Center of Pressure	
Week 4:	
Conditions for Floatation Fig. 131.	Assignment-4
Equilibrium Condition of Floating Bodies	Quiz-4
Metacenter and Metacentric Height	Qui2 1
Video Tutorial on Applications	
Week 5:	
Kinematics of fluid flow	
Continuity equation	Assignment-5
Convective and Local Acceleration	Quiz-5
• Assessment	Quiz-3
Stream lines, path lines	
Stream function and velocity potential function	
• Flow Net	
Week 6:	
Dynamics of inviscid flows	
Bernoull's equation	
Various flow meters	
Venturimeter	Assignment-6
Orificemeter	Quiz-6
Pitot tube	Quii 2 0
Week 7:	
Momentum equation and its application	
Flow through orifices	
Determination of various hydraulic coefficients	Assignment-7
Week 8:	Quiz-7

•	Dimensional analysis	
•	Buckingham's pi theorem	
•	Model analysis, Types of similarities	
•	Forces acting on moving fluid, Dimensionless numbers	Assignment-8
•	Model laws	Quiz-8
Week	9:	
•	Pipe flow	
•	Types of losses & energy loss in transition	
•	Major loss calculation	
•	Minor loss calculation	Assignment-9
•	Pipe networks	Quiz-9
•	Pipe networks	
Week	10:	
•	Laminar flow in pipes, velocity distribution (Laminar flow)	
•	Resistance to flow in turbulent flow	
•	Boundary Roughness	
•	Moody's diagram.	Assignment-10
		Quiz-10

D. Working models/charts/monograms etc.

Sl No	Name of the Laboratory	Working Charts
	Structural Engineering Laboratory	Covid Protocol Chart
		Safety Rules
1		Compression Testing Machine (CTM)
1		Drilling machine
		Oven
		Humidity Chamber

		Muffle Furnace
		Power Hacksaw
		Tile Abrasion testing Machine
		Universal Testing machine (100T)
		Universal Testing machine (40T)
		Testing Frame
		Concrete Pan Mixer
		Table Vibrator
	Geotechnical Engineering Laboratory	Covid Protocol Chart
		Safety Protocol Chart
		Experiment List Chart
		Course GOAL Chart
		Triaxial Test Apparatus
		UCS Test Apparatus
		Odeometer Consolidation Test
2		Auto Compactor Machine
		Direct Shear Test Apparatus
		In Plane Permeability
		CBR Test Appartus
		Relative Density Test Vibrating Table
		Permeability Test Appartus
		Loading Frame
		Wet/ Dry Seive Shaker Machine
	Transportation Engineering Laboratory	Covid Protocol Chart
		Aggregate Crushing Test
3		Los Angeles Abrasion Test
		California Bearing Ratio Test
		Bitumen Extractor
		Bitumen Penetration Test

		Ductility Test
		Marshall Test
		Impact Testing Machine
		Covid Protocol Chart
		venturimeter and orifice meter apparatus
	Fluid Mechanics Laboratory	Metacentric height apparatus
4		Reynold's Apparatus
7		Friction factor apparatus
		Triangular notch Apparatus
		Minor loss Apparatus
		Impact of jet on vane apparatus
		Covid Protocol Chart
	Environmental Engineering Laboratory	High Volume Air Sampler
		Muffle Furnace
		BOD Incubator
5		Nephelometric Turbidity Meter
		Jar Test Apparatus
		Dissolve Oxygen Meter
		Auto Clave
		pH Meter
6	BIM Laboratory	Covid Protocol Chart
		List of Licence Softwares
	Material Testing Laboratory	Covid Protocol Chart
		Concrete Permeability Testing Machine
		Flexural Testing Machine
7		Accelerated Curing Tank
		Sieve Shaker Machine
		Autoclave Machine
		Slump Test

Compression Testing Machine (CTM)
Compaction Factor Apparatus

MASONRY DEMONSTRATION LABORATORY Academic Lab

Scope:

The Masonry Demonstration Laboratory provides excellent state of the art facilities for teaching and research. The laboratory facilities are capable of physical testing, forms of bricks and demonstrating the bonds of types of bricks and brick masonry. Masonry Demonstration Laboratory is used for teaching a practical knowledge on brick and brick masonry for B.Tech Civil Engineering students. Students can directly correlated with the academic subject like Building materials and construction in 3rd semester.

Faculty-in-charge: Dr. D.K. Bera **Technical Assistant:** Mr. Alok Das

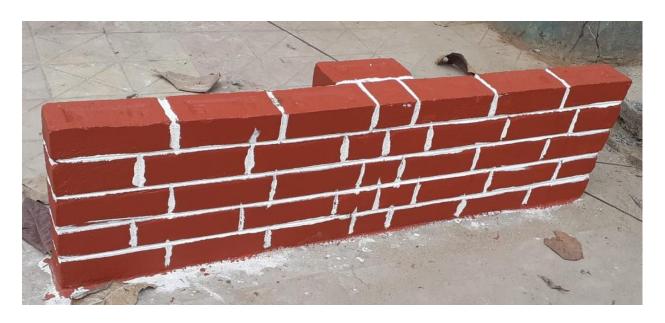
Experiments:

- Determination of Classes of Bricks using Physical testing.
- Study the shapes and forms of bricks used in construction.
- Study the types of brick bonds like Stretcher, Header, English, Flemish, Double Flemish, Rat Trapped Bond of different shapes.
- Study the Lay-out Plan of a single roomed house.
- Study the different steps of construction of house.
- Construction of brick masonry wall
- Testing of brick masonry wall

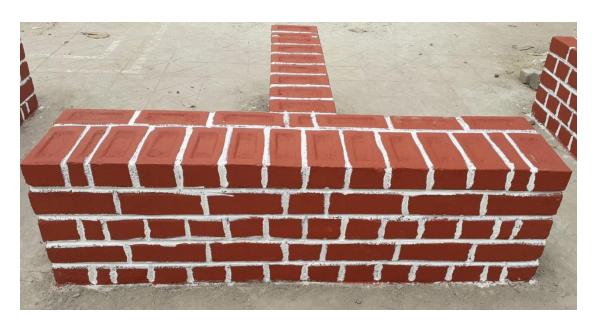
Photo Gallery



Overview image of the Masonry Demonstration Laboratory



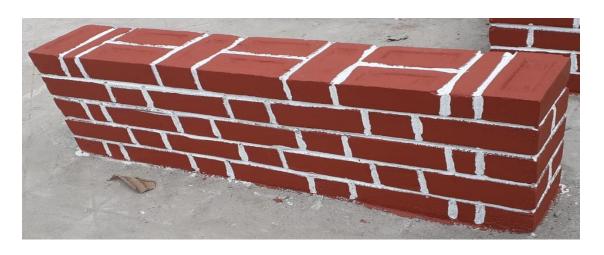
HALF BRICK THICK STRETCHER BOND



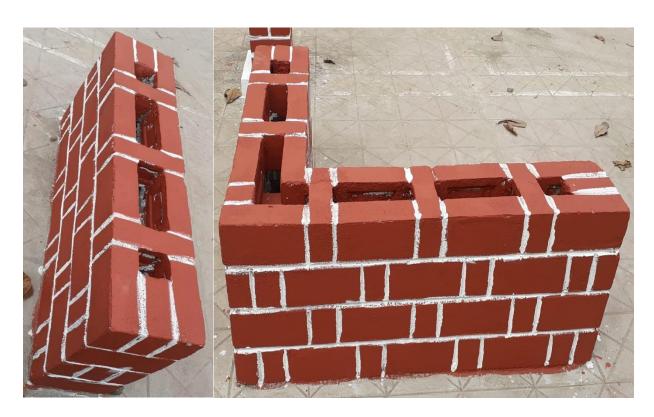
ONE AND HALF BRICK THICK WALL -ENGLISH BOND



ONE BRICK THICK WALL -ENGLISH BOND



ONE BRICK THICK - FLEMISH BOND



STRAIGHT AND L- TYPE ONE BRICK THICK RAT TRAPPED BOND WALL



CONSTRUCTION OF BRICK WORK WITH FOUNDATION ON LAYOUT PLAN

5.8.4. Consultancy (from Industry) (20)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative during CAYm1, CAYm2 and CAYm3):

Amount >10 Lacs - 20 Marks,

Amount \leq 10 and \geq 8 Lakh – 15 Marks,

Amount < 8 and ≥ 6 Lakh - 10 Marks,

Amount < 6 and ≥ 4 Lakh - 5 Marks,

Amount < 4 and ≥ 2 Lakh - 2 Marks,

 $Amount < 2\ Lakh - 0\ Mark$

CAY	2021-2022		
Project Title	Duration	Funding Agency	Amount (INR in Lakhs)
Technical Support Unit to the Housing and Urban Development Department, Government of Odisha to implement the state urban sanitation strategy (FSSM) - offered Technical services for 8 Districts of Odisha	2021- 2022	Ernst & Young LLP	40.92
Providing Design & Detailing of proposed barricade as per specification	2021- 2022	Ahluwalia Contracts (I) Ltd.	0.177

Total		
2021- 2022	Woodhill Infrastructure Ltd.	4.72
2021- 2023	Krishna Builders & Project Management Consultant: National Building Construction Corporation (NBCC) as a part of Consortium with NCCBM	0.2% of Tendered Amount (Rs.70 Crores) = 14.00
2021- 2022	RITES Limited (Ministry of Railway Enterprise)	0.50
2021- 2022	Gangadhar Jena Super Class Contractor	0.59
2021- 2022	DN Homes Pvt. Ltd	1.18
2021- 2022	Vikash Group Pvt. Ltd.	1.06
2021- 2022	Khushi Realcon Pvt. Ltd.	1.00
2021- 2022	Builder Consortium Tridev	0.89
2021- 2022	United Construction Corporation	0.89
2021- 2022	ZJSH SPV Pvt Ltd.	0.89
2021- 2022	National Highway Infrastructure Development Corporation Ltd. (NHIDCL), Nagaland	2.36
	2021 2021 2021 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022	Infrastructure Development Corporation Ltd. (NHIDCL), Nagaland 2021- 2022 ZJSH SPV Pvt Ltd. 2021- 2022 Builder Consortium Tridev 2021- 2022 Khushi Realcon Pvt. Ltd. 2021- 2022 DN Homes Pvt. Ltd 2021- 2022 Gangadhar Jena Super Class Contractor 2021- 2022 RITES Limited (Ministry of Railway Enterprise) Krishna Builders & Project Management Consultant: National Building Construction Corporation (NBCC) as a part of Consortium with NCCBM Woodhill Infrastructure Ltd.

CAY 2020-2021			
Project Title	Duration	Funding Agency	Amount (INR in Lakhs)

Four Laning of Dimapur to Kohima Road (KM 152.49 to KM 166.70) in the state of Nagaland under SARDP- NE(Pkg-III) for National Highways and Infrastructure Development Corporation Ltd (NHIDCL): Proposal submitted for extensive investigation	2020-2021	Gayatri Project Limited Kohima, Nagaland	2.00
Improvement of road infrastructure in the country under the umbrella of 'Institutional Social Responsibility (ISR)' for the adopted two stretches of National Highways 1. 74.5 km stretch from Chandikhol to Bhadrak Section on NH-5 (New NH-16) 2. 166 km stretch from Panikoili to Rimuli Section on NH-215 (New NH-20): NHAI offer internship to 40 numbers of undergraduate / postgraduate students of KIIT and pay stipend @ Rs. 6,000/- per month for undergraduate students and @ Rs. 12,000/- per month to Postgraduate students Creation of Lab infrastructure in KIIT and can sponsor relevant research project that helps in using alternative resource material and improving quality of roads • Related Consultancy work	2020-2025	National Highway Authority of India (NHAI)	3.60
Geotechnical Investigation for dewatering process and proposed solution for the same for Z1 Project, Bhubaneswar	2020-2021	Ahluwalia Contracts (I) Ltd.	1.42
Estimating Desired Soil Properties on Project site of Odisha Mining Corporation (OMC)	2020-2021	Dept. of Civil Engineering, IIT Roorkee	0.52
Traffic Study Report and detailed traffic management for the upcoming Residential Appartment project at Sundarpur, Bhubaneswar	2020-2021	D N Homes Pvt. Ltd.	1.48
Traffic Study Report and detailed traffic management for the upcoming 5 star Hotel Project at Gopabandhu	2020-2021	D N Homes Pvt. Ltd.	1.48

N 71 /	T	Ţ	
Nagar, Bhubaneswar			
Proposed Construction of Divisional			
Office Building			
(Basement+Ground+3Upperfloors)	2020-2021	LIC of India, Bhubaneswar	6.00
and Allied Ancillary Structures of			
Pokhairput, Bhubaneswar, Odisha			
Modernization Work of Divisional	2020 2021	TIC ST II G 1 1	1.00
Office Building at Sambalpur	2020-2021	LIC of India, Sambalpur	1.00
Construction of Godown & Ancillary			
Building for OSBCL depot at	2020-2021	ARCON PROJECT PVT LTD	2.00
Khurda, Odisha	2020 2021	ARCONTROJECTIVILID	2.00
·			
Traffic Study Report and detailed traffic management for the upcoming			
residential apartment project at	2020-2021	JMG Lifestyle Pvt. Ltd.	1.48
mouza, Bidyadharpur, Nayabazar,	2020-2021	JIVIG Eliestyle I Vt. Etd.	1.40
Cuttack.			
D (CDDD (WW)1 : C			
Preparation of DPR of "Widening of Kalinga ghat in valley side for			
elimination of Black spot from KM	2020-2021	NH Division, Sambalpur	14.89
86/000 to 86/600 KM of NH-157			
	Total		35.87
	CAY	2019-2020	
D 4		- ·	Amount (INR in
Project Title	Duration	Funding Agency	Lakhs)
Mix Design and Material Testing	2019-2020	KNK (Mind Tree)	0.23
	2019-2020	KIVK (WING TICC)	0.23
Making of Preliminary Design and			4.00
Estimating of Jagannath Ballav	2019-2020	M/s D N Homes	1.00
Pilgrim Center, Puri			
Design and Stability Constituted			
Design and Stability Certification services for retroffit of hoist and			
proposed corridor which will connect	2019-2020	Mantra Udyog	1.00
TG and CCR Building at +12m			
height, Balco Corrba, Chhatisgarh			

Proof checking of the structural design and drawings to accommodate one additional 20 Ton EOT Crane in addition to 3 other cranes operating in the same Bay of Structural Building & Handling hot metal in the Titanium Saraf Plant at Chatrapur	2019-2020	Saraf Agencies Pvt Ltd (Titanium Plant) Chatrapur, Ganjam, Odisha	1.00
Technical Support Unit to the Housing and Urban Development Department, Government of Odisha to implement the state urban sanitation strategy (FSSM) - offered Technical services for 8 Districts of Odisha	2019-2021	Ernst & Young LLP	61.41
Total			64.64
Grand Total			169.687

5.9. Faculty Performance Appraisal and Development System (FPADS) (10)

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Departments and the Head of Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years (5)
- Its implementation and effectiveness (5)

KIIT DU has a well-defined system for performance based appraisal system (PBAS) for faculty members for all the assessment years. Performance appraisal ensures documenting and evaluating an employee's performance with a view to enhancing work quality, output and

efficiency of the staff members.

Process of Implementation

- 1. A data capturing system has been implemented through the **SAP Integrated Management** System to record faculty contributions in diverse areas including:
 - Pedagogical activities
 - Research publications (journal papers, conference papers, book chapters, books)
 - Patents
 - Sponsored research projects
 - Consultancies
 - PG/PhD Guidance
 - Awards, recognitions and fellowships
 - Collaborations and interactions with the outside world
 - Contribution to research community through innovations, reviews, social outreach and extension activities
 - Tutor-mentoring
 - Administrative engagements and contributions
 - Overall feedback and value additions.

Analysis of PBAS

- The performance assessment of the faculty member is done through an expert committee formed by IQAC.
- All the captured qualitative and quantitative data submitted by faculty members are analyzed and converted to Academic Performance Indicator Score (API Score) bases on the approved marking scheme.

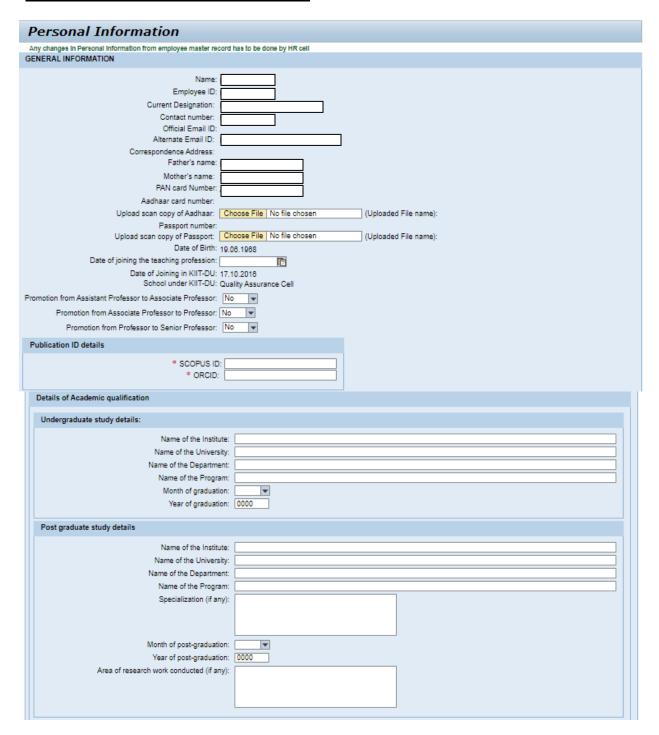
Awards and Rewards

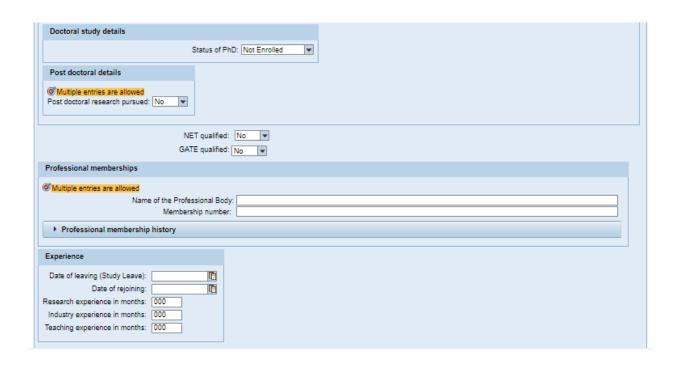
- Faculty members are encouraged, appreciated and recognized for their academic, research, administrative and outreach activities performance by University Management.
- Faculty members with significant contributions are awarded as Best staff, Best Researcher, Best faculty.
- Faculty members who upgrade their research work through quality publications honored by management and institute through research incentive every year.
- The Institute has a well-defined policy for promotion of faculty members. API score and the significant contribution of the faculty member is considered as one of the major criteria in the promotion of faculty members.

Effectiveness

- The performance based appraisal system has proven to be very effective in enhancing the quality of contribution of faculty members in teaching, research and other activities.
- There has been consistent increase in the number of research publications, funded projects, patents and faculty with PhD degree.

Sample format for Faculty Self-Assesment





Pedagogical Activities:-

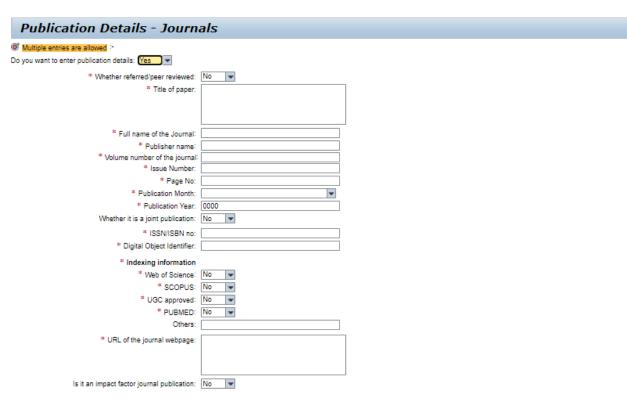
Theory Course Projectical Course Projection	ect/Thesis	Sessional Course	Course Coordinator - Theo	ry Course Coordinator - Practical	Course Coordinator - Sessional/Project
Theory Course Details					
Multiple entires are allowed					
Do you want to enter theory course details: Yes					
	Academic y		▼		
* Lev	el of the Cou * Course co		▼		
	* Course na				
	* Semes		₹		
•	* Course cred		0.00000		
* Number of hours assigned for the course	in the semes	ter:	0.00		
* Total Number of contact hours in the			0.00		
* Number of learning acti					
Upload a single PDF document comprising description different learning activities, mapping with COs and their deta	ns/questions f ailed evaluatio scheme	on	file chosen		
* Total number of students in this course und		•			
* Number of students under your tutelage who have succes	sfully completed				
* Number of hours spent in the entire evaluation proces			0.00		
* Number of Que			0		
* Number of Question pa	apers modera	ted:	0		
* Total hours of	f invigilation d	uty:	0.00		
Attainment of COs					
CO1-Mention CO1 statement-Mention the attainment of CO					
CO2-Mention CO2 statement-Mention the attainment of CO2					
CO3-Mention CO3 statement-Mention the attainment of CO3					
CO4-Mention CO4 statement-Mention the attainment of CO4	4 in your grou	p:			
CO5-Mention CO5 statement-Mention the attainment of CO5	5 in your grou	p:			
CO6-Mention CO6 statement-Mention the attainment of CO6	β in your grou	p:			
Practical Course Details					
Multiple entires are allowed :-					
Do you want to enter theory course details: Yes	Academic y				
	vel of the Cou		▼		
200	* Course of				
	* Course na				
	* Semes	ter: Autumn	▼		
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* Number of hours assigned for the course			0.00		
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	schem	25			
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* Number of students under your tatelage who have succes	the cou				
* Number of hours spent in the entire evaluation proces	s for this cou	rse:	0.00		
Attainment of COs					
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CO2-Mention CO2 statement-Mention the attainment of CO2	2 in your grou	p:			
CO3-Mention CO3 statement-Mention the attainment of CO3	3 in your grou	p:			
CO4-Mention CO4 statement-Mention the attainment of CO4	4 in your grou	p:			
CO5-Mention CO5 statement-Mention the attainment of CO5	5 in your grou	p:			
CO6-Mention CO6 statement-Mention the attainment of CO6	β in your grou	p:			

Project/Thesis Details				
© Multiple entires are allowed :-				
Do you want to enter theory course details: Yes				
* Academ	nic year:	▼		
* Proje	ct Type:	Major 🔻		
* Level of the	Course:	_		
* Cours	se code:]	
* Cours	e name:]	
* Se	emester:	Autumn		
* Course	credits:	0.00000		
* Student roll n	umbers:			
* Title of the	Project:			
* /	Abstract:			
	NUSUIOU.			
* Number of hours assigned for the course in the se	emester:	0.00]	
* Total Number of contact hours in the entire se	emester:	0.00]	
* Number of students who have successfully completed the	course:	00000]	
* Number of hours spent in the entire evaluation process for this	course:	0.00]	
* List of publi	ications:			
List of publications.				
* Impact /Outcome of the project/thesis:				
Sessional Course Details				
© Multiple entires are allowed :-				
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* Level of the Course:				
* Course code: [* Course name: [
	Autumn	₩		
* Course credits:	- Ottomin	0.00000		
* Number of hours assigned for the course in the semester:		0.00		
* Total Number of contact hours in the entire semester:		0.00		
Upload a single PDF document comprising descriptions/questions for:	Choose File	e No file chosen		
different learning activities, mapping with COs and their detailed evaluation schemes				
* Total number of students in this course under your tutelage:	00000			
· · · · · · · · · · · · · · · · · · ·				
* Number of hours spent in the entire evaluation process for this course:		0.00		
Attainment of COs				
CO1-Mention CO1 statement-Mention the attainment of CO1 in your group:				
CO2-Mention CO2 statement-Mention the attainment of CO2 in your group:				
CO3-Mention CO3 statement-Mention the attainment of CO3 in your group:				
CO4-Mention CO4 statement-Mention the attainment of CO4 in your group:				
CO5-Mention CO5 statement-Mention the attainment of CO5 in your group:				

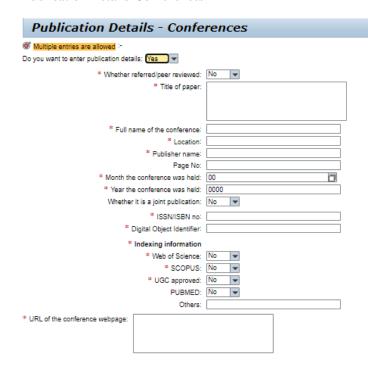
Co-ordinator - Theory Cou	rse Details	
Multiple entires are allowed :-		
Do you want to enter theory course details: Yes		
* Academic year:	▼	
* Level of the Course:	▼	
* Course code:		
* Course name:		
* Semester:		
* Course credits:	0.00000	
* Number of hours assigned for the course in the semester:	0.00	
* Total Number of contact hours in the entire semester: Attainment of COs	0.00	
CO1-Mention CO1 statement-Mention the attainment of CO1	in your group:	
CO2-Mention CO2 statement-Mention the attainment of CO2	in your group:	
CO3-Mention CO3 statement-Mention the attainment of CO3	in your group:	
CO4-Mention CO4 statement-Mention the attainment of CO4	in your group:	
CO5-Mention CO5 statement-Mention the attainment of CO5		
CO6-Mention CO6 statement-Mention the attainment of CO6	in your group:	
Co-ordinator - Practical Co	urse Details	
Multiple entires are allowed :-		
Do you want to enter theory course details: Yes		
* Academic year:	▼	
* Level of the Course:	▼	
* Course code:		
* Course name:		
* Semester:	Autumn	
* Course credits:	0.00000	
* Number of hours assigned for the course in the semester:	0.00	
* Total Number of contact hours in the entire semester:	0.00	
Attainment of COs		
CO1-Mention CO1 statement-Mention the attainment of CO1	in your group:	
CO2-Mention CO2 statement-Mention the attainment of CO2	in your group:	
CO3-Mention CO3 statement-Mention the attainment of CO3	in your group:	
CO4-Mention CO4 statement-Mention the attainment of CO4	in your group:	
CO5-Mention CO5 statement-Mention the attainment of CO5	in your group:	
CO6-Mention CO6 statement-Mention the attainment of CO6		
COO-Mention COO statement-Mention the attainment of COO	in your group.	
Co-ordinator - Sessional /	Project Course Details	
Multiple entires are allowed :-		
Do you want to enter theory course details: Yes		
* Academic year:	▼	
* Level of the Course:	₩	
* Course code:		
* Course name:		
* Semester:		
* Course credits:	0.00000	
* Number of hours assigned for the course in the semester:	0.00	
* Total Number of contact hours in the entire semester:	0.00	
Attainment of COs		
CO1-Mention CO1 statement-Mention the attainment of CO	in your group:	
CO2-Mention CO2 statement-Mention the attainment of CO2	2 in your group:	
CO3-Mention CO3 statement-Mention the attainment of CO3	3 in your group:	
CO4-Mention CO4 statement-Mention the attainment of CO4	f in your group:	
CO5-Mention CO5 statement-Mention the attainment of CO5		
222	, g	1

CO6-Mention CO6 statement-Mention the attainment of CO6 in your group:

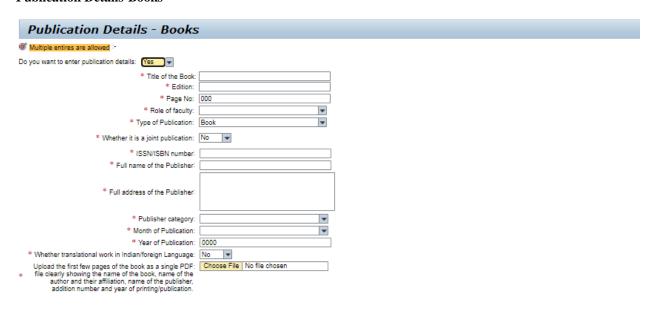
Publication Details-Journals



Publication Details-Conferences

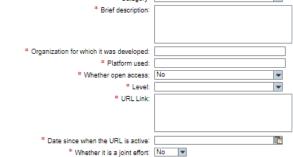


Publication Details-Books

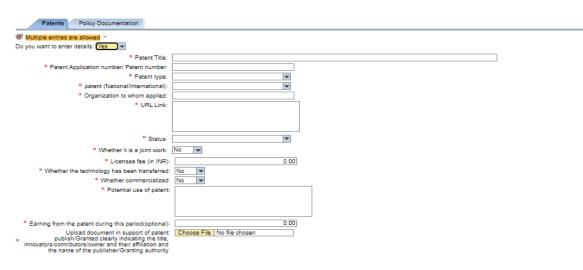


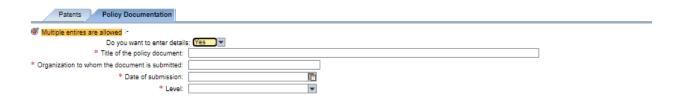
Learning Pedagogy

ICT Mediated Teaching Learning Pedagogy, MOOCs and E-content Multiple entires are allowed: Do you want to enter details: Yes * Category:

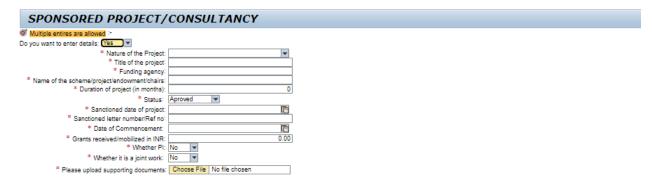


Patents





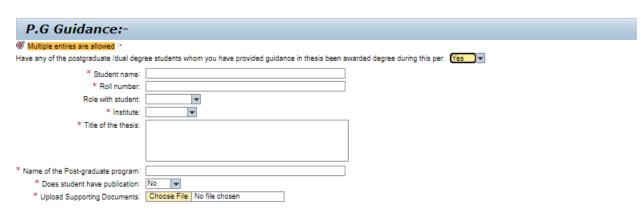
Project/Consultancy



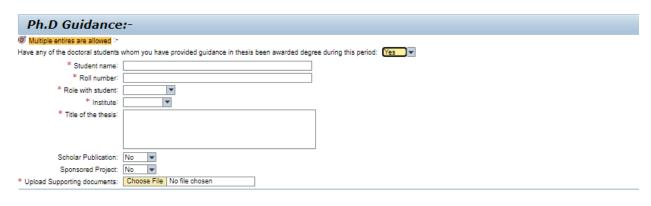
Publication Statistics



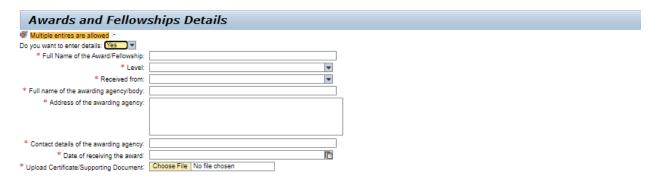
P.G Guidance



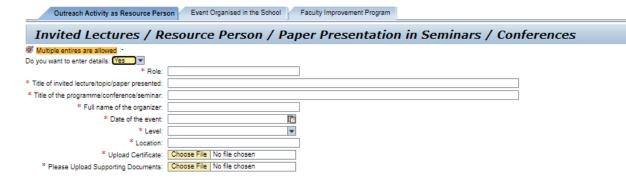
Ph.d Guidance

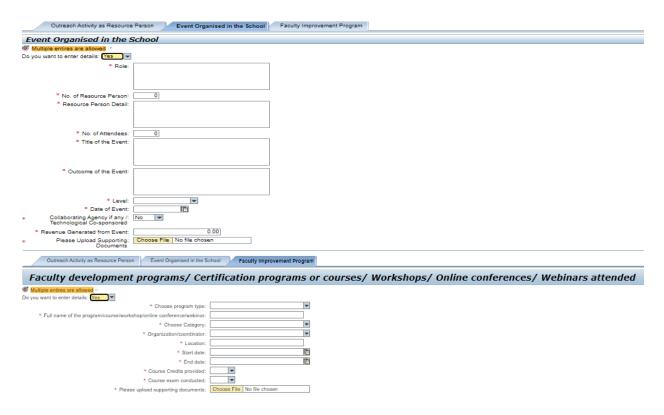


Awards and Fellowships



Interaction with Outside World





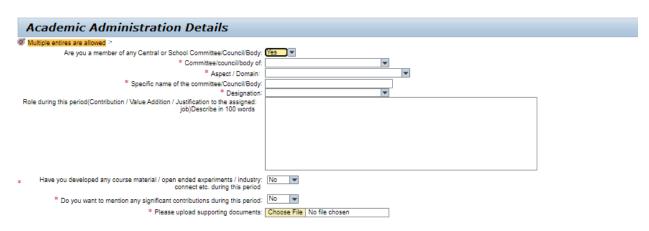
Social Outreach



Tutor Mentoring

Tutor Mentoring Activities Detail		
Multiple entires are allowed :-		
* Agenda of the meeting:		
* Date of the meeting:		
* Students present in the meeting:	0	
* Number of one to one interactions held:	0	
* Number of communications to the mentees:	0	
* Number of communications made to parents:	0	
* Mode of communication used:		
Wide of communication ased		
* Measures taken to solve the difficulties of the Mentees (Academic):		
 Measures taken to solve the difficulties of the Mentees (Academic): 		
* Measures taken to solve the difficulties of the Mentees (Non-Academic):		
* Number of meetings with parents with specific problem of mentees academically:		

Academic Administration



Faculty Feedback

Faculty Feedback Section	
Employee Number :	
Name of the Faculty :	
Designation :	
Name of the School :	
Academic year :	
Date of Submission :	
Please select the radio button on the basis of your observa	ations and experience
Project / Thesis on recent emerging multidisciplinary area	@5 O4 O3 O2 O1
Teaching Pedagogy	⊕ 5 ○4 ○3 ○2 ○1
Student Participation in Different learning activities	⊕ 5 ○4 ○3 ○2 ○1
Guest Lecture / Expert Talk by industry people	@5 O4 O3 O2 O1
Industry Visit	@5 04 03 02 01
Innovative Teaching practices and the ICT platforms used (link)	
Value addition, Institutional Building and Branding	
Comments/Suggestion (if any)	

5.10. Visiting/Adjunct/Emeritus Faculty etc. (10)

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

- Provision of visiting/adjunct faculty (1)
- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc.(9) (Minimum 50 hours interaction in a year will result in 3 marks for that year; 3marks x 3years= 9marks)

KIIT DU has the provision of inviting visiting /adjunct and Emeritus faculty or industry experts to deliver lectures for the core courses. In addition to this, technical symposiums, and lecture series are also organized at the school level, where experts from industry and academia are invited to address the students on real-world life experiences. A detailed list of visiting /adjuncts/emeritus faculty are given below for three assessment years.

Details of Visiting/Adjunct/Emeritus Faculty: 2020-2021

Sl. No.	Name		Institution or University or Retired Professor		Hours of interaction with visiting faculty
01	Dr	Pradip	NIT Rourkela	Mechanics of Material	15

	Sa	ırkar			
02		nnath leti,	VP President & Head HR L & T Defence	Building Culture of a Digital Future: Challenges Here and Now (People Perspective)	2
03		Annie m, A	Head & Diversity Outreach Citrix Singapore	Building Culture of a Digital Future: Challenges Here and Now (People Perspective)	2
04		reenu mbat	VP HR, Navayuga Enginnering Company Limited	Building Culture of a Digital Future: Challenges Here and Now (People Perspective)	2
05	Cl ve Di or HI Hi		Director, HR, Hilti India	Future of Work: HR Competencies	2
06		sheed . L.,	Head HR, My Homes Construction Ltd	Future of Work: HR Competencies	2
07		binda andy,	GM-HR, Strata Geosystems (India) Pvt. Ltd.	Becoming Industry Ready	2
08		Tridip urma,	GM, HR, Patel Engineering Ltd.	Becoming Industry Ready	2
09	M	ansh ama	CHRO, The Wave Group	Building the Organization for Future	2
10	Mr. R	ajesh	Bridage Group	Emerging	2

	Srishet ty,		Technologies in Building Construction in India	
11	Prof. Suranjan Panigr ahi	Professor, Purdue University, USA	Air-Water- Health Nexus: Role of Advanced Technologies.	2
12	Prof. Ts.Dr. Christ y P. Gomez	Associate Professor, Universiti Tun Hussein Onn, Malaysia	Cultural Shift towards Sustainability in the Construction Industry	2
13	Prof. Jean- Louis Roubat y	Professor, Paris-Diderot University Consultant	Indoor Airquality, CO2 measurement and Reduction of Covid-19	2
14	Dr. Ajay Pradha n	VP, CEAI & President, C2S2 Pvt Ltd	Sustainable Agriculture Water Management through Internet of Things (IoT) in Punjab, Indi a	2
15	Prof. Sudhin dra Nath Panda	Director, National Institute of Technical teachers Training and Research (NITTR), Govt of India	Education and Training for Sustainable Development	2
16	Prof. Debak anta (Deb) Mishra	Associate Professor, Oklahoma State University, USA	Pavement Material Characterisatio n and field instrumentatio n	2
17	Prof. Achintya Bezbar uah	Professor, North Dakota State University, USA	Preparing Our Municipal Infrastructure for Climate	2

			Change	
18	Prof. Pijush Samui	Associate Professor, NIT Patna	Artificial Intelligence in Infrastructure Engineering	2
19	Dr. Sunil S. Basark ar,	General Manager , AFCONS Infrastructure Limited	Sustainability in infrastructure in Reference to Multi-Activity Road Project at Himachal Pradesh, India	2
20	Dr. R. N. Sankh ua,	Chief Engineer, NWDA, Hyderabad	Sustainable Water Resources: Reimagining a blue future	2
21	Mr. Prasanta Kumar Mohap atra	Project Director, OWSSB, Govt. of Odisha	Sustainable Urban Municipal Waste management	2
22	Mr. Ajay Singha 1	General manager, G R Infrastructure Pvt Ltd	Status of Infrastructure Projects in India	2
23	R. N. Das	Global Archer LLC	Oil & Gas Projects	1
24	Nupur Apte- Gumast e	Global Archer LLC	Const. MGMT, BOQ, Quantity survey, Business Development	1
25	Somnath Gaikwa d	Global Archer LLC	Accounts & Finance	1
26	Aritra Das Adhika ri & Poorvi Singh	Global Archer LLC	Autocad & Staadpro.	2
27	Shubham Choudh	Global Archer LLC	Brief on GSM Project	1

	ary			
28	Papiya Saha	Global Archer LLC	Individual project details & work methodology	1
29	Ankur Raj	Global Archer LLC	Refinery: Introduction, Design & construction of onshore oil facilities like Sub-stations	2
30	Anshuman Gourav	Global Archer LLC	Brief on Yembouli site	1
3`	D.N.Pegu	Global Archer LLC	Brief on Boffa Project	1
32	Anurag Paul & Deep Prakash	Global Archer LLC	Brief of electrical & mechanical	1
33	Vijay Jamader	Global Archer LLC	Testing of Aggregate,Concr ete, Cement ,Soil, Bitumen, NDT	1
34	Nishikant Parida	Global Archer LLC	Konta port loading & unloading procedure	2
35	Sudhir Pawar	Global Archer LLC	Konta port Operation & Maintanance	1
		1	Total hours of interaction	73

Details of Visiting/Adjunct/Emeritus Faculty: 2019-2020

		Institution or	University	•	Hours	of	interaction
Sl. No.	Name	or	Retired	Subject		with	visiting
		Profess	or			facul	lty

01	Dr.Achintya Bezba ruah, Gehrts	Presidential Professor and Associate Professor of Civil and Environmental Engineering at North Dakota State University (NDSU), Fargo, USA	"Small Community Water and Wastewater Treatment"	2
02	Mr. Samiran Sarkar,	Sr GM, HR, Penna Cement;	Industry Knowledge Lecture Series on Innovation in Constructio n, Real Estate, Infrastructur e & Projects (iCRIP)	2
03	Mr. Sankar Reesu,	Head Hr, Pennar Industry;	Industry Knowledge Lecture Series on Innovation in Constructio n, Real Estate, Infrastructur e & Projects (iCRIP)	2
04	Mr. Anil Panda,	CEO, SCPL;	Industry Knowledge Lecture Series on Innovation in Constructio n, Real Estate, Infrastructur e & Projects (iCRIP)	2
05	Dr. Deb Mishra,	Associate Professor School of Civil and Environmental Engineering, Oklahoma State	An integrated approach to understand the behavior of coarse and fine	2

		IImiit IIC A	1	
		University, USA	grained	
			solid:	
			Findings	
			from field	
			instrumentat	
			ion,	
			advanced	
			laboratory	
			characteriza	
			tion, and	
			numerical	
			modeling"	
			in a a a mig	
			Industry Knowledge	2
			Lecture	
			Series on	
			Innovation	
	Mr. Arabinda		in	
06	Kumar	Sr. HR Head of Strata Geo	Constructio	
00	Nandy,	System Pvt Ltd	n, Real	
	runay,		Estate,	
			Infrastructur	
			e & Projects	
			(iCRIP)	
			Introduction to port	6
07	R N Das	Global Archer LLC	and	<u> </u>
0.			Harbour	
08	R N Das	Global Archer LLC	Harbour planning	8
08	K N Das	Global Alchel ELE	principles	
			T . 1	0
			Introduction on	8
09	R N Das	Global Archer LLC	Oceanograp	
0,			hic	
			parameter	
	R N Das and			8
	Nandin			O
10		Global Archer LLC	Sita Salaation	
10	ee	Giovai Archef LLC	Site Selection	
	Goswa			
	mi			
11	Prakash Kr Pd	Global Archer LLC	Types of breakwaters	8
11	Tunuon IXI I u	Global Filelier ELC	1 Jpcs of Steakwaters	J
12	Prakash Kr Pd	Global Archer LLC	Port Planning	8
13	Prakash Kr Pd	Global Archer LLC	Docks and its	8
13	111111111111111111111111111111111111111		function	
	1			
14	Manoj Verma	Global Archer LLC	Ocean in the earth	8

			system			
15	Manoj Verma	Global Archer LLC	Marine Sediments	8		
16	Saroj Nayak	Global Archer LLC	Oceanographic Investigatio n	8		
17	Saroj Nayak	Global Archer LLC	Forecasting cargo and passenger demand	8		
18	Saroj Nayak	Global Archer LLC	Economic evaluation of port project	8		
19	Saroj Nayak	Global Archer LLC	Port operations	8		
20	Saroj Nayak	Global Archer LLC	Siltation study	8		
21	Saroj Nayak	Global Archer LLC	Design of port infrastructur e	4		
22	Sanjay Lakhe	Global Archer LLC	Communication at port	8		
23	Sanjay Lakhe	Global Archer LLC	Electrification and instrumentat ion	8		
24	Anshuman	Global Archer LLC	Construction of port at river/ocean	8		
	Total hours of interaction					

Details of Visiting/Adjunct/Emeritus Faculty: 2018-2019

Sl. No.	Name	Institution or University or Retired Professor	Subject	Hours of interaction with visiting faculty
01	Sachidananda		to lead a successful Life"	2
02	. T.P. Singh	Director-Symbiosis Institute of Geoinformatics,	patial Technology and	2

		Pune	Career"	
03	Amitava Mitra	AGM- Technical Services and Er. Tushar Mohapatra, Regional Head-Technical Services	cal Talk on "World of Cement, Concrete and Career Scopes in Cement Marketing"	2
04	Mr. T.L. Sharm a	Patel Engineering	nerging Trends in Infrastructure Development	2
05	Mr. A. Patnaik	AABSYS	nerging Trends in Infrastructure Development	2
06	Mr. Sambit De	Peri India	nerging Trends in Infrastructure Development	2
07	Ms. Ketki Pradha n	Peri India	nerging Trends in Infrastructure Development	2
08	Mr. Subha darshi Mishra	SPARC	nerging Trends in Infrastructure Development	2
09	Atul Agarwal	Balaji Infratech	nerging Trends in Infrastructure Development	2
10	Col. P. Srivast ava -	Adani Port	nerging Trends in Infrastructure Development	2
11	Mr. Ajay Kumar Singha 1 -	Simplex Infrastructures Ltd.	nerging Trends in Infrastructure Development	2
12	Mr. Sachindra Tripath y	JMC Projects	nerging Trends in Infrastructure Development	2
13	Dr. Sarvesh Mishra	NICMAR	nerging Trends in Infrastructure Development	2

	Mr. Bijoy Kr.		nerging Trends in	2
1.4	Roy	VD Ashwin Soth Group	Infrastructure	2
14	Roy	VP, Ashwin Seth Group	Development	
			Development	
	Dr. Pandu		nerging Trends in	2
15	Ranga	IVRCL	Infrastructure	_
13	Rao	11102	Development	
			20 veropinent	
	Priyanka Sinha		amentals of Port and	14
			Harbour	
16		Global Archer LLC	Engineering-	
			Introduction and	
			Fundamentals	
	Shailendra Jha		amentals of Port and	6
17		Global Archer LLC	Harbour	
17		Global Meller EEC	Engineering-Natural	
			Phenomena	
	Davonand D		amentals of Port and	(
	Dayanand Pegu		Harbour	6
18		Global Archer LLC		
			Engineering-Port	
			Infrastructures	
	Jali Debnath /		amentals of Port and	15
	Manoj Verma		Harbour	13
			Engineering-	
19		Global Archer LLC	Introduction and	
			Fundamentals/Site	
			Selection	
	Mr. Prakash		amentals of Port and	12
20	Prasad	Global Archer LLC	Harbour	
20		Global Archel ELC	Engineering-Design	
			of port infrastructure	
	Mayur Bhatt		amentals of Port and	6
	Mayur Dilatt		Harbour	6
21		Global Archer LLC	Engineering-	
			Surveying and Study	
			Surveying and Study	
	Saroj Nayak		amentals of Port and	3
			Harbour	
22		Global Archer LLC	Engineering-Design	
			of port infrastructure	
	Shubham		amentals of Port and	6
23	Banerj	Global Archer LLC	Harbour	
23	ee /	Giovai Aichel LLC	Engineering-Design	
	Manoj Verma		of port infrastructure	

	Canai Marrala			2
24	Saroj Nayak	Global Archer LLC	amentals of Port and Harbour Engineering-Traffic Study, Demand Assessment/Forecast	3
25	Shubham Banerj ee / Manoj Verma	Global Archer LLC	amentals of Port and Harbour Engineering-Traffic Study, Demand Assessment/Forecast	3
26	Jali Debnath / Manoj Verma	Global Archer LLC	amentals of Port and Harbour Engineering- Introduction and Fundamentals/Site Selection	15
27	Mayur Bhatt	Global Archer LLC	amentals of Port and Harbour Engineering- Surveying and Study	5
28	Mr. Prakash Prasad	Global Archer LLC	amentals of Port and Harbour Engineering- Surveying and Study	12
29	Shubham Banerj ee / Manoj Verma	Global Archer LLC	amentals of Port and Harbour Engineering-Design of port infrastructure	6
30	Saroj Nayak	Global Archer LLC	amentals of Port and Harbour Engineering-Design of port infrastructure	3
31	Shubham Banerj ee	Global Archer LLC	amentals of Port and Harbour Engineering-Design of port infrastructure	6
32	Saroj Nayak	Global Archer LLC	amentals of Port and Harbour Engineering-Traffic Study, Demand Assessment/Forecast	3

33	Manoj Verma	Global Archer LLC	amentals of Port and Harbour Engineering-Traffic Study, Demand Assessment/Forecast	3
		157		

CRITERION 6	Facilities and Technical Support	80					
6.1 Adequate and well equipped laboratories, and technical manpower (40)							

	Name of the Laborat ory	No.of studens per setup (Batch Size)		Weekly utilization status	Technical Manpower support			
Sr. No.			Name of the Important equipment	Important for which the lab	Name of the techn ical staff	Designation	Qualification	
	Structural Engineerin	34/Batch	1. Beam Testing	40hrs	Mr.Alok	Technical Assitant	B.tech	
	g Lab		2.Machine,Bench			- 100.10011		
	Lab		irinder					
			3.Buoyancy Balance					
			4.Compression testing					
			machine					
			5.Concrete pan Mixture					
			6.Crane					
			7.Drilling machine					
			8.Hot Air Oven					
			9.Humidity Chamber					
			10.Hydraulic Jack					
			(Capacity: 200 kN)					
			11.Muffle Furnace					
			12.Needle Vibrator					
			13.Plate vibrator					
			14.Power Hacksaw					

2		34/Batch	1.Compression testing		Mr.		B.tech
	and Material		Machine(Digital)		Prassan Kumar	Assistant	
	Testing Lab		2.Flexural Testing		Rout		
			3.Machine(Motorized)				
			4.Sieve Shaker				
			5.Accelerated Curring				
			Tank				
			6.Humidity Chamber				
			7.Concrete Permeability				
			8.Mortar Vibrator				
			9.Table Mould Vibrator				
2	C - 4 - 1 - 1	20 /D + 1	100	401	M.,	T1:-:-1	D 41-
3	Geotechnic al	30/Batch	1.Andresson pipette		Mr. Monoj	Techinical Assistant	B.tech
	Engineerin		stand		Kumar		
	g Lab		2.Consolidation test		Nayak		
			3.CBR test apparatus				
			4.Cone penetrometer				
			5.Cross permeability &				
			in-plane permeability				
			6.Direct shear test m/c				
			with digital indicator				
			7.Geogauge for				
			stiffness testing				
			8.Mechanical sieve				
			Permeability				
			apparatusshaker				
			9.Relative density				
			apparatus				

4	Hydraulic	34/Batch	1.Apparatus for Orifice	40hrs	Mrs	Teachnical	B.tech
	and Water resource		and Mouthpiece		Subhalax	Assistant	
	Engineerin g Lab		2.Bernoulli's Theorem		mi Jena		
			Apparatus				
			3.Friction Loss				
			Apparatus				
			4.Impact of JET on				
			Vane Apparatus				
			5.Kaplan Turbine				
			6.Minor Loss Apparatus				
			7.Metacentric Height				
			Apparatus				
			8.Orifice-meter and				
			Venturimeter				
			Apparatus				
			9.Pelton Wheel Turbine				
5	Transport ation	34/Batch	1.Abrasion Testing	40hrs		Technical Assistant	B.tech
	Engineerin g lab		Machine		Choudhry		
	g iab		2.Ductility Testing				
			Machine				
			3.Bitumen Extractor				
			4.Road Profilo Graph				
			5.C.B.R Testing				
			Machine				
			6.Impact Testing				
			Machine				
			7.Say Bolt Viscometer				
			8.Penetrometer				
			0 Din - And D-11				

6	Survey/Ge	34/Batch	1.Total Station			B.tech
	omatics lab		2.G.P.S Handset	Kumar Dora	Assistant	
			3.Transite Theodolite			
			4.Auto Level			
			5.Prismatic Compass			
			6.Metric Chain (30 m			
			and 20 m)			
			7.Plane Table			
			8.Measuring Tape (30			
			m)			
7	Environme	34/Batch	1.BOD Incubator			Mtech
	ntal Engineerin		2.Burette Stand	ati Sasmal	Assistant	
	g lab		3.Jar Test Apparatus			
			(DIGITAL)			
			4.Turbidity Meter			
			5.Sound Level Meter			
			6.High Volume Air			
			Sampler			
			7.Weighing Balance			
			(accuracy: 0.0001 g)			
			8.Hot Air Oven			
			9.Water Bath 10			
			Chamber			
			10.BOD Incubator			
			Shaker			
			11.Sonicator-			
			Rectangular chamber,			

8		34/Batch	1. Bentley's software	40hrs	Mrs.	Technical	B.tech
Com	iputati	54/Datcii	1. Denticy's software	401115	Elora	Assistant	D.tccii
onal			in bundle		Choudhry	Assistant	
	to Desk		iii buildie		Choudiny		
KIIT	Γ-BIM		2 2 2 C 4 D 1 :				
Lab))		2. 3D CAD design				
			and modeling for				
			basic engineering				
			3.Micro Station Power				
			Draft and Micro				
			Station				
			4.Building information				
			modeling for				
			architecture/plannin				
			aremiteetare, plannin				
			5.AECOsim Building				
			Designer, AECOsim				
			Energy Simulator,				
			Bentley Navigator				
			and Bentley				
			Connections Passport				
			6.3D Imaging, Point				
			Clouds and Mapping				
			for GIS engineering				
			7. Bentley Descartes,				
			Bentley Map				
			Enterprise and				
			Bentley Point tools				
			Benney I omit tools				
			8.Transportation for				
			8. Fransportation for				
			C: IF : :				
			Civil Engineering				
			9 .Bentley MXROAD				
			V8i Suite and				
			Bentley Power Civil				
			for Country				
			10.Offshore for advance				
			Structural Engineering				
			12.Bentley Maxsurf				
			Enterprise, SACS				
			Marine Enterprise				
	J		and SACS Offshore				
			Structure Enterprise.				
			T				
			13.Structural solution				
			for Applied				
			Mechanics/Structural				
			Engineering				
			Engineering				
			14 CTA AD Dec				326
			14.STAAD Pro.				326

9.	Engineering drawing Hall-1	Drawing Board Desktop Monitor projector		Technical Assistant	B.tech
10.	Engineering drawing Hall-2	Drawing Board Desktop Monitor projector		Technical Assistant	B.tech
11.	Engineering drawing Hall-3	Drawing Board Desktop Monitor projector		Technical Assistant	B.tech

6.2. Laboratories maintenance and overall ambiance (10)

Maintenance of academic infrastructure and facilities

- ✓ KIIT DU is equipped with full time skilled staff members for operation and maintenance of academic infrastructure, equipment and facilities.
- ✓ There is an Annual maintenance contracts (AMC) with companies for equipment and accessories available in laboratories, classrooms and seminar hall etc.
- ✓ The Building maintenance (internal & exterior) and Gardens are done by the assigned construction contractor through instruction of the periodic review of authorized architecture in consultation with experts from School of Civil Engineering of the University.
- ✓ Regular review by the competent authority.

The officer and staff deployment for maintenance repair and services are given below

Sl. No	Items	Officers concerned for development, maintenance and repair
1.	Land, building and furniture	Estate and Establishment Officer, Development Officer, Addl. Development Officer, Support Staff
2.	Electrical Maintenance	Development Officer, Chief Maintenance Electrical Engineer, Support Staff
3.	AC maintenance	Development Officer, Head AC Maintenance and Support Staff
4.	Transportation	Transport Manager, Support Staff

5.	Computer	Head ICT Cell, System Engineers and Technical Support Staff
6.	Laboratory Equipment	HOD, Faculty-in-charge, Store & purchase Officer, Administrator and Technical Support Staff
7.	Other Resource Management	Resource Management Officer and Support Staff

6.3 Safety measures in laboratories (10)

It describe how students in the program are provided appropriate guidance regarding the use of the tools, equipment, computing resources, and laboratories. Following steps are taken to guide the student to use tools, equipment, computing resources, and laboratories.

- 1. Proper orientations are arranged at Labs to adopt safety practices. The necessary aprons, gloves, glasses and safety manuals are issued to the students.
- 2. Proper instruction is given to students regarding safety majors before commencement of clam.
- 3. Use of safety devices and dresses has been made mandatory.
- 4. Equipment and accessories such as pro-pipettes are used to handle the chemicals and avoid accident.
- 5. The students are usually informed about the safety norms during their induction program in to the university.
- 6. The laboratories are also provided with first aid box for any emergency.
- 7. Further additional support is extended to the critical cases and is handled in the 2500 bedded super specialty hospital of the Medical College of the university.

Sr. No.	Name of the Laboratory	Safety measures
1.	Structural Engineering Lab	 Steel toed shoe Safety Goggles Face Shield Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap,Gum boot Reflective safety jacket Safety Goggles (Black) Safety Helmet (White) Asbestos Gloves

2.	Concrete and Material Testing Lab	 Steel toed shoe Safety Goggles Face Shield Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap Gum boot Reflective safety jacket Safety Goggles (Black) Safety Helmet (White) Asbestos Gloves
3.	Geotechnical Engineering Lab	 Steel toed shoe Safety Goggles Face Shield Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap Gum boot Reflective safety jacket Safety Goggles (Black) Safety Helmet (White) Asbestos Gloves
4.	Hydraulic and Water resource Engineering Lab	1. Steel toed shoe 2. Safety Goggles 3. Face Shield 4. Rubber Gloves 5. Cotton Gloves 6. Welding Apron 7. Cotton Apron 8. Dust Proof Mask 9. Surgical Cap 10. Gum boot 11. Safety Goggles (Black) 12. Asbestos Gloves

5.	Transportation Engineering lab	 Steel toed shoe Safety Goggles Face Shield,Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap Gum boot Reflective safety jacket Safety Goggles (Black) Safety Helmet (White) Asbestos Gloves
6.	Survey/Geomatics lab	 Steel toed shoe Safety Goggles Face Shield Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap Gum boot Reflective safety jacket Safety Goggles (Black) Umbrella Safety Helmet (White) Asbestos Gloves
7.	Environmental Engineering lab	 Steel toed shoe Safety Goggles Face Shield Rubber Gloves Cotton Gloves Welding Apron Cotton Apron Dust Proof Mask Surgical Cap Gum boot Reflective safety jacket Safety Goggles (Black) Safety Helmet (White) Asbestos Gloves

6.3. Project laboratory (20)

Facilities and utilization:

The primary purpose of the project laboratory in civil engineering department is to provide the space and resource needed by students to complete

their main project and minor projects work. The laboratory also serves as meeting location for group of students working on team projects.

Most of the students are utilized this project laboratory to work on supplemental learning projects to enhance their understanding of class and lab assignment.

This project laboratory is utilized by third year fifth and six semester and fourth year seven and eight semester students and research persons.

Sr.no N	Name of facility	Name of equipment/software	Purpose	Faculty Lab	Qualification
	Engineering Lab	1. Beam Testing 2. Machine,Bench Grinder 3.Buoyancy Balance 4.Compression testing machine 5.Concrete pan Mixture 6.Crane 7.Drilling machine 8.Hot Air Oven 9.Humidity Chamber 10.Hydraulic Jack (Capacity: 200 kN) 11.Muffle Furnace 12.Needle Vibrator 13.Plate vibrator 15.Rebound Hammer 16.Tile abrasion Testing M/C 17.Table Vibrator	UG ,PG & PhD RESEARCH	incharge Dr.Kirti Kanta Sahoo	PhD.

2.	Concrete and Material Testing Lab	1.Compression testing Machine(Digital) 2.Flextural Testing 3.Machine(Motorized) 4.Sieve Shaker 5.Accelerated Curing Tank 6.Humidity Chamber 7.Concrete Permeability 8.Mortar Vibrator 9.Table Mould Vibrator	UG ,PG & PhD RESEARCH	Professor Ispita Mohanty	M.tech
3.	Geotechnical Engineering Lab	10.Concrete cutter Machine 1.Andresson pipette stand 2.Consolidation test 3.CBR test apparatus 4.Cone penetrometer 5Direct shear test m/c with digital indicator 6.Mechanical sieve Permeability apparatus 7.Relative density apparatus 8Triaxial testing machine 9.Unconfined compression shear test apparatus 10.Vane shear testing machine	UG ,PG & PhD RESEARCH	Dr.Bandita Paikray	PhD
4.	Hydraulic and Water resource Engineering Lab	1. Bernoulli's Theorem Apparatus 2Friction Loss Apparatus 4.Kaplan Turbine 5.Metacentric Height	UG ,PG & PhD RESEARCH	Dr paromita Chakroberty	PhD.

		Apparatus			
		6.Orifice-meter and			
		Venturimeter Apparatus			
		7.Pelton Wheel Turbine			
		8.Pitot Tube Apparatus			
		9.Pressure Plate Apparatus			
		10.Reynolds Apparatus			
		11.Rectangular & Triangular Notch Apparatus			
5.	Transportation Engineering lab	1.Abrasion Testing Machine	UG ,PG & PhD RESEARCH	Dr Amit Kumar Das	PhD.
		2.Ductility Testing Machine			
		3.Bitumen Extractor			
		4.Road Profile Graph			
		5.C.B.R Testing Machine			
		6.Impact Testing Machine			
		7.Say Bolt Viscometer			
		8.Penetrometer			
		9.Ring And Ball Apparatus			
		10.Buoyancy Balance			
		11.Bitumen Extractor			
		13.Marshal Stability Apparatus			
6.	Survey/Geomatics	1.Total Station	UG ,PG & PhD RESEARCH	Prof Satya Ranjan Samal	M.tech
	lab	2.G.P.S Handset	RESEARCH	Samai	
		3.Transite Theodolite			
		4.Auto Level and staff			
		5.Prismatic Compass			
		6.Metric Chain (30 m and 20			
		7.Measuring Tape (30 m)			
7.	Environmental Engineering lab	1.BOD Incubator	UG ,PG & PhD RESEARCH	Dr Kundan Samal	PhD.

		2.Burette Stand			
		3.Jar Test Apparatus			
		(DIGITAL)			
		4.Turbidity Meter			
		5.Sound Level Meter			
		6.High Volume Air Sampler			
		7.Weighing Balance			
		(accuracy: 0.0001 g)			
		8.Hot Air Oven			
		9.Water Bath 10 Chamber			
		10.BOD Incubator Shaker			
		11.Sonicator-Rectangular			
		chamber, Capacity - 5 L			
		12.Water Purification System			
		13.Digital Photo Fluorometer			
		14.Stream Sterilizer(Auto			
		Clave)			
8.	Auto Desk KIIT-BIM Lab	3D CAD design and modeling for basic engineering	UG ,PG & PhD RESEARCH	Prof. Sunny Jaiswal	M.tech
		2Micro Station Power Draft			
		and Micro Station			
		3Building information modeling for architecture/planning			
		4AECOsim Building Designer, AECOsim Energy Simulator, Bentley Navigator and Bentley Connections Passport			
		5.3D Imaging, Point Clouds and Mapping for GIS engineering			

6.Bentley Descartes, Bentley Map Enterprise and Bentley Point tools 7Bentley MXROAD V8i Suite and Bentley Power Civil for Country 8.Offshore for advance Structural Engineering 9.Bentley Maxsurf Enterprise, SACS Marine Enterprise and SACS Offshore Structure Enterprise.		
Foundation Advanced, STAAD Global Design Code, Bentley Power Rebar and RAM Concept.		
11. Resource Management Engineering Sewer GEMS, WaterGEMS, StormCAD, Civil Storm and Hammer. 12. PLAXIS 2D and 3D.		
13 Arc-GIS		
14 Erdas Imagine, Geomedia and Photogrammatory.		
15. Erdas Imagine, Geomediaand Photogrammatory.16. Mat lab		

CRITERION 7	Continuous Improvement	75
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7.1. Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

Identify the areas of weaknesses in the program based on the analysis of evaluation of COs, POs & PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc.

Actions to be written as per table in 3.3.2

approaches/solutions to these problems.

Examples of analysis and proposed action Sample 1-Course outcomes for a laboratory course did not measure up, as some of the lab equipment did not have the capability to do the needful (e.g., single trace oscilloscopes available where dual trace would have been better, or, non-availability of some important support software etc.). Action taken-Equipment up-gradation was carried out (with details of up-gradation)

Sample 2-In a course on EM theory student performance has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed that this could be attributed to a weaker course on vector calculus.

Action taken-revision of the course syllabus was carried out (instructor/text book changed too has been changed, when deemed appropriate).

Sample 3-In a course that had group projects it was determined that the expectations from this course about PO3 (like: "to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations") were not realized as there were no discussions about these aspects while planning and execution of the project. Action taken- Project planning, monitoring and evaluation included in rubrics related to these aspects.

POs & PSOs Attainment Levels and Actions for improvement - CAYm1 only

POs	Target Level	Attainment Level	Observations				
PO1: Engineering knowledge: Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.							
PO1 2.50 2.74 Target attained							
Additional c		ed improve the mathema	give more challenging questions on Engineering concepts. atical fundamental basics.				
PO2: Problem analysis: Ability to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.							
PO2	2.50	2.75	Target attained				
comprehensi	ve problem analysis i	at the same time more nu related to Science and Eng e questions which are so					

Students are motivated to observe their homes and surroundings to gain insight into real-life engineering problems and think of possible

processes th			a solutions for complex engineering problems and design system components or econsideration for the public health and safety, and the cultural, societal, and
PO3	2.50	2.75	Target attained
Students wil	l be inspired to criti		ent level especially in case of Design. fe engineering problems surrounding them and think of possible approaches/solutions hips, and conferences.
			lity to use research-based knowledge and research methods including design of nthesis of the information to provide valid conclusions.
PO4	2.50	2.8	Target attained
Action 1:			
			ory infrastructure comprising state-of-the-art equipment. rious on-site laboratories.
			pply appropriate techniques, resources, and modern engineering and IT tools including es with an understanding of the limitations.
PO5	2.50	2.83	Target attained
Computation	nal labs are strength		nodern tools like AUTOCAD, REVIT, BENTLEY SOFTWARE BUNDLE, etc. ting-edge software and modern tools like ANSYS, FEAST, PLAXIS 3D, GIS, to fulfill industrial era.
			ing informed by the contextual knowledge to assess societal, health, safety, legal and ant to the professional engineering practice.
PO6	2.50	2.80	Target attained
_	neering theory as wo	ell as laboratory courses	s directly or indirectly enable students to build sustainable engineering systems and
			stand the impact of the professional engineering solutions in societal and environmental or sustainable development.
PO7	2.50	2.77	Target attained
applications To increase	for being environm the awareness abou	entally friendly.	directly or indirectly sensitize students to be develop engineering solutions and inability from the basic level, Environmental Science and Yoga and Human ech. program.
PO8: Ethics	: Ability to apply etl	hical principles and com	unit to professional ethics and responsibilities and norms of the engineering practice.

PO8	2.50	2.79	Target attained					
Action 1:								
more ethical	for the entire envir	onment, stakeholder	icate as well as explicitly exposed to various scenario to be test their judgmental skills to be s and most importantly the society at large. ged periodically to address professional ethics and responsibilities.					
PO9 : Individual and team: Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.								
PO9	2.50	2.82	Target attained					

Action 1: The assignment, Quiz in theory courses and group wise experiments are conducted in laboratory sessions to expose students to different working scenarios and deliver their best as an individual or a team member of a group.

6th semester onwards, students are divided into groups for performing projects.

receive clea	r instructions.	_	
PO10	2.50	2.80	Target attained
Seminar, Gr	1	riment sessions in lab	ation, Business Communications, CAT-I and II some exercises like Presentation in class, boratory are the curricular components which help students to become a effective communicator, head.
			demonstrate knowledge and understanding of the engineering and management principles and leader in a team, to manage projects and in multidisciplinary environments.
PO11	2.50	2.80	Target attained
Project, Pro	ect preparation & Pro	oject expose students	management, resource planning and forming strategy in construction management. The Minor to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange.
Results shov Project, Pro	ect preparation & Pro	oject expose students	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long
Results show Project, Project, Project, Project, Project, Project, Project, Project Pr	ect preparation & Pro e-long learning: Abili the broadest context	ity to recognize the r	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange.
PO12: Life learning in PO12 Action 1: Students are	e-long learning: Abilithe broadest context 2.50	ity to recognize the resort of technological characteristics and the second sec	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange.
PO12: Life learning in PO12 Action 1: Students are Alumni and	e-long learning: Abilithe broadest context 2.50	ty to recognize the restriction of technological characteristics and the second	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange. Target attained d syllabus problems and assignments.
PO12 : Life learning in PO12 Action 1: Students are Alumni and	e-long learning: Abilithe broadest context 2.50 given various challer guest lectures are con	ity to recognize the restriction of technological characteristics of technological characteristics are supported by the restriction of technological characteristics are supported by the restriction of th	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange. Target attained d syllabus problems and assignments.
PO12 : Life learning in PO12 Action 1: Students are Alumni and	e-long learning: Abilithe broadest context 2.50 given various challer guest lectures are conformation is to be pr	ity to recognize the restriction of technological characteristics of technological characteristics are supported by the restriction of technological characteristics are supported by the restriction of th	to enhance their skills of Project Management & Finance planning. need for, and have the preparation and ability to engage in independent and life-long ange. Target attained d syllabus problems and assignments.

PSO2 2	2.50	2.78	Target level attained
Actions taken			
Attainment leve	el is a positive score).	
Students will be	e able to design sust	tainable design systems f	or environmental projects related to water and waste water management etc.
Students were s	sent to industrial vis	its and encouraged to par	rticipate in workshops and seminars.
Laboratories w	ere made available	to students in off hours al	so.
PSO3: Sustain	nable water resourc	ces strategy	
PSO3 2	2.50	2.80	Target level attained
PSO3 2	2.50	2.80	Target level attained

Table B.7.1

7.2. Academic Audit and actions taken thereof during the period of Assessment (15)

Handbook, and academic audit report, compliance report (P Saha Sir)

Students were imparted in-house training on various software like STAAD Pro. and REVIT.

(Academic Audit system/process and its implementation in relation to Continuous Improvement)

Academic Audit is conducted by school every year to accomplish the following objectives.

- To promote self reflection among units / schools being audited.
- To promote self improvement measures among units / schools being audited.
- To conduct quality checks on different activities undertaken by units/ schools to meet expected outcomes.
- To promote adoption of best practices.

The scope of the academic audit is as follows.

- All Schools of University: The schools are expected to have developed a strong outcome based approach in teaching-learning.
 The audit team will assess the activities involved in developing learning outcomes, design and development activities in curriculum, teaching-learning process, student learning assessment process and student engagement programs. The audit team will also assess the quality and quantity of research outcomes during last three years. The audit team will also assess the quality of resources and general ambience from perspective of meeting the learning outcome.
- Examination Section: The audit team will assess the process of conduct and document archrival in the examination section.
- Student Support Centre: The audit team will assess the process of conduct, document archival and promotion of student support
 activities and services.

The Academic audit team will comprise of members who are usually nominated by Dean of School or Competent authority of the University. Secondly, the members must be of equivalent rank of Associate Professor or above.

The Audit process shall proceed as follows.

- Each School / unit will prepare a self-study report.
- The Audit team will visit and conduct onsite evaluation through check of documents and interaction with stakeholders.
- The audit report will be prepared citing commendation, affirmation and recommendation for each school/unit.
- The report will be shared.

Action Taken Report of School of Civil Engineering

Action Taken Report on the basis of Recommendations suggested in

Academic Audit 2019-2020

Sl. No	Recommendations	Action Taken by the School
1	Teaching and learning activities are excellent.	In the last semesters Faculty Members have supplemented the
	Tutorial sessions should be	teaching through certain videos and virtual lab of Ministry
	supplemented by videos.	of Education. In the Spring semester also, the course

		instructors are advised to use relevant videos/animations during the course delivery of all the theory courses and practical classes.
2	Laboratory procedures should be made available to the students well in advance	 In the last semester, procedures to undertake experiments were provided in advance for all laboratory experiments (Laboratory Experiment Manual) For the Spring semester 2020, the same procedure is going to be repeated as last semester. Already the process has started and video recording of the class will start in the 1st week of December 2020.
3	Conduct of examinations, evaluations and students feed-back redressals are excellent. However, increase the number of take-home examinations for the higher semester students.	Students are provided with sufficient number of activities during the semester. Besides, problem solving in the class is also adopted. However, the personnel involved in the academic management of the School will further deliberate and explore how to increase such activities in the coming semester.
		Minimum 6 numbers of activities are conducted to test the different learning abilities (like Critical Thinking, Problem Solving, Creation, Interactivity Focus and Reflection) of the .student.
4	Laboratory facilities are very good. More equipments are required to be added for good quality EXPERIMENTAL RESEARCH.	Purchasing process is under progress for the advance equipments for the School laboratories as well as Central Research Laboratory. This is temporarily delayed due to COVID19. However, during COVID19 lockdown period also high end research based equipment was setup in certain laboratories of the School.
		Following equipment are added for good quality experimental research: 1. Servo Hydraulic Dynamic Testing System (TE, GE & SE) 2. CHN analyser (EE) 3. Ion Chromatography (EE, SE & CEM) 4. Resonant column device, Large diameter cyclic tri-axial and Dynamic simple shear (under process, GE)
5	A little more strengthening is needed on the computational aspects of the research currently being undertaken by the school.	The proposal on the computation aspect of different specialisations are being prepared and will be executed in the coming semester.
	School.	FEAST software purchased. More high end software purchasing are under process
6	School should act proactively to strengthen the sponsored research projects as well as the socially relevant projects.	 Already the School R&D Committee has finalized modalities, steps, procedures to prepare at least 8 (eight) number of research project proposals by Febryuary 2021. An elaborate process has already been finalized and it will be communicated to the relevant Faculty Members of different specializations in the 1st week of December.
		 Interdisciplinary Project proposals will be prepared and submitted to the funding agencies. Project proposals will be prepared in collaboration will other
		reputed institutions. • Project proposal writing workshops will be conducted to encourage and guide young faculty members.
		• 16 Projects have been submitted to SERB, DST in 2020-2
7.	A concerted effort is needed to improve the quality and quantity of the research publications.	 Peer reviewed journal papers written from the M. Tech. and Ph. D. thesis to be increased. International conferences are organized by the School for increasing the quantity of publication.
		Paper writing workshops will be conducted for guiding the young

		faculty members and students.
		Details of quality publication in the academic year 2020-21. 1. Journal:25 2. Book Chapter: 60 Publication By 1. Research Scholar:18 2. Master's Student:29 3. B. Tech Students:12
8.	The more FDP's in the advanced topics of civil engineering field are to be conducted on a regular basis.	Plan and programs will be prepared for conducting the FDPs on advanced topics in the coming academic session. 2 numbers of FDP conducted, another ATAL FDP is already approved. Details are 1.FDP on Statistical analysis and Computer Aided Design organized by KIIT DU 2. FDP on Finite Element Analysis of Structures (FEAST) organized by KIIT DU 3. ATAL FDP on Recent Advances in Forensic Analysis in Civil Engineering, 27th September - 1st October, 2021. organized by KIIT DU
9.	A proper mechanism should be at place to confirm the know-how attained by the B. Tech. and M. Tech. students with regard to project evaluations.	B. Tech. Evaluation process Students choose their own area of research work and after that guides are allocated as per the research area. Mid Semester Examination - 15 marks- Guide and 15 marks- Panel End Semester Examination - 35 marks- Guide and 35 marks- Panel M. Tech. Evaluation process Guides are allocated to the students as per their preference. Mid Semester Examination - 15 marks- Guide and 15 marks- Panel End Semester Examination - 35 marks- Guide and 35 marks- Panel External examiners conduct the thesis examination in the presence of Faculty members before the submission of final dissertation.
10.	With regard to research scholars, a rigorous vivavoce examination should be conducted and ensure that a complete understanding of the boundaries of the current knowledge in the chosen field is attained.	Rigorous viva voce examinations conducted as per the University Guidelines (Regulations) for the research scholars. The School conducts monthly review through presentation and viva voce for the Research Scholars getting University Fellowship. For other Research Scholars, mid-semester and end-semester presentation and viva voce is conducted.
11	More MOU's with IIT's and other international universities are needed. This can be taken up in a phased manner.	It will be explored in the coming years.

7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

• Placement: number, quality placement, core industry, pay packages etc.

Year	Percentage of Students	Average Package	Maximum Package	Major	core	industry
	placed				recruiters	
CAY	80	5.00	12.0	Jindal	Steel, Ta	ta Power,
					HCC,	Shapoorji
					Pallonji d	& Co. Ltd.,
					ITC	
CAYm1	75	5.05	12.5	Autodes	k (civil),	Shapoorji

					Pallonji & Co. Ltd., Road Safety Department, Govt. of Odisha
CAYm2	81	4.75	10	Maia	Estate, Nagarjuna
					Construction
					Corporation,
					Shapoorji Pallonji
					& Co. Ltd.

• Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions

Year	Number of Students in higher studies
CAY	25
CAYm1	19
CAYm2	45

7.4. Improvement in the quality of students admitted to the program (20)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

Item		CAY(2022 -2023)	CAYm1(2021- 2022)	CAYm2(20 20-2021)
National Level Entrance	No. of Students admitted	-	5	5
Examination (Name of the	Opening Score/Rank	-	113844	28176
Entrance Examination)	Closing Score/Rank	-	659164	524682
State/Institute/Level Entrance	No. of Students admitted	178	175	175
Examination/Others (Name of the Entrance	Opening Score/Rank	678	519	811
Examination)	Closing Score/Rank	26540	25637	27430
Name of the Entrance Examination for	No. of Students admitted	18	18	18
Lateral Entry or lateral entry details	Opening Score/Rank	30	24	8
	Closing Score/Rank	680	704	738
Average CBSE/Any other Board Result of adr & Mathematics)	mitted students (Physics, Chemistry			

CRITERION 8	First Year Academics	50	
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8.1 First Year Student-Faculty Ratio (FYSFR)(5)

First Year Faculty Profile considering load

Name of		Oualificat	Date of Receivi	Area of	Designati	Date of	Т	eaching load	1(%)	Currently	Nature Of	Date Of leaving(In case
the faculty member	PAN No.	ion	ng Highest Degree	Specializati on	on	joining	CAY	CAYm1	CAYm2	Associated(Yes/No)	Association(Re gular/Contract)	Currently Associated is 'No')
Mrutyunjay Das	AGXPD217 5J	M.Sc. and PhD	21/03/20 14	Computation al Fluid Dynamics	Associate Professor	10/07/1999	50	50	75	Yes	Regular	
Narmada Behera	AOOPB996 8G	M.Sc. and PhD	19/05/20 08	Applied Functional Analysis and Optimization	Assistant Professor	22/07/2013	75	75	75	Yes	Regular	
Rajashree Mishra	AKQPM550 4R	M.Sc. and PhD	29/11/20 14	Optimization Technique	Associate Professor	01/07/2006	75	75	75	Yes	Regular	
UtkalKesha ri Dutta	BPJPD2233 M	M.Sc. and PhD	31/12/20 21	Number Theory	Assistant Professor	27/07/2021	75	75	0	Yes	Regular	
SATYA KUMAR MISHRA	AHCPM537 4Q	M.Sc. and PhD	06/11/20 14	Reliabilty	Associate Professor	10/10/1995	75	75	75	Yes	Regular	
Jashashree Ray	AWMPR64 99N	M.Sc. and PhD	27/07/20 15	Experimental Condensed Matter Physics	Assistant Professor	25/01/2020	80	80	80	Yes	Regular	
SuvasisNay ak	AZIPN6060 A	M.Sc. and PhD	04/12/20 20	Optimization Techniques	Assistant Professor	20/06/2018	80	80	80	Yes	Regular	
LalatenduB iswal	AFXPB664 0K	M.Sc. and PhD	22/07/20 14	Experimental Condensed Matter Physics	Assistant Professor	29/07/2010	86	86	88	Yes	Regular	
Ranjan Kumar Nayak	AQJPN1118 M	M.Sc. and PhD	13/11/20 17	Machine Learning	Assistant Professor	02/07/2018	70	70	70	Yes	Regular	

	ı	1	1	ı	ı	l :						
Jyoti Prakash Maity	CKYPM212 7A	M.Sc. and PhD	22/11/20 06	Environment al Science	Professor	02/08/2021	100	100	0	Yes	Regular	
S. Praharaj	BFIPP3118 L	ME/M. Tech and PhD	11/11/20 17	Material Science	Associate Professor	03/08/2009	82	82	82	Yes	Regular	
B. P. Padhy	ARPPP2365 K	M.Sc. and PhD	13/09/20 11	Summability Theory	Assistant Professor	01/08/2015	67	67	50	Yes	Regular	
Sapan Kumar Samal	ALFPS0789 L	M.Sc. and PhD	28/02/19 93	Theoretical Seismology	Professor	15/04/2009	40	40	40	Yes	Regular	
Maya Devi	ATOPD575 2D	M.Sc. and PhD	18/03/20 17	Condensed Matter Physics	Assistant Professor	15/07/2008	80	80	80	Yes	Regular	
Tapas Ranjan Sahoo	CTPPS4937 N	M.Sc. and PhD	06/01/20 11	Materials Chemistry	Associate Professor	14/09/2011	86	86	88	Yes	Regular	
Saumya Ranjan Jena	AFMPJ7622 L	M.Sc. and PhD	12/04/20 12	Numerical Integration	Associate Professor	22/10/2013	70	70	70	Yes	Regular	
Manas Ranjan Mohapatra	BMCPM287 2F	M.Sc. and PhD	04/11/20 17	Geometric Function Theory	Assistant Professor	27/07/2021	29	29	0	Yes	Regular	
Madhusmit aSahoo	BQSPS8790 N	M.Sc. and PhD	24/02/20 14	Operator Theory	Associate Professor	26/07/2010	44	44	43	Yes	Regular	
Rakesh Mohan Das	BCUPD051 8B	M.Sc. and PhD	25/03/20 19	Quantum Optics	Assistant Professor	17/01/2022	73	73	0	Yes	Regular	
SutanuMan gal	BMEPM016 20	M.Sc. and PhD	12/09/20 12	Semiconduct or Physics and Devices	Assistant Professor	05/09/2011	80	80	80	Yes	Regular	
Gopal K Pradhan	AYKPP071 8N	M.Sc. and PhD	30/09/20 10	Experimental Condensed Matter Physics	Assistant Professor	06/07/2018	80	80	80	Yes	Regular	
ShuvenduSi ngha	CGSPY403 4C	M.Sc. and PhD	09/05/20 16	Protein purification Biophysical Study of Protein	Associate Professor	07/08/2017	76	76	76	Yes	Regular	
Madhusuda n Bera	BREPB3984 N	M.Sc. and PhD	12/06/20 19	Complex Analysis	Assistant Professor	08/07/2019	48	48	69	Yes	Regular	
Biranchi Kumar Mahala	AKCPM957 2H	M.Sc. and PhD	30/01/20 16	Weather Research and Forecasting	Assistant Professor	01/08/2015	85	85	75	Yes	Regular	

MitaliMadh umita Acharya	CHRPS2627 P	M.Sc. and PhD	26/12/20 11	Numerical Functional Analysis and Operations Research	Assistant Professor	10/07/2011	85	85	75	Yes	Regular	
Srikumar Acharya	APIPA5483 R	M.Sc. and PhD	06/06/20 11	Operations Research	Associate Professor	05/01/2011	85	85	75	Yes	Regular	
Nikita Mahapatra	BGEPM409 5A	M.Sc. and PhD	27/07/20 16	Regenerative medicine	Assistant Professor	12/07/2018	100	100	100	Yes	Regular	
RAJIB MIA	BXFPM619 4Q	M.Sc. and PhD	10/08/20 17	Celestial Mechanics	Assistant Professor	24/08/2017	31	31	77	Yes	Regular	
BhavyaBhu shan	AULPB787 0L	M.Sc. and PhD	20/12/20	Experimental Condensed Matter Physics and Nanotechnolo gy	Associate Professor	08/10/2012	100	100	100	Yes	Regular	
Prakash Kumar Sahu	FDZPS9689 J	M.Sc. and PhD	21/01/20 17	Numerical Analysis	Assistant Professor	13/12/2016	75	75	75	Yes	Regular	
Joydeb Pal	CCDPP8635 B	M.Sc. and PhD	04/03/20 20	Algebraic Coding Theory	Assistant Professor	24/06/2019	85	85	85	Yes	Regular	
B. B. Mishra	AKEPM394 5J	M.Sc. and PhD	05/03/20 03	Delay Differential Equation	Professor	10/10/1995	60	60	60	Yes	Regular	
Dibyaranja n Rout	BGMPR239 0M	M.Sc. and PhD	28/07/20 06	Materials Science	Associate Professor	15/07/2011	100	100	100	Yes	Regular	
Sudipta K. Ghosh	BRZPG228 0D	M.Sc. and PhD	01/09/20 22	Functional AnalysisOper ator Theory	Assistant Professor	30/07/2021	73	73	0	Yes	Regular	
Dr. Sanjoy Kumar Maji	BQAPM576 5K	M.Sc. and PhD	25/07/20 08	Environment al Chemistry	Assistant Professor	01/12/2014	90	90	90	Yes	Regular	
Prasanta Kumar Das	AMRPD532 9G	M.A and Ph.D	16/12/20 06	Nonlinear Functional Analysis	Assistant Professor	30/07/2011	50	50	50	Yes	Regular	
RojalinSah u	DFZPS4684 K	M.Sc. and PhD	25/05/20 12	Inorganic Chemistry	Associate Professor	10/08/2011	90	90	90	Yes	Regular	
Jatin K Sinha	EAPPS5142 L	M.Sc. and PhD	05/03/20 08	Electrochemi stry	Associate Professor	08/02/2018	87	87	82	Yes	Regular	
JasaswiniTr ipathy	AHEPT630 6P	M.Sc. and PhD	12/08/20 08	Ring Theory	Associate Professor	02/07/2013	88	88	87	Yes	Regular	

Anirudha Jena	APJPJ4032 K	M.Sc. and	03/12/20	Inorganic Chemistry	Assistant Professor	10/06/2022	0	0	0	Yes	Regular	
ARUN KUMAR GUPTA	ATBPG724 5D	M.Sc. and PhD	21/01/20 17	Numerical Analysis	Assistant Professor	13/12/2016	16	16	48	Yes	Regular	
Bibhu Prasad Sahoo	CADPS156 2E	M.Sc. and PhD	11/05/20 13	Polymer Nanocomposi tes	Associate Professor	18/02/2013	90	90	90	Yes	Regular	
Supriya Roy	BUWPR030 5L	M.Sc. and PhD	19/12/20 13	Computation al Physics	Assistant Professor	12/12/2014	80	80	0	Yes	Regular	
Bijan Kumar Patel	DMOPP695 9L	M.Sc. and PhD	31/10/20 18	Number Theory	Assistant Professor	01/08/2019	49	49	64	Yes	Regular	
Anita Pati	BTVPP7664 J	M.Sc. and PhD	30/08/20 10	Organic Chemistry	Associate Professor	18/11/2013	90	90	90	Yes	Regular	
AmulyaRat na Swain	BHNPS638 3K	ME/M. Tech and PhD	25/07/20 13	Wireless sensor network	Associate Professor	01/02/2013	20	20	20	Yes	Regular	
Krishna Chakravart y	AESPC1901 J	MS	27/05/20 20	Software Engineering	Assistant Professor	19/06/2017	40	40	40	Yes	Regular	
KunalAnan d	APLPA4667 H	M.E/M.Tec h	15/12/20 14	Software Engineering	Assistant Professor	01/06/2018	40	40	40	Yes	Regular	
Rajdeep Chatterjee	AJTPC5965 C	ME/M. Tech and PhD	21/11/20 20	Brain Computer Interface	Associate Professor	18/06/2012	40	40	40	Yes	Regular	
Satyaranjan Dash	AFTPD9526 Q	ME/M. Tech and PhD	20/01/20 15	Natural Language Processing	Associate Professor	29/07/2004	20	20	20	Yes	Regular	
SantwanaS agnika	DFTPS8524 C	M.E/M.Tec h	26/05/20 14	Artificial Intelligence	Assistant Professor	10/07/2014	40	40	40	Yes	Regular	
Saurabh Bilgaiyan	BBWPB839 8G	ME/M. Tech and PhD	10/11/20 18	Software Engineering	Assistant Professor	01/07/2015	40	40	40	Yes	Regular	
BinduAgar walla	AVIPA0815 G	M.E/M.Tec h	15/06/20 10	Computer Architecture	Assistant Professor	13/09/2010	20	20	20	Yes	Regular	
Chinmaya Misra	AWVPM95 36C	ME/M. Tech and PhD	08/11/20 14	Cloud Computing	Associate Professor	21/07/2008	20	20	20	Yes	Regular	
Amiya Kumar Dash	AUKPD221 4M	M.E/M.Tec h	15/06/20 15	Machine Learning	Assistant Professor	18/08/2015	40	40	40	Yes	Regular	
Banchhanid hi Dash	ATEPD018 4B	ME/M. Tech and PhD	05/10/20 17	Machine Learning	Assistant Professor	22/07/2019	20	20	20	Yes	Regular	

Bibhuti Bhusan Dash	AHWPD858 1A	M.E/M.Tec h	05/06/20 09	Wireless Sensor Network	Assistant Professor	11/12/2003	40	40	40	Yes	Regular	
Kamakhya Narain Singh	BYGPS564 5J	M.E/M.Tec h	10/02/20 15	Software Engineering	Assistant Professor	01/04/2013	40	40	40	Yes	Regular	
Kumar Devadutta	AHSPD151 4D	M.E/M.Tec h	22/06/20 06	Software Engineering	Assistant Professor	01/09/2006	40	40	40	Yes	Regular	
Manas Kumar Rath	ALKPR640 7R	M.E/M.Tec h	12/06/20 10	Machine Learning	Assistant Professor	06/08/2007	40	40	40	Yes	Regular	
ParthaSarat hiPattnayak	AVYPP706 1K	ME/M. Tech and PhD	27/08/20 18	Machine Learning	Assistant Professor	20/06/2011	40	40	40	Yes	Regular	
PrachiVijay eeta	AFIPV1002 N	M.E/M.Tec h	27/05/20 22	Software Engineering	Assistant Professor	05/02/2007	40	40	40	Yes	Regular	
SadhnaSud ershana	BVFPS9528 E	ME/M. Tech and PhD	28/06/20 22	ОВ	Assistant Professor	07/02/2012	40	40	40	Yes	Regular	
Shaswati Patra	CPPPP1118 E	M.E/M.Tec h	30/05/20 14	Software Engineering	Assistant Professor	18/08/2015	40	40	40	Yes	Regular	
Sudhanshu Shekhar Patra	AGBPP708 1P	ME/M. Tech and PhD	12/03/20 13	Cloud Computing	Professor	26/07/2004	40	40	40	Yes	Regular	
Utpal Chandra De	AHIPD9448 A	M.E/M.Tec h	12/05/20 09	Artificial Intelligence	Assistant Professor	07/09/2009	40	40	40	Yes	Regular	
Pradeep Kandula	CPAPK338 6Q	M.E/M.Tec h	01/06/20 12	Wireless Sensor Network	Assistant Professor	16/06/2016	40	40	40	Yes	Regular	
Deepanjali Mishra	ARCPM725 8B	M.A and Ph.D	14/06/20 15	Culture Studies Linguistics and Feminism	Associate Professor	06/09/2012	90	90	90	Yes	Regular	
ArpitaGos wami	BEBPG477 8R	M.A and Ph.D	11/07/20 22	Applied linguistics sociolinguisti cs and folklore	Assistant Professor	01/06/2019	90	90	90	Yes	Regular	
KhushbooK uddus	BVXPK871 4J	M.A and Ph.D	16/07/20 16	ELT and Linguistics	Assistant Professor	01/12/2016	90	90	90	Yes	Regular	
Seema K. Ladsaria	AIRPL3777 A	M.A and Ph.D	14/01/20 17	Semiotics	Associate Professor	19/06/2017	90	90	90	Yes	Regular	

S. D. Chaudhuri	ARCPD070 5E	M.A and Ph.D	04/09/20	Speculative Fiction Mythology Translation Studies and Hindustani Classical Music	Assistant Professor	17/07/2017	90	90	90	Yes	Regular	
Pallavi Kiran	BIQPK1154 G	M.A and Ph.D	24/08/20 20	Indian English Literature Poetry Studies and Translation Studies	Assistant Professor	02/01/2018	90	90	90	Yes	Regular	
Abhilas Swain	BOAPS045 2P	ME/M. Tech and PhD	27/04/20 18	Thermal Engineering	Assistant Professor	20/06/2017	20	20	20	Yes	Regular	
Achinta Sarkar	JPUPS6847 P	ME/M. Tech and PhD	18/07/20 19	Thermal Engineering	Assistant Professor	17/06/2019	20	20	20	Yes	Regular	
Ajay Kumar Behera	ASJPB1318 F	ME/M. Tech and PhD	12/06/20 12	Design Engineering	Assistant Professor	16/07/2012	20	20	20	Yes	Regular	
Akhilesh Kumar Tiwari	AMSPT390 8L	M.E/M.Tec h	12/07/20 17	CAD or CAM	Assistant Professor	05/07/2021	30	30	20	Yes	Regular	
Ambesh Kumar	BOMPK694 7R	ME/M. Tech and PhD	08/06/20 18	Design Engineering	Assistant Professor	01/12/2017	20	20	20	Yes	Regular	
Amlana Panda	AURPP801 4G	ME/M. Tech and PhD	27/12/20 16	Production Engineering	Assistant Professor	23/01/2017	20	20	20	Yes	Regular	
Anil Kumar Rout	BOMPR294 8F	ME/M. Tech and PhD	24/12/20 13	Thermal Engineering	Assistant Professor	24/07/2013	20	20	0	Yes	Regular	
Anish Pandey	BOKPP297 2M	ME/M. Tech and PhD	20/07/20 16	Design Engineering	Assistant Professor	27/06/2017	20	20	0	Yes	Regular	
Ashwani Kumar	CUWPK968 4C	ME/M. Tech and PhD	03/10/20 19	Mechatronics Engineering	Assistant Professor	24/06/2019	0	0	20	Yes	Regular	
AsitBehera	BZRPB5674 G	M.E/M.Tec h	15/06/20 18	Production Engineering	Assistant Professor	20/06/2019	30	30	20	Yes	Regular	
Barun Sharma	FEUPS8452 F	M.E/M.Tec h	12/06/20 17	Design Engineering	Assistant Professor	14/07/2017	20	20	20	Yes	Regular	

Basanta Kumar Rana	ARGPR547 7B	ME/M. Tech and PhD	05/03/20 18	Thermal Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
BijayaBijet aNayak	AHLPN258 5R	ME/M. Tech and PhD	19/03/20 16	Production Engineering	Assistant Professor	04/07/2016	20	20	20	Yes	Regular	
Chinmaya Mishra	BFUPM697 0B	ME/M. Tech and PhD	13/11/20 21	Thermal Engineering	Assistant Professor	18/06/2014	20	20	0	Yes	Regular	
DebjyotiSa hu	BXSPS2113 N	ME/M. Tech and PhD	08/06/20 15	Automobile Engineering	Assistant Professor	09/07/2018	20	20	20	Yes	Regular	
Deepak Singhal	DDXPS044 4B	ME/M. Tech and PhD	22/10/20 19	Industrial Engineering	Assistant Professor	14/07/2010	20	20	20	Yes	Regular	
GyanSagar Sinha	BYIPS9274 F	ME/M. Tech and PhD	21/11/20 17	Thermal Engineering	Assistant Professor	27/06/2018	20	20	20	Yes	Regular	
Hemalata Jena	ALKPJ1715 E	ME/M. Tech and PhD	05/10/20 15	Production Engineering	Assistant Professor	24/11/2014	20	20	30	Yes	Regular	
Jitendra Ku. Patel	DXLPP0353 Q	ME/M. Tech and PhD	20/06/20 18	Thermal Engineering	Assistant Professor	03/07/2017	20	20	20	Yes	Regular	
Kamal Kishore Joshi	AIUPJ2438 F	ME/M. Tech and PhD	23/05/20 13	Design Engineering	Assistant Professor	19/07/2013	20	20	30	Yes	Regular	
Madhumita Mohanty	BZDPM148 5N	M.E/M.Tec h	08/11/20 16	Design Engineering	Assistant Professor	20/06/2016	40	40	20	Yes	Regular	
ManojUka manal	ABLPU557 3C	ME/M. Tech and PhD	04/11/20 19	Thermal Engineering	Assistant Professor	08/12/2015	20	20	0	Yes	Regular	
Mantra Prasad Satpathy	CEPPS0669 E	ME/M. Tech and PhD	05/04/20 17	Production Engineering	Assistant Professor	27/06/2017	0	0	20	Yes	Regular	
Matruprasa d Rout	APQPR755 9N	ME/M. Tech and PhD	12/10/20 18	Thermal Engineering	Assistant Professor	20/07/2018	20	20	0	Yes	Regular	
Md. Ehtesham Hasan	AERPH077 9N	ME/M. Tech and PhD	02/12/20 16	Design Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
NilotpalaBe j	APLPB9497 E	ME/M. Tech and PhD	30/03/20 16	Thermal Engineering	Assistant Professor	18/06/2018	20	20	20	Yes	Regular	
Pintu Kumar	BVDPK749 7J	ME/M. Tech and	02/11/20 20	Production Engineering	Assistant Professor	02/08/2019	20	20	20	Yes	Regular	

		PhD										
Pooja Chaubdar	AYXPC855 5F	M.E/M.Tec h	18/06/20 18	Aero Propulsion	Assistant Professor	25/06/2018	0	0	0	Yes	Regular	
Prakash Ghosh	ASMPG928 4C	ME/M. Tech and PhD	07/07/20 06	Thermal Engineering	Assistant Professor	15/07/2008	20	20	20	Yes	Regular	
Prakash Kumar Sahu	GKNPS501 9E	ME/M. Tech and PhD	23/06/20 17	Production Engineering	Assistant Professor	03/07/2017	0	0	0	Yes	Regular	
Priyabrata Mohapatra	AVEPM970 5D	ME/M. Tech and PhD	15/11/20 13	Industrial Engineering	Assistant Professor	01/08/2013	20	20	20	Yes	Regular	
PruthwirajS ahu	CHPPS4565 L	ME/M. Tech and PhD	14/08/20 21	Design Engineering	Assistant Professor	19/06/2014	20	20	20	Yes	Regular	
PushkarJha	AKHPJ9914 D	ME/M. Tech and PhD	05/10/20 17	Design Engineering	Assistant Professor	24/07/2017	30	30	50	Yes	Regular	
Rahul	ANKPR757 5A	ME/M. Tech and PhD	19/09/20 17	Production Engineering	Assistant Professor	19/06/2017	0	0	20	Yes	Regular	
Rajiv LochanMo hanty	BGSPM461 9J	ME/M. Tech and PhD	15/05/20 13	Thermal Engineering	Assistant Professor	24/06/2019	20	20	30	Yes	Regular	
Ram Kumar Kesharwani	BTZPK6083 Q	ME/M. Tech and PhD	07/08/20 17	Production Engineering	Assistant Professor	30/06/2017	0	0	0	Yes	Regular	
Ramanuj Kumar	BPHPK429 7J	ME/M. Tech and PhD	05/11/20 18	Production Engineering	Assistant Professor	02/07/2012	0	0	20	Yes	Regular	
Ranjan Kumar Behera	AUIPB9432 H	ME/M. Tech and PhD	28/02/20 22	Design Engineering	Assistant Professor	07/07/2014	0	0	20	Yes	Regular	
Rasmi Ranjan Behera	AXWPB843 2C	ME/M. Tech and PhD	10/06/20 19	Production Engineering	Assistant Professor	26/06/2019	20	20	20	Yes	Regular	
Rishitosh Ranjan	AXHPR459 5H	ME/M. Tech and PhD	01/05/20 13	Thermal Engineering	Assistant Professor	01/07/2013	20	20	0	Yes	Regular	
Rita KumariSah u	BQLPS2362 D	ME/M. Tech and PhD	11/01/20 20	Production Engineering	Assistant Professor	13/08/2012	20	20	20	Yes	Regular	
Sambit Kumar Mohapatra	AVRPM079 7J	ME/M. Tech and PhD	27/07/20 17	Production Engineering	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	

SamiranSa manta	DUKPS252 4E	ME/M. Tech and PhD	04/03/20 18	Thermal Engineering	Assistant Professor	24/07/2017	20	20	0	Yes	Regular	
Santosh Kumar Hotta	AEWPH064 1E	ME/M. Tech and PhD	01/07/20	Thermal Engineering	Assistant Professor	06/08/2019	20	20	20	Yes	Regular	
SasmitaSah u	CZQPS9557 K	ME/M. Tech and PhD	20/12/20 16	Design Engineering	Assistant Professor	03/02/2017	0	0	0	Yes	Regular	
Shanta Chakrabart y	AMKPC561 7M	ME/M. Tech and PhD	24/02/20 16	Material Science and Engineering	Assistant Professor	31/07/2018	20	20	20	Yes	Regular	
Shivaraman	ARDPT035 3P	ME/M. Tech and PhD	13/07/20 17	Production Engineering	Assistant Professor	20/07/2017	20	20	20	Yes	Regular	
Siba Prasad Behera	BUOPB507 1M	M.E/M.Tec h	15/07/20 15	Thermal Engineering	Assistant Professor	07/07/2017	20	20	40	Yes	Regular	
Smaranika Nayak	AFNPN802 5J	ME/M. Tech and PhD	20/06/20 22	Design Engineering	Assistant Professor	06/07/2015	20	20	20	Yes	Regular	
Smita Rani Panda	CPJPP0372 N	M.E/M.Tec h	24/12/20 12	Production Engineering	Assistant Professor	01/07/2019	40	40	40	Yes	Regular	
Smitirupa Pradhan	ASXPP3835 H	ME/M. Tech and PhD	05/12/20 18	Design Engineering	Assistant Professor	02/01/2019	20	20	20	Yes	Regular	
SpandanGu ha	AYIPG7424 Q	ME/M. Tech and PhD	28/11/20 18	Production Engineering	Assistant Professor	20/07/2018	20	20	20	Yes	Regular	
SrikantPani grahi	AKZPP8785 A	M.E/M.Tec h	20/10/20 15	Avionics	Assistant Professor	29/01/2020	40	40	0	Yes	Regular	
SudhansuS ekharPatro	BNDPP343 3P	M.E/M.Tec h	30/08/20 14	Design Engineering	Assistant Professor	30/06/2015	20	20	20	Yes	Regular	
Surendra Ku. Ghadei	AMRPG598 2C	ME/M. Tech and PhD	03/07/20 19	Thermal Engineering	Assistant Professor	18/07/2012	20	20	0	Yes	Regular	
Swarup Kumar Nayak	APGPN841 8Q	ME/M. Tech and PhD	10/09/20 19	Thermal Engineering	Assistant Professor	24/11/2014	20	20	20	Yes	Regular	
SwayamBi kash Mishra	BDTPM441 7J	ME/M. Tech and PhD	05/10/20 16	Production Engineering	Assistant Professor	05/12/2016	20	20	20	Yes	Regular	
Tarak Kumar Sahoo	BKRPS4392 H	ME/M. Tech and PhD	07/08/20 10	Thermal Engineering	Assistant Professor	24/11/2014	20	20	20	Yes	Regular	

UsharaniRa th	BIWPR9015 B	ME/M. Tech and PhD	15/10/20 21	Production Engineering	Assistant Professor	01/07/2013	20	20	20	Yes	Regular	
Vijay Kumar Mishra	ARXPM633 5L	ME/M. Tech and PhD	08/02/20 17	Thermal Engineering	Assistant Professor	20/06/2016	20	20	20	Yes	Regular	
Atal Bihari Harichanda n	AGDPH104 6E	ME/M. Tech and PhD	23/08/20 10	Aerodynamic s	Associate Professor	18/06/2018	20	20	20	Yes	Regular	
B. Surekha	AJGPB8519 E	ME/M. Tech and PhD	09/06/20 15	Production Engineering	Associate Professor	03/01/2014	20	20	20	Yes	Regular	
DiptiKanta Das	ANBPD069 0H	ME/M. Tech and PhD	04/11/20 15	Production Engineering	Associate Professor	25/07/2011	20	20	20	Yes	Regular	
IshamPanig rahi	AHYPP564 6A	ME/M. Tech and PhD	04/10/20 14	Design Engineering	Associate Professor	04/04/2006	0	0	20	Yes	Regular	
Mohd. Sadique Khan	AJAPK2614 H	ME/M. Tech and PhD	12/10/20 18	Industrial Engineering	Associate Professor	02/12/2013	20	20	20	Yes	Regular	
Nitin Sharma	DEWPS952 9P	ME/M. Tech and PhD	16/10/20 18	Design Engineering	Associate Professor	02/07/2010	0	0	20	Yes	Regular	
RadhaKant a Sarangi	ADUPS756 5H	ME/M. Tech and PhD	11/06/20 16	Thermal Engineering	Associate Professor	02/08/2017	20	20	20	Yes	Regular	
Ruby Mishra	ALDPM521 5B	ME/M. Tech and PhD	19/10/19 77	Design Engineering	Associate Professor	20/10/2010	0	0	0	Yes	Regular	
Santosh Ku. Nayak	AEAPN486 9G	ME/M. Tech and PhD	31/10/20 16	Thermal Engineering	Associate Professor	10/04/2010	20	20	20	Yes	Regular	
Satya Prakash Kar	AMOPK279 5E	ME/M. Tech and PhD	12/09/20 15	Thermal Engineering	Associate Professor	26/06/2007	20	20	20	Yes	Regular	
Suchismita Satapathy	CEJPS2747 M	ME/M. Tech and PhD	09/07/20 14	Industrial Engineering	Associate Professor	04/02/2013	20	20	20	Yes	Regular	
Sudesna Roy	ABYPR082 1P	ME/M. Tech and PhD	27/08/20 09	Material Science and Engineering	Associate Professor	24/08/2015	20	20	20	Yes	Regular	
SumantaCh oudhuri	AFBPC6436 J	ME/M. Tech and PhD	27/08/20 19	Thermal Engineering	Associate Professor	13/07/2012	20	20	20	Yes	Regular	

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Akshaya Ku. Rout	AHYPR117 9C	ME/M. Tech and PhD	11/07/20 11	Thermal Engineering	Professor	05/08/2010	20	20	0	Yes	Regular	
Ashok Ku. Sahoo	ALRPS2041 P	ME/M. Tech and PhD	03/11/20 10	Production Engineering	Professor	15/11/1997	0	0	0	Yes	Regular	
Basant Ku. Nanda	ABSPN119 4M	ME/M. Tech and PhD	07/07/20 06	Production Engineering	Professor	31/03/2007	20	20	20	Yes	Regular	
Bharat Ch. Routara	ABYPR088 5M	ME/M. Tech and PhD	24/12/20 08	Production Engineering	Professor	18/03/2009	0	0	0	Yes	Regular	
Kunja Bihari Sahu	AHZPS1481 M	ME/M. Tech and PhD	29/07/20 09	Thermal Engineering	Professor	15/09/2010	0	0	0	Yes	Regular	
Lalit Kumar Pothal	AEIPP0201J	ME/M. Tech and PhD	09/11/20 19	Industrial Engineering	Professor	31/01/2014	0	0	20	Yes	Regular	
Mrutyunjay Jena	ADQPJ1555 L	ME/M. Tech and PhD	30/01/19 97	Aero Propulsion	Professor	01/10/2015	20	20	20	Yes	Regular	
P.ChandraS ekhar	ALDPP8328 C	ME/M. Tech and PhD	13/10/20 06	Design Engineering	Professor	18/10/2001	0	0	0	Yes	Regular	
Purna Ch. Mishra	AXIPM996 7H	ME/M. Tech and PhD	24/12/20 11	Thermal Engineering	Professor	01/07/2009	0	0	0	Yes	Regular	
Saranjit Singh	AOMPS890 4F	ME/M. Tech and PhD	04/09/20 07	Production Engineering	Professor	15/05/2009	0	0	0	Yes	Regular	
Sushant Ku. Tripathy	ABDPT500 2B	ME/M. Tech and PhD	22/08/20 11	Industrial Engineering	Professor	16/07/2012	0	0	20	Yes	Regular	
TanmoyMa hanty	AHAPM980 6F	ME/M. Tech and PhD	19/07/20 12	Production Engineering	Professor	04/03/1999	0	0	0	Yes	Regular	
AparupaPa ni	BFIPP3393 B	ME/M. Tech and PhD	09/07/20 19	Geotech Engineering	Assistant Professor	02/08/2010	20	20	20	Yes	Regular	
Asish Kumar Pani	AUAPP223 6R	ME/M. Tech and PhD	02/09/20 21	Structural Engineering	Associate Professor	17/04/2007	20	20	20	Yes	Regular	
BanditaPai karay	APVPP9756 L	ME/M. Tech and PhD	09/11/20 19	Geotech Engineering	Associate Professor	31/07/2008	20	20	20	Yes	Regular	

Amit Kumar Das	AUHPD923 5D	ME/M. Tech and PhD	07/03/20 22	Transportatio n Engineering	Assistant Professor	03/12/2018	20	20	20	Yes	Regular	
Bhagyashre e Panda	BKEPP7201 F	M.E/M.Tec h	18/01/20 14	Transportatio n Engineering	Assistant Professor	06/07/2013	0	0	20	Yes	Regular	
Brundaban Beriha	BELPB0104 G	ME/M. Tech and PhD	20/10/20 20	Transportatio n Engineering	Assistant Professor	27/06/2019	30	30	20	Yes	Regular	
Dipti Ranjan Biswal	ANWPB665 2Q	ME/M. Tech and PhD	18/05/20 18	Transportatio n Engineering	Associate Professor	18/06/2018	20	20	20	Yes	Regular	
DudamBha rath Kumar	BCMPB132 2F	ME/M. Tech and PhD	07/08/20 17	Environment al Engineering	Assistant Professor	01/07/2017	20	20	20	Yes	Regular	
Gaurav Udgata	AEZPU339 7R	M.E/M.Tec h	31/05/20 16	Structural Engineering	Assistant Professor	23/06/2016	20	20	20	Yes	Regular	
IpsitaMoha nty	AVCPM074 2J	M.E/M.Tec h	05/02/20 16	Structural Engineering	Assistant Professor	23/06/2017	20	20	20	Yes	Regular	
Ipsita Panda	CWSPP915 0L	M.E/M.Tec h	16/01/20 16	Geotech Engineering	Assistant Professor	04/07/2017	20	20	20	Yes	Regular	
KalpanaSah oo	ESMPS2701 A	M.E/M.Tec h	07/03/20 22	Transportatio n Engineering	Assistant Professor	27/06/2017	20	20	20	Yes	Regular	
KirtikantaS ahoo	DELPS8005 F	ME/M. Tech and PhD	07/01/20 17	Structural Engineering	Assistant Professor	18/06/2012	20	20	20	Yes	Regular	
KshyanaPra vaSamal	BNNPK659 7B	ME/M. Tech and PhD	14/11/20 09	Water Resources Engineering	Associate Professor	17/06/2016	20	20	20	Yes	Regular	
KundanSa mal	DQDPS788 8L	ME/M. Tech and PhD	10/01/20 20	Environment al Engineering	Assistant Professor	02/07/2018	20	20	20	Yes	Regular	
Madhulisha Pattanaik	BHZPP4836 J	ME/M. Tech and PhD	04/06/20 19	Transportatio n Engineering	Assistant Professor	19/07/2019	20	20	0	Yes	Regular	
Malaya Mohanty	BRUPM475 6R	ME/M. Tech and PhD	20/03/20 20	Transportatio n Engineering	Assistant Professor	02/07/2018	20	20	20	Yes	Regular	
Mohibullah	AYAPM251 5J	M.E/M.Tec h	30/06/20 12	Construction Management	Assistant Professor	09/01/2017	30	30	20	Yes	Regular	
Paromita Chakrabort y	AJHPC1855 F	ME/M. Tech and PhD	30/10/20 10	Water Resources Engineering	Assistant Professor	13/07/2012	20	20	20	Yes	Regular	

Prateeksha Mahamallik	BJWPM484 3D	ME/M. Tech and PhD	27/07/20 13	Environment al Engineering	Assistant Professor	31/07/2017	20	20	20	Yes	Regular	
Preetynand a Nanda	AMRPN087 6E	M.E/M.Tec h	09/06/20 14	Geotech Engineering	Assistant Professor	23/07/2014	20	20	20	Yes	Regular	
Rachita Panda	BSUPP6733 J	M.E/M.Tec h	08/11/20 16	Transportatio n Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
Rana Chattaraj	AIPPC4084 P	ME/M. Tech and PhD	27/02/20 17	Geotech Engineering	Assistant Professor	03/01/2017	20	20	20	Yes	Regular	
Sananda Sarkar	BZWPS884 3P	M.E/M.Tec h	02/02/20 15	Environment al Engineering	Assistant Professor	16/06/2016	20	20	20	Yes	Regular	
Satya Ranjan Samal	EEHPS2603 E	M.E/M.Tec h	15/07/20 14	Transportatio n Engineering	Assistant Professor	23/07/2014	20	20	20	Yes	Regular	
Satyajeet Nanda	ADYPN674 4M	ME/M. Tech and PhD	11/03/20 13	Geotech Engineering	Associate Professor	20/02/2017	20	20	0	Yes	Regular	
Sunny Jaiswal	EANPS0722 L	M.E/M.Tec h	22/07/20 17	Structural Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
SushreeSan gita Panda	ANOPP689 7K	M.E/M.Tec h	24/07/20 15	Structural Engineering	Assistant Professor	19/06/2017	0	0	20	Yes	Regular	
Chinmoy Kumar Panigrahi	AIJPP7246 G	ME/M. Tech and PhD	11/07/20 03	Power System	Professor	30/04/2009	30	30	30	Yes	Regular	
Sarat Chandra Swain	AYAPS586 2N	ME/M. Tech and PhD	24/10/20 10	Power System	Professor	11/01/1996	30	30	30	Yes	Regular	
Babita Panda	APWPP571 1J	ME/M. Tech and PhD	14/03/20 17	Power Electronics and Drives	Associate Professor	16/08/2012	30	30	30	Yes	Regular	
Chitralekha Jena	ADXPJ5640 B	ME/M. Tech and PhD	01/07/20 17	Power and Energy System	Associate Professor	01/12/2012	30	30	30	Yes	Regular	
Lipika Nanda	AHEPN246 9D	ME/M. Tech and PhD	09/11/20 19	Power Electronics and Drives	Associate Professor	19/06/2007	30	30	30	Yes	Regular	
Pampa Sinha	BZHPS5476 F	ME/M. Tech and PhD	10/04/20 17	Power System	Associate Professor	20/06/2016	30	30	30	Yes	Regular	
Pradeep Kumar Sahu	AZIPS4641 N	ME/M. Tech and PhD	16/11/20 16	Power Electronics	Associate Professor	23/06/2017	30	30	30	Yes	Regular	

Rudra Narayan Dash	AMGPD903 5Q	ME/M. Tech and PhD	05/11/20 18	Electrical Machines	Associate Professor	21/07/2011	30	30	30	Yes	Regular	
Satyaranjan Jena	AHYPJ6801 B	ME/M. Tech and PhD	09/11/20 16	Power control and Drives	Associate Professor	18/06/2012	30	30	30	Yes	Regular	
Sriparna Roy Ghatak	AQMPG319 3J	ME/M. Tech and PhD	02/11/20 18	Power System Engineering	Associate Professor	09/04/2007	30	30	30	Yes	Regular	
SubhraDeb das	AHLPD700 2M	ME/M. Tech and PhD	13/08/20 18	Power System Engineering	Associate Professor	06/10/2019	30	30	30	Yes	Regular	
AlivaraniM ohapatra	AUPPM310 5M	ME/M. Tech and PhD	12/06/20 18	Energy system	Associate Professor	20/07/2009	30	30	30	Yes	Regular	
Anil Kumar Behera	BSJPB7951 D	M.E/M.Tec h	22/04/20 17	Power Electronics and Drives	Assistant Professor	31/07/2017	30	30	30	Yes	Regular	
Ankit Kumar Soni	CQAPS865 4L	M.E/M.Tec h	06/07/20 17	Power and Energy System	Assistant Professor	21/06/2017	30	30	30	Yes	Regular	
Deepak Kumar Gupta	BJAPG1813 K	ME/M. Tech and PhD	24/02/20 18	Power System Engineering	Assistant Professor	07/11/2017	30	30	30	Yes	Regular	
K.V.V.S.R Chowdary	BITPK4849 P	ME/M. Tech and PhD	06/05/20 14	Power Electronics and Drives	Assistant Professor	21/07/2011	30	30	30	Yes	Regular	
Padarbinda Samal	BOZPS5346 M	ME/M. Tech and PhD	20/01/20 18	Power System Engineering	Assistant Professor	23/06/2017	30	30	30	Yes	Regular	
Ranjeeta Patel	BHHPP013 9E	ME/M. Tech and PhD	31/05/20 17	Power Electronics and Drives	Assistant Professor	12/03/2018	30	30	30	Yes	Regular	
SatyabrataS ahoo	BYEPS1070 D	ME/M. Tech and PhD	26/06/20 12	Control and protection of Electrical Apparatus	Assistant Professor	26/06/2012	30	30	30	Yes	Regular	
Swagat Das	BDJPD3185 N	MS	16/05/20 16	Power Electronics Device Reliability	Assistant Professor	21/08/2017	30	30	30	Yes	Regular	
TapaswiniB iswal	BFWPB749 1C	M.E/M.Tec h	20/05/20 16	Power System Engineering	Assistant Professor	03/09/2016	30	30	30	Yes	Regular	
Subodh Kumar Mohanty	AWLPM34 05E	M.E/M.Tec h	22/05/20 13	Power System Engineering	Assistant Professor	24/11/2014	30	30	30	Yes	Regular	

		ME/M.										
Shubhashre eKundu	AWAPK422 6G	Tech and PhD	16/03/20 16	Automation and Robotics	Assistant Professor	04/01/2016	30	30	30	Yes	Regular	
Samita Rani Pani	BQFPP1220 H	M.E/M.Tec h	04/06/20 14	Power System Engineering	Assistant Professor	17/06/2014	30	30	30	Yes	Regular	
KRUSHNA GOPAL MISHRA	AJWPM348 3A	M.Sc. and PhD	12/09/19 88	Electrochemi stry	Professor	22/07/2003	40	40	40	Yes	Regular	
Alok Ranjan Patnaik	DVGPP676 1M	M.Sc. and PhD	11/01/19 87	Astronomy	Professor	02/12/2019	40	40	40	Yes	Regular	
Samaresh Jana	AOFPJ8123 G	M.Sc. and PhD	24/12/20 07	Organic chemistry	Associate Professor	19/02/2013	100	100	100	Yes	Regular	
Chandana Mohanty	AEMPM355 1J	M.Sc. and PhD	09/11/20 01	Nanotechnolo gy Drug delivery and Tissue engineering	Assistant Professor	09/07/2018	100	100	100	Yes	Regular	
Pratap Kumar Deheri	DOWPD648 1R	M.Sc. and PhD	09/11/20 12	Material Science	Assistant Professor	23/07/2018	85	85	85	Yes	Regular	
Sushant Kumar Sahoo	BJLPS9986 A	M.Sc. and PhD	03/09/20 14	Condensed matter theory	Associate Professor	17/07/2008	67	67	67	Yes	Regular	
PrasantaRat h	AMRPD532 9G	M.Sc. and PhD	11/05/20 04	Environment al geochemistry	Professor	01/12/1999	40	40	40	Yes	Regular	
Biswabandi taKar	AHGPK103 9C	M.Sc. and PhD	04/04/20	Chemical metallurgy and environmenta l chemistry	Professor	03/01/2005	40	40	40	Yes	Regular	
Priyadarshi niParida	AVZPP1627 Q	M.Sc. and PhD	26/01/20 16	Computation al Condensed matter Physics	Assistant Professor	01/01/2019	80	80	80	Yes	Regular	
A K Paul	ALDPP5523 H	M.Sc. and PhD	20/11/20 12	Numerical Analysis	Assistant Professor	15/07/2014	70	70	70	Yes	Regular	
Debasis Sharma	IRBPS4942 F	M.Sc. and PhD	09/11/20 21	Numerical Analysis	Assistant Professor	26/07/2021	46	46	0	Yes	Regular	
Tapan Kumar Bastia	AHFPB436 6A	M.Sc. and PhD	08/05/19 93	composite materials	Associate Professor	03/08/2009	60	60	60	Yes	Regular	
PuspalataPa ttojoshi	AGQPP776 4A	M.Sc. and PhD	07/01/19 87	Physics	Professor	20/06/2014	30	30	30	Yes	Regular	

Subhadarsh anSahoo	DPNPS8597 K	M.Sc. and PhD	19/01/20 19	Differential equation	Assistant Professor	17/10/2017	70	70	70	Yes	Regular	
Jagnyaseni Tripathy	AQTPT868 6J	M.Sc. and PhD	06/05/20	Biophysics	Assistant Professor	10/01/2012	87	87	87	Yes	Regular	
Bidhubhusa nSahu	EJPPS3096J	M.Sc. and PhD	30/03/20 11	Nuclear Physics	Associate Professor	04/08/2012	75	75	75	Yes	Regular	
Akshaya Kumar Panda	AMMPP292 9H	M.Sc. and PhD	17/03/20 17	Number Theory	Assistant Professor	05/01/2017	78	78	78	Yes	Regular	
Manoranjan Sahoo	CCXPS0915 H	M.Sc. and PhD	28/05/20 11	Fractal and OR	Assistant Professor	14/03/2011	50	50	50	Yes	Regular	
KajalParash ar	AXKPP108 9R	M.Sc. and PhD	05/09/20 04	Nano materials	Associate Professor	10/08/2009	60	60	60	Yes	Regular	
Laxmipriya Nayak	ASGPN030 0G	M.A and Ph.D	25/05/20 15	Fourier Analysis	Assistant Professor	03/09/2012	80	80	80	Yes	Regular	
MitaliRouta ray	BPBPR3224 Q	M.Sc. and PhD	20/01/20 18	Topology	Assistant Professor	07/01/2017	62	62	77	Yes	Regular	
Sarbari Acharya	ANIPA9387 K	M.Sc. and PhD	17/07/20 17	Nanotechnolo gy and cancer drug delivery	Assistant Professor	07/09/2018	100	100	100	Yes	Regular	
Sohini Sarkar	CSFPS8703 P	M.Sc. and PhD	29/11/20 13	Inorganic Chemistry	Assistant Professor	20/07/2016	84	84	88	Yes	Regular	
Sushma Singh	EDRPS9100 P	M.Sc. and PhD	27/11/20 19	Ring Theory	Assistant Professor	17/06/2019	88	88	88	Yes	Regular	
DibakarBeh era	ARFPB2801 G	ME/M. Tech and PhD	04/07/20 09	Materials Science	Associate Professor	25/07/2008	100	100	100	Yes	Regular	
Ch. Vinod	AVEPC896 7B	M.Sc. and PhD	01/10/20 16	Chronobiolog y and Neurochemist ry	Assistant Professor	17/07/2018	100	100	100	Yes	Regular	
Debdulal Panda	AIFPP5844 E	M.Sc. and PhD	10/07/20 10	Operations research	Associate Professor	10/01/2012	25	25	50	Yes	Regular	
R N MUKHARJ EE	AFUPM677 0J	M.Sc. and PhD	02/02/19 96	Experimental Nuclear Physics	Associate Professor	02/12/2013	90	100	100	Yes	Regular	
Prasanta Kumar Mohanty	AHAPM275 2L	ME/M. Tech and PhD	21/11/20 14	Numerical Analysis	Assistant Professor	20/02/2011	25	25	50	Yes	Regular	
Pramod Kumar Das	ACEPD254 6G	M.A and Ph.D	11/10/19 89	Combinatoric s and Graph Theory and Fuzzy Logic	Professor	27/07/2016	50	50	50	Yes	Regular	

ManasMuk ul	AJPPM8535 N	ME/M. Tech and PhD	01/11/20	Software Engineering	Professor	07/08/2010	20	20	20	Yes	Regular	
Sudhansu Dubey	CLTPD7631 L	M.E/M.Tec h	28/06/20 17	Machine Design	Associate Professor	07/10/2021	20	20	20	Yes	Regular	
Rabindra Kumar Barik	BMPPB735 7F	MCA and PhD	07/09/20 14	Database Engineering	Assistant Professor	18/06/2012	20	20	20	Yes	Regular	
Jagori Dutta	APFPD3424 F	ME/M. Tech and PhD	22/06/20 16	Geotech Engineering	Assistant Professor	27/06/2016	0	0	20	No	Regular	10.08.2021
Shiv Shankar Kumar	HLXPK768 7A	ME/M. Tech and PhD	25/06/20 18	Geotech Engineering	Assistant Professor	30/07/2018	0	0	0	No	Regular	15.02.2020
Subrat Kumar Barik	AKHPB873 2B	ME/M. Tech and PhD	15/06/20 16	Power and Energy System	Associate Professor	01/02/2011	30	30	30	No	Regular	
Sanjaya Kumar Panda	AXEPP1772 D	M.A and Ph.D	01/09/20 17	Yoga and Spiritualism	Assistant Professor	01/09/2017	100	100	100	Yes	Regular	
Kriti Raj	BEMPR775 2B	MA	24/05/20 19	Yoga and Spiritualism	Assistant Professor	21/01/2020	90	100	100	Yes	Regular	
RituparnaK ar	DZCPK392 9J	MA	12/08/20 17	Yoga	Assistant Professor	20/11/2017	90	100	100	Yes	Regular	
Sashikanta Khuntia	BJLPK3305 H	MA	23/02/20 15	Yoga and Spiritualism	Assistant Professor	27/11/2017	90	100	100	Yes	Regular	
Swapnamo yeePalit	AUEPP8658 H	M.A and Ph.D	01/12/20 16	Econometrics and mathematical economics	Assistant Professor	10/10/2017	90	90	90	Yes	Regular	
Chetna Sinha	BVAPS415 3G	MBA &Ph.D	15/12/20 14	ELT and Linguistics	Assistant Professor	07/03/2022	90	90	0	Yes	Regular	
Sahel MdDelabul Hossain	ADTPH206 1G	M.A and Ph.D	09/10/20 18	Postcolonial Studies and Film Studies and Race Relation and Gender Studies and Migration and Diaspora and ELT	Assistant Professor	02/01/2022	90	90	0	Yes	Regular	
SourabhRaj wade	BSFPR8215 Q	M.E/M.Tec h	15/11/20 17	CAD or CAM	Assistant Professor	07/04/2021	60	60	60	Yes	Regular	

KalyaniMo hanta	AHAPM960 1Q	ME/M. Tech and PhD	15/09/20 07	Material Science and Engineering	Professor	18/06/2021	30	30	20	Yes	Regular	
Amulya Kumar Mahto	DFRPM100 0K	ME/M. Tech and PhD	04/01/20 21	Statistical Inferences	Assistant Professor	26/07/2021	60	60	0	Yes	Regular	
Ajay Kumar Mishra	BBPPM083 7E	M.Sc. and PhD	24/02/20 07	Nanotechnolo gy	Professor	21/06/2021	88	88	88	Yes	Regular	
Chandan Kumar Mohapatra	AVZPM724 2A	MA	01/05/20 20	Yoga and Spiritualism	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
AparajitaSa hoo	BYVPS735 6H	MA	01/05/20 20	Yoga and Spiritualism	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
Pradyumna Kumar Behera	BZRPB1667 H	MA	01/05/20 20	Yoga	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
ARATRIK AGANGU LY	BFEPG7204 N	M.Phil	24/12/20 18	Comparative Literature	Assistant Professor	01/02/2022	90	90	0	Yes	Regular	
SHRADDH A DHAL	AXLPD983 0H	M.A and Ph.D	30/01/20 20	Postcolonial Literature and Diaspora Studies	Assistant Professor	23/07/2018	60	60	90	Yes	Regular	
Manoranjan Sahoo	EQGPS0576 B	M.A and Ph.D	16/04/20 18	International Trade and Applied Econometrics	Assistant Professor	08/01/2018	60	60	90	Yes	Regular	
Dhyanadipt a Panda	ARLPP4507 H	MBA &Ph.D	10/03/20 22	Human Resource Management	Assistant Professor	01/02/2011	90	90	90	Yes	Regular	
Arijit Patra	FZVPP7498 Q	M.Sc. and PhD	03/12/20 20	Reliability Theory	Assistant Professor	03/08/2022	60	0	0	Yes	Regular	

Data for first year courses to calculate the FYSFR:

Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5×20) / FYSFR (Limited to Max. 5)
2022-2023 (CAY)	1500	108	13.9	5
2021-2022) CAYm1	1620	108	15	5
(2020-2021) CAYm2	1620	102	15.9	5
Average	1580	106	14.9	5

TableB.8.1.

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5x + 3y)/RF, x= Number of Regular Faculty with Ph.D., y= Number of Regular Faculty with Post-graduate qualification RF= Number of faculty members required as per SFRof20:1,Faculty definition asdefinedin5.1

Year	x (No of Regular Faculty with PhD)	y (No of Regular Faculty with Post Graduate Qualification)	RF (No of Faculty Members required as per SFR 20:1)	Assessment of Faculty Qualification [(5x+3y)/RF]
CAY	195	48	81	14
CAYm1	194	48	81	13
CAYm2	185	43	81	13

TableB.8.2

8.3 First Year Academic Performance(10)

Academic Performance = ((Mean of 1^{st} Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	8.67	8.74	8.62
Total Number of successful students(Y)	180	180	180

^{*}Note:If FYSFR is greater than 25, then assessment equal to zero.

Total Number of students appeared in the examination(Z)	180	180	180
API[X*(Y/Z)]	8.67	8.74	8.62

Assessment= Average API: 8.68

8.4 Attainment of Course Outcomes of first year courses(10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done(5)

(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams assignments, presentations, tutorial sheets etc.)

The performance of student in each semester is assessed for a maximum of 100 marks for theory, practical and sessional/project components. These different categories of courses have different assessment schemes as discussed in the table below

Course category:

Theory courses (assessed out of 100 marks)

Assessment Methods:

• Continuous assessment of 30 marks:

- Assessment is done through student's performance in different assignments/tests/tasks/learning activities given by the course faculty-member. The tasks are designed to address all the course outcomes almost uniformly. These tasks are given at different times in the semester.
- Mid semester examination/assessment of 20 marks (questions corresponding to attainment of different COs):
 - Assessment is done through student's performance in the mid-semester examination which is conducted once in a semester which is currently of one hour duration. As the name implies, this examination is conducted in the middle of the semester.
 - o Frequency: once in a semester.
 - Questions are set to assess the attainments of certain course outcomes defined for the course, through the students' marks or scores.

• End semester examination/assessment of 50 marks (questions correspond to attainment of different COs):

- Assessment is done through student's performance in the end-semester examination which is conducted at the end of every semester. This examination is currently of two hours duration.
- o Frequency: once in a semester.
- Questions are set to assess the attainments of course outcomes defined for the course through the students' marks or scores.

Practical courses (assessed out of 100 marks)

• Continuous assessment of 60 marks

 Assessment is done through student performance in day to day laboratory activities where the student's involvement, conduct of the experiment, recording of observations and analysis/ design outputs,

- documentation of results and observations, clarity of concept is taken into account by the designated laboratory faculty member.
- All the laboratory tasks are designed to assess the attainments of different course outcomes defined for the course through students' marks or scores.

• End semester examination/ assessment of 40 marks

- Assessment is done through conduct of a given experiments tasks, viva, etc. This is normally conducted at the end of the semester and is normally of three hour duration.
- o Frequency: once in a semester.
- The tasks, questionnaires are mapped to course outcomes and the students' marks or score is used to compute the attainment.

Sessional courses (assessed out of 100 marks)

Continuous assessment of 100 marks:

- Assessment is done through student's performance in different assignments/tests/tasks/learning activities given by the course faculty-member. The tasks are designed to address all the course outcomes almost uniformly.
- o Frequency: Assessed throughout the semester.
- Different tasks are mapped to different outcomes and the students' marks or score in that category is used to compute the attainment

Every course has a defined set of course outcome statements which describes the abilities a student will develop after successfully completing the course. The assessment methods are used to evaluate the attainment of the course outcomes on a scale of 0-3 lead to the direct attainment of program outcomes. The attainments of course outcomes are measured from marks obtained by the students in different examinations, course related assessments (different assessment and examination questions are framed to test the attainment of different course outcomes for a course).

Class average is the average percentage of marks secured by all the students in a assessment component in a specific CO

Targets are quantized into three different levels (Level 1, Level 2 and Level 3) based on Class average in each CO as per the rubrics given below.

	Threshold Levels for CO Attainment							
Level	0	0	<	Class Average in each CO <	Threshold 1			
Level	1	Threshold 1	<	Class Average in each CO <	Threshold 2			
Level	2	Threshold 2	<	Class Average in each CO <	Threshold 3			
Level	3	Threshold 3	<u> </u>	Class Average in each CO <	100			

Thresholds 1, 2, and 3 are normally set at 25%, 50% and 75% respectively. However, if the course coordinator and course committee involved in ascertaining the attainment levels can raise the thresholds if required.

Data Acquisition Process:

- All the questions of mid semester and end semesters are mapped with course outcomes during the preparation of question paper.
- All the activities/assignments/quiz/ experiments are mapped with course outcomes by the course coordinator.
- Exam papers are assessed and marks of obtained by all the students are saved in ediquity software which is shared with the course coordinator for further CO attainment analysis.
- During Covid 19, marks obtained by all the students are saved in Moodle which is shared with the course coordinator for further CO attainment analysis.
- Final computation of course outcome is done through spreadsheets and also through SAP.

CO attainment information will be compiled by the course coordinators and information passed on to the School Quality Assurance Cell and Program Assessment Committee for subsequent decisions and actions. The calculation for attainments is performed after declaration of end semester examination results. All documentations related to attainments are maintained by the course coordinators.

Course outcome attainment for each type of courses are discussed below.

Attainment of course outcomes for theory courses:

The course outcomes attainment is assessed based on students' performance in cumulative internal examination (which included continuous assessment and mid-sem) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course Category	Assessment Tools		Marks	Category	Weightage	
	Continuous Evaluation		30	Cumulative Internal	50	
	Mid-Semester Examination		20	Examination (CIE)		
Theory Course			20	Zhammaron (CEZ)		
	End	Semester	50	Semester End Examination	50	
	Examination		50	(SEE)	30 	

The students' marks in different questions are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

Course	Continuous Evaluation	Mid Semester	Cumulative Internal Examination
Outcom		Examination	

es	Total marks	Total	Total marks	Total	Total marks	Total	Class Average
	obtained by	marks	obtained by	marks	obtained by	marks	
	all the	allotted to	all the	allotted to	all the	allotted to	
	student	each CO	student	each CO	student	each CO	
	correspondi	(considerin	correspondi	(considerin	correspondi	(considerin	
	ng to each	g all the	ng to each	g all the	ng to each	g all the	
	CO	students)	CO	students)	CO	students)	
COx	X'	X	Y'	Y	Χ'+Υ'	X+Y	X'+Y'/(X+Y)
							x100

Semester End Examination: Class average corresponding to each CO is assessed as below.

	Semester Internal Examination						
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average				
COx	Z'	Z	Z'/Z x 100				

Targets are quantized into three different levels (Level 1, Level 2 and Level 3) based on Class Average in each CO as per the rubrics given below. The course outcome attainment is assessed based the set target levels as given below.

The course outcome attainment is assessed based on the set threshold levels as given below.

	Threshold Levels for CO Attainment								
Level	0	0	≤ Class Average in each CO <	25					
Level	1	25	≤ Class Average in each CO <	50					
Level	2	50	≤ Class Average in each CO <	75					
Level	3	75	≤ Class Average in each CO <	100					

The CO attainment is assessed separately for CIE and SEE. The final CO attainment is measured based the weighted average of CIE (C) and SEE (S). For the theory course, the weightage of CIE and SEE is 50 % and 50%.

Final Attainment level=

Weightage in CIE (=0.5) * CO Attainment in Cumulative Internal Exam (CIE) +

Weightage in CIE (=0.5) * CO Attainment in Semester End Exam (SEE)

Attainment of course outcomes for Practical courses:

The course outcome attainment is assessed based on the students' performance in cumulative internal examination (which included continuous assessment through experimental

activities/tasks) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course Category	Assessment Tools	Marks	Category	Weightage
Practical	Continuous Evaluation (Experimental activities/ tasks)	60	Cumulative Internal Examination (CIE)	60
Course	End Semester Examination	40	Semester End Examination (SEE)	40

The experimental activities and tasks are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

	Cumulative Internal Examination									
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average							
COx	X'	X	X'/X x100							

Semester End Examination: Class average corresponding to each CO is assessed as below.

Course	Semester End Examination									
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average							
COx	Z'	Z	Z'/Z x 100							

The course outcome attainment is assessed based on the set thresholdlevels as given below.

	Threshold Levels for CO Attainment								
Level	0	0	≤ Class Average in each CO <	25					
Level	1	25	≤ Class Average in each CO <	50					
Level	2	50	≤ Class Average in each CO <	75					
Level	3	75	≤ Class Average in each CO <	100					

The CO attainment is assessed separately for CIE and SEE. The final CO attainment is measured based the weighted average of CIE (C) and SEE (S). For the practical theory course, the weightage of CIE and SEE is 60 % and 40%.

Final Attainment level= Weightage in CIE (=0.6) * CO Attainment in CIE + Weightage in CIE (=0.4) * CO Attainment in SEE

Attainment of course outcomes for Sessional courses:

The course outcome attainment is assessed based on the students' performance in cumulative internal examination (which included continuous assessment through different activities like design, development, analysis or any other tasks) and semester end examination. A summary of different assessment components and respective weightage is given in the table below.

Course		Assessment Tools		Marks	Category	Weightage	
Sessio	nal	Continuous	Evaluation	100	Cumulative Internal	100	
Cour	se	(Experimental activ	vities/ tasks)	100	Examination (CIE)	100	

The experimental activities and tasks are mapped to different Course Outcomes (COs) and are used to compute the class average corresponding to every CO in the course as described below:

Cumulative Internal Examination: Class average corresponding to each CO is assessed as below.

C	Cumulative Internal Examination									
Course Outcomes	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average							
COx	X'	X	X'/X x100							

The course outcome attainment is assessed based on the set threshold levels as given below.

		Th	reshold Levels for CO Attainment	
Level	0	0	≤ Class Average in each CO <	25
Level	1	25	≤ Class Average in each CO <	50
Level	2	50	≤ Class Average in each CO <	75
Level	3	75	≤ Class Average in each CO <	100

Final Attainment level= CO Attainment in CIE

8.4.2 Record the attainment of Course Outcomes of all first year courses(5)

Program shall have set attainment levels for all first year courses.

(The attainment levels shall be set considering average performance levels in the institution level examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the institution level examination)

Refer to 3.1.1 for further details

Course Outcome attainment of all the first year courses is given below.

Academic Year 2021-2022

Acauc	emic Year 202	11-2022								
Sl. No.	NBA Course Code	Course Title	CO1	CO2	CO3	CO4	CO5	CO6	Taget CO	Remark
1	C101	Mathematics-I	2	2.5	2.5	2	2	2	2	Target met
2	C102	Chemistry	2.5	2.5	2.5	2	2.5	2	2	Target met
3	C103	Professional Communication	3	3	3	3	3	3	2.5	Target met
4	C104	Biology	2.5	2.5	2.5	2.5	2	2	2.5	Target met
5	C105	Chemistry Lab	3	3	3	3	2.6	3	2.5	Target met
6	C106	Computer Programming	2.5	2.5	2.5	2	2	2	2	Target met
7	C107	Language Lab	3	3	3	3	3	3	2.5	Target met
8	C108	Engineering Graphics	3	3	3	3	2.8	2.8	2.5	Target met
9	C109	Mathematics-II	2.5	2	2	2	2	2	2	Target met
10	C110	Physics	2.5	3	2	2	2.5	2	2	Target met
11	C111	Basic Electrical Engineering	2.5	2.5	2.5	2.5	2.5	2	2	Target met
12	C112	Engineering Mechanics	2.5	3	2.5	2	2	2.5	2	Target met
13	C113	Physics Lab	3	3	2.6	3	3	3	2	Target met
14	C114	Basic Electrical Engineering Lab	3	3	3	3	3	3	2	Target met
15	C115	Basic Manufacturing Systems	3	3	3	3	2.8	2.8	2	Target met
16	C116	Environmental Science	2.5	2.5	2.5	2	2	3	2	Target met
17	C117	Yoga and Human Consciousness	3	3	3	3	3	3	2.5	Target met

8.5 Attainment of Program Outcomes from first year courses (20)

8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable(10)

The relevant program outcomes that are to be addressed at first year need to be identified by the institution

Program Outcome attainment levels shall be set for all relevant POs and/or PSOsthrough first year courses.

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained through first year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carriedout)

PO/PSO Attainment: Mention first year courses

Academic Year 2021-2022

Sl. No	NBA Cours e	Course Title	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
-----------	-------------------	--------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	----------	-------

	Code													
1	C101	Mathematics-I	2.2	2.2	2.2	2.2	2.2	2.3	2.2		2.0			2.21
2	C102	Chemistry	2.3	2.3	2.3	2.2 9		2.5	2.5		2.4			2.42
3	C103	Professional Communicatio n							3.0	3.0		3.00	3.00	3.00
4	C104	Biology	2.3			2.3		2.3	2.3	2.3				2.33
5	C105	Chemistry Lab	2.8 9	2.9 1		2.9	2.9		2.9					
6	C106	Computer Programming	2.2 5	2.2 6	2.2 5	2.1 9	2.1			2.0		2.00		2.00
7	C107	Language Lab						3.0				3.00		3.00
8	C108	Engineering Graphics	2.9 1	2.8 9			2.8 5	2.9 0					2.89	2.93
9	C109	Mathematics-II	2.0 8	2.0 8	2.0 8	2.0 8								2.09
10	C110	Physics	2.2 9	2.1	2.3	2.3								2.33
11	C111	Basic Electrical Engineering	2.4 6	2.4 6	2.4 6	2.4		2.4	2.4					2.36
12	C112	Engineering Mechanics	2.4	2.4	2.4	2.4								2.54
13	C113	Physics Lab	2.9	2.9	3.0									2.94
14	C114	Basic Electrical Engineering Lab	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.00		3.00
15	C115	Basic Manufacturing Systems	2.9	2.9 0	2.9 1	2.9 1	2.9 0	2.9 5	2.9	3.0	2.9 1	2.93	2.93	2.95
16	C116	Environmental Science	2.3	2.3	2.3	2.0	2.5 0	2.3	2.3	2.5	2.5 0	2.50	2.32	2.30
17	C117	Yoga and Human Consciousness	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

PO Attainment Level PSOs Attainment Level

NBA	Course Code	PSO1	PSO2	PSO3
C101		PSO1	PSO2	PSO3
C102		PSO1	PSO2	PSO3
C103		PSO1	PSO2	PSO3

C104	PSO1	PSO2	PSO3
C105	PSO1	PSO2	PSO3
C106	PSO1	PSO2	PSO3
C107	PSO1	PSO2	PSO3
C108	PSO1	PSO2	PSO3
C109	PSO1	PSO2	PSO3
C110	PSO1	PSO2	PSO3
C111	PSO1	PSO2	PSO3
C112	PSO1	PSO2	PSO3
C113	PSO1	PSO2	PSO3
C114	PSO1	PSO2	PSO3
C115	PSO1	PSO2	PSO3
C116	PSO1	2.35	PSO3
C117	PSO1	PSO2	PSO3

PSO Attainment Level

topics within the class room.

Course	PO1	PO2	PO3
Direct attainment	0	2.5	0
PSO attainment	0	2.35	0

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

PO Attainment Levels and Actions for improvement – CAYm1 only – Mention for relevant POs

POs	Target Level	Attainment Level	Observations					
	PO1: Engineering knowledge: Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.							
PO1	2.5	2.4						
1		1 1	cal events where their basic knowledge should be used in engineering oriented problems. and in both theory and laboratory courses.					
	•	•	te, review research literature, and analyze complex engineering problems reaching athematics, natural sciences, and engineering sciences.					
PO2	2.5	2.45						
Action 1:	Small prototype pro	ejects are given to the stud	ents to develop complex engineering problems in their mind and try to find a solution.					

PO3:Design/Development of solutions: Ability to design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and

Action 2 Motivate the students to learn on their own and give presentations in class. Action 3: Solving tutorial problems as typical examples on all

PO3	2.5	2.56	
Study tour		to expose the students tha	ng attainment level especially in case of Design. actual field condition and provide them oppertunities to interact with the field engineers an
			Ability to use research-based knowledge and research methods including design of d synthesis of the information to provide valid conclusions.
PO4	2.5	2.65	
			ellent laboratory infrastructure comprising state-of-the-art equipment. • various on-site laboratories.
			nd apply appropriate techniques, resources, and modern engineering and IT tools neering activities with an understanding of the limitations.
PO5	2.5	2.65	
		xposed to professional soft be given to use software for	ware like AUTOCAD, r drawing of different types of simple structure like one storied building.
Action N:		riety. A hility to annly rea	soning informed by the contextual knowledge to assess societal, health, safety, legal
and cultu	ral issues and the	consequent responsibilit	ies relevant to the professional engineering practice.
PO6	2.5	2.7	
			ciousness and physics,basic electrical lab ,basic manufacturing system etc directly or ing systems and solutions for society at large.
			derstand the impact of the professional engineering solutions in societal and ledge of, and need for sustainable development.
PO7	2.5	2.69	
	se the awareness al	bout environment and sustarst year B.Tech. program.	ainability from the basic level, Environmental Science and Yoga and Human Consciousness
PO8:Ethi	ics: Ability to app	ly ethical principles and	commit to professional ethics and responsibilities and norms of the engineering
PO8	2.5	2.75	
skills to be	e more ethical for	the entire environment, sta	re implicate as well as explicitly exposed to various scenario to be test their judgmental keholders and most importantly the society at large. periodically to address professional ethics and responsibilities.
Action N:	:		
	ividual and team: iplinary settings.	: Ability to function effec	tively as an individual, and as a member or leader in diverse teams, and in

PO9	2.5	2.54	1
Action 1.Th	2.3	2.34	
			as well as practical course and group wise experiments are conducted in laboratory sessions to deliver their best as an individual or a team member of a group.
ociety at la		ing able to comprehen	effectively on complex engineering activities with the engineering community and with and write effective reports and design documentation, make effective presentations,
PO10	2.5	2.6	
essions in Î			l Communication, exercises like Presentation in class, Seminar, Grand Viva, group experiment s which help students to become an effective communicator, which is highly required for their
	nd apply these		to demonstrate knowledge and understanding of the engineering and management a member and leader in a team, to manage projects and in multidisciplinary
PO11	2.5	2.55	
		Ability to recognize the ntext of technological 2.65	e need for, and have the preparation and ability to engage in independent and life-long change.
012			
Action 1:.E			nan conciousness are directly link to life long learning process . ed for imparting life-long learning to students.
Action 1:.Ea	guest lectures ar		ed for imparting life-long learning to students.
Action 1:.E. Alumni and Similar in	guest lectures ar	e periodically conducte	ed for imparting life-long learning to students.
Action 1:.E. Alumni and Similar in	guest lectures ar	be periodically conducted by the provided for PSO	ed for imparting life-long learning to students.
Action 1:.E. Alumni and Similar in PSO1: Sus PSO1	guest lectures ar formation is to stainable low-co	be provided for PSO ost alternate material NA	ed for imparting life-long learning to students.
Action 1:.E. Alumni and Similar in PSO1: Sus PSO1 Actions ta Profession	guest lectures ar formation is to stainable low-co	be provided for PSO est alternate material NA ive courses shall be tau	NAS

Actions ta	ıken		
Profession	al core and elec	ctive courses shall be tau	ght to the students as per the curriculum for the better attainment of program specific outcomes
DGO2 G			
PSO3: Su	stainable wate	r resources strategy	
PSO3	NA	NA	NA
Actions ta			-1.4 41
Profession	iai core and elec	cuve courses shall be tau	ght to the students as per the curriculum for the better attainment of program specific outcomes

CRITERION 9

9.1 Mentoring system to help at individual level (5)

Type of mentoring: Professional guidance/career advancement/course work specific/laboratory specific/all-round development. Number of faculty mentors: Number of students per mentor: Frequency of meeting:

(The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

9.1.0 Mentoring System

The KIIT DU has institutionalized the Tutor- Mentor system since 1997, the year of establishment as institution. In the system the student is termed as mentee and the faculty member as mentor.

Excerpts from the guidelines for the mentors towards effective mentoring system is furnished below. In this section the generic issues to be addressed by mentors are furnished. An overall introduction to category of mentors is also furnished.

Excerpts from the Guidelines for tutor mentors

9.1.1 Background

Effective and Close teacher-learner interaction has proved to be a key factor in learning and success of a student. In recognition of this, The KIIT University has institutionalized the Tutor-Mentor system since the beginning. In the system the student is termed as mentee and the faculty member as mentor. This document prescribes the guidelines for the mentors towards effective mentoring. In this section the generic issues to be addressed by mentors are furnished. An overall introduction to category of mentors is also furnished.

9.1.1.1 The Issues

Academics (regarding the status of classes, attendance, course progress, difficulties in understanding the subjects of study, registration, marks etc.)

Career (issues relating to placement / higher studies / entrepreneurship)

Emotion (issues relating to anyone in family/friends or a person whom he/she gives the utmost importance, quarrel/misunderstandings, money, recent happenings etc.)

Discipline (altercations/fights, threats, bunking, fines, complaint from the hostel/teachers etc)

Grievances (regarding any problem faced by the student during and/or after the classes which may not be addressed properly)

Any other issue(s) not coming under the above categories.

9.1.1.2 Mentor categories

Mentor: The mentors are to take care of the following activities related to the mentees: Registration, Academic information, interaction with guardians, attendance status, health conditions, general conduct and etiquettes, Brand awareness promotion. They are the first tier contacts to receive and initiate appropriate steps towards grievance redressal.

Counseling mentor: The counseling mentors are to take care of the emotional stability upon recommendation of the mentors.

Senior mentors: The senior mentors are supposed to groom mentors and counseling mentors. They may conduct sessions/workshops periodically towards ensuring effective mentoring program.

9.1.2 Mentor's Appointment

At the beginning of the academic year, the Dean/Director of the Schools will notify the mentors, counseling mentors and senior mentors from among the faculty members of the school. Following guidelines may be followed during mentors' appointment.

- For a group of students a faculty may be nominated as mentor. The head of the school may nominate a demonstrator only if he/she is sure of potential of the demonstrator to work as an effective mentor.
- The group size for undergraduate students should preferably be thirty. Deans / Directors are however empowered to choose the group size.
- For female students, in no case a male faculty member will be nominated as mentor.

- The head of school will nominate counseling mentors from among the faculty. The faculty member with good rapport establishing skills and rational decision making skills may be preferred.
- The number of counseling mentors will be one for a student group size of 200.
- Senior mentors will be nominated by the Head of Schools from among the senior professors.

9.1.3 Mentors' Responsibilities

9.1.3.1 Mentor

- To ensure a cooperative and supportive environment to the mentees towards facilitating learning and engagement in active scholastic work.
- To hold frequent and regularly scheduled meetings with the mentees and make himself/herself available or accessible for the mentees as often as needed.
- To keep the guardians informed on student's academic progress, attendance and discipline related issued (if any).
- To keep the students and guardians informed of organizational achievements.
- To help the mentees develop a thorough understanding of the academic programs and the required regulations.
- To identify opportunities for students to disseminate their skill in discipline specific or extra-curricular activities.
- To provide direction to enhance and reinforce the mentee's discipline specific or interdisciplinary methods and skills.
- To identify need of counseling and arrange regular interaction with the counseling mentors. The number of mentees in need of counseling should not be more than 1/4th of group size

9.1.3.2 Counseling mentor

- To recognize that each mentee is unique and needs tailored mentoring. This involves learning and respecting mentee's personality, style of work and expectations.
- To help the students passing through a hard phase of life through providing adequate emotional support, motivation and inspiration.

9.1.3.3 Senior mentor

• To interact with mentors and counseling mentors. They are expected to provide support towards enhancing effectiveness of the system.

9.1.4 Documentation Requirement

1	Notification	of	Dean/	Beginning of	The notification intended to students to
	mentors'		Director	semester	offer name and contact details of the
	appointment				mentor.

2	Primary data sheet	Compliance cell	Beginning of semester	Mentee's name, address, mail, phone, guardian's name, mail and phone number
3	Notification of mentees' meeting schedule	Mentor	Beginning of semester	The routine meeting schedule with the group of mentees
4	Interaction register	Mentor	Routine	The register should record interactions made with group of mentees, individual mentees and guardians
5	Individual files	Counselling mentors	As and when required	The file should have documents of evidences of interaction, any professional support taken and the recommendations
6	Mentoring development workshop notification	Senior Mentors	At least once a year	The notification should offer schedule, venue and resource persons.

9.1.5 What Do Good Mentors Do?

They interact daily with some of mentees

They do not counsel mentees in front of friends

They prefer to hold mentoring sessions not during class timing

They follow-up with appropriate authorities on behalf of the mentee

The mentoring services do have weightage in the performance appraisal. Further, The University is devising a module to recognize mentoring services and reward best of the mentors.

Number of students per mentor: 25-30

Frequency of meeting: 1/ week of one hour direction with the group.

5 minutes per individual mentee in a week (Each mentor interacts with 5 mentees each day, individually)

Counselor interacts with Identified critical mentee each week

Efficacy of the System: The mentoring activities lead to multiple outcomes across a broad spectrum of activities. The mentee-mentor relationship can be complex and thus efficacy is not easily measurable. The University collects feedback from mentees on mentors and also from mentors on mentees. The efficacy is assessed from the following parameters.

- % of mentees without any backs (From examination results)
- Achievements of mentees (From mentors)
- Mentor contacts used (From mentees)

The University has a student friendly atmosphere. In spite of more than hundred program catering to 27000 students, the University is proud of its recognition as a disciplined institution. The number of student unrest is zero since 2014. The placement is 100% and the number of students pursuing higher education is increasing rapidly. All of these indicate to the efficacy of the mentoring system.

Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average Percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers; Number of corrective actions taken.

Feedback collected for all courses: YES (Twice a year)
Average Percentage of students participate in the feedback process: 95-100%

9.2.1 Feedback Collection Process:

The institute has a well-defined process for feedback collection with respect to all the courses, which is required to ensure continuous improvement and refinement of teaching learning process and curriculum. The detail of feedbacks collected from the students and the process of collection is given below.

Sl.	Type of feedback collected	Feedback on Curriculum,	Feedback on facilities
No.		Teaching & learning	
1.	Process of collection	Online submission through SAP	Google form/ Through
		portal	SAP
2.	Medium of notification to students and follow up	Via mail from IQAC via Dean and tutor mentors	Via mail from IQAC via Dean and tutor mentors
3.	Frequency of collection	Once after end of each semester	Once in every year
4.	Department responsible for collection, analysis and action taken	IQAC	IQAC

Thus SAP portal is opened or student feedback after end of each semester for online submission of students' feedback on curriculum and teaching-learning. The feedback form is so designed to collect information on the curriculum, attributes of teachers and their teaching learning methodologies and effectiveness of the methodology. The feedback form shown in Fig. xxx collects the satisfaction of the students in Likert scale of 1 to 5. Following major components are covered in the feedback analysis process which is given below.

- Course Objectives
- General observation
- Skill Development
- Innovations and Methodology
- Commitment and Command
- Help and Motivation

9.2.2. Sample Feedback form

	KIT UNIVERS (Declared U/S 3 of UGC Act, Bhubaneswar, Odisha	1 TY 1956) , In dia				
	FEED BACK FROM	STUDEN	ITS			
	QUALITY ASSURA	NCE CELI		1		
	rm No				KIIT/QAC/	01
Ins	tructions:					
1 –	Put a Tick (Ö) mark in the following table that reflects	your choic	e.			
2 –	Give your opinion based on your observation / experie	nce with an	open and	l unbias	ed mind.	
3 –	Do not disclose your personal identity anywhere in the	questionna	ire.			
	me of the School & Branch					
	me of the teacher assessed					
	gramme		Section		Semester	
Sub	oject / Paper taught			Cou	rse Code	
	Course Objective				Yes	No
1	The course so far has provided new knowledge.					
2	After attending the course awareness or insight of the	subject has	improve	d.		
3	The course is interesting and relevant.					
4 The course is up to date and Industry designed.						
5	The course may be helpful in future goal.					
RA	RATING ON TEACHER Excel		Very Good	Good [3]	Average [2]	Below Average
SU	ВЈЕСТ	[5]	[4]	[2]	[4]	[1]
GE	NERAL OBSERVATIONS					

6	Punctuality & Regularity in taking Classes			
7	Communication skills			
8	Delivery of structured lectures			
9	Completes the entire syllabus in time			
SK	ILL DEVELOPMENT			
10	Skill of linking subject to life experience and creating interest in the subject			
11	Refers to latest developments in the related field			
12	Scheduled organization of Assignments, Class tests, Quizzes, Seminars etc.			
13	Helps the students through Instructions/ Demonstrations			
INN	NOVATIONS & METHODOLOGY			
14	Use of innovative teaching methods (Case Study, Group Discussion, Problem Solving etc.).			
15	Use of open education resources.			
16	Use of teaching aids (OHP, PPT etc.).			
17	Blackboard / White board work in terms of legibility, visibility and structure.			
CO	MMITMENT & COMMAND			
18	Effective control mechanism to conduct the class.			
19	Tendency of inviting opinion and questions on subject matter from students.			
20	Skill of addressing inappropriate behavior of student.			

21	Inspires students to maintain discipline.					
HELP & MOTIVATION						
22	Availability / willingness to guide the students beyond regular lecture hours.					
23	23 Gives equal attention to all students					
Helps students facing physical, emotional and learning challenges.						
25	Motivate students for their future goals in realizing their strengths and needs.					
	Total					
Suggestions (if any) for the improvement in Teaching / Learning process:						
For Office Use (Quality Assurance Cell)						
Comments:						
				(A	authorized Si	gnatory)

9.2.3 Feedback analysis process;

The feedback collected through SAP portal is shared to Internal Quality Assurance Cell of University for further analysis by a feedback analysis committee. The Analysis of the feedback is obtained in following components.

- Course Objectives
- General observation
- Skill Development
- Innovations and Methodology
- Commitment and Command
- Help and Motivation

Based on the students' feedback, a score index is computed by using following formula.

$$S_i = \frac{\sum_{1}^{N} m_i}{5N}$$

Where N represents the total number of students m_i is the mark assigned for ith component.

9.2.4 Basis of reward/corrective measures, if any;

- The course teachers committee is offered the score on course.
- The IQAC Cell shares the scores with the Deans and the faculty members including course coordinators. IQAC also share specific feedbacks with the individual faculty members to know their specific strength or weakness and improve the teaching skills. The close view of the score and interaction usually results in improvement in teaching-learning aspects.
- In case of a particular course, whose teachers have not got a satisfactory score index, the IQAC representative and the Dean discuss with the Course Coordinator. Subsequently the Course Coordinator and teachers are required to bring changes in content delivery and communicate the information back to the Dean.
- The feedback score of each faculty is also taken as cut-off during faculty promotion activities.
- The faculty who get low index, are counselled by Dean and IQAC.

9.2.5 Number of corrective actions taken.

Corrective actions were taken as per the students' feedback and further analysis. The actions are programme/subject specific.

9.3 Feedback on facilities (5)

Assessment is based on student feedback collection, analysis and corrective action taken.

9.3.1 Students Feedback Collection Process

The Quality Assurance Cell collects student feedback on the facilities of the University and school annually once. The feedback collection is conducted during the month of November.

The form of the feedback asks students' opinion on various facilities of school and university. The feedback format is attached in Table 9.3.1. Different facilities for which feedbacks are taken from students are given below.

- Classrooms and labs (seating, lighting, fans, A/C, ventilation, cleanliness, etc.)
- Teaching aids (Projectors, blackboards, computers, posters, display boards,
- drawing boards)
- Washrooms, drinking water, water supply, first aid, etc.
- Hostel
- Telephone & internet
- Canteen and other services
- Sports facilities (Sports items, ground facility, etc.)
- Library facilities
- Transport facilities

• Medical Facilities

Table 9.3.1 Feedback on facilities

	Students Name					
Roll No						
Sl. No.	Indicators	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
1	The lighting, ventilation and acoustics in class rooms/demonstration rooms/laboratory rooms present an inviting setup for learning	-				
2	The audio-visual capability in classrooms have enhanced learning					
3	The resources to impart practice sessions are adequate, of good quality and mostly operational					
4	The students have access to research and development facilities of the School					
5	The faculty and research scholars are approachable when a new idea develops					
6	The sanitation standard in the campus is excellent					
7	Book resources at the library are adequate to meet prescribed reading in the course.					
8	The book resources at the central library cater to the learning needs in diverse areas.					
9	Most student users are aware of journals and access these for learning/research activities					
10	A learner friendly ambience prevails in the reading room of library					
11	The quality of hostel accommodation in context of space and facilities meets expectations					
12	The learning ambience in hostel reading room is well maintained					
13	The hostel staff are student friendly					

14	Facilities including equipment and trainers prevailing in gym, swimming pool, indoor games, outdoor games meet requirement of amateurs and professionals.			
15	Student administered societies are functional and atmosphere is usually inviting			
16	The availability of a computer/laptop for use any time is never an issue			
17	Internet connectivity is everywhere in the University campus			
18	Medical facilities are of good quality and can be availed by students			

9.3.2 Feedback Analysis

The feedback collected is analyzed by school level quality assurance cell and a score is determined based on the following equation.

$$S_{K} = \frac{\sum_{s=1}^{N} \sum_{i=1}^{m} P_{Q_{ki}}}{5N}$$

Where $P_{\mathcal{Q}_{ki}}$ =Points scored for question components marked to kth category

N= Number of students who offer feedback

 S_K = Score for kth category

Table 9.3.2 provides the scoring pattern and the responsible office being shared with the score.

Table 9.3.2: Scoring pattern and Action Centers

Table 9.5.2. Scotting pattern and Action Centers					
Aspect	Action Centre				
Academic Resources (Q1-5)	Dean of School, Administrative Officer of School and				
	Joint Registrar (Administration)				
Hygiene (Q2)	Development Office				
Central Library resources (Q 7-10)	Senior Librarian, Central Library				
Hostel Facilities (13, 14, 15)	Dy. Registrar (Hostels), Senior AO (Girls Hostel)				
Sports Facilities (Q14)	Director, Sports				
Student Societies (Q15)	Director, Student Support Services				
ICT Facilities (Q16-17)	Head, ICT Cell				
Medical Facilities (Q 18)	General Manager, KIMS				

Corrective Actions taken

If the score obtained is less than 90%, actions may be triggered as per the requirement.

9.4 Self-Learning (5)

(The institution needs to specify the facilities, materials and scope for self-learning / learning beyond syllabus, Webinars, Podcast, MOOCs etc. and evaluate their effectiveness)

KIIT-DU provides wide scope, opportunities and facilities to its students for self-learning and learning beyond syllabus. During 2004, the KIIT became youngest Deemed to be University (Within 7 years of inception as institution) with a special mention to the innovative measure the organization has initiated. And the measure was providing wi-fi enabled laptop to each student (During 2004, it is an innovation and now adopted at many organizations). KIIT students have access to internet and computing facilities any-where in the University premises round the clock, round the year.

KIIT DU, made the library 24X7 during 2005, another remarkable innovative measure to promote self learning. The students can go through books of any domain, wherever they wish to venture in. Specific.

Support to students for self learning activities

- Integrated library web portal for searching of subscribed e-resources as well as open access econtent.
- o RSS Feed and Email alert services.
- o LCD projectors for self learning and demonstration.
- o Access to the Lecture videos from NPTEL and other open course wares
- Access to the National Digital Library of India.
- The institute has introduced a framework of learning activities which promotes self learning among students with the following focus areas in all streams:
 - o **Interactive focus:** Activities include synchronous and collaborative discussions, group activities and assignments, etc.
 - Critical thinking: Activities include undertaking case studies, field surveys, problem identification, reviewing impacts created by previous researchers, identifying gaps and scope for further improvement and strategy formulation.
 - Problem solving: Activities include implementation of strategies under real life circumstances, developing an understanding of constraints, realizing relevant social, environmental, legal and economic implications and analyzing the impact created; activities also include solving real life open ended problems supported by simulations and modeling relevant to the purpose.
 - Creation: Activities include design and implementation tasks both at simulation level followed by hardware implementation, real time deployment and study of the impacts.
 - Preparedness for competitive examinations and higher studies: Activities
 include extra studies (self-learning) and problem solving as preparation for
 competitive examinations and higher studies.
- In laboratories, students are allowed to take up open ended tasks either at individual or group basis in the form of micro-projects to hone their analytical and design skills which can be further explored during final year major design projects.
- Students undertake field/industry visits and undergo internships/trainings to acquaint themselves with the industry and job requirements and develop an understanding of the real time issues. Students are also engaged in live and interdisciplinary projects (in different Centers of Excellence) as well as product innovation and entrepreneurship supported by the Technology Business Incubator Cell.

- Open course wares including NPTEL, and MITopen coursewares are promoted by teachers, what students can access anytime.
- The institute has also entered into collaboration with MOOCs giant Coursera offering more course options and learning avenues for students.
- Students can opt for a foreign language learning at the School of Language. School of Leadership caters to requirements of students desirous to appear Civil Service Examinations.
- Career Augmentation and Advisory services prepares students for industry-readiness;
 School of leadership prepares students for higher studies, competitive and civil services examination.
- Students are encouraged to be active component in organizing Symposia, conferences, workshops etc. Student Societies are operational, where students plan, execute and coordinate the activities, which are immensely contributing towards self learning. In this section, some societies are mentioned.
- ➤ Model UN Society: A society where one gets to know the world, world politics, societies and obviously all of that through a multitude of never ending fun. A society meant for the strong of heart, meant for the listener, the speaker in you. With the flagship event of KIIT International Model UN 2015, the society promises to deliver many grilling session over the coming year.
- > TEDx: KIIT students have got the licence to organise TEDx in 2015 for KIITUniversity (Reg. No. 17657). The students hosted the first ever TEDx event in any technical university in the state of Orrisa and probably 2nd after IIT KGP in Eastern India . Since the event like TEDx which is new to the University may have some rules that we need to abide but that will surely give a world class university like ours a mileage and be counted among the elite ones .It was the grandest TEDx event in India with speakers from various fields. TEDX is a spin off conference of independent talks of technology demonstrations, art performances, research lectures and world changing ideas that are organized locally by the volunteers, free of any commercial, religious or political agenda.
- ➤ "KHWAAB"(Society on Philosophy of the Founder KIIT & KISS)- In service to humanity 'is a society solely dedicated to help people. The innovative grass root approach is to transform citizens into agents of change who will rejuvenate the spaces disinvested, into new generation of helping, loving and inspiring destinations in line with the philosophy of Dr A. Samanta, Founder of KIIT and KISS.
- > The three basic foundation tools include:
- > Art of giving
- ➤ Garment Bank
- ➤ India against negativity
- ➤ Entrepreneurship Cell: The KIIT Entrepreneurship-Cell is primarily responsible for fostering the business mind among students and assisting budding entrepreneurs by providing them with necessary resources.

- ➤ The Quizzing society ~ Qutopia: Established with the motto of 'Quiz for Quiz's Sake', the society claims to be a perfect haven for all the quizzers. Born out of a desire to learn more about the world and beyond, as well as an urge to share what we know.
- > The Music & Dance Society (Korus): For the sprinkling joy of the ushered music and dance within, we have the Korus Society to unleash the attached strings. There's a Michael Jackson in one corner and a Zakir Hussain crooning in the other and a whole family of instrumented passion to accompany them.
- ➤ **Automobile Society:** It offers a rich and varied examination of automobiles, automotive culture and design, and the personalities that shape the industry to inform and entertain consumers who are passionate about cars.
- Aeronautical Society (Apogeio): KIIT Aeronautical Society named "APOGEIO" aims to promote scientific and educational activities towards the advancement of the theory and practice of Aeronautical Engineering.
- ➤ Robotics Society (KRS): The Robotics Society focuses on research, knowledge sharing and learning with the aim of embracing new technology and making new discoveries in the field of Robotics with a high standard of ethics in service to the community.
- ➤ The Cooking Society (Keurig): The Cooking Society of KIIT University, where food becomes cuisine and the kitchen becomes a platter in the hands of budding chefs and the enthusiasts at heart.
- ➤ Photography and Painting Society (Kreative Eye): Kreative eye is a society which provides you a platform to hone your photographic & painting skills, express yourselves through your lenses and colours. When your soul can dream and your heart can desire, you will be able to create.
- ➤ **Differently Able Society (Karma):** This society aims to perceive, build and conceive what the world normally cannot. It welcomes members who are strongly motivated to work for the differently able populace of the world, any form, any kind.
- > Social Responsibility Cell (Kartavya): SRC acts as a motivator for young students to come together from all walks of life and join together to be the harbinger of light in the lives of those who have been deprived of it.
- ➤ Women's Society (Kamakshi): The women's society of KIIT promotes equality for women. They not only believe in providing women a better platform but also in encouraging them to be the torch bearers.
- ➤ KIIT International Students Society (Khetshan): It is the society that has students from outside India who come together and work. They not only learn and grow but also promote their culture, traditions and heritage.
- ➤ The Hindi Society (Khwahishein): The Hindi Society of KIIT believes in promoting our mother tongue. It brings out the best poets and writers of the college to portray their dreams on papers and rest its magic.
- Film Society: It gives platform to the students to bring out the most expressive and creative skills of film making. The society also plays a major role in the making of the official videos of the University.
- ➤ **Dramatics Society (Kalakaar):** Creativity is the food for imagination and spark for thought. With this inspiration, the dramatics society is the place for the polishing and the nourishing of skills of those with the flare to perform both on and off stage, for those to

see the light, which others cannot even grasp, for those to whom drama is life.

- Society of Web Development & IT Society: (Social & Digital Branding)Konnextions: The society which prepares you for the new ultra modern world of internet, the destination for development of applications and websites/domains of daily use and a place for those professionals to be. IT Society encourages students to take a step ahead in the enigmatic information technology world. The need of the hour is the ever-growing technology and all that is informed here.
- ➤ Society for Alumni Connect (K-Konnect): The past meets with the present for a better tomorrow- This is what connection is and this is how our most dynamic society for our alumni members would be; a place for them to connect with the present members of the University.
- ➤ KIIT-Wordsmith (The Writing Society): The pen often proves to be mightier than the sword. Wordsmith is the platform where the students of the University can express their ingenious, unorthodox, profound thoughts through the pen. Kritika the annual magazine, Kirti- women's magazine, monthly newsletters, e-magazines to name a few are our flagship projects.
- Fashion Society (Kzarshion): Fashion helps define tastes and shape tastes of individuals. And can be very influential in personality development of a person. Fashion is a necessary item in day to day schedule. It is the newly created society to inculcate proper dressing sense according to the occasion in students.
- Marketing Society (kraya): "Sell me this pen", said once the famous Jordan Belford. All events conducted by Marketing Society shall be designed to give students a deep working insight into what Marketing is really about. This society will provide students an all-round experience of marketing through industry exposure and on-campus fun marketing activities.
- Finance Society(Kuber): Business, market, society, entrepreneur- all have that one thing in common- funds and finance. They hone the student's management skills by organizing events related to the various aspects of management. This society brings together groupwork, leadership skills, creativity, hard work, management principles and general camaraderie in an entertaining way.
- ➤ Medical Society(Kimaya): Kimaya "An Endeavour To Understand", aims to provide a platform for the congregation of the entire medical fraternity of odisha and major Universities and beyond.
- Science & Spiritual Society: A new society committed to a spiritual way of life based on meditation and service to others. It's a scientific look at the nature of spirituality, including meditation, near death experience, religion and altered states of consciousness. To create an awareness that a thin line exist between science & Spiritual.
- Society for Civil Engineering: This is the society for all civil engineers who work regarding the development of building, monuments, bridges, planning of structures, city, etc with constructive and new technologies. The society organizes different seminar and workshops for students to increase their creative skills and to provide ideas on recent technologies.
- ➤ **KIITFEST:** KIIT organizes Annual Fest of the University to promote the showcase of technical, cultural, spiritual, literary, dramatics, artistic, professional skills and innovation. Various competitions among the students at national level are being held. 20,000+

- students participate every year.
- ➤ Effectiveness of the self learning measures is directly visible from the achievements of the students in academic, professional and extra-academic domains. Not only the achievements, but also the satisfaction of the students, the informal communication with teachers and mentors, contact retention after years of passing out, zero indiscipline records speak volumes of the effectiveness of the self-learning modes keeping students engaged in creative thinking and aided exploration.

9.5 Career Guidance, Training, Placement (10)

(The institution may specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/internship/placement, etc.)

Career guidance, training and placement is one of the advantages that KIIT offers since its inception. It has an impeccable record in campus placement. KIIT has always been much favored talent hunting ground for corporate world as it delivers industry-ready students. KIIT has an established structure for guiding the students for training and placement i.e, Industry Engagement Cells and KIIT Kareer School (CAAS).

9.5.1 Industry Engagement Cell (IEC)

9.5.1.1 Purpose

The Industry Engagement Cell (IEC), KIIT DU would be responsible to create and nurture an enduring and sustainable environment to foster and maintain a symbiotic relationship with the industry and other external agencies that are mutually beneficial and value-adding. The major goal is to create and sustain a positive impact on the Corporate World and other organizations of repute at National and International levels, primarily in the space of academic excellence and the overall knowledge ecology within the University.

9.5.1.2 Management:

The department functions under a widely-experienced Pro Vice-chancellor, KIIT DU with cognizance of various industry-academia collaboration and career opportunities. Two able Deans lead the administrative, strategic, academic collaboration activities of the department. Two verticals with capable and qualified staff and faculty to address all end-to-end placement activities and Industry Academia collaboration with concerned Schools/Departments. To address the aspiration of each student a dedicated Kareer School (CAAS) headed by Director and Dean has been consciously formed and running successfully.

9.5.1.3 Activities:

Beginning with continuous monitoring of end-to-end execution of industry academia collaboration and campus recruitment activities related of constituent schools and consulting partners of the University, Industry Engagement Cell (IEC) delivers a range of duties. To address the ever changing industry requirements our major objective is to bringing in more intervention of industry into academic with following activities:

- ♦ Collaborating with Technical Heads / CTOs / Operational Heads of the industry for all possible Industry Engagement activities including placements of the students.
- ♦ Setting up and initiating the student-focused 'Innovation & IPR Cell' within the University & fostering a culture of 'Innovations & Entrepreneurship' among the students by organizing a series of the state-of-art lectures/seminars/workshops in the said area/topic in collaborations with the

- industry/repute academicians of foreign Universities (aim is to create an entrepreneur pipeline for KIIT TBI for encouraging more students from SOT to go for start-ups)
- ♦ Encouraging researchers within the University to develop strong ties with the Industry, Government / Non-Government Organizations, and associated Community Groups with the purpose of collaborating on new research frontiers.
- *→* Promoting awareness for creation of IPR and commercialization of the same including the protection and management of Patents from research findings.
- ♦ Generating sponsored research consultancy corpus fund in association with various corporate houses.
- ♦ Developing state-of-art laboratories for experimentation and knowledge incubation by corporate funding.
- ❖ Forging ties with Corporate for training and certification of students, arranging technical lectures by SME's (Subject Matter Experts), organizing industry-sponsored workshops/symposiums for students and faculty.
- ♦ Offering opportunities to the corporate for Leadership/Executive Development Programs and/or customized learning programs in selected areas of specialization to leverage from the expertise resident with the KIIT faculty.
- *♦* Generating recruitment-related database of Corporate and reaching them for the same by sharing the data with Corporate Relations team.
- ♦ Creating Advisory Bodies for various Schools across KIIT University with experienced professionals from the corporate world with prime responsibility to craft appropriate corporate tie-ups and courses-of-study, syllabus, and curriculum development synergized with current industry needs.
- ♦ Communicating the contemporary industry requirements and needs especially for fresher's recruitment by industry research to internal stakeholders and to act as a proactive link between the corporate world and university.
- *♦* Augmenting the University branding process by promoting all classes of constructive and productive activities as and when advised by University leadership.
- *♦ Creation of in-house industry forums at KIIT and promotion of associated technical societies.*
- ♦ Creation and maintenance of KIIT Alumni database, which would help us in tapping people from the industry.
- ♦ Providing teaching/research opportunities to the industry professionals on sabbaticals and creating opportunities for KIIT faculty to work in corporate on sabbaticals.

9.5.1.4 IEC Flagship Initiatives:

- ➤ Industry Electives and Minor
- Capstone Projects
- ➤ Internship & Projects
- ➤ Centre of Excellence (CoE)
- ➤ K-Hub
- ➤ Power Talk
- ➤ Tech Talk
- ➤ Pep Talk

9.5.1.5 Impact/Effectiveness:

The initiative & interventions that IEC has been providing over the years have cemented the industry-academia relationship elevating the students strength, capability and readiness. Having the corporate presence in the campus has certainly given the students a real-time opportunity to intern in the campus itself thereby getting billable in all aspects much before they get graduated

9.5.2 KIIT Career School - CAAS

9.5.2.1 Purpose:

Kareer School (CAAS) was instituted with a solitary purpose of improving the career-readiness of Engineering & Management students of KIIT University. Its purpose has evolved to cater to all other disciplines like Law, Medical, Biotech and more. It is now also tasked with skill enhancement for in-house staff, partner institution and even foreign universities.

9.5.2.2 Management:

The department functions under a widely-experienced Director with cognizance of various career avenues and their dynamics. An astute Dean leads the administrative, strategic and academic activities of the department. Three verticals with capable and qualified faculty fulfil Quantitative, Technical and Verbal demands of career-concerned candidates.

9.5.2.3. Activities:

Beginning with continuous monitoring of job related requirements of constituent schools and consulting partners of the University, Kareer School (CAAS) delivers a range of duties. It on boards, trains, tests and finally supports aspirants of various professional goals. With its tech-focused approach, it seamlessly conducts physical, virtual and phy-gital courses, sessions and events.

- Workshops & Webinars
- ➤ Various workshops and webinars are being arranged for the students to guide and assist them in preparation of higher education like GATE/GRE/GMAT etc. This is purely in choice basis by the student.
- > Counseling and Orientation
- These are continuous process and goes on as per the need.

1. Assessment

Students are being assessed at various periods by national level partners viz. Elitmus, CoCubes, SHL Aspiring Minds etc. To know the students eligibility according to the industry standards which leads to prepare then in the shortfall areas.

2. Company Specific Training

Before every upcoming placement drives company specific training is being provided to the students in order to make them specific company ready.

3. Soft Skill (HR PI/GD)

Mock GD and PI sessions are being arranged for the students frequently to groom the students for HR round interviews of the original placements.

4. Tech PI/ Industry focused project review session

These sessions go on round the year continuously one after another in order to make students ready for technical round interviews of original placements. Project review helps a student to get his minor/major

projects evaluated in various parameters eventually makes the student industry ready.

5. Summer Training

Need base training programs run during summer seasons where a student get opportunity to enroll himself/herself in the course(s) in which he or she is poor. For an example if a student is good in JAVA but not very good in Python, then he/she can learn it. Courses are also customized according to the requirements of the students. The core benefit is all the trainings are available for the students inside campus and a student need not to go outside by taking burden to learn.

6. SIP review

Students get opportunity to produce their SIP document and get it reviewed in various parameters and eventually are able to make themselves placement ready. This guidance also helps them to groom themselves for HR round interviews. This is specifically done for the MBA students.

7. Pre placement training (Tec/VA/QA)

These are the training classes on the subjects of Programming, Quantitative Aptitude, Logical Reasoning, Verbal Ability etc. which happen the whole year as per the time table prepared.

Semester wise preparation break up is given below for your better understanding. <u>Note that it is subject to change in nature.</u>

1st year

$\overline{2^{\text{nd}}}$ semester :

- Orientation and platform onboarding
- Highlighting the Roadmap including the pre-requisites

2nd year

3rd semester:

➤ 2-3 Nos of Base Line Assessment on Cognitive and Communication Skills including Soft skills.

4th semester:

Orientation and Base-Level Training on Technical, Cognitive, Communication Writing Skills and Soft skills.

3rd year

5th Semester:

- ➤ Base Line Assessment on core Domain areas
- Regular Training Sessions on Technical, Cognitive, Communication and Core-Domain Area.
- Certifications
- Live Workshops on Resume Building GD, PI and Writing Ability.
- Orientation on Internship Document Preparation and Presentation
- ➤ End semester Assessment (Exit Test-1)

6th Semester:

- Onboarding to Global Assessment Platforms.
- Regular Training Sessions on Technical, Cognitive, Communication and Core-Domain Area.
- > Domain Training Sessions and Workshops on key domain Areas with assessments.

- Students Dossier Publication highlighting journey from the 1st year including participation, performance with a predictive analysis presentation followed by recommended learning and certification.
- > Creation of Buckets @ Different levels of standard and niche-area competency
- Video Resume Building, Resume Document Creation and Portfolio Creation
- ➤ End Semester Assessment (Exit Test-2)

4th year

7th Semester:

- > Publication of List of placement eligible students.
- Launching of Assessments Packages
- One to one Internship Evaluation
- Technical /HR PI & GD evaluation and grooming sessions
- Level-validation Assessments on both Domain and Cognitive skills.
- Resume validation, Profile Validation and Portfolio Validation
- Case Study Presentation and analysis on niche area proficiency
- Company Specific Trainings
- ➤ Placement Focused Internship Document Creation, Presentation and Assessment
- ➤ ExitTest-3

8th Semester:

- ➤ Company Specific Training for yet to be placed students.
- Remedial Sessions and Need base Training.

NB: The above Semester wise Training road map is specially designed for SOT. Similar kind of interventions are designed for SOM, KSRM, KSOL, KSBT and other Schools as per their need.

- 8. K200: This is a group of special top 200 students who are being selected for the off campuses in top notch companies like Google, Amazon etc.
- 9. Platform On boarding and Certification

Students get guidance regarding various Online Competitive Coding Platforms like HackerRank, LeetCode, HackerEarth, CodeChef etc etc. to on board, register themselves and go for certification. They get tit by bit assistance and information to complete the process.

Impact/Effectiveness:

The interventions that Kareer School has been providing over the last 9 years have progressively raised the collective standard of the graduate's industry-readiness. Despite pandemic-induced economic slowdown, inconsistent hiring trends and remote learning channels, Kareer School has fulfilled its obligations and kept the success indicators rising with one-to-one approach as well as digital outreach.

9.6 Entrepreneurship Cell (5)

(The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and

KIIT DU encourages the development of entrepreneurs in a structured manner through Entrepreneurship Cell and KIIT Technology Business Incubator (KIIT TBI).

9.6.1 Entrepreneurship Cell:

Founded in 2013, KIIT E-CELL is dedicated to nurturing entrepreneurship culture among young and enthusiastic minds and helping them develop the perseverance muscle to walk the extra mile. We are keen to uphold budding entrepreneurs who seek to tackle the challenges of people through groundbreaking technological solutions; by implementing the assistance required with India's largest inbuilt technology business incubator, KIIT TBI. We ensure holistic development and a conducive learning environment for our students by hosting start-up talks, innovation challenges, workshops, techno-business sessions by celebrated entrepreneurs besides internship camps, and much more. The Cell is drawn to enhancing the hustle of young minds who are determined and driven.

9.6.1.1 Committee:

Sl. No.	Name	Post
1	Adrita Chatterjee	Chairperson
2	Asmita Hobisyachi	ED-HR
3	Om Chaitanya	Managing Director
4	Pranab Das	Chief Operating Officer (COO)
5	Rupabarna Dastidar	Chief Marketing Officer (CMO)
6	Barneet Panda	Director-PCR
7	Smriti Srivastava	Director-R&D
8	Nishtha Konwar	Director-Content
9	Sambhavi Bhavya	Director-Design
10	Aarushi Shanker	Director-Tech
11	Vishwanath Akash	Director-T&P Associate
12	Abhilasha Sahoo	Director- ESC
13	Ayush Raj	Director-TAC
14	Shreya Prachi	Advisory(PCR)
15	Bitan Datta	Advisory(PCR)
16	Siddharth Prusty	Advisory(R&D)
17	Purba Dey	Advisory(R&D)
18	SN Surajbhan	Advisory(Content)
19	Aditya Singh	Advisory(Design)
20	Devansh Shaw	Advisory(Tech)
21	Mithilesh Mishra	Advisory(Tech)

22	Akshita Agarwal	Advisory(Tech)
23	Sumit Kumar Sahu	Advisory(Tech)
24	Shashank Shekhar	Senior Executive(PCR)
25	Khushi Kumari	Senior Executive(PCR)
26	Rishabh Bharadwaj	Senior Executive(PCR)
27	Pragya Pranjal	Senior Executive(PCR)
28	Navnil Das	Senior Executive(PCR)
29	Yash Vardhan Gupta	Senior Executive(PCR)
30	Srijita Bhattacharya	Senior Executive(PCR)
31	Avinav Kumar Roy	Senior Executive(PCR)
32	Aditya Srivastava	Senior Executive(R&D)
33	Pranshu Sharma	Senior Executive(R&D)
34	Debankur Das	Senior Executive(R&D)
35	Yuvika Singh	Senior Executive(R&D)
36	Abhiraj Singh	Senior Executive(R&D)
37	Bhavya Mittal	Senior Executive(Content)
38	Diksha Pranjali	Senior Executive(Content)
39	Bhawya Sinha	Senior Executive(Content)
40	Parth Maheshwari	Senior Executive(Content)
41	Mayank Jain	Senior Executive(Content)
42	Bibek Ranjan Biswal	Senior Executive(Design)
43	Cyrus Bhandari	Senior Executive(Design)
44	Antarik Dutt	Senior Executive(Design)
45	Durgesh Kumar	Senior Executive(Tech)
44	Aditya Sinha	Senior Executive(Tech)
45	Shubham Kumar	Senior Executive(Tech)
46	Swayam Kumar	Senior Executive(Tech)
47	Soham Raj Jain	Executive(PCR)
48	Alisha Panigrahi	Executive(PCR)
49	Shreya Roy	Executive(Design)
50	Marvis	Executive(Design)
51	Shubh Mittal	Executive(Tech)
52	Deeksha Lakhotia	Intern(PCR)
53	Suryansh Kumar Singh	Intern(PCR)
54	Abhishek Dutta	Intern(PCR)

55	Aman Kumar	Intern(PCR)
56	Ayushi Mohanty	Intern(PCR)
57	Ryan Alam	Intern(PCR)
58	Shivli Singh	Intern(PCR)
59	Anish Singh	Intern(PCR)
60	Krish Batra	Intern(PCR)
61	Abhipsha Das	Intern(PCR)
62	Mudit Yadav	Intern(PCR)
63	Pranjal Biswas	Intern(PCR)
64	Rahul Raj	Intern(R&D)
65	Aviral Kishore	Intern(R&D)
66	Aaryak Prasad	Intern(R&D)
67	Abhyuday Upadhyay	Intern(R&D)
68	Varanya Dwivedi	Intern(R&D)
69	Tushar Bhattarai	Intern(R&D)
70	Sohini Joarder	Intern(Content)
71	Vaidehi Gupta	Intern(Content)
72	Sachi Verma	Intern(Content)
73	Sarvagya	Intern(Design)
74	Sanu Verma	Intern(Design)
75	Dipta Talukdar	Intern(Design)
76	Rishit Divyam	Intern(Design)
77	Vineet Kumar Pilani	Intern(Tech)
78	Bhaskar Gupta	Intern(Tech)
79	Ashish Mahapatra	Intern(Tech)
80	Saptaswa Mistri	Intern(Tech)

9.6.1.2. Activities:

- **a. E-Summit:** KIIT E-Summit is E-Cell's annual mega event bringing in number of speakers, investors, incubators, early entrepreneurs, students, corporates, venture capitalists and start-ups from all over the country to one platform sharing their entrepreneur ventures and wisdom and delegates to plunge into a memorable and splendid frenzy of the startup world with competitions with huge cash prizes, number of speaker sessions by CEO's and other top level executives in India.
- **b. Internship Camp:** A 3 Day workshop aimed to develop entrepreneurial aptitude among students by holding events with recognized start-up giants. E-Summit falls under this

- initiative. The Internship Camp facilitates a symbiotic relationship between companies and the students of KIIT University. In this camp we focus on providing the best set of talents to the companies keeping in mind their needs, simultaneously we offer students bag internships in various domains
- **c. Startup Konclave:** KIIT Startup Konclave stands for bringing together people from all around KIIT University and India who are interested in starting their own business and are showcasing their skills and strengths to the world. This will aid in fostering an entrepreneurship temperament and culture among participants as well as their professional development.
- **d. Hult Prize:** The Hult Prize Foundation transforms how young people envision their own possibilities as leaders of change in the world around them. With a US\$1,000,000 global startup prize as its anchor activity, the Hult Prize has brought impact-focused programs, events and training to over a million students globally, creating a pathway for youth everywhere to take action to build a better world. KIIT E-Cell organizes the on-campus round of Hult Prize.
- **e. Entrepreneurship Awareness Camp**: A 3 Day workshop aimed to develop entrepreneurial aptitude among students by holding events with recognized start-up giants. E-Summit falls under this initiative.
- **f.** Community Learning: A 3 Day workshop aimed to develop entrepreneurial aptitude among students by holding events with recognized start-up giants. E-Summit falls under this initiative.
- **g. Bizzand Bytes:** KIIT E-CELL brings you "Bizz &Bytes", a unique hackathon for both tech junkies as well as budding entrepreneurs!
- **h. WOW:** We hope to give a platform to engage with women in the field of technology, raise them as a brand, launch an app, or change jobs by connecting to Women Who Code in the global network through the Women on the Web project
- i. MAKER'S LAB: Our newest initiative is the Maker's Lab. We hope to establish an incubator place for entrepreneurs where they may come and collaborate. We will also provide them with the necessary mentorship, technological support, and resources. This would serve as a platform for the institution to produce successful enterprises in the future.
- **j. CAMPUSPRENEUR:-** We believe that when our talented and motivated people work with us towards the same goal, we can increase our efficiency and influence. Our CAMPUSPRENEUR program aims to achieve the above goals.

9.6.1.3 List of Entrepreneurs:

Sl. No.	Name	Name of Company
1	Divyanshu Shekhar	TyUp
2	Rahul Anand	Eduflick
3	Rajat	Exavaganza
4	Deviprasad Nayak	Fetch Giant
5	Prince Raj	Notescare

6	Sarthak Mishra	Plates
7	Sourav Rout	ReadyGo Cabs
8	Prateek Kunwar	Yoken Online
9	Aman Kumar	PaperMart
10	Biswadeep Sarkar	BrandAd
11	Niket Raj Dwivedi	The Write Order
12	Prince Raj	Ozy Foods
13	Akshat Anurag	TayBill
14	Oismita Mishra	A Bow on Top
15	Sourav Dhal	Adore Beings
16	Vivek Kumar	EduHill Technologies
17	Shubham Saurav	Financialfancier

9.6.2. KIIT-Technology Business Incubator (KIIT-TBI)

KIIT-Technology Business Incubator (KIIT-TBI), recipient of National Award for TBI in 2017 is a not-for-profit incubator established in 2009, as an initiative of KIIT DU, Bhubaneswar and is supported by government bodies like NSTEDB, DST, MeitY, MSME, BIRAC, TDB to boost the entrepreneurial ecosystem in the country.

Today KIIT-TBI is recognized as a "Centre of Excellence in Incubation" awarded by DST, Govt of India. As a Technology Business Incubator, it has been networked with all TBIs in the country through various networks like ISBA through which the organization is networked with AABI (Asia Pacific), European UKBI and US NBIA. It is also a member of the Asia Pacific Incubator Network (APIN). Over the years, KIIT-TBI has been working as an implementing partner of various government sponsored flagship funding and fellowship programs like DST - NIDHI EIR and PRAYAS, DBT BIRAC - Biotechnology Ignition Grant, Boeing India - BUILD Program, DBT BIRAC - Social Innovation Immersion Programme, Invest India - Agriculture Grand Challenge and many more. Recently, KIIT-TBI has been recognized as one of the satellite centers for DST-CAWACH Program and MeitY SASACT Program. The DBT BIRAC has established one of its regional centers (BRTC) at KIIT -TBI to promote the startup ecosystem in east and northeast regions of India and SPARSH center to address the problems of societal relevance through technological solutions. MSME, Govt. of India has established SFURTI Centre at KIIT-TBI to promote cluster development. KIIT-TBI is also identified as the Nodal Incubator to set up Food Testing Lab facility by Startup Odisha. Recently, DBT BIRAC announced to establish one of the Technology Transfer Offices in KIIT-TBI.

KIIT-TBI provides an appropriate platform and environment with a world-class infrastructure of around 120,000 sq. ft. that offers a wide range of incubation facilities and services to the prospective entrepreneurs to convert their innovative ideas into commercially viable products and till date, it has already incubated and mentored 200+ startups and filed 80+ IPs.

KIIT-TBI is incubating startups in the domain of IT and Engineering, Cleantech, Healthcare and Life Sciences, Biotechnology, Agri and Food Tech and other social innovation areas. KIIT-TBI

always holds the door wide open to welcome innovations to grow in to businesses by its stimulating and enterprising ecosystem.

9.6.3 Objectives:

- Create awareness among the students & graduates of the importance of small and medium business houses towards community development.
- Identify potential entrepreneur and nurture and support them to develop independent self-sustaining business.
- To foster linkages between the parent institution, industries and R & D institutions in the region and other related organizations engaged in promoting small and medium enterprises including NGOs & other voluntary organizations.
- To catalyze and promote development of S & T based enterprises and promote employment opportunities.
- To provide a platform for speedy commercialization of the research and technologies developed in the institutes.

9.6.4 Function:

- Build appropriate training programmes suitable for socio economic culture of odisha.
- Identify market niche for technology products and services to be addressed.
- Train the entrepreneurs in technology and business management.
- Offer the professional business development services for the entrepreneurs who have mature concepts for unique and innovative products assessed to have strong commercial viability.
- Provide platform for IPR protection, technology transfer and commercialization facility for the innovators.

9.6.5 Facilities

Sl. No.	Start up life cycle / feature	Ideation	Prototyping	Commercialization
1	Advisory Support	☐ Conducting outreach programs for idea spotting	☐ Providing mentoring: human resources	☐ Conducting training on marketing skills, finance etc.
		☐ Validating viability/potential of various ideas	☐ Assistance in conducting marketing trails: marketing & related ideas	☐ Assistance in developing business growth strategy.
		☐ Providing mentoring support	☐ Developing client entry & exit criteria	☐ Providing recruitment advice.
		☐ Conducting business training program	☐ Conducting training on marketing skills, finance etc	☐ Customized mentor clinics for innovators on IP, Regulatory,

				Business, etc.
		☐ Team Building	☐ Design	☐ Product Piloting
		resource planning	Thinking	& Launch
		resource planning	Workshops	CC Laurion
		☐ Team Building	☐ Buisness Model	☐ Creating fund
		resource planning	Canvas	raising plan &
		Frankling Frankling		building the runway
				the right way.
		☐ Market	☐ Product design	☐ Product Sales
		opportunity Analysis	& Prototyping	strategy
		☐ Competitive	☐ Product	☐ Cost benefits
		Landscape Analysis	Validation	Analysis
Sl	Support Features	FUNDING AGENCIES		,
No.	Support reatures	TONDING AGENCIES		
2	Funding support	The National Science	Technology	Biotechnology
2	runding support	and Technology	Development	Industry Research
		Entrepreneurship	Board, Department	Assistance Council.
		Development Board	of Science &	Assistance Council.
		(NSTEDB)	Technology (DST),	
		(TISTEDE)	GOI.	
		TIDE	MSME	SIDBI
		Technology Incubation	Ministry of Micro	Small Industries
		& Development of	Small & Medium	Development Bank of
		Entrepreneurs Scheme,	Enterprises,	India
		Department of	Government of	
		Electronics &	India.	
		Information	maia.	
		Technology (DeitY).		
		Invest India	Startup Odisha	Meity (Ministry of
			Z W Z W Z W Z W Z W Z W Z W Z W Z W Z W	Electronics &
				Information
				Technology)
		India Health Fund	Public Serving Unit	Social Alpha
		Neotech Hub	Ankur Capital	IDEX
			1	Ministry of Defense,
				Government of India
				00 (0111110111 01 1110111
		HDFC Bank	Design Alpha	Boeing
		Erasmus	Agnii	YES Bank
		Programme of the		
		European Union		
		Department of	CARPEDIEM	India Patent
		International		Foundation
		Development		
		=		

Infrastructure	1) Digital Fabrication lab-PRAYASHALA (Supported By DST)
Support	
	Design & Prototyping lab
	Electronics lab
	Heavy Machinery lab
	2) BioNEST Lab (Supported by DBT BIRAC)
	Cell Culture lab
	Bioprocess lab
	Analytical lab
	Central Instrumentation lab
	3) NIDHI-CoE Digital Health Lab (Supported by DST)
	Analytical Facility, Fablab, Digital Health Lab, Digital Health Lab
	Digital Health Lab
	4) Food Testing Lab (Supported by Startup Odisha)
	Food Testing Facilities
	Water Testing Facilities

9.6.6 The impact of the KIIT TBI

Total Incubation Space 130000 sq.ft. Total IP Genera 170+			Prod Commerc 100	cialised	Total E Investmen 13 Bil	nt Raised	
Total Valuation of start-ups -80 Billion Direct Jobs Created 4500+			Technol Develo 250	pped	Awards & I by sta	rt-ups	
Total Start-up supported 350+		Total Start-ups supported 352		Start-ups O		Stakeholder 150	
Women led start-ups supported 70+		- 1 1	Products in 90			Engaged 10+	

9.6.7 Workshop Conducted by KIIT TBI (2018-2019 to 2021-2022)

Sl. No.	Date	Name of the Event	Resource Person
1	02.08.2021	BIG-19th Call Sensitization Session Series- 01	BIG Team
2	04.08.2021	BIG-19th Call Sensitization Session Series- 02	BIG Team
3	06.08.2021	BIG-19th Call Sensitization Session Series- 03	BIG Team
4	09.08.2021	BIG-19th Call Sensitization Session Series- 04 (Northeast)	BIG Team
5	11.08.2021	BIG-19th Call Sensitization Session Series- 05	BIG Team
6	14.08.2021	BIG-19th Call Sensitization Session Series- 06	BIG Team

	1		
7	17.08.2021	BIG-19th Call Sensitization Session Series- 07	BIG Team
8	18.08.2021	BIG-19th Call Sensitization Session Series- 08	BIG Team
9	20.08.2021	BIG-19th Call Sensitization Session Series- 09	BIG Team
10	23.08.2021	BIG-19th Call Sensitization Session Series- 10	BIG Team
11	24.08.2021	BIG-19th Call Sensitization Session Series- 11	BIG Team
12	26.08.2021	BIG-19th Call Sensitization Session Series- 12	BIG Team
13	28.08.2021	BIG-19th Call Sensitization Session Series- 13	BIG Team
14	30.08.2021	BIG-19th Call Sensitization Session Series- 14 (Northeast)	BIG Team
15	31.08.2021	BIG-19th Call Sensitization Session Series- 15	BIG Team
16	01.09.2021	BIG-19th Call Grant Writing Session Series- 01	BIG Team
17	02.09.2021	BIG-19th Call Grant Writing Session Series- 02	BIG Team
18	03.09.2021	BIG-19th Call Grant Writing Session Series- 03	BIG Team
19	06.09.2021	BIG-19th Call Grant Writing Session Series- 04	BIG Team
20	07.09.2021	BIG-19th Call Grant Writing Session Series- 05	BIG Team
21	08.09.2021	BIG-19th Call Grant Writing Session Series- 06	BIG Team
22	09.09.2021	BIG-19th Call Grant Writing Session Series- 07	BIG Team
23	13.09.2021	BIG-19th Call Grant Writing Session Series- 08	BIG Team
24	14.09.2021	BIG-19th Call Grant Writing Session Series- 09	BIG Team
25	15.09.2021	BIG-19th Call Grant Writing Session Series- 10	BIG Team
26	17.09.2021	360 Degree Overview Biotechnology Ignition Grant (BIG)	BIG Team
	22.09.2021	Capacity building Training program on Innovation and	
27	-	Entrepreneurship	BRTC
	23.09.2021	T T T T T T T T T T T T T T T T T T T	
28	27.09.2021 - 28.09.2021	Capacity building Training program on Innovation and Entrepreneurship	BRTC
29	03.01.2022	BIG-20th Call Sensitization Session Series- 01	BIG Team
30	06.01.2022	BIG-20th Call Sensitization Session Series- 02	BIG Team
31	10.01.2022	BIG-20th Call Sensitization Session Series- 03	BIG Team
32	13.01.2022	BIG-20th Call Sensitization Session Series- 04 (Northeast)	BIG Team
33	17.01.2022	BIG-20th Call Sensitization Session Series- 05	BIG Team
34	19.01.2022	BIG-20th Call Sensitization Session Series- 06	BIG Team
35	21.01.2022	BIG-20th Call Sensitization Session Series- 07	BIG Team
36	24.01.2022	BIG-20th Call Sensitization Session Series- 08	BIG Team
37	27.01.2022	BIG-20th Call Sensitization Session Series- 09	BIG Team
38	29.01.2022	BIG-20th Call Sensitization Session Series- 10	BIG Team
39	02.02.2022	BIG-20th Call Grant Writing Session Series- 01 (Bionest CITAR)	BIG Team
40	02.02.2022	BIG-20th Call Grant Writing Session Series- 02 (AIC-SKU)	BIG Team
41	03.02.2022	BIG-20th Call Grant Writing Session Series- 03 (RiiDL, Somaiya Vidhyavihar)	BIG Team
42	03.02.2022	BIG-20th Call Grant Writing Session Series- 04 (AIC-Nalanda)	BIG Team

43	04.02.2022	BIG-20th Call Grant Writing Session Series- 05 (IIITM-K)	BIG Team
44	04.02.2022	BIG-20th Call Grant Writing Session Series- 06 (AIC-SEED IISER Pune)	BIG Team
45	07.02.2022	360 Degree Overview Biotechnology Ignition Grant (BIG)	BIG Team
46	2-3 March 2022	Capacity building Training program on Innovation and Entrepreneurship	BRTC
47	25-26 March 2022	Capacity building Training program on Innovation and Entrepreneurship	BRTC
48	09.07.2022	BIG-21st Call Sensitization Session Series- 01	BIG Team
93	26.11.2021	Technical Validation & NABL Accreditation	Riya Roy & Ray SaiSoubhagya
94	29.12.2021	Product Compliance	Riya Roy & Ray SaiSoubhagya
95	03.01.2022	Discussion on Required API	Riya Roy & Ray SaiSoubhagya
96	29-12- 2021 - 27.01.2022	BIG-19 Pre-Mentoring Sessions	Aryan Jaiswal
97	17.05.2022 - 4.06.2022	BIG-20 Pre-Mentoring Sessions	Aryan Jaiswal
98	21.05.2022	Tricks of Effective Branding & Social Media Outreach	Riya Roy
99	23.05.2022	SIIP: Building a social Enterprise	Riya Roy
100	26.05.2022	SIIP: Team Building	Riya Roy
101	27.05.2022	SIIP: Idea Validation & Building MVP	Riya Roy
102	30.05.2022	Design Thinking to Choose Need Area & drafting your innovative need Statement	Riya Roy
103	30.05.2022	Environmanetal Impact of agri waste	Riya Roy
104	31.05.2022	Tools for Identifying Value Proposition and USP	Riya Roy
105	31.05.2022	Story Telling	Riya Roy
106	02.06.2022	Market Competitive Landscape Analysis	Riya Roy
107	02.06.2022	Sustainable Business Plan	Riya Roy
108	03.06.2022	Business communication skills for entrepreneurs	Riya Roy
109	06.06.2022	Problem statement canvas for startups	Riya Roy
110	06.06.2022	Essentials for successful Prototyping	Riya Roy
111	07.06.2022	Insights on exixsting innovation in waste related to pharma based companies	Riya Roy
112	07.06.2022	Grassroot level exixsting innovation on waste to value sector	Riya Roy
113	08.06.2022	Existing innovation in agrowaste sector	Riya Roy
114	08.06.2022	Waste to Value: Priority Areas, Ecosystem Partners, Funding landscape	Riya Roy
		Funding landscape	

115	09.06.2022	Waste to Value: Facts, Priority Areas & Government Initiatives	Riya Roy
116	17.05.2022 - 4.06.2022	BIG-20 Pre-Mentoring Sessions	Aryan Jaiswal
117	21.05.2022	Tricks of Effective Branding & Social Media Outreach	Riya Roy
118	23.05.2022	SIIP: Building a social Enterprise	Riya Roy
119	26.05.2022	SIIP: Team Building	Riya Roy
120	27.05.2022	SIIP: Idea Validation & Building MVP	Riya Roy
121	30.05.2022	Design Thinking to Choose Need Area & drafting your innovative need Statement	Riya Roy
122	30.05.2022	Environmanetal Impact of agri waste	Riya Roy
123	31.05.2022	Tools for Identifying Value Proposition and USP	Riya Roy
124	31.05.2022	Story Telling	Riya Roy
125	02.06.2022	Market Competitive Landscape Analysis	Riya Roy
126	02.06.2022	Sustainable Business Plan	Riya Roy
127	03.06.2022	Business communication skills for entrepreneurs	Riya Roy
128	06.06.2022	Problem statement canvas for startups	Riya Roy
129	06.06.2022	Essentials for successful Prototyping	Riya Roy
130	07.06.2022	Insights on exixsting innovation in waste related to pharma based companies	Riya Roy
131	07.06.2022	Grassroot level exixsting innovation on waste to value sector	Riya Roy
132	08.06.2022	Existing innovation in agrowaste sector	Riya Roy
133	08.06.2022	Waste to Value: Priority Areas, Ecosystem Partners, Funding landscape	Riya Roy
134	09.06.2022	Waste to Value: Facts, Priority Areas & Government Initiatives	Riya Roy
135	03.12.2021	Business Model & Business Plan	Riya Roy & Ray SaiSoubhagya
136	13.01.2022	The art to VC negotiation	Riya Roy & Ray SaiSoubhagya
137	14.01.2022	Investor Connect:Social Alpha	Riya Roy & Ray SaiSoubhagya
138	17.01.2022	Funding opportunities for product commercialization	Riya Roy & Ray SaiSoubhagya
139	01.02.2022	Deployment & Market connect for technology-led startups in lifeline sectors like water	Riya Roy & Ray SaiSoubhagya
140	23.03.2022	Session on Technology Development Board , GoI support in funding and product development and commercialization	Riya Roy & Ray SaiSoubhagya

	ı		
141	26.03.2022	Masterclass on Investor Aligned Pitch Deck	Riya Roy & Ray SaiSoubhagya
142	29.03.2022	BIG-Investment :Pitch Perfect	Dr. Bhaskar Das
143	19.11.2021	Intellectual Property Rights	Riya Roy & Ray SaiSoubhagya
144	18.01.2022	Support in IP & Technology Development	Riya Roy & Ray SaiSoubhagya
145	26.02.2022	Intellectual Property & Its Significance in Academia	Dr. Amaresh & Dr. Samuel
146	04.03.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
147	11.03.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
148	20.04.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
149	18.05.2022	IP Formation Workshop	Dr. Bhaskar Das
	19.05.2022	•	
150	27.05.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
151	09.06.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
152	13.06.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
153	22.06.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
154	28.06.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
155	26.07.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
156	27.07.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
157	28.07.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
158	02.08.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
159	03.08.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
160	05.08.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
161	10.08.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
162	26.09.2022	The Role of IP in Biotechnology Innovation @Bootcamp	Dr. Amaresh & Dr. Samuel

163	27.09.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
164	30.09.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
165	13.09.2022 - 14.09.2022	Reasearch to Reality 2.0 (2 days workshop for IP & TT)	Dr. Amaresh & Dr. Samuel
166	30.09.2022	IPR Awareness Program	Dr. Amaresh & Dr. Samuel
167	29.01.2021	Road Show	Riya Roy
168	17.03.2021	Road Show	Riya Roy
169	11.05.2021	Road Show	Riya Roy
170	06.08.2021	Road Show	Riya Roy
171	16.12.2021	TTO Road Show	Dr. Amaresh & Dr. Samuel
172	10.03.2022	TTO Road Show	Dr. Amaresh & Dr. Samuel
175	19.04.2022	TTO Road Show (BOOT CAMP)	Dr. Amaresh & Dr. Samuel
177	20.04.2022	TTO Road Show (BOOT CAMP)	Dr. Amaresh & Dr. Samuel
178	06.07.2022	Road Show	Riya Roy
179	15.07.2022	Road Show	Riya Roy
180	30.07.2022	Road Show	Riya Roy

9.6.8 List of Entrepreneurs

Name of Entrepreneur	Company Name/PI name	Project details
Mr. Sambit Tripathy	Workoff Industries Pvt. Ltd.	Agropac- converting crop residues (corncob, corn stalk, rice husk, rice straw) into self binding natural fiber through mechanical process.
Mr. Surjeet Singh Gour	IVEYS Innovation Pvt Ltd	Automation of Wielding Machines
Mr. Pritam Dhalla	Larkai Innovations Pvt Ltd	CardioTrack - A handheld cardiac abnormalities screening device based on acoustics
Mr. Sudipta Pathak	Shyama Projection Engineering And Research	3-AXIS STABILIZED BIPOD MOUNT
Dr. Ashok Badamali	INOFINITY RESEARCH AND DEVELOPMENT PRIVATE LIMITED	SANJIVANI: Compression Only Life Support (COLS) Assist Gadget for Community use
Dr. Kanika Singh Dhull	K First Biotech Pvt. Ltd.	A Impregnated Disposable Baby Tooth Cleaning and Gum Massaging Device
Dr. Nivedita Sahoo	RN Biomedical Pvt Ltd	Cranio-mandibular Brace: A novel device for Myo-facial Pain Dysfunction Syndrome (MPDS)
Mr. Prithwiraj Dasgupta	VENOM PLASMA LLP	VENOM - our Air De-Toxifier provides Bio- Oxygen Plasma.
Mr. Rudra Prasad Das	Orassia Biotechnology Private Limited	Probiotics from millets

Mr. Shikha Singh	The project is to make low-cost temporary
	utensils using plant leaves.

9.7 Co-curricular and Extra-curricular Activities (10)

(The institution may specify the co-curricular and extra-curricular activities) (Quantify activities such as NCC, NSS etc.)

9.7.1 Introduction

The Institute has a fully functional nominated students' Council i.e. KIIT Student Activity Centre that aims to bring all the students of the Institute under one roof with the objective of establishing a common ground for extracurricular activities as well as providing a platform for sharing talent, culture, and innovative ideas. In addition to that, KIIT Student Activity Centre organizes a handful of events comprising different genres such as delegation, workshops, cultural, etc which help students working as Organizers to develop interpersonal skills such as leadership, positive attitude, relationship management, and team management. In addition to this, KIIT has KIIT NSS, KIIT NCC, KIIT Youth Red Cross. Brief details of each society along with activity details are given

9.7.2 KIIT NSS Bureau

NSS trains the body and mind of young men and women to rise to help others in distress, voluntarily, without being asked or without a personal motive.

- Programme Coordinator 1
- Units of NSS 35
- Programme Officers 20
- NSS Volunteers 1750



Clothes Distribution



Sanitary Napkin Distribution



World Cancer Day During COVID 19



Addhyayan (Teaching in Slum Area)



Jal Diwas



Animal Care (Food Donation Drive)

Fig. 9.7.2.1: Snapshots of NSS activities

9.7.2.1 List of Events conducted by KIIT NSS (2018-2019)

Sl. No.	Date	Activity
1	8/1/2019	Founder's Cup Debate
2	23/03/2019	Tata cracable campus quiz
3	1/4/2019	Pratijja (National level oratory competition)
4	28/08/2018	Sweden India Memorial Quiz
5	1/10/2018	Sweden India Memorial Quiz

6	23/10/2018	KIIT MUN
7	26/01/2018	Observation of Republic Day
8	2/2/2019	KIIT TEDX Event
9	16/02/2019	Foundation Day
10	8/3/2019	Observation of International Women's Day
11	19/03/2019	Observation of International Student's Day
12	1/4/2019	Observation of Utkal Divas
13	8/4/2019	Observation of Telugu New Year
14	14/04/2019	Observation of Regional New Year
15	17/05/2019	Observation of International Art of Giving Day
16	21/06/2019	Observation of International Yoga Day
17	1/7/2018	Iftar Party Celebration
18	15/07/2018	Observation of World Youth Skill Day
19	5/8/2018	Suhana Safar Event
20	15/08/2018	Observation of Independence Day
21	19/08/2018	Fest on Global Village
22	25/08/2018	Observation of Onam
23	5/9/2018	Observation of Teacher's Day
24	14/9/2018	Observation of Hindi Divas
25	21/9/2018	Observation of International Peace Day
26	24/9/2018	Observation of NSS Day
27	18/9/2018 to 30/9/2018	KIIT International MUN
28	12/10/2018 to 14/10/2018	Kritarth Event
29	09/11/2018 to 11/11/2018	Chimera Event
30	14/11/2018	Observation of Children's Day
31	1/12/2018	Observation of World Aids Day
32	3/12/2018	Differently able Day Celebration
33	13/12/2018 to 16/12/2018	KIIT Fest
34	25/12/2018	Christmas Day Celebration
35	26/12/2018	Grand Alumni Meet

9.7.2.2 List of Events conducted by KIIT NSS (2019-2020)

Sl. No.	Date	Activity
1	13/01/2019	Swachhata Pakhwada
2	9/1/2019	Swachh Bharat Abhiyan
3	10/2/2019	Sarva Shiksha Abhiyan
4	24/02/2019	Swachh Bharat Mission
5	10/3/2019	Program on Eat Right India
6	26/03/2019	Awareness Program on Prevention of Alcoholism and Substance
U		(Drug) Abuse
7	4/4/2019	Swachh Bharat Abhiyan
8	19/04/ 2019	Anti-drug addiction drive
9	27/04/ 2019	Cancer awareness program
10	04/05/ 2019	NukkadNaatak – women's empowerment
11	20/05/2019	Jal Sakti Abhiyan
12	31/05/2019	Swachh Bharat Abhiyan
13	11/6/2019	Green India mission
14	25/06/2019	Daan Seva
15	7/7/2019	Prashanti Vihar School Visit
16	10/7/2019	Swachh Bharat Village Visit at Padmakesharipur
17	13/07/2019	Mega Plantation Utsav

9.7.2.3 List of Events conducted by KIIT NSS (2020-2021)

Sl. No.	Date	Activity
1	11/1/2020	Swachhata Pakhwada
2	18/01/2020	Cyclothon
3	19/01/2020	Personal Health and Hygiene Drive (Barang village)
4	23/01/2020	NSS: Nukkad Natak
5	23/01/2020	Nukkad Natak at Sri Sri University
6	23/01/2020	Nukkad Natak at KIIT Campus 3
7	26/01/2020	Silent March KIIT campus and KIIT road
8	26/01/2020	Happiness concert
9	26/01/2020	Kaizer 2.0 Event
10	26/01/2020	Observation of Republic Day 2020
11	30/01/2020	Talk Show
12	1/2/2020	Traffic Awareness (KIIT Chowk)
13	1/2/2020	Awareness about Corona Virus and Bird Flu (Shikharchandi slums)
14	1/2/2020	Prashanti Vihar School
15	01/02/2020	Shri Krishna Old Age Home Visit
16	1/2/2020	Army Day Celebration with 120 Infantry Battalion(TA), Bihar
17	2/2/2020	Manna Wisdom School Visit
18	08/02/2020	Nandankanan Cleanliness Drive

9.7.2.4 List of Events conducted by KIIT NSS (2021-2022)

Sl. No.	Date	Activity	
1	20/2/2021	Awareness Program on First Aid In Emergencies; Saftey Measures	
1	20/2/2021	To Prevent Home Accidents	
2	20/2/2021	Awareness Campaign On Basic Hygiene And Sanitation At	
2	20/2/2021	Tangibanta Village	
3	8/3/2021	International Women's Day Celebration	
4	14/3/2021	Plantation Drive	
5	24/3/2021	Awareness Programme: "Violence Against Women"	
6	13/4/2021	Awareness Program: Tika Utsav	
7	14/4/2021	Tika Utsav (Distribution Of Masks And Motivating Eligible People	
/	14/4/2021	To Get Vaccinated)	
8	24/05/2021 to	Observation of World No Tobacco Day	
O	31/05/2021	-	
9	31/05/2021	Bharat Ka Amrut Mahotsav	
10	5/6/2021	Environment Day Celebration	
11	6/06/2021	Webinar On Summer Diet And Covid	
12	12/6/2021	World Day Against Child Labour	
13	14/06/2021	Blood Donors Celebration	
14	21/06/2021	Observation of International Day Of Yoga	
15	25/06/2021	National Symposium On 'Bharat Ka Amrut Mahotsav'	
16	17/7/2021	Bharatka Amrut Mahotsav	
17	23/07/2021	Tokyo Olympics # Cheer For India Campaign	
18	26/07/2021	Kargil Vijay Diwas 2021	
19	1/8/2021	Swachhta Pakhwada Celebration	
20	4/8/2021	Plantation Drive	
21	5/8/2021	Observation of Oral Hygiene Day	
22	05/08/2021	World Breastfeeding Week 2021	

23	8/8/2021	Delta Covid Variant		
24	15/8/2021	Swacchhta Pakhwada		
25	15/8/2021	Observation of Independence Day		
26	16/8/2021	Spreading Awareness To Villages Of Bhubaneswar And Similipal		
27	19/8/2021	Observation of World Humanitarian Day		
28	26/8/2021	Women's Equality Celebration		
29	16/09/2021	Rashtriya Poshan Maah 2021		
30	16/09/2021	NSS Week-2021		
31	18/09/2021	Vitamin Vs Covid 19 Awareness		
32	20/09/2021	KINS & KIDS NSS Celebrate NSS Week-2021		
33	11/10/2021	Observation of International Girl Child Day 2021		
34	21/10/2021	International Cyber Security Awareness Month		
35	30/10/2021	Observation of National Unity Day		
36	24/10/2021to	Waste Management Week		
30	30/10/2021	waste Management week		
37	1/11/2021	Awareness On Malnutrition		
38	02/11/21 to	Campaign on Vocal For Local		
	03/11/21	2 0		
39	8/11/2021	Kids' Canvas: An Art Competition For Children		
40	14/11/21	Children's Day Event		
41	22/11/21	Cyber Security Awareness Month Pledge		
42	26/11/21	Constitution Day Pledge: NSS SoEE		
43	28/11/2021	Plogging		
44	30/11/2021	Kangaroo Mother Care		
45	7/12/2021	World Aids Day 2021 Kids Organizes Health Education Programme		
46	11/12/2021	School Health Program		

9.7.3 NCC Activities

NCC trains students to stay disciplined and united in all the tasks they undertake.

- Army Wing
- NCC Cadet Strength- 50
- 2 Certificate Programmes in NCC : B & C



Youth Exchange Program



Republic Day Camp



NSS Cadet received golden medal from Hon'ble Prime Minister



World Cancer Day During COVID 19



Republic Day Celebration



Republic Day Parade

Fig. 9.7.3.1: Snapshots of NCC activities

9.7.3.1 List of Programme conducted by KIIT NCC

		•		
Sl. NO	YEAR	NAME OF THE CADETS	RDC/SNIP/AMC/BMC/AAC	(Youth Exchange Programme)
			2018-19	
1	2018-19	SUO Debajit Datta	RDC-2018,New Delhi	Kazakhstan(May- 18)
2	2018-19	SUO Koyal Chattopadhyay	RDC-2018,New Delhi	Sri Lanka(Oct- 18)
3	2018-19	SUO Prasanta Jaiswal	RDC-2018,New Delhi	Kazakhstan(May- 18)
4	2018-19	SUO Avantika	RDC-2018,New Delhi	Singapore(Nov- 18)
5	2018-19	SUO Siddharth Singh	RDC-2018,New Delhi	Russia(Oct-18)
6	2018-19	SUO Ananya Shahi	RDC-2018,New Delhi	-

7	2018-19	SER Lakshya Arya	SNIC-2018,Port Blair	-
			i)AMC, Uttarkashi-2017	
			ii)BMC, Darjeeling-2016	
8	2018-19	CDT Yaashi Jain	iii)Mt Everest Base Camp trek- 2017	
			iv) Mt. Jogin III peak summit- 2018	
9	2018-19	JUO Abhishek Rai	Army attachment Camp, Ramgarh	-
10	2018-19	CDT Gaurav Sahoo	Para Basic Course, Agra	Agra(Sept-18)
		,	2019-20	
1	2019-20	SUO Adil Ahmad	RDC-2019,New Delhi	Kazakhstan(May- 18)
2	2019-20	SUO Ashutosh Barik	RDC-2019,New Delhi	
3	2019-20	SUO Himansu Basanta Choudhary	RDC-2019,New Delhi	Bhutan(Dec-19)
		,	2020-21	
1	2020-21	SUO Debamalya Gupta	RDC-2020,New Delhi	Cancelled due to Covid-19
2	2020-21	SUO Ameet Singh Manyal	RDC-2020,New Delhi	
3	2020-21	SUO Anikate Sharma	RDC-2020,New Delhi	
4	2020-21	SUO Adityaa Acharya	RDC-2020,New Delhi	
5	2020-21	SUO Divya Singh	RDC-2020,New Delhi	
	1	,	2021-22	
1	2021-22	SUO Akash Kumar Nayak	RDC-2021,New Delhi	Cancelled due to Covid-19
2	2021-22	JUO Neelashis Banerjee	RDC-2021,New Delhi	
3	2021-22	JUO Barnali Bera	RDC-2021,New Delhi	
4	2021-22	JUO Abhishek Bhardwaj	Army attachment Camp, Ramgarh,JH	
5	2021-22	JUO Akash Chand	Army attachment Camp, Ramgarh,JH	

4	2021-22	JUO Ashutosh Kumar	JUO Ashutosh Kumar Army attachment Camp, Ramgarh,JH	
		2	022-2023	
1	2022- 2023	CDT. Diksha Singh	RDC-2022, New Delhi	Nominated for YEP
2	2022- 2023	CDT.Sumedha Tiwari	Made in OTA Chennai (NCC batch 2017-2020)	
3	2022- 2023	CDT. Shivani Tiwari	Made in OTA Chennai (NCC batch 2017-2020)	

9.7.4 Red Cross and Rotaract Club

The Red Cross and Rotaract Club have the spirit of NSS with a global vision and local or crossborder volunteering work. These forums help in developing the students' empathy and appreciation for other people's need and also to show consideration towards other living beings which in turn could help them contribute towards society. The volunteers work for a cause not for applause. However the volunteers are recognized and motivated at different levels. Also, it gives students an opportunity to apply and if selected partake in Youth Delegations visiting different countries.

9.7.5 KIIT Student Activity Centre

The University has 28 student societies at the University level. Detail are available at: https://ksac.kiit.ac.in/kiit-societies/. Different schools also have their individual student societies as in School of Management has Marketing Club, Finance Club, Entrepreneurship Club, snergy Club, Optix (Operations, IT Club), Bookhive, Aequitas (Sports club) etc. and School of Law has IPR society, Moot Court Society, Legal Aid Society and Trial advocacy society etc.

9.7.5.1 Societies under KSAC:

□ Cultural: KORUS (Music & Dance Society), Kreative Eye (Photography & Painting Society), Kzarshion (Fashion Society), Kalakaar (Dramatic Society), Film Society, Keuring (The Cooking Society), Khetshan (International Students Society), K-Konnect (Society for Alumni Connect), Khwahishein (The Hindi Society), Kamakshi (Women Society)
□ Technical/ professional: E-labs, Apogeio (Aeronautical Society), KRS (Robotic Society), Automobile Society, Society for Civil Engineers, Kimaya- Medical Society, IoT society, IET student chapter, IEEE Student chapter, CSI Student Chapter, Konnexions (Web & IT Society), and Entrepreneurship Cell
☐ Academic: Qutopia (The Quizzing Society), Kraya- Marketing Society, Kuber- Finance Society, KIIT Wordsmith (The Writing Society), and Kronice (Literary Society)
□ Social : Spiritual Society, TEDX Society, Khwaab (Society on philosophy of Founder Dr. A. Samanta), Kartavya (Social Responsibility Cell), Karma (Differently abled Society), MUN Society (Model United Nation Society), NSS, NCC and Red cross society.

CRITERION 10	Governance, Institutional Support and Financial Resources	120
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10.1 Organization, Governance and Transparency (55)

10.1.1 State the Vision and Mission of the Institute (5)

(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations)

Vision of the Institution:

To create an advanced centre of professional learning of international standing where pursuit of knowledge and excellence shall reign supreme, unfettered by the barriers of nationality, language, cultural plurality and religion.

Mission of the Institution:

- Imparting quality value based education of international standard and imbibing skill for solving real life problems.
- Inculcating global perspective in attitude.
- Creating leadership qualities with futuristic vision.
- Fostering spirit of entrepreneurship and realisation of societal responsibilities.
- Cultivating adaptation of ethics, morality and healthy practices in professional life.
- Instilling habit of continual learning.
- Encouraging and supporting creative abilities and research temperament.
- Establishing and promoting close interaction with industries and other utility sectors and keep abreast with state-of-the-art technology.

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

A. Teaching-Learning Environment

Parameter	Present Status	Target at 10 years	Target at 15 years	Implementation	Monitoring
Faculty to Student Ratio	1:13	1:10	1:08	 Recruitment of international faculty Recruitment of faculty with qualifications acquired at top ranked universities Retention policy incorporating schemes to ensure better life 	Review by IQAC in every year
Doctorate- to- bachelor's ratio	1:30	1:15	1:10	 Starting Doctoral programs in inter-disciplinary area Starting Doctoral programs for persons experienced in industry/administration/social sectors Admitting more students in Ph.D. Programs, Scholarship policy to benefit more students 	Review by IQAC in every year

B. Research (Volume, Income, Reputation)

Parameters	Present Status	_	Target at 15 years	Implementation	Monitoring
Indexed publication	1.25	2.5	4	· Sustained motivation and institution of attractive research	Review by IQAC in every six months.

per faculty per year				recognition system · Financial award for faculty with average 5 publications per year	Brief report is submitted to Registrar
Average cite score in Scopus indexed journals	2.73	4	6	 Engagement in high end research Engagement in collaborative research Selection of journals in which publications are to be encouraged 	Review by IQAC in every six months.
Citations per publication	2.33	5	10	Emphasis on Content factor Involvement of research group member	Review by IQAC in every six months.
Number of patents	338	2300	3000	 Workshops are being conducted on patent filing by KIIT TBI and KIIT TEC Technical support, legal support and financial support is provided by the institutions for patent filing 	Review by Director, R&D and IQAC in every six months

C. International Outlook (Staff, Students and Research)

Parameters	Present Status	Target at 10 years	Target at 15 years	Implementation	Monitoring
International to domestic student ratio	1:20	1:15	1:10	Float of academic programs to attract international students Strengthening amenities to cater to the international student needs	Review by Registrar in every six months.
International to domestic staff ratio				Recruitment Planning	Review by Registrar once in every year
International collaboration	Number of MoU: 284 Effective usage of 90	Additional 150 MoUs with Universities/or ganisation and effectiveness thereof	Additional 200 MoUs with Universities and effectiveness thereof	Faculty are inspired to carryout joint research and visit to top Universities as pdf. Guest faculty base expansion	Review by Vice Chancellor once in every year
Proportion of faculty presenting research paper abroad	3%	25%	75%	 Enhancing grant to travel Strengthening faculty exchange programs Strengthening effectiveness of MoUs 	Review by IQAC in every six months.

D. Industry and Academia Collaboration

Paramet er	Present Status	Target at 10 years	Target at 15 years	Implementation	Monitoring
Number of MoUs	 Number of MoU: 467; Effective usage of 300 	MoUs with 550 Universities/ organisations and effectiveness thereof	MoUs with 600 Universities/ organisations and effectiveness thereof	Faculty are inspired collaborate with industry for research, consultancy, projects, internship.	Review by Vice Chancellor once in every

E. Institutional Income from Research and Consultancy

Parameter	Present Status	Target at 10 years	Target at 15 years	Implementation	Monitoring
Institutional Income from Consultancy and Research	1%	10%	15%	 Selection of industry specific research objectives Funded Programs Industry Oriented Programs Reskilling programs for industry professionals Consultancy Services 	Reviewed by Registrar once in every six months

10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed.

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

The details of governing bodies of KIIT DU is given below.

10.1.3.1 Details of Governing bodies

Governing Body			
	Memberships	List is attached (Cl. 10.1.3.2)	
Doord of Management	Functions and Responsibilities	Descriptions given (Cl. 10.1.3.2 A)	
Board of Management	Frequency of meetings	4 times in a year	
	Attendance	99%	
	Memberships	List is attached (Table 10.1.3.3)	
Academic Council	Functions and Responsibilities	Descriptions given (Section 10.1.3.3 A)	
Academic Council	Frequency of meetings	95%	
	Attendance	5 times in a year	
Finance Committee	Memberships	List is attached (Table 10.1.3.4)	
	Functions and Responsibilities	Descriptions given (Section 10.1.3.4 A)	

Frequency of meetings	3 times in a year
Attendance	99%

10.1.3.2: Members of Board of Management

Sl. No.	Constitution of the Board	Name of the Members
1.	Vice-Chancellor-Chairperson	Prof. Sasmita Samanta
2.	Eminent Academicians	Prof.(Dr.) M. C. Mishra,
	(External)	Emeritus Professor, J P N Apex Trauma Centre, AIIMS, New
		Delhi
		Prof. Saswat Chakraborty,
		Professor, G. S. Sanyal School of Technology
		Prof. (Dr.) Shankar Acharya,
		Sr. Consultant, Sri Gangaram Hospital, Delhi
3.	Two Deans/ Directors of	Prof. Saroj Kumar Mohapatra,
	Faculties	Director, School of Management
		Prof. Biswajit Sahoo,
		Director, School of Computer Engineering
5.		Maj. Gen. (Dr.) P. K. Pattnaik,
	Two teachers of the Institution	Director General, KIMS
		Prof. Mrutyunjay Suar,
		Director General, R& D
6.	Nominee of the Sponsoring	Mr. S. Samir Panda,
	Society	Vice President, Corporate Relations
		Mr. D. N. Diwedy,
		Vice President, IT & Operations
7.	Registrar - Secretary	Prof. J. R. Mohanty, Registrar

10.1.3.2 A: Functions and Responsibilities of the Board of Management

The Board of Management shall be the principal organ of Management and principal executive body of the Deemed to be University and shall have the following powers, namely:

- To establish, on the advice of the Academic Council, Divisions and Departments for the academic work and functions of the Deemed to be University and to allocate areas of study, teaching and research to them;
- To create teaching and academic posts, to determine the number, cadres and qualifications thereof as approved by the Commission, and statutory body concerned and the emoluments of such posts in consultation with the Finance Committee;
- To appoint such Professors, Associate Professors, Assistant Professors and other academic staff as may be necessary on the recommendation of the selection Committee;
- To lay down the duties and conditions of service of the Professors, Associate Professors and Assistant Professors and other academic staff of the Deemed to be University in consultation with the Academic Council;

- o To provide for appointment of Visiting fellows and Visiting Professors;
- To create administrative, ministerial and other necessary posts in terms of the cadres laid down and to make appointment thereof in consultation with the Finance Committee;
- To constitute, for the benefit of the teaching, academic, technical, administrative and other staff, such
 pension, insurance, provident fund and gratuity as it may deem fit and aid in the establishment and
 support of Association, Institutions, Funds, Trusts and conveyances calculated to benefit the staff and
 the students of the Deemed to be University;
- To regulate and enforce discipline among the employees of the Deemed to be University and to take appropriate disciplinary action, wherever necessary;
- To entertain and adjudicate upon and, if thought fit, to redress the grievances of the employees and students of the Deemed to be University;
- To grant leave of absence to the Vice-Chancellor and to make necessary arrangements for carrying on his/her functions during the period of absence;
- To approve the award of Degrees and diplomas based on the results of examinations and tests and to confer, grant or award Degrees, Diplomas, Certificates and other academic titles and distinctions;
- To fix the emoluments and traveling and other allowances of examiners, moderators, tabulators and such other personnel appointed for examinations in consultation with the Academic Council and the Finance Committee;
- To institute Fellowships, including Travel Fellowships, Scholarships, Studentships, Medals and Prizes
 in accordance with the Rules to be framed for the purpose;
- To advise the Holding Trustees (if any) on matters regarding acquisition, management and disposal of any immovable property on behalf of the Deemed to be University;
- To purchase, take on lease or accept as gift or otherwise any land or buildings or works which may be
 necessary or convenient for the purpose of the Deemed to be University, on such terms and conditions
 as it may deem fit and proper, and to construct or alter and maintain any such building(s) or work(s);
- O To transfer or accept transfers of any movable property on behalf of the Deemed to be University, provided that the Board of Management shall not transfer or alter ownership in any manner whatsoever of any moveable or immoveable property of the Institution Deemed to be University without the approval of the sponsoring Society / Trust / Company.
- To execute in consultation with the Holding Trustees (if any) conveyance, transfer Government Securities, re-conveyances, mortgages, leases, bonds, licenses and agreements in respect of property, movable or immovable, belonging to the Deemed to be University or to be acquired for the purposes of the Deemed to be University;
- To issue appeals for funds for carrying out the objectives of the Deemed to be University and, consistent with the provisions of the objectives, to receive grants, donations, contributions, gifts, prizes, scholarship, fees and other moneys, to give grants and donations, to award prizes, scholarships, etc.;

- To raise and borrow in consultation with the Holding Trustee (if any) money on bonds, mortgages, promissory notes or other obligations or securities founded or based on any of the properties and assets of the Deemed to be University, or without any securities, upon such terms and conditions as it may think fit and to pay out of the funds of the Deemed to be University, all expenses incidental to the raising of money and to repay and redeem the money borrowed;
- To draw and accept and make and endorse discount and negotiate Government of India's and other promissory notes, bills of exchange, cheques or other negotiable instruments;
- o To maintain a fund to which shall be credited:
- o All moneys provided by the Central or State / UT Government / University Grants Commission;
- o All fees and other charges received by the Deemed to be University;
- All money received by the Deemed to be University as grants, gifts, donations, benefactions, bequest or transfers and
- o All money received by the Deemed to be University in any other manner or from any other source;
- To open account or accounts of the Deemed to be University with anyone or more scheduled banks and to lay down the procedure for operating the same;
- To deposit all moneys credited to the funds in scheduled banks or to invest them in consultation with the Finance Committee;
- To invest the funds of the Deemed to be University or money entrusted to the Deemed to be University
 in or upon such securities and in such manner as it may deem fit and from time to time transpose any
 investment;
- To maintain proper accounts and other relevant records and prepare Annual Statements of Accounts, including the balance sheet for every previous financial year, in such form as may be prescribed by the Regulations / Bye-Laws;
- To manage, regulate and administer the revenue, the finance, accounts, investments, properties, business and all other administrative affairs of the Deemed to be University and for that purpose to appoint such agent or agents as it may deem fit;
- o To provide building or buildings, premises, furniture, fittings, equipments, appliances and other facilities required for carrying on the work of the Deemed to be University;
- To establish, maintain and manage residencies for faculty and staff and hostels for the students of the
 Deemed to be University;
- To recognize and maintain control and supervision on hostels owned and managed by other agencies for the students of the Deemed to be University and to rescind such recognition;
- To appoint such committees for such purpose and with such powers as the Board of Management may think fit and to co-opt such persons on these Committees as it thinks fit;
- To appoint in order to execute an instrument or transact any business of the Deemed to be University,
 any person as attorney of the Deemed to be University with such powers as it may deem fit.

- o To appoint Auditor(s) for the ensuing year;
- To select an emblem and to have a common seal for the Deemed to be University and to provide for the custody and use of such seal;
- To delegate all or any of its powers to any Committee or sub- Committee constituted by it or the Vice-Chancellor of the Deemed to be University or any other person;
- To conduct all administrative affairs of the Deemed to be University not otherwise specifically provided for;
- o To take all necessary decisions for the smooth and efficient functioning of the Deemed to be University.

10.1.3.3: Members of Academic Council

Sl. No	Name	Designation	
1.	Prof. Sasmita Samanta,	Chairperson	
1.	Vice Chancellor	Champerson	
2.	Prof. Faizan Mustafa,		
2.	Vice Chancellor, Nalsar, Hyderabad		
3.	Prof. Amol A Gokhale,		
3.	Professor, IIT Mumbai	External Member as Educationist	
4.	Dr. Sanghamitra Pati,	nominated by Vice Chancellor	
4.	Director, ICMR		
5.	Dr. Bhimaraya Metri,		
٥.	Director, IIM Nagpur		
6.	Mr. M. Sasikumar,		
0.	Executive Director, C – DAC, Mumbai		
7.	Mr. Indrajit Sanyal,		
7.	Head – Ericsson Global India, Kolkata		
8.	Mr. Amit Sharma,	External Member as from other field	
0.	VP & Head HR, Volvo Group India, Bangalore	nominated by Vice Chancellor	
9.	Mr. Suraj Chettri,	nonmated by vice chancenor	
<i>)</i> .	Head – HR, Airbus Group India, Bangalore		
10.	Mr. Kumar Amarendra Narayan Singh,		
	Director, KPMG		
11.	Mr. Sambit Sahu, Vice President, IoT Group		
12.	Prof. Sudarsan Nanda	Research Head	
13.	Prof. Mrutyunjay Suar	Director General, R & D	
14.	Prof. Gopal C. Kundu	Director, R&D	
15.	Prof. Damodar Suar	Chairman, Social Science Research	
16.	Prof. Asish Kumar Sen	UG Chairman	
17.	Dr. Santosh Kumar Pani	Controller of Examinations	
18.	Dr.Ambika Prasad Mohanty		
10.	Principal, Kalinga Institute of Medical Sciences		
19.	Prof. Saranjit Singh		
19.	Director, IEC		
20.	Prof. Saroj Kumar Mohapatra,	Deans of the Schools / Head of the	
20.	Director, School of Management	Departments	
21.	Prof. Nishit Parida,		
21.	Director, School of Rural Management	_	
22.	Prof. Veena Goswami,		
22.	Director, School of Computer Applications		

	Prof. Bhavani Prasad Panda,	
23.	· · · · · · · · · · · · · · · · · · ·	
	Director, School of Law	-
24.	Prof. Soumyendu Shankar Ray	
	Director General, School of Architecture Mr. Himansu Sekhar Khatua	-
25.		
	Director General, KSFT	-
26.	Prof(Dr) Sudhir Kumar Satpathy,	
	Director, School of Public Health	-
27	Prof. Jayanta Kumar Parida,	
27.	Director, School of Social, Financial & Human	
	Sciences Prof. Pignosit Salage	-
28.	Prof. Biswajit Sahoo,	
	Director General, School of Computer Engg.	-
29.	Prof. (Dr.) Beerendra Pandey,	
	Dean, School of Language Prof. Prasant Rath,	-
30.	· · · · · · · · · · · · · · · · · · ·	
	Dean, School of Applied Sciences	-
31.	Prof. Satya Narayan Mishra	
	Dean, School of Management	-
32.	Prof. Sanjib Moulick, Dean, School of Civil Engg	
	Prof. Byamakesh Nayak,	-
33.	Dean, School of Electrical Engg	
	Prof. Bharat Chandra Routra,	-
34.	Dean, School of Mechanical Engineering	
	Prof. Suprava Patnaik,	-
35.	Dean, School of Electronics Engg	
	Dr. Srinivas Patnaik,	+
36.	Dean, School of Biotechnology	
	Prof. Biswa Bandita Kar,	1
37.	Dean, School Of Yoga	
	Prof. P. K. J. Mohapatra,	1
38.	Head, Department of Public Policy	
20	Dr. Aswini Kar	1
39.	Principal, KIDS	
	Prof. Niyati Das,	1
40.	Principal, KINS	
	Academic Head	1
41.	KISS	
	Prof. Nirmal Kumar Rout	
42.	Professor & Director (SRC)	
	School of Electronics Engineering	Professors
12	Prof. Pradip Kumar Sarkar	1
43.	Professor, School of Law	
44.	Prof. Koustubh Kanti Ray,	
44.	Professor, School of Management	
45.	Prof. Arun Kumar Ray,	
43.	Director, Academics	
46.	Prof. Ashok Kumar Sahoo,	
40.	Director, R & D (Technology)	
47.	Prof. Chinmay Kumar Panigrahi,	
	Director, QA Cell	
48.	Prof. Samaresh Mishra,	

Direc	tor, Student Affairs	
Prof	Benu Gopal Mohapatra,	
/10	tor, Consultancy Services	
	Suresh Chandra Satapathy,	
	* · · · · · · · · · · · · · · · · · · ·	
	ssor & Dean, R&D,	
	ol of Computer Engineering	
	ramod Kumar Das,	
	ssor, School of Applied Science	
	am Chandra Das,	
	ssor, Dept of Psychiatry,	
	Principal, KIMS	
7 4	hruti Vishal Dev,	
Profe	ssor, KIDS	
34	rishna Padarabinda Tripathy	
Depa	rtment of General Medicine, KIMS	
22	maresh Mishra,	
Depa	rtment of General Surgery, KIMS	
	abi Kant Samantaray,	
Depa	rtment of ENT, KIMS	
	ayanidhi Meher,	
Depa	rtment of Endocrinology, KIMS	
58. Dr. T	ribikram Mohanty,	
School	ol of Civil Engineering	
	nita Pati,	
59. Dean	International Students Relations,	
School	ol of Applied Science	
60. Dr. A	rindam Deb,	
School	ol of Electronics Engineering	
1 61 1	isakha Raina,	
School	ol of Biotechnology	Associate Professors
	rup Abhinaa Acharya,	
Dean	School of Computer Engineering	
63. Dr. A	mulya Ratna Swain,	
Dear	, School of Computer Engineering	
64. Dr. B	habani Shankar Prasad Mishra,	
Dean	School of Computer Engineering	
65	ebashis Mishra,	
Depa	rtment of Orthopedics, KIMS	
hh l	antosh Das,	
Depa	rtment of Neurology, KIMS	
	Tanmoy Roy Chaudhury,	Assistant Professors
School	ol of Electrical Engineering	Assistant 1 foressors
	Rishi Khanna,	
School	ol of Electronics Engineering	
69. Dr. S	anket Nayak	
70. Ms. N	Vidhi Singh	Alumni
71. Mr. D	Pipankan Bandopadhyay	
72. Ms. E	3. Swetali Subudhi	
,,	5. Swetan Subudin	Ctudant
	Zikshita Patni	Student
73. Ms. Z		Student Member Secretary

10.1.3.3 A: Functions and Responsibilities of the Academic Council

The Academic Council shall have the following powers and duties, namely

- i. To consider matters of academic interest either on its own initiative or at the instance of the Board of Management or those proposed by the departments/ faculties and to take proper action thereon,
- ii. To exercise general supervision over the academic work of the Deemed to be University and to give direction regarding methods of instruction, evaluation, and improvements in academic standards;
- iii. To promote research within the Deemed to be University, acquire reports on such researches from time to time;
- iv. To prescribe courses of study leading to degrees and diplomas of the Deemed to be University;
- v. To make arrangements for the conduct of examinations in conformity it with the Bye-Laws;
- vi. To appoint examiners, moderators, tabulators and such other personnel for different examinations;
- vii. To maintain proper standards of the examinations;
- viii. To recognize diplomas and degrees of universities and other Institutions and to determine equivalence with the diplomas and degrees of the Deemed to be University;
- ix. To suggest measures for departmental co-ordination;
- x. To make recommendations to the Board of Management on:
 - a) measures for improvement of standards of teaching research and training;
- b) institution of Fellowships, Travel Fellowships, Scholarships, Medals, Prizes etc.;
- c) to recommend to the Board of Management, the establishment or abolition of departments/centres; and
- d) To frame rules covering the academic functioning of the Deemed to be University, admissions, examinations, award of fellowships and studentships, free-ships, concessions, attendance, discipline, residence etc.
- e) To appoint sub-committees to advise on such specific matters as may be referred to it by the Board of Management;
- f) To consider the recommendations of the sub-committees and to take such action as the circumstances of each case may require;
- g) To take periodical review of the activities of the Departments/Centres and to take appropriate action with a view to maintaining and improving standards of instruction;
- h) To recommend institution of teaching posts (Professors, Associate Professors and Assistant Professors) to the Board of Management; and
- i) To exercise such other powers and perform such other duties as may be conferred or imposed upon it by the Rules.

10.1.3.4: Members of Finance Committee

Sl. No	Name	Designation
1	Prof. S. Samanta	Vice Chancellor & Chairman
2	Mr. D. N. Dwivedy	Vice President
3	Prof. J. R. Mohanty	Registrar
4	Mr. S. C. Satapathy	Finance Officer & Secretary

10.1.3.4 B: Functions and Responsibilities of the Finance Committee

- To look into Bank Loans, Taxes, Insurances, Matters, Statutory dues and liaisoning with different financial institution
- To make policy planning of finance, communications with statutory financial bodies, day to day transactions, disbursement, coordination with Chartered Accountant.

- Develop an annual operating budget with staff.
- Approve the budget within the finance committee.
- Monitor adherence to the budget.
- Set long-range financial goals along with funding strategies to achieve them.
- Develop multi-year operating budgets that integrate strategic plan objectives and initiatives.
- Present all financial goals and proposals to the board of directors for approval.

10.1.3.5. Rules, Policies and procedures

Published Rules, Policies and Procedures	Year of publication
Quality Policy	2022
Academic Regulation	2016
Working Guideline	Published every year
IPR Policy	2021
Research and Consultancy Policy	2022
HR Manual	2022
Anti-Corruption and Anti-Bribery Policy	2020
Academic Freedom Policy	2020
Anti-Discrimination and Equal Opportunity	2020
Stakeholder Engagement Policy	2020
Smoke-Free and Tobacco-Free policy	2018
Policy for differently abled	2018
Continuous Improvement Evaluation Policy	2022
KIIT Sustainable Policy	2018

Extent of Awareness

Formal Modes of promoting awareness:

- Hard copy circulation in all Schools
- Presentation during beginning of the Academic year during Faculty Development Programs
- Detail elaboration in faculty council meeting and staff council meeting

10.1.4 Decentralization in working and grievance redressal mechanism (5)

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & sexual harassment Committee.

10.1.4.1 The academic and administrative head of Schools involved in BTech programmes are given below.

Faculty Member	Administrative Responsibility
Prof. Sanjib Moulick	1.Job chart of the functionaries i.e. SOP
Dean, School of Civil Engg.	2. Capital Assets
Prof. Suprava Pattanaik	3. Personnel Administration
Dean, School of Electronics Engg.	Staff Description
Prof. Sarita Nanda	Service Book, Personal files and PARs
Associate Dean, School of Electronics	Accountability and value addition
Engg.	4.Office Management
Prof. Bharat Chandra Routara	Attendance, Disciplinary action & Punctuality
Dean, School of Mechanical Engg.	Security & Safety arrangement
Prof. Nitin Sharma	Registers
Associate Dean, Dean, School of	- Cash Book
Mechanical Engg.	- Bill Register & Drawal Register
Prof. Byamakesh Nayak	- Pay Acquittance Register
Dean, School of Electrical Engg	- CL/EL Register
	Library
	Workshops & Labs
Prof. Biswajit Sahoo,	Space Management
Director, School of Computer Engg.	Transport Management Office infrastructure
Prof. Bhabani Shankar Prasad Mishra,	
Dean	Financial Management
Prof. Amulya Ratna Swain, Dean-I	
Prof. Arup Abhinna Acharya, Dean-II	
School of Computer Engg.	
Prof. Prasanta Rath	
Dean, School of Applied Sciences	
Prof. A. K. Sen	
Dean, School of Humanities	

10.1.4.2: The mechanism and composition of grievance redressal cell including Anti Ragging Committee & & Grievance Redressal Forum for Women

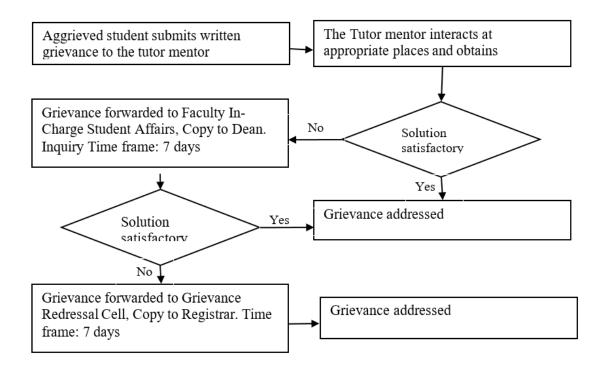
Grievance Redressal Cell	Mechanism	Description is given (Section 10.1.4.3 A)
rievance Redressar Cen	Composition	List is attached (Table 10.1.4.3)
Anti ragging Committee	Mechanism	Description is given (Section 10.1.4.4 A)
Ann ragging Committee	Composition	List is attached (Table 10.1.4.4)
Grievance Redressal forum for women	Mechanism	Description is given (Section 10.1.4.5 A)
	Composition	List is attached (Table 10.1.4.5)

10.1.4.3: Member List of University Level Grievance Redressal Cell

Sl. No.	Name	Designation
1.	Prof. Damodar Suar, Chairperson, Social Science Research	Chairman
2.	Prof. Samaresh Mishra, Director, Student Affairs	Member
3.	Dr. Sucheta Priyabadani, Director, Student Counselling	Member
4.	Dr. Sanjib Moulick, Dean, School of Civil Engineering	Member

5.	Dr. Srinivas Pattanaik, Dean, School of Biotechnology	Member
6.	Dr. Sumita Mishra, Dean, School of Management	Convener

10.1.4.3 A: Mechanism of Grievance Redressal Cell



The Decisions are made considering the existing rules and regulations and expected students conduct aspects. In case the grievance is not acceptable legally, the student is counseled.

The University level Committee shall consider the appeal of the student and make appropriate recommendations to the Registrar within a reasonable time, preferably within 15 days. On approval by the Registrar, the final decision shall be communicated to the student through the Director Student Affairs.

The University level Committee, if needed, may recommend to the Director Counseling Cell, necessary corrective action as it may deem fit, to ensure avoidance of recurrence of similar grievance at any of the Schools under the University.

While dealing with the complaint, the Committee at all levels shall observe law of natural justice and hear the complainant and concerned people.

While passing an order on any Grievance at any level, the relevant provisions of the Act/Regulations would be kept in mind and no such order would be passed in contradiction of the same.

Table 10.1.4.4: Member List of University Level Anti Ragging Committee

Sl. No	Name	Designation	
--------	------	-------------	--

1.	Prof. Sasmita Samanta, Vice Chancellor	Chairperson
2.	Prof. Saranjit Singh, Pro Vice Chancellor	Member
3.	Prof. Jnyana Ranjan Mohanty, Registrar	Member
4.	Dr. Sucheta Priyabadini, Director, Student Counseling	Member
5.	Prof. Prasant Rath, Dean SAS	Member
6.	Prof. Bhavani Prasad Panda, Director, Law	Member
7.	Mr. P. K. Chamupaty, Jt. Registrar(Admin.)	Member
8.	Mr. Sudhir Rath, Director, Hostels	Member
9.	Ms. Jayanti Nath, Joint Director, Girls' Hostel & Student Affairs	Member
10.	Mr. P. K. Pattnaik, Chief Proctor	Member
11.	Dr. Shyam Sunder Behura, Dy Director(SS)	Member
12.	Prof. Ambika Prasad Mohanty, Principal, KIMS	Member
13.	Mr. Bijay Swain, Reporter-The Samaja News Paper	Member
14.	Mr. Ramesh Chandra Bisoi, ACP, Zone – 6 , Police Commissionerate	Member
15.	Mr. Rashmi Mohanty, Odisha Chapter Head, Tech Mahindra Foundation	Member
16.	Mr. Babloo Sharma, DGM, IOC, Parent	Member
17.	Shayari Halder, Student(1st Year), CSE	Member
18.	Ankit Dhar, Student (2nd Year), CSE	Member
19.	Auro Prasad Nanda, Student (3rd Year), CSE	Member
20.	Prof. Samaresh Mishra, Director, SA	Convenor

Section 10.1.4.4 A: Mechanism for Anti Ragging committee (Towards preventing ragging)

	ACTIVITIES	Frequency
Publicity	Students' Orientation meetings	Annually twice
	Parents' meeting	Annually twice
	Mentees' meeting	
	Published Student hand book	Annually once
	Display of help line	
	Display of posters promoting good will among batches	
Group constitution	Anti ragging committee	
	Anti ragging squad	
	School level committees	
Security features	CCTVs across locations	
	Security staff engaged at strategic locations	
	Staff member deployment at strategic locations	
Student Counseling	During tutor-mentor meeting	
	During hostel visit	
	Referral of potential trouble initiators to Counseling cell	

	ACTIVITIES	Frequency
Surprise visits	Accommodation area	
	Recreational areas	
	Rest areas	

Table 10.1.4.5: Member List of University Level Grievance Redressal Forum For Women (GRFW)

Sl. No.	Name	Position
1.	Dr. Sucheta Priyabadani, Director, Student Counselling	Chairperson
2.	Dr. Anita Pati, Associate Professor, School of Applied Sciences	Member
3.	Ms. Jayanti Nath, Joint Director, Girls' Hostel & Student Affairs	Member
4.	Dr. Sumita Mishra, Dean, School of Management	Convener

10.1.4.5 A: Mechanism for Grievance Redressal Forum for Women:

- The grievance redressal forum for women is empowered to entertain application and complain from working woman for sexual harassment. According to supreme court definition sexual harassment in any unwelcome sexually determined behavior such as
 - (a) Physical contact and advances
 - (b) A demand or request for sexual favors
 - (c)Sexually colored remarks
 - (d) Showing pornography
 - (e) Any other unwelcome, physical verbal or non verbal conduct of sexual nature
- Where any of these acts is committed in circumstances where under the victim of such conduct has a reasonable apprehension that such conduct can be humiliating and may constitute a health and safety problem
- For instance when the woman has reasonable grounds to belief that her objection would disadvantage her in connection environment. Adverse consequence might be inferred if the victim does not consent to the conduct in question or to raise any objection thereto.
- **Penalties:** If any of the offence mentioned above is proved against the offender the same shall be treated as grave misconduct and punishment shall be imposed for grave misconduct as prescribed by the University in its rules and regulation adhering to the appropriate procedure mentioned therein.
- **Preventive Steps:** GRFW shall take appropriate steps to prevent sexual harassment within the premises of KIIT which includes:
 - (a) Express prohibition of sexual harassment as defined above should notify, published.
 - (b) The rules and regulation for grave misconduct under KIIT, society shall be involved and appropriate penalties shall be awarded against the offender.

- **Time Frame:** Any complain or application received by the GRFW as per the rules mentioned has to deal with after giving a reasonable opportunity of being heard to the accused concerned and submit its report within a period of three months.
- **Appeal:** Any person aggrieved by the decision of the GRFW may appeal to the chairperson within a period of fifteen days from the date of decision. The chairperson of GRFW shall dispose.

10.1.5 Delegation of financial powers (5)

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each of the assessment years.

Financial Power delegation

Designated Authority	Financial Power delegated	Utilization %
Vice-Chancellor	1 Crore	100%
Registrar	10 Lakhs	100%
Deans	1 Lakh	85%
Directors	1 Lakh	80%

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

(Information on policies, rules, processes and dissemination of this information to stakeholders is to be made available on the web site)

The exact information of KIIT DU related to academics, policies, committee are displayed in the university websites and are updated regularly. The University website furnished all relevant information through AQAR and audited financial statement.

University Website: www.kiit.ac.in

For the internal stake holders, vital information are available in SAP portal.

- The registered users can log in through the SAP portal and have access to the academic data, financial data and the resource usage statistics.
- The examination paper evaluation is through online mode, where students can view their evaluated answer scripts and interact with the evaluator, in case they find some errors in evaluation.
- The parents can also log in the SAP portal and can access attendance, academic status and financial dues of the student.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year – CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2), CFYm3 (Current Financial Year minus 3)

Tabel 1: CFY 2021:2022

	Total Income in CFY:				Actual expenditure in CFY (till):			
13,110,192,997					27071			
E	Govt.	Grant(s)	Other Sources	Recurring	N	Special	Expenditure	
Fee			(specify)	including Salaries	Non- recurring	Projects/Any other, specify	per student	
10,321,676,0 32	-	99,470,484	2,689,046,481	8,563,501,905	4,237,170,169	86,400,785	476,047.17	

Tabel 2: CFY 2020:2021

	Total Income in CFY:				Actual expenditure in CFY (till):			
11,824,872,825					27071			
Fee	Govt.	Grant(s)	Other Sources	Recurring including	Non- recurring	Special Projects/Any	Expenditure	
ree			(specify)	Salaries	Non- recurring	other, specify	per student	
9,289,988,49	-	158,908,536	2,375,975,795	7,665,272,143	3,689,296,359	87,317,889	422,662.13	

Tabel 2: CFV 2019:2020

	Total Income in CFY:				Actual expenditure in CFY (till):			
11,987,273,956					26024			
Fee	Govt.	Grant(s)	Other Sources	Recurring including	Non- recurring	Special Projects/Any	Expenditure	
ree	Govi.		(specify)	Salaries	Non- recurring	other, specify	per student	
9,688,277,51 7	-	250,060,636	2,048,935,803	8,076,983,610	2,857,898,348	244,926,848	429,596.10	

Tabel 2: CFY 2018:2019

	Total Income in CFY:				Actual expenditure in CFY (till):			
11,108,869,700				10,862,572,394				
			Other Sources	Recurring		Special	T. 114	
Fee	Govt.	Grant(s)	(specify)	including Salaries	Non- recurring	Projects/Any other, specify	Expenditure per student	
9,069,388,42	-	287,399,351	1,752,081,926	7,269,712,622	3,350,890,186	241,969,586	421,176.86	

	Budgeted and Actual Expenses									
Year 2021-2022		2020-2021		2019-2020		2018-2019				
Item s	Budgeted in CFY	Actual expenses in CFY (till)	Budgeted in CFYm1	Actual Expenses in CFYm1	Budgeted in CFYm2	Actual Expenses in CFYm2	Budgeted in CFYm3	Actual Expenses in CFYm3		

	14,864,200, 000	12,887,072, 860	13,077,100, 000	11,441,886, 391	11,831,325, 000	11,179,808, 806	10,952,800, 000	10,862,572, 394
Others Specify	4,092,800,0 00	3,379,658,0 55	3,931,590,0 00	3,438,627,0 85	3,969,000,0 00	3,574,772,1 47	3,288,650,0 00	3,338,858,5 15
Miscellan eous Expenses	2,500,000	2,491,921	1,800,000	1,671,330	1,500,000	1,447,601	3,000,000	3,027,062
Training and Travel	85,500,000	33,305,898	127,800,00	23,026,570	130,000,000	113,875,91 8	126,000,00	124,556,81 3
R&D	302,100,00	173,794,17 4	279,660,00 0	176,805,70 6	381,625,000	365,343,43 7	428,650,00 0	416,880,24 1
Maintena nce and spares	1,405,400,0 00	1,072,155,3 72	772,250,00	644,695,51 4	708,500,000	675,270,97 4	685,100,00 0	677,909,51 2
Teaching and non- teaching staff salary	3,987,500,0 00	3,535,017,7 67	3,513,000,0 00	3,161,925,9 20	3,192,500,0 00	3,135,513,6 35	2,681,500,0 00	2,640,281,1 65
Laborator y consumab les	365,250,00 0	361,522,57 7	350,000,00	245,985,22	405,500,000	395,457,88 7	270,000,00	265,225,72 4
Laborator y equipmen t	1,124,950,0 00	946,498,55	1,104,800,0 00	923,695,58	1,151,800,0 00	1,088,782,5 27	711,000,00	688,411,15 0
Library	187,500,00 0	167,661,90 2	191,000,00	113,270,69 1	152,700,000	149,131,15 7	144,000,00	141,176,79 4
Infrastruc ture Built- Up	3,310,700,0	3,214,966,6 39	2,805,200,0 00	2,712,182,7 71	1,738,200,0 00	1,680,213,5 22	2,614,900,0 00	2,566,245,4 19

Table B.10.2b

10.2.1 Adequacy of budget allocation (5)

(The institution needs to justify that the budget allocated over the years was adequate)

Annual budget is prepared by statutory Finance Committee before beginning of the financial year by collecting individual budget from all departments, schools and central accounts. Directions have been issued to give thrust on research, academic development programme, development of infrastructure etc. On receipt of the due from all departments, school, the same is finalized on the basis of past experience and future projects.

10.2.2 Utilization of allocated funds (5)

(The institution needs to state how the budget was utilized during the last three years)

The utilization heads are available on the audited statements of accounts of each year. The Budget amount is used for creation of capital assets & to meet operational expenses as per the budget guidelines. The Capital assets also includes Laboratory Equipments, Study Resources & Laboratories etc. The operational expenses includes Salaries, Research promotion, Maintenance, spares & other relevant expenses.

10.2.3 Availability of the audited statements on the institute's website (5)

(The institution needs to make audited statements available on its website)

The audited statement is available in University website in the link given below. https://kiit.ac.in/balancesheet/

10.3 Program Specific Budget Allocation, Utilization (30)

Total Budget at program level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year – CFYm1 (Current Financial Year minus 1) CFYm2 (Current Financial Year minus 2) CFYm3 (Current Financial Year minus 3)

Table 1: CFY 2021-2022

Total Inco	ome in CFY:	Actual expenditur	Actual expenditure in CFY (till):			
324,471,972		315,21	11,713	769		
Non-recurring	Recurring	Non-recurring	Non-recurring Recurring			
54,604,000	269,867,972	64,848,757	250,362,956	409,898.20		

Table 2: CFY 2020-2021

Total Income	in CFY:	Actual expenditu		Total No. of students in CFY:	
318,150,444			299,344,856	771	
Non-recurring	Recurring	Non- recurring Recurring		Expenditure per student	
52,705,000	265,445,444	86,104,672	213,240,184	388,255.33	

Table 3: CFY 2019-2020

Total Income	in CFY:	Actual expenditu		Total No. of students in CFY:	
353,945,997		317,343,817		786	
Non-recurring	Recurring	Non- recurring Recurring		Expenditure per student	
54,401,400	299,544,597	82,664,670	234,679,147	403,745.31	

Table 4: CFY 2018-2019

Total Income	in CFY:	Actual expenditu)		Total No. of students in CFY:	
332,937,312			303,107,090	806	
Non-recurring	Recurring	Non- recurring Recurring		Expenditure per student	
52,685,400	280,251,912	74,881,330	228,225,760	376,063.39	

Year	2021-2022		2020-2021		2019-2020		2018-2019	
Items	Budgeted in CFY	Actual expenses in CFY (till)	Budgeted in CFYm1	Actual Expenses in CFYm1	Budgeted in CFYm2	Actual Expenses in CFYm2	Budgeted in CFYm3	Actual Expenses in CFYm3
Laborator								
y equipmen	44,500,000	40,400,037	50,000,000	46,328,090	59,000,000	53,634,256	34,860,000	33,656,135

t								
Software	500,000	446,250	-	-	1,000,000	973,795	1,500,000	1,284,276
Laborator y consuma bles	5,000,000	4,735,946	15,000,000	5,682,259	12,000,000	9,135,078	8,100,000	7,956,772
Maintena nce and spares	60,000,000	59,887,056	45,000,000	36,010,561	40,000,000	37,718,405	38,236,000	37,865,785
R&D	15,000,000	11,609,876	35,000,000	11,811,054	30,000,000	24,405,835	28,580,000	27,848,620
Training and Travel	2,000,000	1,510,384	7,000,000	1,044,228	6,000,000	5,164,140	5,740,000	5,648,506
Miscellan eous Expenses	200,000	149,516	200,000	100,280	200,000	86,856	180,000	181,624
Total	127,200,00 0	118,739,06 5	152,200,00 0	100,976,47 2	148,200,00	131,118,36 5	117,196,00 0	114,441,71 8

10.3.1 Adequacy of budget allocation (10)

(Institution needs to justify that the budget allocated over the assessment years was adequate for the program)

Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and units before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. Supplementary allocations are made in special cases. The institution carefully monitors the expenses such that the necessities are met without affecting the smooth working of the institution.

10.3.2 Utilization of allocated funds (20)

(Institution needs to state how the budget was utilized during the last three assessment years)

All the Heads of the departments are intimated of the extent of funds allocated against their budget proposals in the beginning of the academic session. Major works like construction, up gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture, etc., are controlled directly by Management in consultation with the Deans/ Directors.

10.4 Library and Internet (20)

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/purchase records and utilization of facilities/equipment etc. to be documented and demonstrated)

10.4.1 Quality of learning resources (hard/soft) (10)

- Relevance of available learning resources including e-resources
- Accessibility to students
- Support to students for self-learning activities

Library Overview

Library facilities and services are offered to students, research scholars and faculty members of different schools through 20 well established independent school libraries located at respective schools of KIIT DU as well as from the Central Library that is located in an independent campus. The Central Library, an eight storied building functions as the main learning resource centre of the University. The total area of all the libraries is 7771 sqm with a total seating capacity of 3000.

Bird's eye-view of the Print & e-Resources

• Print Resource

Print Resources				
Books Titles	53,521			
Books Volumes	14,21,474			
Print Journals	571			
World Bank Reports	46			
Periodicals	94			
Bound Volumes	16,806			
Theses, Dissertations	2659			
In-house Reports (UG & PG)	3828			

• E-Resource

e-Resources				
eBooks	1,69,470+			
e-Journal Database	45			
e-Journals	43,193+			
e-Theses & Dissertations	4.3 million+			
Rare Books	29,821			

Titles and Volumes

Details		2021-22	2020-21	2019-20	2018-19	2017-18
Engineering,	Books Title	5137	4021	2895	2355	1335
Man age ment	Books Volu me	1,69,764	1,74,744	1,42,607	1,70,280	1,70,912
& Com	Print Journals	314	408	595	595	571
pute r	Online Journ	43,193+	29,031+	28,195+	28,117+	28,000+

Appl icati	als			
on				

1. Relevance of available learning resources including e-resources

E-Journals & Databases Collections:

- o **IEL Online**: Electronics, Electrical & Computer Engineering: 22916 IEEE & IET full text journals & magazines and conference proceedings, 3043 IEL standards.
- Science Direct: 3984 e-Journals & 42 e-Books on Computer Science, Engineering, Engineering, Health Sciences, Materials Science, Business, Management and Accounting & Economics, Econometrics and Finance.
- o **ASME:** 29 e-journals on Mechanical Engineering.
- o **ASCE**: 38 e-journals on Civil Engineering.
- o **ACM Digital University:** 61+ e-Journals and Magazines, 2537+ Scholarly Materials and Newsletters.
- o **ABI Inform Complete:** 4,200+ e-journals and magazines on Business Management and allied subjects.
- o **ProQuest Medical Sciences:** 594 e-journals on Health Science.
- Wiley online Journals: 12 e-journals from Dental Sc. & 1 e-journal from Architecture.
- o **AAPD**: 2 e-journal on Dental Sc. Access available since 1998.
- o **Fluoride Research**: 1 e-journal on Dental Sc. Access available since 1968.
- o **JCO Online**: 1 e-journal on Dental Sc. Access available since 1967.
- o **Springer**: 1 e-journal on Dental Sc. Access available since 2009.
- Emerald: 310 e-journals on Accounting Finance & Economics (41), Business, Management & Strategy (55), Education Collection (23), Engineering Collection (26), Health & Social Care Collection (32), HR, Learning & Organization Studies (25), Information & Knowledge Management (12), Library Sciences (16), Marketing (23), Operations, Logistics & Quality (16), Property Management & Built Environment (20), Public Policy & Environmental Management (13), Tourism & Hospitality Management (8).
- o **EBSCO Business Source Complete:** Business Source Complete is the world's definitive scholarly business database, providing the leading collection of bibliographic and full text content. As part of the comprehensive coverage offered by this database, indexing and abstracts for the most important scholarly business journals back as far as 1886 are included. 'With premium full-text content and peer-reviewed business journals, this database is an essential tool for business students. It covers all disciplines of business, including marketing, management, accounting, banking, finance and more. 6934 number of journals & magazines indexed and abstracted (3887 are peer-reviewed), 3761 number of journals & magazines in full text LexisNexis-Indian-Commentaries-2020 (1876 are peer-reviewed).
- o **Taylor & Francis:** 1500 e-journals on Engineering, Architecture, Arts & Humanities, Law, Management, Health Sc., Geography, Museum & Heritage Studies.
- Lexis Nexis: 1000+ international journals, 300+ Indian Commentaries, Cases & Legislation from nine jurisdictions, All England Law Reports, Supreme Court of India judgements, Central Legislation and more than 40000 other sources.

- SCC Online: Legal Research Database covering Indian Case Law, Indian Statutory Law, Indian Secondary Materials, International Law.
- Manupatra: Legal Research Database covering Supreme Court cases and orders (1950-Current), cases and orders of all High Courts of India and other Courts, Inception of Each Court-Current, Privy Council Cases, Orders of Tribunals & Commissions, International Law Database, Bare Acts/Statutes, Bills in Parliament and Ordinances, Notifications & Circulars, e-books and others.
- o **Hein Online:** 31 e-journals on law and allied subjects.
- Westlaw India: 1174 + e-journals available in the database with cases, legislation forms & reports.
- o **AIR Online:** Case law from Supreme Court of India, All High Courts of India, Privy Council, federal Courts from 1900 onwards.
- JCR: Incites JCR Journal Citation Reports- Most comprehensive tool for citation based research evaluation.
- Sage Journals: 35 e-journals from Dental Sciences, Management, Law and Social Sciences.
- o **JSTOR:** access to more than 3000 journals, books, images, and primary sources in 75 disciplines.
- UpToDate Anywhere: UpToDate Anywhere: is an evidence-based clinical resource. It
 includes a collection of medical and patient information, access to Lexi-comp drug
 monographs and drug-to-drug interactions, and a number of medical calculators.
- o INDIASTAT: Socio-Economic Statistical Information about India.
- o **CMIE-Prowess:** Contains information on financial performance, Annual Reports, Time Series Data of over 2700 Indian companies.
- CMIE-Industry Outlook: Provides an incisive analysis of about 100 + types of industries.
- o **ETIG:** Database on Macro-Economic and Sectoral Research.
- o **IS CHD Online (Academic):** IS- Chemical Engineering Division consisting of 1,783 standards with Campus wide access published by Bureau of Indian Standards.

Bibliographic E-Database

- o **Scopus Indexing database** of 22500+ e-journals from 5000+ publishers.
- Web of Science: KCI-Korean Journal Database: 1980-present; Russian Science Citation Index: 2005-present; SciELO Citation Index: 1997-present; Web of Science Core Collection: Science Citation Index Expanded: 1985-present; Social Sciences Citation Index: 1985-present; Arts & Humanities Citation Index: 1985-present; Book Citation Index; Science: 2005-present; Conference Proceedings Citation Index; Science: 2005-present; Emerging Sources Citation Index: 2005-present.

Patent Database

o **Derwent Innovation**: Full text Patents from USA, UK, Australia, WIPO, France, Germany etc.

E-Books

- o **E-Brary**: 1,36,268 + e-books
- Thomson Reuter's E-Book: 20 UK Books & 63 Indian Books on Law.
- o **Elsevier e-books**: Bioprocess Engineering Principles By Pauline M. Doran, Second Edition; Data Mining: Practical Machine Learning Tools and Techniques, by Jiawei Han,

Micheline Kamber and Jian Pei, Fourth Edition 2017. ISBN 978-0-12-804291-5The Finite Element Method in Engineering by Singiresu S. Rao, Fifth Edition, 2018. ISBN 978-0-12-811768-2.

Rare Books

- EBSCO Atla Historical Monographs Collection: Series 1: The Atla Historical Monographs Collection: Series 1 provides religious and theological literature from the late 13th century to 1922. Series 1 includes monographs prior to the 1893 World Parliament of Religions.
- o **EBSCO Atla Historical Monographs Collection: Series 2**: The Atla Historical Monographs Collection: Series 2 provides religious and theological literature from the late 13th century to 1922. Series 2 includes monographs covering 1893 through 1922.

E-Dissertations and Theses

 PQDT (Proquest Dissertation & Theses): Contains 4.3 million+ dissertation and theses from 1700 leading academic institutes of the world. The subjects covered are Business & Economics; Medical Sciences; Science & Technology, Agriculture, Social Sciences, Arts, Humanities and Law.

Library Automation & Information Management Tools

- o Web Centric Libsys 10: Library Automation Software
- o **D-Space:** IR Software
- o **Turnitin:** Anti-Plagiarism Software
- o EndNote X8: Citation Management Tool
- o **SPSS:** Statistical Analysis Tool
- o **STATA:** Statistical Analysis Tool

2. Library Services

- 24x7 library services
- Fully automated library operation with Libsys 10 LMS
- Web based 24x7 digital library services
- Remote Access Services
- Library Web Portal
- Library outreach programs
- Orientation programs
- Inter-Library Loan
- Research Support
- Showcase of latest impact publications on regular basis
- Citation Management
- Service to visually challenged users
- Magazine Lounge
- Open Air Learning
- Plagiarism Check
- CAS & SDI Services
- Web OPAC for online catalogue
- Institutional repository using D-space software for online access to the in-house publications.
- Cyber Lab
- Collaborative Zone

- Mini Conference Room
- 30 nos. of public access printers for print services

2.1 Support to students for self learning activities

- Integrated library web portal for searching of subscribed e-resources as well as open access econtent.
- RSS Feed and Email alert services.
- LCD projectors for self learning and demonstration.
- Access to the Lecture videos from NPTEL and other open course wares
- Access to the National Digital Library of India.

10.4.2 Internet (10)

- Name of the Internet provider:
- Available bandwidth:
- Wi Fi availability:
- Internet access in labs, classrooms, library and offices of all Departments:
- Security arrangements

Name of the Internet provider and Bandwidth: Currently 4 ISPs provider and bandwidth provided by the ISPs providers are as follows:

- o 1Gbps Internet connectivity from NKN (under NMEICT)
- o 4 Gbps internet connectivity from Bharti Airtel Ltd.
- o 4 Gbps internet connectivity from Powergrid.
- o 100Mbps internet connectivity from NKN (Powergrid)

Currently KIIT is having a dedicated internet connectivity of 9.1 Gbps.

Note: - At present we have 9.1 Gbps internet connectivity above four ISPs.

Wi Fi availability:

The Aruba Controller and access points which supports IEEE 802.11ac (1G) and IEEE 802.11n (2*300Mbps) is used in the Hostels of the University to provide uninterrupted internet access to the students for their academic and research work. Wi-Fi and Wlan is provided by using Motorola and Aruba Access points to the academic and administrative buildings for faculty and staff members for their research and administrative work. From the session 2015-2016 the WLAN is converted to Wi-Fi. Aruba access points. AP205 is a multifunctional and affordable 802.11ac wireless AP that maximizes mobile device performance in medium-density enterprise Wi-Fi environments.

The details of Access Points are as follows:

Session	Make	Model	Specification	Qty
2010-2011	Motorola		maximum 54Mbps data transfer rate, 802.11a/g radio, external antenna	200
2011-2012	Aruba		One 2×2 MIMO dual-band 2.4-GHz or 5-GHz radio with internal antenna, with 802.11a/b/g/n	150

2012-2013	Aruba	105	Two dual-band 2.4-GHz and 5-GHz radios with 450 2x2 MIMO and four integrated Omni directional down tilt antennas with 802.11n
2013-2014	Aruba	105	Two dual-band 2.4-GHz and 5-GHz radios with 500 2x2 MIMO and four integrated Omni directional down tilt antennas with 802.11n
2015-2016	Aruba	205	Dual-radio, 867MBps to 5 Ghz with 802.11ac 768 leveraging two spatial MIMO streams
2017-2018	Aruba	305	Dual-band down tilt Omni-directional antennas for 384 3x3 MIMO with maximum antenna gain of 4.7dBi in 2.4GHz and 6.4dBi in 5GHz.
2017-2018	Aruba	315	Four integrated dual-band down tilt Omnidirectional antennas for 4x4 MIMO with peak antenna gain of 3.6dBi in 2.4 GHz and 6.0dBi in 5 GHz.
2019-2020	Aruba	315	Four integrated dual-band down tilt Omni-256 directional antennas for 4x4 MIMO with peak antenna gain of 3.6dBi in 2.4 GHz and 6.0dBi in 5 GHz.
2019-2020	Aruba	515	Four integrated dual-band down tilt Omnidirectional antennas for 4x4 MU-MIMO with peak antenna gain
2022-2023	Aruba	515	Four integrated dual-band down tilt Omni-320 directional antennas for 4x4 MIMO with peak antenna gain

We had also implemented the Aruba Clear pass Guest, for providing Wi-Fi connectivity to the delegates and guests who visit KIIT for seminar, workshop and different events.

Networking: 10-1Gbps OFC / Ethernet connection from ICT Cell to all campuses. It is a secure network and each user has authentication for accessing our network. Our campus network currently uses 250 VLANs and can be extended to 1500 VLANS with current configurations. The networking switches that are used at different campuses are given below:

Make/Model	Qty	Session
Aruba 3810M	3	2019-2020
Aruba 2930M	3	2019-2020
Aruba 2930F	3	2019-2020
Aruba 2930F	46	2019-2020
Aruba 2930F	103	2018-2019
Aruba 1920S	38	2018-2019
Aruba 2930F	116	2017-2018
Aruba S2500	40	2015-2016
Cisco C2960	50	2014-2015
Aruba S2500	35	2014-2015
Aruba S2500	28	2013-2014
Cisco C2960s	34	2012-2013
Cisco 2960	160	2008-2016

Juniper EX2200	34	2009-2016
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Internet access in labs, classrooms, library and offices of all departments are through LAN.

Security arrangements: As far as the security is concerned KIIT provided the security at different levels of from distribution to the client level. It has Core Layer III switch, Firewall and UTM, Aruba controller and CPPM (Clear Pass Policy manager) for protecting students' and staffs' members from being affected from any DOA attack, hacking from outside and inside KIIT. It also prevent malware and virus attacks. Intrusion Prevention System threat-detection, URL filtering, Web content filtering, application filtering, signature based filtering. The user has dot1.x authentication and captive portal authentication. The user emails has a mailer with dual authentication. The details of switch and firewall are as follows

Network Switches and Firewall:

Make	ake Model		Session
Core Switch LIII			
D-link	D Link 7210	1	2008-2013
Cisco	6509	1	2005-till date
Cisco	C6509	1	2013-2014
Cisco	C4500-10G(40 Ports)	1	2014-2016
Cisco	Nexus 7009	2	2017-2018
Aruba	HPE Aruba 8320	2	2019-2020
Layer III switch			
CISCO	C3750X/C3750	4	2010-2011
CISCO	C3750X	2	2014-2015
CISCO	WS-C4500X-40X-ES	1	2010-2011
CISCO	WS-C4500X-40X-ES	1	2014-2015
CISCO	One Nexus 3172PQ		2017-2018
CISCO	One Nexus 317T	2	2017-2018
Firewall/UTM			
Juniper firewall	SRX 5600 +IPS	1	2010-2011
Juniper UTM	SRX650	1	2010-2011
Cyberoam	2500iNG	4	2013-2014
Cisco	Firepower 4120	2	2017-2018
Palo alto	PA 7050	2	2019-2020
LINK LOAD BALANCER			
RADWARE	Link Proof 2016 ODS2	1	2010-2011
Wi-Fi Controller			
Aruba	7240 controller	1	2012-2013
Aruba	7240 controller	1	2013-2014
CPPM	Clear Pass Policy Manager	2	2015-2016
Aruba	7205 Controller	2	2019-2020



Kalinga Institute of Industrial Technology (KIIT) Deemed to be University

(Established U/S 3 of UGC Act, 1956) Bhubaneswar, Odisha, India

Ref KILT NC/149/3023-02

Date 2/102/2023

DECLARATION

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct.

I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 21.02.2023 Place: Bhubaneswar Prof. (Dr.) Sasmita Samanta

Vice Chancellor

KIIT Deemed to be University

ANNEXURE I (A) PROGRAM OUTCOMES

Engineering Graduates will be able to:

- 1. **Engineering knowledge:** Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis: Ability to identify, formulate, review research literature, and analyze
 complex engineering problems reaching substantiated conclusions using first principles of
 mathematics, natural sciences, and engineering sciences.
- 3. Design/Development of solutions: Ability to design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. **Conduct investigations on complex problems:** Ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage:** Ability to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. **The engineer and society:** Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. **Environment and sustainability:** Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics:** Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and team:** Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Ability to communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- 11. **Project management and finance:** Ability to demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long learning:** Ability to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

The program specific outcomes are:

- 1. Ability to select and utilize sustainable low-cost alternate materials contributing to environment friendly construction practices.
- 2. Ability to understand and adopt methodologies and actions for sustainable environment.
- 3. Ability to understand and develop strategies for sustainable water resources in the context of climate change.



Kalinga Institute of Industrial Technology (KIIT)

Deemed to be University