

SELF-ASSESSMENT REPORT (SAR)

**For Accreditation of Undergraduate Engineering
Programme (Tier-I)**

Bachelor of Technology

in

Electronics & Telecommunication 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

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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: - www.kiit.ac.in
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	<input type="checkbox"/>
Deemed University	<input checked="" type="checkbox"/>
Autonomous	<input type="checkbox"/>
Any other (Please specify)	<input type="checkbox"/>

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 12th Plan guidelines of UGC. Institute should apply for Tier 1 only when fully academically autonomous.

5. Ownership Status:

Central Government	<input type="checkbox"/>
State Government	<input type="checkbox"/>
Government Aided	<input type="checkbox"/>
Self - financing	<input checked="" type="checkbox"/>

Trust
 Society
 Section 25 Company
 Any Other (Please specify)

Provide details:

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

Name of the Institution(s)	Year of Establishment	Programs of Study	Location
KIIT Polytechnic	1995	Diploma in Civil Engineering Diploma in Computer Science & Engineering Diploma in Electrical Engineering Diploma in Electronics & Telecommunication Engineering Diploma in Metallurgical Engineering Diploma in Mechanical Engineering	Campus - 2
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 Program	Programme Applied Level	Year of Start	Year of AICTE Approval	Initial Intake	Intake increase	Current Intake	Accreditation Status	From	To	Program for consideration	Program for Duration
B. Tech in Electronics and Telecommunication Engineering	UG	1997	1997	40	Yes	180	Granted accreditation for 6+1+1 years for the period	1/7/2014	30/07/2022	Yes	4
B. Tech in Electronics and Electrical Engineering	UG	2006	2006	60	Yes	120	Granted accreditation for 6 years for the period	1/7/2019	30/06/2025	No	4
B. Tech in Electronics and Instrumentation Engineering	UG	2020	2010	60	No	60	Not eligible for accreditation			No	4
B. Tech in Electronics and Computer Sc. Engineering	UG	2019	2019	60	No	60	Not eligible for accreditation			No	4
M. Tech in Electronics and Telecommunications Engineering	PG	2010	2006	18	Yes	25	Eligible but not applied			No	2

Table A.7

* Write applicable one:

- 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):

Year of Study	CAY		CAYm1		CAYm2	
	(2022-2023)		(2021-2022)		(2020-2021)	
	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 Table A):

Year of Study	CAY		CAYm1		CAYm2	
	(2021-2022)		(2020-2021)		(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, If Designated

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	Total mark	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	90.56
5	Faculty Information and Contributions	200	200
6	Facilities and Technical Support	80	80
7	Continuous Improvement	75	75
8	First Year Academics	50	48.48
9	Student Support Systems	50	50
10	Governance, Institutional Support and Financial Resources	120	120
	Total	1000	989.04

**PART B:
PROGRAMME CRITERIA**

PART B: Program 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)

Vision of the Institute:

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 Deemed to be University are as follows.

- MU 1** - Imparting value based quality education of international standard and imbuing 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. program in Electronics & Telecommunication Engineering is offered from the School of Electronics Engineering.

Vision of School of Electronics Engineering:

To impart world class education and research in Electronics Engineering, with particular regard to their applications in industry, healthcare and commerce in a diverse society.

Mission of the department

Mission statements of the school of Electronics Engineering, KIIT Deemed to be University are as follows.

- MS 1** - To prepare students for professional career, higher studies and entrepreneurship.
- MS 2** - To facilitate students to utilize fundamental technical knowledge and skills in Electronics engineering, to analyze and solve problems, and apply these abilities to generate new knowledge, ideas or products in academia, industry or Government.
- MS 3** - To encourage and facilitate students, to involve themselves in research work through continuous learning, to build skills beyond curriculum.
- MS 4** - To integrate training in engineering principles, critical thinking, hands-on projects, open-ended problem solving to build up creative abilities and research spirit.

MS 5 - 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).

MS 6 - To engage students with alumni, industry, Government, and community partners through outreach activities in order to inculcate global perception.

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

(State the PEOs (3 to 5) of program seeking accreditation)

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

PEO 1 - Graduates shall be able to lead a successful career in industries or undertake entrepreneurial endeavors and provide solutions in the areas of electronic system design, communication network operation and management issues, and allied areas of Electronics and Telecommunication engineering.

PEO 2 - Graduates shall be able to perceive the limitation and impact of engineering solutions in social, legal, environmental, economical and multidisciplinary contexts.

PEO 3 - Graduates 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)

(Describe where (websites, curricula, posters etc.) the Vision, Mission and PEOs are published and detail the process which ensures awareness among internal and external stakeholders with effective process implementation)

(Internal stakeholders may include Management, Governing Board Members, faculty, support staff, students etc. and external stakeholders may include employers, industry, alumni, funding agencies, etc.)

- 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://electronics.kiit.ac.in/>
- The vision and mission of the School are also displayed through notice boards inside the School.
- The Programme Educational Objectives of the B.Tech. Programme in Electronics & Telecommunication Engineering is available at: <https://electronics.kiit.ac.in/programme/>
- The PEOs are also displayed through notice boards inside the school, student handbook and in the Syllabus book of the program.

Process of dissemination among stake holders

List of stakeholders: Internal & External

Internal:

1. Students: Display on noticeboards, Induction programs, Student Handbook

Implementation Schedule

Display vide boards	Throughout the year (notice board, website)
Induction Programs	Conducted at the beginning of the third semester
Student Handbook	At the time of admission

2. Faculty: Course files, individual copy in faculty cabins, website, notice boards.
3. Support staff: Display on notice board and corridors
4. Management: individual copy in cabins, website, Notice boards

External:

1. Parents: Parents Interaction, Orientation program, School visit, University website
2. Industry/employer: Institute Website, School visit (Industry engagement programs)

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.

- ✓ 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 Electronics 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.

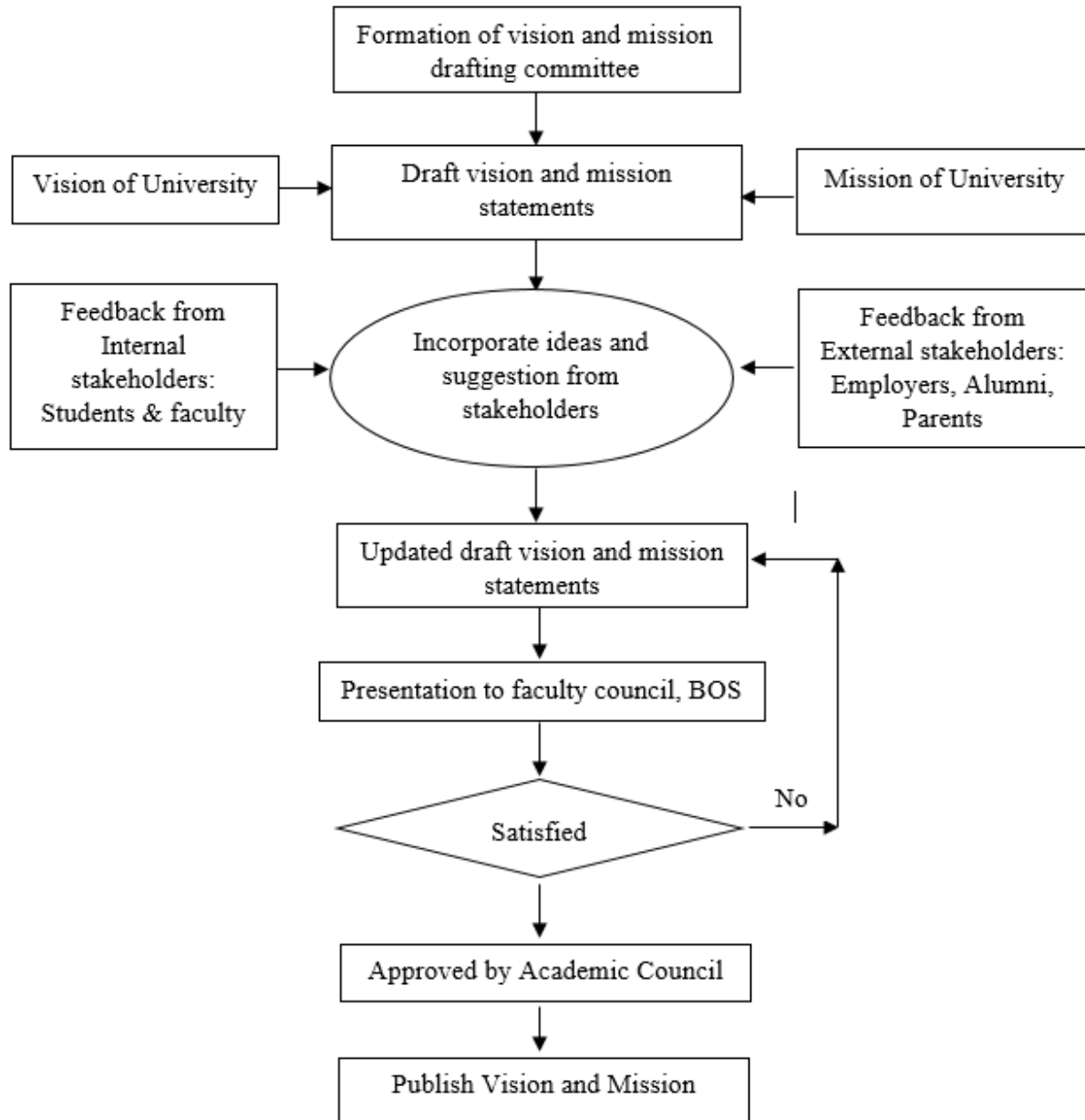


Figure 1.1: Process for defining vision and mission statements

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

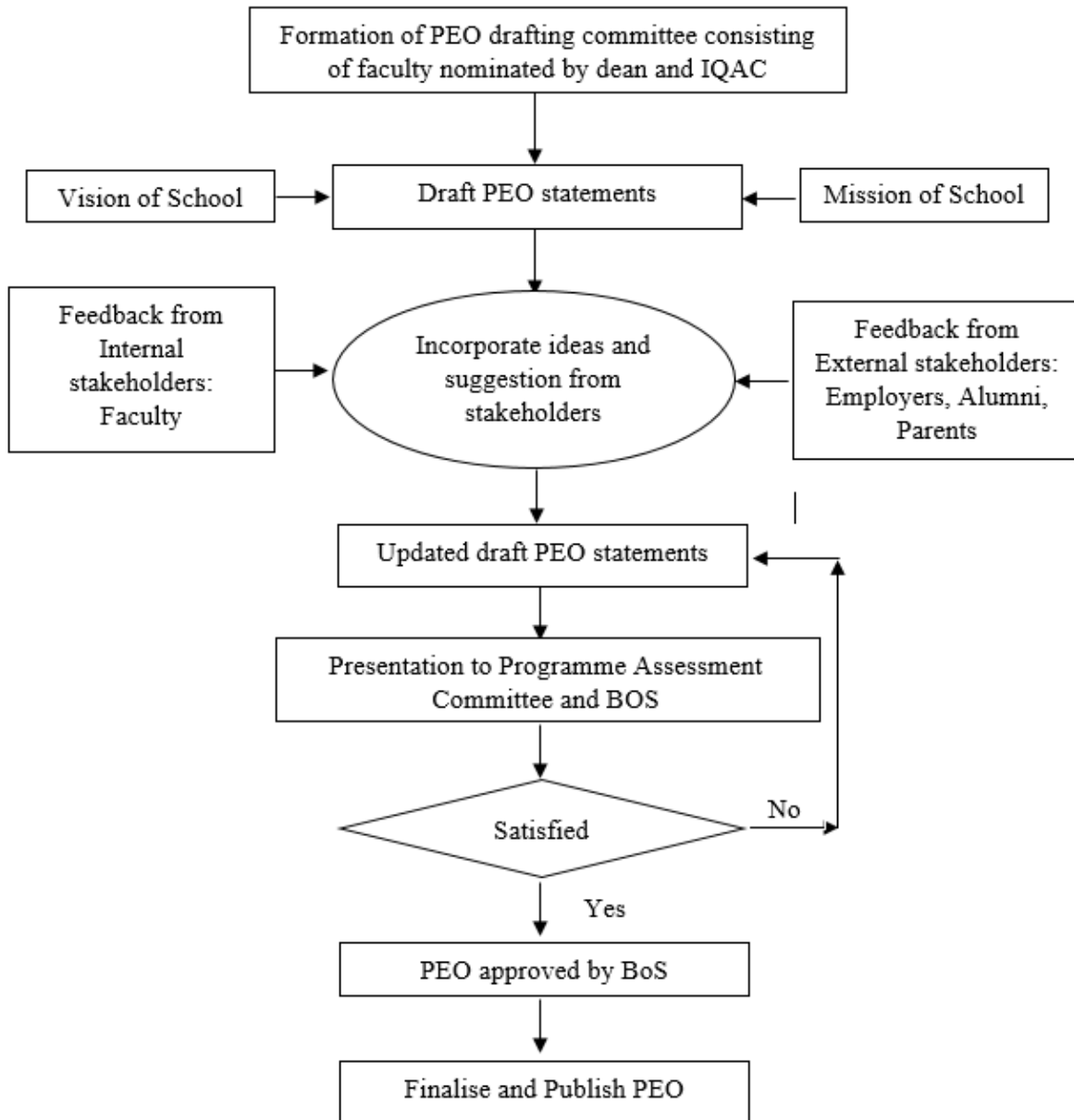


Figure 1.2: Process for defining Programme Educational Objectives

1.5. Establish consistency of PEOs with Mission of the School (10)
(Generate a "Mission of the School – PEOs matrix" with justification and rationale of the mapping)

Consistency of the PEOs with the Mission of the School:

The B.Tech. program in Electronics & Telecommunication Engineering is offered from School of Electronics Engineering, a constituent of Kalinga Institute of Industrial Technology, Deemed to be

University. The School of Electronics Engineering and the Deemed University has own mission statements. The program educational objectives of this program are aligned and consistent with both the mission statements of the School as described below:

PEO 1 is substantially 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 Electronics engineering, to analyze and solve problems, and apply these abilities to generate new knowledge, ideas or products in academia, industry or Government.”* Also, it is correlated with the other missions moderately / slightly.

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 Electronics and Telecommunication Engineering problems, and lead a successful career in their domain

PEO 2 is substantially consistent and aligned with the following mission statement of the School: *“To facilitate students to utilize fundamental technical knowledge and skills in Electronics engineering, to analyze and solve problems, and apply these abilities to generate new knowledge, ideas or products in academia, industry or Government; To encourage and facilitate students, to involve themselves in research work through continuous learning, to build skills beyond curriculum.; To engage students with alumni, industry, Government, and community partners through outreach activities in order to inculcate global perception.”*. Also, it is correlated with the other missions moderately / slightly.

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 economic aspects in consideration. This will also help them to inculcate global perspective in attitude.

PEO 3 is substantially consistent and aligned with the following mission statements of the School: *“To prepare students for professional career, higher studies and entrepreneurship; 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).”*. Also, it is correlated with the other missions moderately / slightly.

Table: PEO and MS mapping matrix

PEO	MS1	MS2	MS3	MS4	MS5	MS6
PEO-1	3	3	1	2	1	1
PEO-2	2	3	3	2	1	3
PEO-3	3	2	3	2	3	1

Note: MS_n denotes the nth Mission statement. For the matrix: 3, 2, and 1 indicates Substantial (High), Moderate (Medium), and Slight (Low) correlation.

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 Deemed to be University 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.

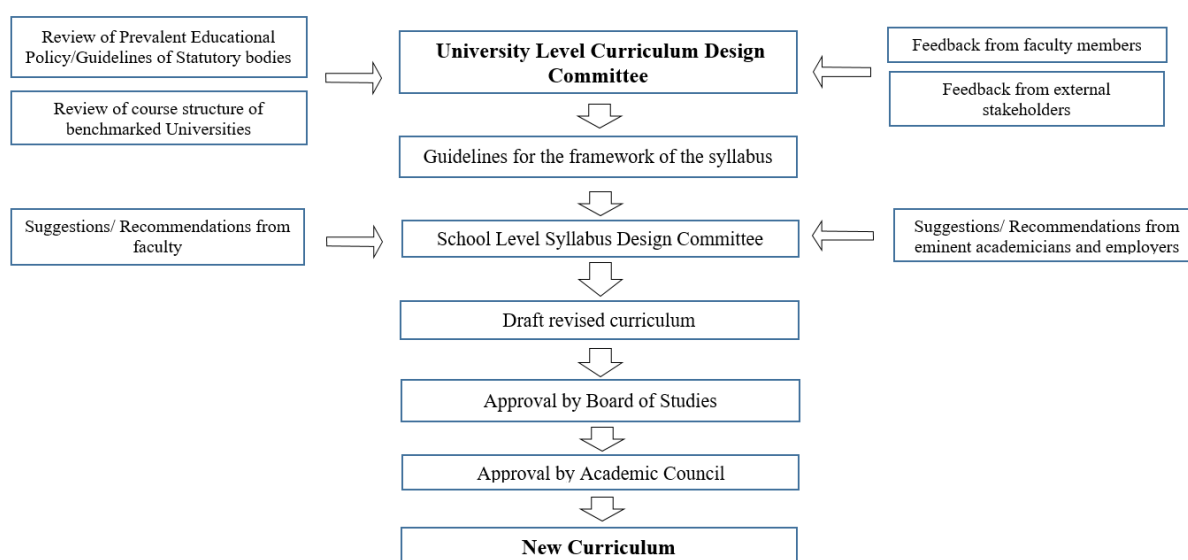


Figure 2.1: Process for Curriculum Design

2.1.2. Structure of the Curriculum (5)

Table B.2.1.2

Sl. No.	Course Code	Course Title	L	T	P	Total Hours	Theory Credit	Practical Credit	Credits
1	C101	Mathematics-I	3	1	0	4	4	0	4
2	C102	Physics	3	1	0	4	4	0	4
3	C103	Basic Electrical Engineering	3	0	0	3	3	0	3
4	C104	Engineering Mechanics	3	0	0	3	3	0	3
5	C105	Physics Lab	0	0	3	3	0	1.5	1.5

6	C106	Basic Electrical Engineering Lab	0	0	2	2	0	1	1
7	C107	Basic Manufacturing Systems	0	1	2	3	0	2	2
8	C108	Environmental Science	0	0	2	2	0	1	1
9	C109	Mathematics-II	3	1	0	4	4	0	4
10	C110	Chemistry	3	0	0	3	3	0	3
11	C111	Professional Communication	2	0	0	2	2	0	2
12	C112	Biology	2	0	0	2	2	0	2
13	C113	Computer Programming	0	2	4	6	2	2	4
14	C114	Chemistry Lab	0	0	3	3	0	1.5	1.5
15	C115	Language Lab	0	0	2	2	0	1	1
16	C116	Engineering Graphics	0	1	2	3	1	1	2
17	C117	Yoga and Human Consciousness	0	0	2	2	0	1	1
18	C201	Mathematics-III (Electronics)	3	1	0	4	4	0	4
19	C202	Electronic Devices and Circuits	3	1	0	4	4	0	4
20	C203	Signals and Networks	3	0	0	3	3	0	3
21	C204	Digital Electronics	3	0	0	3	3	0	3
22	C205	Data Structure and Algorithms	3	1	0	4	4	0	4
23	C206	HS Elective-I	3	0	0	3	3	0	3
24	C207	Electronic Circuits & Network Lab	0	0	3	3	0	1.5	1.5
25	C208	Digital Electronics Lab	0	0	2	2	0	1	1
26	C209	Data Structures Lab	0	0	2	2	0	1	1
27	C210	Business Communication	0	0	2	2	0	1	1
28	C211	Advanced Electronic Circuits	3	0	0	3	3	0	3
29	C212	Microprocessors, Microcontrollers	3	1	0	4	4	0	4

		& Interfacing							
30	C213	Analog Communication Techniques	3	0	0	3	3	0	3
31	C214	Principle of Measurements and Instrumentation	3	0	0	3	3	0	3
32	C215	Electromagnetic Waves and Antennas	3	1	0	4	4	0	4
33	C216	Principle of Control System	3	0	0	3	3	0	3
34	C217	Analog Integrated Circuits Lab	0	0	2	2	0	1	1
35	C218	Simulation Lab	0	0	2	2	0	1	1
36	C219	Microprocessor and Microcontroller Lab	0	0	2	2	0	1	1
37	C301	Microwave Engineering	3	0	0	3	3	0	3
38	C302	Data Communication and Networking	3	0	0	3	3	0	3
39	C303	Digital Signal Processing	3	1	0	4	4	0	4
40	C304	Digital Communication Techniques	3	1	0	4	4	0	4
41	C305	Department Elective-I	3	0	0	3	3	0	3
42	C306	Department Elective-II	3	0	0	3	3	0	3
43	C307	Communication Engineering Lab	0	0	3	3	0	1.5	1.5
44	C308	Electronic Measurements and Instrumentation Lab	0	0	2	2	0	1	1
45	C309	Microwave and Antenna Lab	0	0	3	3	0	1.5	1.5
46	C310	Inferential Statistics	4	0	0	4	4	0	4
47	C311	VLSI Design	3	0	0	3	3	0	3
48	C312	Cellular Communication	3	0	0	3	3	0	3

49	C313	Department Elective-III	3	0	0	3	3	0	3
50	C314	Department Elective-IV	3	0	0	3	3	0	3
51	C315	Department Elective-V	3	0	0	3	3	0	3
52	C316	Open Elective-I / (Minor-I)	3	0	0	3	3	0	3
53	C317	VLSI Lab	0	0	2	2	0	1	1
54	C318	DSP Lab	0	0	2	2	0	1	1
55	C319	Wireless Communication and Networking Lab	0	0	3	3	0	1.5	1.5
56	C320	Minor Project	0	0	4	4	0	2	2
57	C401	HS Elective-II	3	0	0	3	3	0	3
58	C402	Professional Practice, Law & Ethics	2	0	0	2	2	0	2
59	C403	Open Elective-II	3	0	0	3	3	0	3
60	C404	Project-I / Internship	0	0	6	6	0	3	3
61	C405	Practical Training	0	0	4	4	0	2	2
62	C406	Project - II / Internship	0	0	20	20	0	10	10
		Total	106	14	86	206	119	44	163

2.1.3. State the components of the curriculum (5)

Program curriculum grouping based on course components

Generally curriculum maintains the balance in the composition of basic science, humanities, professional courses and their distribution in core and elective and breadth offerings.

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of Credits
Mathematics and Basic Sciences	17.80	33	29
Engineering Sciences	9.2	20	15
Humanities and Social Sciences	7.8	16	13
Program Core	41.7	82	68
Departmental Electives	9.2	15	15
Open Electives	3.7	6	6
Project(s)/Internships	9.2	30	15
Any other (Practical training)	1.2	4	2
Total Credits			163

Table B.2.1.3

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 Electronics and Telecommunication 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 with POs and PSOs (Fig. 2.2)

- 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 assessment and end semester assessment. Feedbacks are also collected from 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).
- The attainments are discussed in the Programme Assessment Committee and BOS meeting; if any modifications are required in the curriculum will be modified.

Table 2.1: Course Outcome with PO/PSO Mapping of Digital Electronics (EC 2011)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	2	0	1	0	0	1	0	0	3	2	2	2
2	3	3	3	2	0	1	0	0	1	0	0	3	2	2	2
3	3	3	3	2	0	1	0	0	1	0	0	2	3	2	2
4	3	3	3	1	0	1	0	0	1	0	0	2	1	1	1
5	2	2	3	1	0	1	0	0	1	0	0	2	1	1	1
6	3	3	3	2	0	1	0	0	1	0	0	2	2	2	2

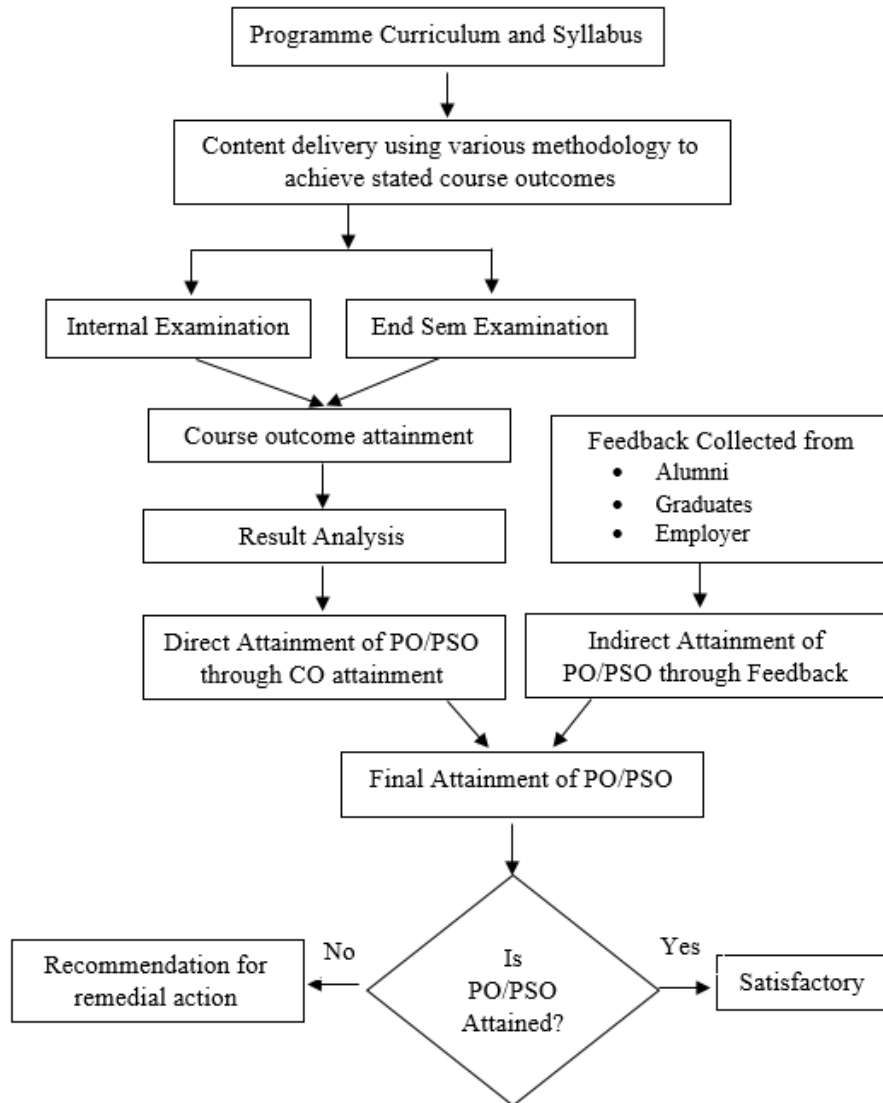


Fig. 2.2 Process for Identifying attainment gap of PO/PSO

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 Electronics 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. All academic activities are being done in time without any disruption in the Academic Calendar despite the Pandemic with the help of ICT facilities described above.

Subject allotment

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.

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 develops 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 the 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. to give them the exposure from domain expertise

Smart Classrooms: The classrooms are well equipped 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

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 tasks vary 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 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.

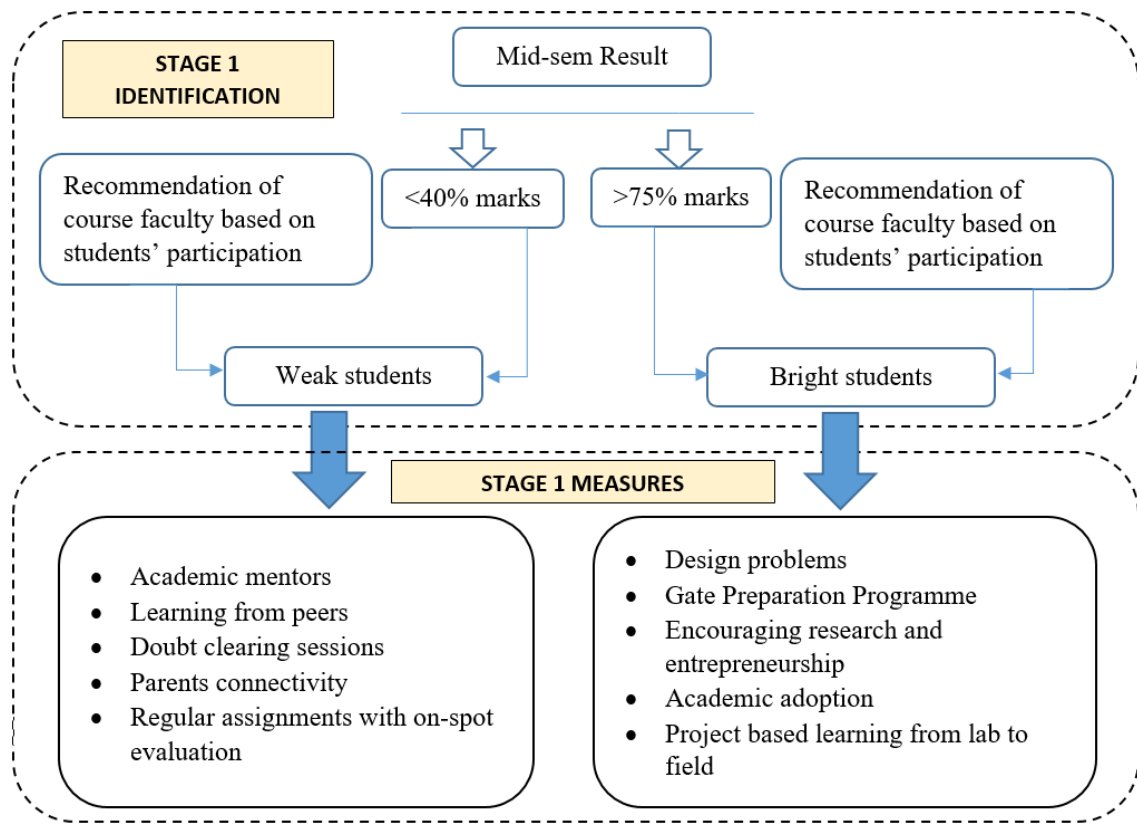


Fig. 2.3: Identification and measures for weak and bright students in stage 1

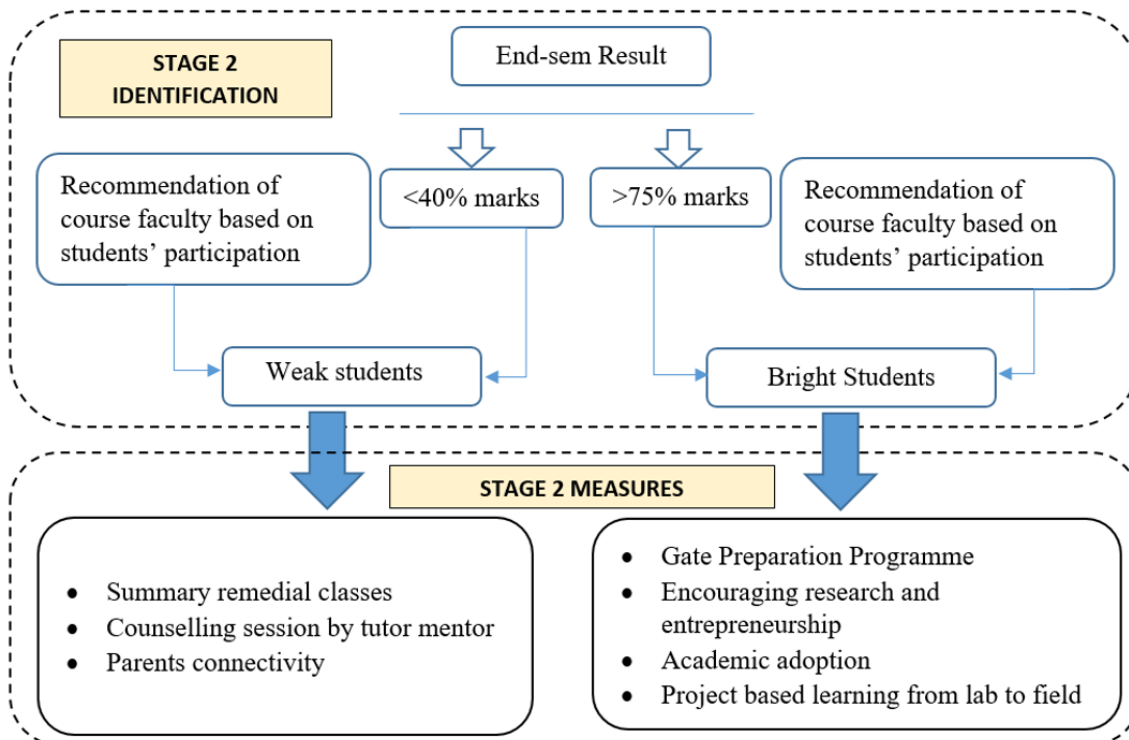


Fig. 2.4: Identification and measures for weak and bright students in stage 2

Special Programmes for Weak and Bright Learners

D.1 Activities for Bright learners

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 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 Electronics 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

Projects are a significant part of the undergraduate engineering program where students can exercise complete freedom and will on the topic of their project work, frame their own time-line of different activities, work under the supervision of faculty-member/s of their choice, harness their skills and apply their expertise in executing the project work. The topic, execution, management and standard of major project reflect the engineering capabilities of the students and are easier to identify whether the different program outcomes for the relevant discipline are being met or not. In other words, the major project can act as a deciding factor on how well a student grasped the engineering concepts of a particular discipline.

There are two project components in the curriculum i.e. a minor project in sixth semester and a major project in final year. Major project is divided into two parts, one in seventh semester and the other in eighth semester providing a total time span of 1 year. 2016 and 2017 admitted batches, Minor Project, project (part-I) and project (part-II) were carrying credits points as 2,2, and 6, respectively. Currently, Minor Project is carrying 2 credits whereas major project (part-I) and project (part-II) carrying 3 and 10 credits respectively.

B. Tech. Minor (6th Semester) and Major (7th and 8th Semester) Project Guidelines:

- Initially a notice is issued to the students for the formation of minor project groups within their sections consisting of maximum 5 students in the end of the 5th semester for doing minor project in 6th semester. The students are also informed about the research interest and technical domain of the faculty members. The same is also intimated to the faculty members of the School. A deadline has given to the students for the submission of group members to the FIC projects.
- Within the stipulated deadline, the students are required to submit the list of project group members and the supervisor name (accompanied by consent letter/form from the respective supervisor) as a project formation template to the FIC projects. A format of consent form is given in the Appendix section.
- The FIC projects process the information from the students regarding the members of the project groups and the supervisor names. After compilation of all the information, a notice used to issue to all the students regarding the allotment of the project supervisors and the students are advised to contact their supervisors and start the project work.
- The students in a group are expected to meet the supervisor regularly or periodically, perform relevant literature survey and study, finalize the project topic keeping in mind factors related to

environment, safety, cost involved, industry standards and application of the process or product involved in the project work.

- Supervisors continually evaluate the performance of the students in the group based on their involvement, contribution, regularity, ethics and coordination abilities.
- End semester evaluation is performed. The students are to present their own contribution, actively participate in deliberations with the panel members and demonstrate the process or model developed and tested by them in front of the panel members. In next section, the detail evaluation scheme is given.
- If the project work is extendable, the students may continue working on it in the final year (7th and 8th semester major project) or else the students may choose another project in consultation with the supervisor and inform the same to the project FICs.
- The students are provided with the templates and the guidelines for writing the project reports from the undergraduate project FICs. They are also required to submit individual contribution reports in the format given from the school. It is desirable that the plagiarism content should be minimal and plagiarism check report need to be provided along with the project report for the information of the supervisor and panel members. The plagiarism check report is generated from the school library using "Turnitin" software.

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.*
- *Samples of student assignments marked/evaluated with comments (if any).*
- *Marks obtained by different student in each assignment.*
- *Mapping of the questions with the Course Outcomes.*
- **Mid semester examination documents:**
 - Mid semester question paper.
 - Mapping of mid semester questions with course/learning outcomes.
 - Model solution of mid semester question paper along with the corresponding evaluation scheme.
- **End semester examination documents:**
 - End semester question paper.
 - Mapping of end semester questions with course/learning outcomes.
 - Model solution of end semester question paper along with the corresponding evaluation scheme.
- **Course Attainment:**
 - 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 Acovid-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	<p>The assessment is done in three stages:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Practical courses	<p>The assessment is done in 2 stages:</p> <p>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.</p> <p>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.</p>
Sessional Courses	<p>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.</p>

KIIT Deemed to be University 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.

A. Continuous Evaluation through learning activities for each theory course:

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

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 Blooms 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)

Pattern

- 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 any five questions from the SECTIONS B,C,D with minimum one question from each SECTION.

Usefulness:

- 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			20% of total Marks to be assigned for Q1.	<ul style="list-style-type: none"> ✓ All COs ✓ PI s related to Learning levels 1 and 2as per Bloom's taxonomy 	
Q1 (a)-(j)	Learning levels 1 and 2	Questions based on remembering and understanding.			
Section B			16% of total Marks to be assigned to each question	<ul style="list-style-type: none"> ✓ All COs ✓ PI s related to Learning levels 1, 2 and 3 as per Bloom's taxonomy 	The questions in SECTION-B,C and D should collectively cover all COs defined for the Course.
Q2 Q3	Learning levels 1,2, and 3	Questions based on remembering, understanding and application			
Section C					
Q4 Q5 Q6	Learning Levels 3 and 4	Questions based on application and analysis.			
Section D				<ul style="list-style-type: none"> ✓ All COs ✓ PI s related to Learning levels 4, 5 and 6 as per Bloom's taxonomy 	
Q7 Q8	Learning levels 4,5,6	Questions based on analysis, evaluation, design, formulation or innovation.			

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 have 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 Examination:

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)

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 B.Tech. in Electronics and Telecommunication Engineering 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	EC 3082	Minor Project	2
2	7	EC 4081	Project Preparation	2
3	8	EC 4082	Project	6

Similarly, as per B.Tech. in Electronics and Telecommunication Engineering curriculum for 2018, 2019 and 2020 and 2021 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	Credit
1	6	EC 3082	Minor Project	2
2	7	EC 4081	Project Preparation	3
3	8	EC 4082	Project	10

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.

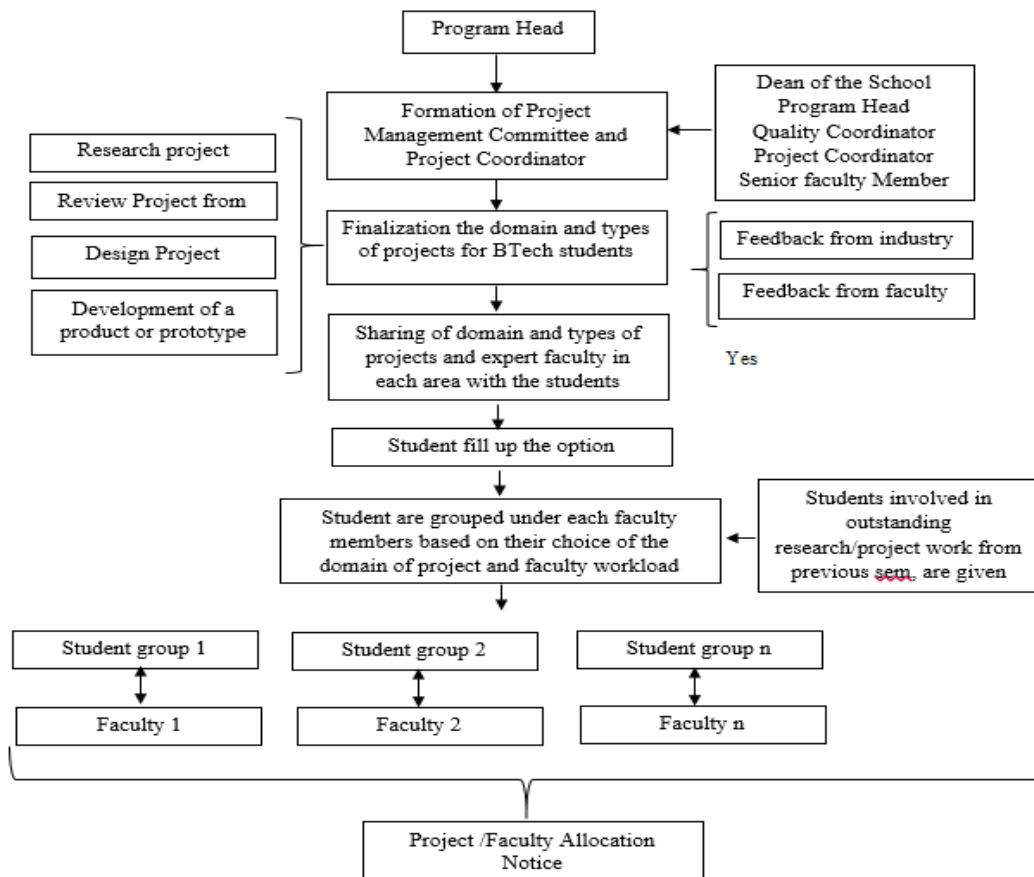


Figure 2.5. Process for Project Allocation methodology

B. Planning, Scheduling, Monitoring and Execution

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

Step	Task	Process description
Step-1	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-2	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-3	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-4	Evaluation	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 have 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:
 - 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 end-semester exams.

Guidelines for presentation:

- The Power Point presentation should be of 15-20 slides comprising:
 - Title (Project title, name/names (roll numbers) of students along with the name of supervisor)
 - Introduction (Background of the study, Significance of the study)
 - Objectives of the study
 - 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)
 - Societal Impacts/ Sustainability/ Economic Viability
 - Conclusion
 - Recommendations for future study
 - 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*
 - *Review of the Literature*
 - *Materials and Methods/Software Tools/Data Collection and Extraction*
 - *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 No.	Evaluation Component	Evaluation type	Marks/Weightage	Components of evaluation
1	Mid Semester Examination	Presentation, viva and report submission	30 (Panel – 15, Guide – 15)	Report – 10 Presentation skills & content – 10 Viva – 10
2	End Semester Examination	Presentation, viva and report submission	70 (Panel – 35, Guide – 35)	Report – 30 Presentation skills & content – 20 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 technical aspects and formulate a project objective

CO2: outline a pathway for the implementation of the project within the timeline

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

CO4: provide engineering solutions and design system components or processes 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 technical reports

Mapping of project CO with PO/PSO

Sl. No.	Project CO	Relevance to PO/PSO
1	CO1	PO2,
2	CO2	PO9, PO10
3	CO3	PO1, PO2, PO3, PO4, PO5

4	CO4	PO6, PO7, PO11
5	CO5	PO9
6	CO6	PO9, PO10

A list of major projects addressing various PO/PSO:

Sl. No.	Project Title	Group Code	Related PO/PSO
1	ANALYSIS, IMPLEMENTATION AND APPLICATIONS OF THE DIFFERENT ALGORITHMS IN ADAPTIVE FILTERS AND ECHO CANCELLATION	18_1_4	PO - 1,2,4,5,9,10,12 & PSO - 1,3
2	"BRAILLE TO SPEECH USING CONVOLUTION NEURAL NETWORK"	18_1_8	PO - 1,2,4,5,9,10,12 & PSO - 1,3
3	SMART HEALTHCARE MONITORING SYSTEM	18_2_5	PO - 1,2,6,9,10,12 & PSO - 3
4	IOT BASED ROAD SAFETY AND DRIVING ASSISTANCE	18_3_2	PO - 1,2,9,10,11,12 & PSO - 1,2,3
5	SMART WEARABLE TECHNOLOGY: SMART-GLASS	18_3_9	PO - 1,2,4,7,9,10,11,12& PSO - 1,2,3
6	DIY VENTILATOR SYSTEM USING ARDUINO	18_3_10	PO - 1,2,3,9,10,12 & PSO - 1,2,3
7	DRIVER DROWSINESS DETECTION USING DEEP LEARNING	18_3_11	PO - 1,2,6,9,10,11,12 & PSO - 1,2,3
8 9	REAL TIME MONITORING and CONTROL OF AIR-CONDITIONER FOR PREVENTING SHORT CIRCUIT and FIRE	17_1_2	PO1-12 and PSO1-3
10	THE DEVELOPMENT OF OBR SYSTEMS FOR INDIAN LANGUAGES TO TRANSLITERATE ODIA BRAILLE INTO PRINTABLE ODIA TEXT FOR VISUALLY IMPAIRED PEOPLE	17_1_7	PO1-12 and PSO1-3
11	Hardware Implementation of Smart Glasses With Face Recognition & Voice Control Features	17_1_11	PO1-12 and PSO1-3 PO1-12 and PSO1-3
12	Automated Smart Trolley with Open CV based real time tracking mechanism for IOT in retail sector	17_2_1	PO1-12 and PSO1-3
13	DETECT FACES AND ANALYSE EMOTIONS USING FACIAL EMOTION RECOGNITION API	17_2_13	PO1-12 and PSO1-3
14	CHARCOAL SENSOR BASED TRUE RANDOM NUMBER GENERATOR FOR CRYPTOGRAPHIC APPLICATION	17_3_1	PO1-12 and PSO1-3

	SOLVING THE INVERSE PROBLEM OF ARTIFICIAL IMAGE COLOURISATION USING CONDITIONED DEEP LEARNING TECHNIQUES	17_3_4 (a)	PO1-12 and PSO1-3
15 16	AUTONOMOUS SOIL FERTILITY DETECTOR ROVER USING IOT AND MACHINE LEARNING	17_4_14	PO1-12 and PSO1-3
18	EARLY DETECTION OF FOREST FIRE USING DIGITAL IMAGE PROCESSING	16_1_2	PO1-12 and PSO1-3
19	AI BASED DEVANAGARI CHARACTER RECOGNITION	16_1_4	PO1-12 and PSO1-3
20	VOICE COMMUNICATION USING LASER LIGHT AND SOLAR PANEL	16_1_6	PO1-12 and PSO1-3
21	LITERAL TRANSLATION OF NATIVE TO BRAILLE	16_1_14	PO1-12 and PSO1-3
22	MAGNETIC LEVITATION WITH ARDUINO	16_2_7	PO1-12 and PSO1-3
23	DROWSINESS DETECTION USING NEURAL NETWORK	16_3_10	PO1-12 and PSO1-3
	IMPLEMENTATION OF IMAGE PROCESSING IN THE DETECTION OF PLANT DISEASES	16_3_15	PO1-12 and PSO1-3

D. Process to assess individual and team performance

Project Assessment

Performance in Project components is evaluated separately by the project guide, panel members, reviewers, and external evaluators. The assessment takes into account model/ prototype / construction material development, use of modern engineering tools, presentation, viva, reviews, report writing, and individual contributions.

Since the 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 showcase their project and the project are evaluated.

E. 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.	Authors Name	Title of the Paper	Journal/Conference Name	Year of Publication
1	Swetaleena Sahoo, Yash Keju Barapatre, Harish Kumar Sahoo, Sarita Nanda	FPGA implementation of fuzzy sparse adaptive equalizer for indoor wireless communication systems	Applied Soft Computing	2021
2	Sagnik Banerjee, Uddipan Nath, Purba Dutta, Amitkumar Vidyakant Jha, Bhargav Appasani, Nicu Bizon	A Theoretical Terahertz Metamaterial Absorber Structure with a High Quality Factor Using Two Circular Ring Resonators for Biomedical Sensing	Inventions	2021
3	Krishna, R.R.; Priyadarshini, A.; Jha, A.V.; Appasani, B.; Srinivasulu, A.; Bizon, N	State-of-the-Art Review on IoT Threats and Attacks: Taxonomy, Challenges and Solutions	Sustainability	2021
4	HARSHIT GUPTA, PRITAM KUMAR, SHUBHAM SAURABH, SUNIL KUMAR MISHRA, BHARGAV APPASANI, AVADH PATI, CRISTIAN RAVARIU, AVIRENI SRINIVASULU	CATEGORY BOOSTING MACHINE LEARNING ALGORITHM FOR BREAST CANCER PREDICTION	Rev Roumaine des Sciences Techniques-Series Electrotechnique et Energetique	2021
5	Rasmita Lenka ¹ , Koustav Dutta ¹ , Soumya Ranjan Nayak ² , Asimananda Khandual ³ , Akash Kumar Bhoi ⁴ ,	"Med-Net: A Novel Approach to ECG Anomaly Detection Using LSTM Auto encoders		2021
6	Anjana Kumari, Yash Keju Barapatre, Swetaleena Sahoo & Sarita Nanda	Adaptive decision feedback equaliser based on sparse incremental least mean square/fourth approach	Pramana - J Phys 95, 127 (2021)	2021
7	Behera, S. K. Mohapatra, U. C. Samal et. al.	CH selection via adaptive threshold design aligned on network energy	IEEE Sensor Journal	2021
9	Ritika Raj Krishna, Aanchal Priyadarshini, Samarth Bhandari, Rahul Mishra, Nirmal Kumar Rout	COVID-19 Self-Assessment/Monitoring App	Journal of Huazhong University of Science and Technology	2021
10	Sagnik Banerjee, Purba Dutta, Amitkumar V Jha, Prabhat Ranjan Tripathi, Avireni Srinivasulu, Bhargav Appasani, Cristian Ravariu	A Triple Band Highly Sensitive Refractive Index Sensor Using Terahertz Metamaterial Perfect Absorber	Progress In Electromagnetics Research M	2021
11	Ho Le Minh Toan, Sruti Suvarasini Singh, Subir Kumar Maity	Analysis of temperature effect in quadruple gate nano-scale finfet	Silicon, Springer Netherlands	2021
12	Mohanty S., Rashid M. H. A., Mridul M., Mohanty C., Swayamsiddha S.	Application of Artificial Intelligence in COVID-19 drug repurposing	Diabetes & Metabolic Syndrome: Clinical Research & Reviews, Elsevier	2020
13	Vijay Kumar Verma, Rajeev Kumar Ranjan, Pallav Prince, Bhargav Appasani, Nicu Bizon, Phatiphat Thounthong	A new active control driver circuit for satellite's torquer system using second generation current conveyor	Electronics	2020
14	Ayaskanta Mishra, Sayan Karmakar, Ankush Bose & Ankita Dutta	Design and development of IoT-based latency-optimized augmented reality framework in home automation and telemetry for smart lifestyle	Journal of Reliable Intelligent Environments (Springer Nature)	2020
15	Chakraborty A., Shah S. C., Kumar Y. S., Samant T., Swayamsiddha S	Smart Parking System based on the IR sensor and Node MCU with the Blynk application	International Journal of Sensors, Wireless Communications and Control	2020
16	Ho Le Minh Toan, Sruti Suvarasini Singh	Investigation on Quadruple Gate FinFET Structure in Absence of All the Corner Metal Gate Regions	IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS)	2020
17	Appasani Bhargav, Prince Pallav; Ranjan Rajeev Kumar, Nisha Gupta; Verma, Vijay Kumar;	A simple multi-band metamaterial absorber with combined polarization sensitive and polarization insensitive characteristics for terahertz applications	Plasmonics	2019
18	P. Kumar, V. Kumar, J. S. Roy	Design of Quad Core Photonic Crystal Fibers with Flattened Zero Dispersion	International Journal of Electronics and Communications (AEUE), Elsevier	2019
19	D. Dutta, A. Pradhan, O. P. Acharya, and S. K. Mohapatra	IoT Based Pollution Monitoring and Health Correlation: A Case Study on Smart City	Int. Journal of System Assurance Engineering and Management	2019
20	Ayaskanta Mishra, Nisha Ghosh, Pujarini Jena	Internet of Things based Waste Management System for Smart Cities: A real time route optimization for waste collection vehicles	International Journal of Computer Sciences and Engineering	2019
21	Ayaskanta Mishra, Abhijit Karmakar, Abhirup Ghatak, Subhranil Ghosh, Aayush Ojha, Kaustav Patra	Low Cost Parking System For Smart Cities: A Vehicle Occupancy Sensing And Resource Optimization Technique Using IoT And Cloud PaaS	International Journal of Scientific & Technology Research	2019
22	P Kumar, Rohan, V. Kumar, J. S. Roy	Dodecagonal Photonic Crystal Fibers with Negative Dispersion and Low Confinement Loss	Optik - International Journal for Light and Electron Optics, Elsevier	2018
23	Ayaskanta Mishra , Biswarup Chakraborty , Debajyoti Das , Priyankar Bose	AD8232 based Smart Healthcare System using Internet of Things (IoT)	International Journal of Engineering Research & Technology (IJERT)	2018
24	Ayaskanta Mishra, Akanksha Kumari, Pooja Sajit, Pranjal Pandey	Remote web based ECG Monitoring using MQTT Protocol for IoT in Healthcare	International Journal of Advance Engineering and Research Development 2018 (IAERD)	

A list of student award related to the student's project work is given below.

Sl. No.	Event	Team members /Individual	Awards	Year
1	Project EXPO-21	Dipam Paul	1 st Position from School of Electronics in Project EXPO 2021	2021
2	X race -IEM Kolkata	Rohit , Yashaswi, Purendra, Varshika	3rd position	2021
3	Analog Circuit Design- IIT Bhubaneswar	Hritabrata Mandal	1st prize	2021
4	ROBOVATION -IIT BHU	Aaryaman Bhardwaj, Dipanjan Bakshi, Pallabika Bora	1st position	2021
5	ICDCIT-2022	Kshitij Kumar Sharma, Chittaranjan Pradhan	2nd position	2021
6	Replica-NIT Rourkela	Dipanjan Bakshi, Prajesh Kr De, Mayukh Bhattacharya	Winners	2021
7	ROBOCON - IIT Delhi	Anshuman, Kaiwalya, Aditya, Purendra, Rohit, Shivans, Yashashwi, Varshika	Final stage	2021
8	APOGEE- BITS Pilani	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum, Vaishnavi Jaiswal	2nd position	2021
9	BITMDM-2021	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum	Published a paper in Springer	2021
10	AESPC-2021	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum	Published a paper in IEEE	2021

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 Electronics Engineering has developed a strong industry-academia partnership in order 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 of course:
- Invited lectures by Industry Experts
- Workshops/Conferences

- Industrial visits
- Industry Electives
- Industry involvement in Research
- Industry involvement in student projects
- Internships

Implementation:

- Industry Involvement in the Program Design and Curriculum

Industry-related persons are members of the Board of Studies (BoS). Any modification depending on the industry need has to be suggested by the Board of Studies members which will be sanctioned in the academic council meeting after a thorough inspection. Mr. Balaram Pal ((ITS), CGM, BBNL Bhubaneswar), Dr. Debi Prasad Das (Principal Scientist IMMT, Process Modelling & Instrumentation Dept., CSIR-IMMT, Bhubaneswar) and Mr. Anil K. Muniswamy (Managing Director, SLN Technologies Pvt. Ltd) are eminent members in the Board of Studies for School of Electronics Engineering.

As the major recruiters are the IT or IT-based companies hence some new computer programming-based courses have been modified/introduced in the syllabus such as Data Structure and Algorithms, Computer Programming Lab, and Data Structure Lab.

Industry-related training and Industry visit is mandatory for the second-year and third-year students. Also, to evaluate the depth of their training a Practical Training Viva is conducted in the final year having two credit points.

A dedicated Industry Engagement Cell (IEC) is established in the department to organize industry visits for students, arrange training on different technical domains, inform students on different technical training programs and groom them for industry placements. Different industry visits are arranged for the students by the IEC.

Several technical and design workshops/ Seminars have been organized by the IEC Cell. Technical talks have been arranged by eminent industry persons across the globe as a best practice.

School of Electronics Engineering, KIIT Deemed to be University has a Center of Excellence (CoE) in the field of Internet of Things in partnership with Microchip Inc. A product development center, for students and faculty members, to develop projects based on Microchip’s platforms which will be supported by Microchip for IP generation and monetization if found fit. Also, another Centre of excellence, NI Innovation Lab, has been set up in School of Electronics Engineering. LabVIEW-based experiments have been introduced in several laboratory modules of the B.Tech. programme.

To build the foundation of cutting-edge emerging technologies, various courses have been designed. For instance, recently inferential statistics subject is introduced which helps a student to grab the core idea of data science in more depth.

- **Industry Supported Laboratories**
 - Microchip Centre of Excellence Lab – School of Electronics Engineering, KIIT Deemed to be University has a Center of Excellence (CoE) in the field of Internet of Things in partnership with Microchip Inc. A product development center, for students and faculty

members, to develop projects based on Microchip's platforms which will be supported by Microchip for IP generation and monetization if found fit. As part of MoU, there are various provisions have been made such as, Microchip will provide free technical knowledge through the course material and video courseware for all the students of KIIT, will facilitate discount on all hardware and software tools for the Center of Excellence(COE) at KIIT, will make its best efforts to appoint Eduvance, which is a Microchip certified training partner, as the entity responsible for setting up the COE, technology transfer, training and coordinating the COE's various activities in collaboration with Microchip, will provide a special discount for all KIIT students on Microchip Training Certification and also will make best efforts to provide opportunities for internships and full-time employment to students of KIIT at Microchip.

- NI Centre of Excellence - The NI Centre of Excellence, School of Electronics Engineering provides support to expand educational and research activities in the field of Electronics and Communication Engineering. This lab focuses on carrying out academic and industrial oriented research work with the help of different NI instruments and LABVIEW software from National Instruments. Students and Faculty members and research scholars are doing research in the area like Signal Processing, Image Processing, Instrumentation and many more.

• **Industry Elective Courses**

Sl. No.	Course Name	Offered by	Year
1	Telecom BSS (business Support System)	CSG Talent Development Program	March, 2022
2	Cloud Technology	Ericsson	September, 2021
3	Cloud Technology	Ericsson	January, 2020
4	Media and Application	Ericsson	January, 2018
5	fibre Technology	Ericsson	January, 2018
6	Fibre Technology	Ericsson	January, 2019

• **Table of Guest Lectures**

SL no.	Name of the School	Year	Name of the Workshop/Seminar Conducted	Number of participants
1	School of Electronics Engineering	2022	LoRa Signal Propagation Modeling for Medical Communication	62
2	School of Electronics Engineering	2022	Power electronics in today's world	56

3	School of Electronics Engineering	2022	Substrate Integrated Waveguides	58
4	School of Electronics Engineering	2021	Visible Light communication for 6G:possible applications scenarios in vehicular, Indoor and underwater communication	55
5	School of Electronics Engineering	2021	Fuzzy Machine Learning for Remote Sensing Data Classification	48
6	School of Electronics Engineering	2021	Backend Implmentation and the VLSI Industry	55
7	School of Electronics Engineering	2021	Automotive Electronics: Emerging Trends and Opportunities	120
8	School of Electronics Engineering	2021	Field Effect Transistor Based Biosensor for Detection of Glutathione	70
9	School of Electronics Engineering	2021	Lecture on ABot4G, 5G, and CIoT network protocol tester.	30
10	School of Electronics Engineering	2021	Gamma oscillations in the brain cimputer interface (BCI): a tool to investigate brain function in health and disease	65
11	School of Electronics Engineering	2020	Recent Trends in Antenna Technology for Modern Day Communication	120
12	School of Electronics Engineering	2020	Webinar on Time-Frequency Analysis Techniques	70
13	School of Electronics Engineering	2020	Webinar on Deep Learning Approaches for Natural Language Processing	70
14	School of Electronics Engineering	2020	PID Control of OWC Plant to Improve Ocean Wave Energy Capture	70
15	School of Electronics Engineering	2020	Lecture on IoT Based LPG Cylinder Monitoring System	35
16	School of Electronics Engineering	2020	Lecture on design of Smart Antenna Arrays for WiMAX Application using LMS algorithm Under Fading Channels	52
17	School of Electronics Engineering	2020	Lecture on cyber Security: Identifying a Criminal Network of Trust	72
18	School of Electronics Engineering	2020	Lecture on differential Evolution based Location Management in Mobile Networks and Performance Comparison of Variants of Hybrid FLANN-DE for Intelligent Nonlinear Dynamic System Identification	45

19	School of Electronics Engineering	2020	Lecture on Analytical Modelling and Optimal Control of Cold Storage System with Large Scale Implementation Using IoT	60
20	School of Electronics Engineering	2020	Lecture on performance Evaluation of Routing Protocols on Synchrophasor Communication Networks	60
21	School of Electronics Engineering	2020	Lecture on Human Intelligence and Deep Learning	70
22	School of Electronics Engineering	2020	Recent trends in anttens technology for modern day communication	45
23	School of Electronics Engineering	2019	3rd International Conference on Solar Energy Photovoltaic(ICSEP-2019)	150
24	School of Electronics Engineering	2019	Lecture on mobile Telecom and EMR Awareness and Purpose of life	58
25	School of Electronics Engineering	2019	Lecture on erformance of SC-FDMA for LTE Uplink under Different Modulation Schemes	44
26	School of Electronics Engineering	2019	Lecture on deep Learning: an overview	50
27	School of Electronics Engineering	2019	Lecture on ractional-order control system design and DSP implementation	50
28	School of Electronics Engineering	2019	Lecture on design of Cascade ControlStructure for Stable Processes using Method of Moments	70
29	School of Electronics Engineering	2019	Fractional-order control system design & DSP implementation	33
30	School of Electronics Engineering	2019	Deep learning:an overview	36
31	School of Electronics Engineering	2019	Performance of SC-FDMA for LTE Uplink under different modulation schemes.	24
32	School of Electronics Engineering	2019	Machine Learning for Signal & Image Processing	70
33	School of Electronics Engineering	2019	Talk on "Design of cascade control structure for stable processes using method of Monments"op Emerging Technology Trends & Digital Applications"	42
34	School of Electronics Engineering	2019	Talk on state-of the-Art Methods for Brain Tissue Segmentation	70

35	School of Electronics Engineering	2019	ENTREPRENEURSHIP AWARENESS CAMP (EAC), supported by DST	64
36	School of Electronics Engineering	2019	Antenna design & measurement	62
37	School of Electronics Engineering	2018	IEEE International Conference on FcascApplied Electromagnetics, Signal Processing & Communication (AESPC-2018)	150
38	School of Electronics Engineering	2018	National workshop on Process Dynamics, Control & Applications	40
39	School of Electronics Engineering	2018	Workshop on IEEE Advanced School of Antenna	35
40	School of Electronics Engineering	2018	Talk on The Future of Mobility-Technology Behind Self Driving Cars	50
41	School of Electronics Engineering	2018	ENTREPRENEURSHIP AWARENESS CAMP (EAC), supported by DST	99

- **Internship with External Agencies**

Project-Based Courses	Hours	Fees (including GST, where ever applicable)
Internet of Things with Data Analytics (Online)	65	4499/-
Embedded System and Robotics (Online)	65	4499/-
Cyber Security (Ethical Hacking) (Online)	40	5500/-
Cisco CCNA Networking (Online)	40	4000/-
Analytics using Microsoft Power BI (Business Intelligence) (Online)	40	4200/-
Python Programming (Core) (Only 2021 Admitted Batch) (Online)	40	3500/-
Full Stack Web Development with ReactJS (Online)	60	5200/-
Embedded Systems and IoT in Collaboration with Microchip (Offline Mode)	60	4500/-
3D Modeling and AR-VR (Online)	60	4000/-
Recent Trends in Artificial Intelligence and Power Electronics	60	2000/-

- **Industry Internship**

2020		2021		2022	
Sl. No.	Company	Sl. No.	Company Name	Sl. No.	Company Name
1	Accenture	1	Board Infinity	1	GE Research
2	Altran	2	Capgemini	2	KPMG
3	Artech Infosystem	3	Climber	3	Mærsk Global Service Centres (India) Ltd.
4	Bidgely Technologies Ltd.	4	Climber(2nd Visit)	4	DeltaX
5	Capgemini	5	CRMNEXT-2nd Visit	5	ZS Associate
6	Comviva	6	Dell (PPO) 2nd Visit	6	Celebal Technologies
7	Danamojo	7	Dreamgains financial	7	PwC India
8	Decathlon	8	Ericsson	8	Big Oh Notation
9	Deloitte Advisory	9	Hexaware (Off Campus)	9	PhysicsWallah
10	Dreamgains	10	Infinite Computer Solutions	10	Harman Connected Services
11	Edupolis	11	K12 Techno Services	11	Merkle Sokrati
12	Ericsson	12	Keka Technologies	12	Nutanix
13	Extrieve Technologies Pvt.Ltd.	13	KPMG(GRCS)	13	Keka-Developer
14	GMI	14	KPMG(DTI-BE Tech)	14	Exotel
15	HighRadius	15	KPMG(DTI-MS)	15	State Street Corporation
16	HoloSuit	16	KPMG(ITA)	16	Mærsk (Salesforce)
17	HP Inc	17	Lead Squared	17	Deloitte
18	IBM GBS	18	Leverage Edu	18	CBNITS India
19	Infogain India	19	LIDO Learning	19	EY GDS
20	ITC Infotech	20	Maersk	20	GirnarSoft
21	KPMG	21	Merkle Sokrati	21	Hexaware Technologies
22	Lendingkart	22	MetricStream	22	HP Inc.
23	Lido Learning	23	Mindtree	23	My Captain
24	McKinsey	24	Nutanix	24	Zaggle Prepaid Ocean Services

25	Merkle Sokrati	25	Personext	25	VVDN Technologies
26	Mindtree	26	PlanetSpark	26	Vodafone Idea Limited
27	NCR Corporation	27	Principal Global	27	Tiger Analytics
28	NRI Fintech	28	PwC	28	Tetrasoft
29	Pristyn Care	29	Robert Bosch	29	OpenText
30	PwC	30	Societe Generale	30	Peoplestrong
31	Reports & Data	31	Tek System	31	Publicis Sapiient
32	Robert Bosch	32	Unschool Learning	32	Brandscapes
33	Samsung Heavy	33	VerZeo	33	EcoLab
34	Sapio	34	ZS Associate (BTA)	34	Skywa
35	UpGrad			35	Practo
36	ZS Associates			36	TCS
				37	SynorIQ
				38	Cloud Analogy
				39	HCL
				40	Robert Bosch
				41	Ericsson
				42	Capgemini

Impact Analysis

- A professional attitude is developed among students
- Students develop the ability to publish papers in national and international conferences and journals
- Students won prizes in various state level, national and international level project design contest
- Growth of technical skill among students in latest technologies.
- As the students develops extra skills required for Have an edge in the job market
- More focused growth for students
- Easy transition into a job

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

(Mention the initiatives, implementation details and impact analysis)

Process	Implementation	Impact
Summer training and internship in the curricular plan.	Summer training is a mandatory component of the curriculum and selected students undergo for an internship program. These are also credit-based components put as essential Academic	Students are exposed to a real industrial environment which changes their mindset as a real-world engineer and motivates them to face challenges in a real industrial environment.

	<p>requirements. Students used to take four weeks of summer training in the fourth semester and four weeks of internship in the sixth semester at various reputed private or public sector companies. In the fourth semester. The school also arranged in-house training programs in association with industry experts for which a student can opt for in the sixth semester. It is mandatory for the students to take a one-month internship in the industry to experience real industrial environment</p>	
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A. List of Industry Internship (2021-22)

Sl. No.	Full Name of Student	Organisation where the internship training has been done or research project undertaken	Location of Internship (Place)
1	Snehasish Basu	GirlsScript Foundation	Remote Internship
2	Ayndrila Roy	Kalinga Institute of Industrial Technology	I have not done any internship
3	DIOTEEMA GANGULY	Internshala , Coursera , Google Digital Unlocked	Online mode
4	HARSHEETA KUMARI	JPMORGHAN CHASE AND CO	ONLINE
5	Hrithik Singh	BSNL	NSCBTTC Kalyani
6	Jaydeeptha Das	MUN	Bhubaneswar
7	Manas Misra	JP Morgan Chase	Online
8	Nayanika Pal	Verzeo	online mode
9	Rohit Kumar	Latracal solutions	work from home
10	Sagnik Ghosh	BSNL	Kalyani Kolkata
11	Bhavya Mishra	Internshala (on-going training)	kanpur , Uttar Pradesh (online mode)
12	Manjima Boruah	Verzeo	online mode
13	Sayan Majumdar	Verzeo	Online (From Home)
14	SHLOK SAGAR TIWARI	OTS World	Ranchi, Jharkhand
15	Shubhranjali Singh	Codepth Technologics	Bhubaneshwar
16	Sahil Anjum	Hillytech_Starter	Dehradun
17	SIDDHARTH PRUSTY	SHAPE AI with Microsoft Student Learn Ambassador,AWS BUILDERS ONLINE SERIES,TechBairn,Coding	Online

		Blocks,KIIT AFM.	
18	Vibhav Singh	Hillytech Starter	Dehradun,Uttarakhand
19	Viswanath Akash	Google Cloud	Online (from home)
20	Priti Pachal	National Institute for Industrial Training	Kolkata
21	Priyadarshini Dey	Microsoft	Online
22	Sayan Biswas	Internshala	Online
23	shefali samantaray	scaler edge	online
24	Shibashis Dey	National Institute for Industrial Training	West Bengal, kolkata salt lake
25	SOUMITA TALUKDAR	GitHub and IncubateIND	ONLINE
26	TRIPTI ROY	Scaler Edge(Workshop)	online
27	AASHRUTI BASAK	INTERNSHALA	ONLINE INTERNSHIP
28	Gautami Kumari	Internshala Training	ONLINE
29	Prajesh Kumar de	Kiit-technology business incubator	Home
30	Sweta Roy	BSNL(Netaji Subhas Chandra Bose Telecom Training Centre	Kalyani simanta, Kalyani, Nadia, West Bengal-741235(online mode)
31	TIYASA JANA	Internshala	online Training
32	Aritra Shankar Ghosh	Google	From Home
33	Debanik Biswas	Machine learning workshop	Bhubaneswar
34	NIKHIL KUMAR	HillyTech Starter	Majhon, Ponda, Uttarakhand 248007
35	Pratik Lahiri	Hillytech Starter	Dehradun, Uttarakhand
36	Purnendu Dutta Jha	KIIT technology Business Incubator	Online
37	Arunabha DAS	KIIT	KIIT
38	Hemant Kumar Gupta	The Sparks Foundation	Work From home
39	Mayukh Bhattacharya	KIIT Business Incubator	Home
40	Prajeet Mukherjee	Internshala and Internship Studio	Online Internship
41	Prerna kumari	Internshala	Jharkhand (online)
42	Anubhavranjan Dasgupta	Michigan University	Online
43	Ahandeep Maiti	Github	Github
44	Santanu Biswas	Google	Work From Home
45	Monishita Ghosh	KPMG	Work From Home
46	Anujit Sengupta	KPMG	Work From Home
47	Kaushiki Biswas	KPMG	Work From Home

B. Summer Internship

Sl. No.	Name of the Training Course	Organization	Total No. of students taken the course	No. of Hours
1	Recent Trends in Artificial Intelligence and Power Electronics	KIIT	58	50
2	Machine Learning using Python	KIIT	90	40
3	Artificial Intelligence and Deep Learning	KIIT	4	60
4	Cyber Security (Ethical Hacking CEH)	KIIT	14	40
5	Python Programing	KIIT	24	30
6	CCNA Pouting and Switching Networks	KIIT	18	50
7	LabVIEW & Interfacing	KIIT	8	30
8	IoT and Embedded PLC	KIIT	28	50

Impact Analysis:

- 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 learn to appreciate the inter-disciplinary nature of work environment
- Students also develop a network of associations / relationships in the organizations they intern with, which translates into industry mentor-mentee relationships
- Students gain valuable work experience.
- Students have an edge in the job market
- Students participate in more technical events

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:..... Semester.....

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					
Effectiveness in communicating the course content was					
The instructor's ability and willingness to answer the questions					
Ability to keep the session lively and interesting was					
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 during the industrial training/internship?

3. What would you suggest to improve the industrial training/internship?

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)

- Ability to design and implement electronic circuits, signal processing and communication systems in industry.
- Ability to carry out research in fields of embedded systems, wireless and high speed communication, and advanced signal processing.
- Ability to utilize the knowledge in solving practical problems in real life.

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	3	2.8	2.5	2.7	1.5	1.7	2	-	1	-	-	2.5	-	-	-
C102	2	1.3	1	1	-	-	-	-	-	-	-	1	-	-	-
C103	2	2	2.1	1.8	-	1.5	1.6	-	-	-	-	1.6	1	-	1
C104	3	2	1	1	-	-	-	-	-	-	-	-	-	-	-
C105	2.2	1.6	2	-	-	-	-	-	-	-	-	-	-	-	-
C106	2.6	3	2.4	1.8	2.2	1.7	1.6	1	3	1	-	1.25	1	-	1.1
C107	1.5	1.3	1.4	1.8	1.5	1.3	1.5	1.5	2.3	1	1.5	1.3	-	-	-
C108	1	1	2	3	2	2	3	3	3	2	2.2	2	-	-	-
C109	3	3	1	3	-	-	-	-	-	-	-	2.7	-	-	-
C110	2.8	2.8	3	2.3	-	1.5	1.5	-	1	-	-	1	-	-	-
C111	-	-	-	-	-	-	3	2.2	-	3	1	2	-	-	-
C112	3	2	1	1	-	2	2	-	-	-	-	-	-	-	-
C113	2.6	2.8	2.6	2.1	2.2	-	-	1	-	1	-	1.6	-	-	-
C114	2.2	2.3	-	2.5	1	-	1	-	-	-	-	-	-	-	-
C115	1	1	-	-	-	2	-	-	2	3	1	-	-	-	2

C116	1.5	1.7	-	-	2.6	1	-	-	-	-	1.7	1	-	-	-
C117	-	-	-	-	-	3	-	3	-	-	-	3	-	-	-
C201	3	3	1.5	2.7	-	-	-	-	2	-	-	3	-	-	-
C202	3	3	3	1	-	-	-	-	1	-	-	2	3	2	3
C203	3	1.6	1.6	1.4	-	1	1.5	1	1	-	-	1.5	3	3	3
C204	2.8	2.8	3	1.6	-	1	-	-	1	-	-	2.3	1.8	1.6	1.6
C205	1.6	1.8	2.1	2	1.5	-	-	1	1	1	-	1.8	-	-	-
C206	-	-	-	-	-	-	1	-	3	2.8	1	3	-	-	-
C207	2.1	2.1	2.1	2.1	2	1	-	1	2	-	-	2.1	2.1	2.1	2.1
C208	3	3	3	2	1.6	-	-	2	2	1	-	2.8	2.1	2	3
C209	2.5	1.8	2.5	1.3	2	-	-	1	1	1	-	2.2	-	-	-
C210	-	-	-	-	-	-	1	-	3	2.8	1	3	-	-	-
C211	3	3	3	2	-	2	-	-	2	1	-	1	3	2	3
C212	3	2.8	2.8	2	1.6	2	-	-	2	-	-	2.8	2.1	2	2
C213	3	2.3	2.3	2.2	-	-	2	-	2	1	2.5	2.2	2.7	2	2.7
C214	2.6	2.6	2.6	2.8	-	1	-	-	1	-	-	1.5	2	1.1	1.5
C215	3	2.8	2.8	2	-	-	-	-	1	-	-	2	2	2.8	1.8
C216	3	3	1.6	2.5	2	-	-	-	1	-	-	1	1.6	1.1	3
C217	2.1	2.1	2.6	1.6	2.3	1	-	1	2	1	-	2	2.6	2.3	2.1
C218	2.8	2.8	2.6	2	2.1	1.1	-	1.6	1.8	1	-	3	2	2	3
C219	3	3	3	2	1.1	-	1	1	2	-	-	2.8	2.1	3	2
C301	2.3	2.1	2.3	2.3	-	1	1	-	1	-	-	1.6	2.5	1.8	2.3
C302	3	2.6	2.6	3	2	1	-	1	1.1	1	-	2.5	3	2.8	2.8

C303	3	3	1.3	2.5	2.4	1	-	-	-	1.5	1	1	1.6	1.8	3
C304	3	3	2.1	2	-	-	-	-	1	-	-	2	2.8	3	3
C307	3	3	1	2	1	-	1	1	2	1	-	2	3	2	2
C308	3	3	1	2	1	-	1	1	2	1	-	2	3	2	2
C309	3	3	3	3	3	1	1	-	2	1	1	2	3	3	3
C310	3	3	1.5	2.7	-	-	-	-	2	-	-	3	-	-	-
C311	3	2.5	2.6	2	-	-	-	-	-	-	-	2	3	2.8	2.8
C312	3	2.6	1.1	1.1	-	1	1	-	1	-	-	1.8	2.1	2.3	2.1
C317	3	2.6	2.1	1.8	1.8	-	-	1.6	2.1	1	-	2	2.1	1.8	2
C318	3	3	2	2.5	1.8	3	1	-	-	2.1	2	1	3	1	3
C319	3	3	3	3	3	1	1	2	2	1	1	1	3	2.5	3
C320	2.5	2	2.5	2.8	2.5	1.7	1.7	1.8	2.8	1.5	2.1	2.8	2.1	2.2	2.2
C401	-	-	1	-	-	3	1	2	-	-	1	1	-	-	-
C402	-	-	-	-	-	1	-	3	1	-	1	1	-	-	-
C404	2.5	2	2.5	2.8	2.5	1.7	1.7	1.8	2.8	1.5	2.1	2.8	2.1	2.2	2.2
C405	1.8	1.5	1.6	1.6	1.6	3	2.5	2.5	2.8	3	2	3	3	3	3
C406	2.5	2	2.5	2.8	2.5	1.7	1.7	1.8	2.8	1.5	2.1	2.8	2.1	2.2	2.2

*Table
B.3.1a*

Course Articulation Matrix

Subject: C204 (Digital Electronics)

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C204.1	Comprehend, simplify and realize Boolean expressions	3	3	3	2	-	1	-	-	1	-	-	3	2	2	2
C204.2	Comprehend and analyze combinational circuits using logic gates	3	3	3	2	-	1	-	-	1	-	-	3	2	2	2
C204.3	Design various asynchronous & synchronous sequential	3	3	3	2	-	1	-	--	1	-	-	2	3	2	2
C204.4	Design & implement Mealy and Moore model FSMs for synchronous sequential circuits	3	3	3	1	-	1	-	-	1	-	-	2	1	1	1
C204.5	Analyze and differentiate between TTL & CMOS chips	2	2	3	1	-	1	-	-	1	-	-	2	1	1	1
C204.6	Comprehend and analyze the concept of Analog-to-Digital converters and Digital-to-Analog converters.	3	3	3	2	-	1	-	-	1	-	-	2	2	2	2

**Table
B.3.1b
i**

Subject: C302 (Data Communication and Networking)

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	analyze the function of OSI model and Layered Architecture and Compare and contrast different analog and	3	3	2	3			-		1	1	-	2	3	3	2
C302.2	analyze algorithms and calculate parameters associated with Flow Control, Error control and Media	3	3	3	3			-		1	1	-	3	3	3	3
C302.3	evaluate and calculate parameters related to Routing Algorithms and protocols and design network	3	3	3	3	2	1	-	1	2	1	-	3	3	3	3
C302.4	investigate various network layer protocols for Address Resolution, Address Translation, Domain Name	3	2	3	3	2	1	-	1	1	1	-	2	3	2	3

C302.5	investigate different Transport layer protocols and calculate	3	3	3	3	2	-	-	1	1	1	-	3	3	3	3
C302.6	differentiate between different Quality of Service (QoS)	3	2	2	3	-	-	-	1	1	-	2	3	3	3	

**Table
B.3.1b
ii**

Add and delete rows for Course Outcomes as needed

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

If there is no correlation, put "-"

2. Add more columns for PSOs

3. The table 3.1 can be prepared in landscape mode if required.

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
<p>Theory courses (assessed out of 100 marks)</p>	<ul style="list-style-type: none"> • Continuous assessment of 30 marks: <ul style="list-style-type: none"> ○ 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): <ul style="list-style-type: none"> ○ 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. ○ 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): <ul style="list-style-type: none"> ○ 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. ○ 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. 	<ul style="list-style-type: none"> • Continuous assessment is done by the concerned faculty member for the course teaching the student. • Answer script for mid semester examination is evaluated by the designated faculty member and marks passed on to the examination cell for further compilation. • Answer script for end semester examination is evaluated by the designated faculty member and marks passed on to the examination cell for further compilation.
<p>Practical courses (assessed out of 100 marks)</p>	<ul style="list-style-type: none"> • Continuous assessment of 60 marks <ul style="list-style-type: none"> ○ 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. 	<ul style="list-style-type: none"> • Continuous assessment is done by the concerned faculty member for the laboratory course teaching the student.

	<ul style="list-style-type: none"> • End semester examination/ assessment of 40 marks <ul style="list-style-type: none"> ○ 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. 	<ul style="list-style-type: none"> • 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.
Sessional courses (assessed out of 100 marks)	<ul style="list-style-type: none"> • Continuous assessment of 100 marks: <ul style="list-style-type: none"> ○ 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 different outcomes and the students' marks or score in that category is used to compute the attainment 	<ul style="list-style-type: none"> • 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 processing.
Projects (assessed out of 100 marks)	<ul style="list-style-type: none"> • 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 : <ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> • Evaluators are already mentioned. The logistics for undergraduate programs is 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.

	<p>f. Project report (20 marks)</p> <p>g. Individual contribution report (10 marks by guide).</p> <p>h. Performance of the student as a member of the group (10 marks by guide).</p> <p>The panel reviewing the project work are external members from academia and industry. Suggestions made by the external members are noted by the project guides for future reference.</p>	
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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	≤ 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 is 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
Theory Course	Continuous Evaluation	30	Cumulative Internal Examination (CIE)	50
	Mid-Semester Examination	20		
	End Semester Examination	50	Semester End Examination (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.

Course Outcomes	Continuous Evaluation		Mid Semester Examination		Cumulative Internal Examination		
	Total marks obtained by all the student corresponding to each CO	Total marks allotted questions mapped to each CO (considering all the students)	Total marks obtained by all the student corresponding to each CO	Total marks allotted to questions mapped each CO (considering all the students)	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	Y'	Y	X'+Y'	X+Y	$\frac{X'+Y'}{X+Y} \times 100$

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

Course Outcomes	Semester End Examination		
	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	$Z'/Z \times 100$

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.

Attainment levels and threshold levels of 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 SEE (=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 Evaluation (Experimental activities/ tasks)	60	Cumulative Internal Examination (CIE)	60
	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.

Course Outcomes	Cumulative Internal Examination		
	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.

Course Outcomes	Semester End Examination		
	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 threshold levels as given below.

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 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 SEE (=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 Course	Continuous Evaluation (Experimental activities/ tasks)	100	Cumulative Internal 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.

Course Outcomes	Cumulative Internal Examination		
	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 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

Final Attainment level= CO Attainment in CIE

EXAMPLE OF COURSE OUTCOME ATTAINMENT OF A THEORY COURSE: Microprocessors, and Microcontrollers (EC 3003)

Course Outcomes

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

CO1: Analyze/Identify the operation of the components of a typical 8-bit Microprocessor (like 8085) i.e., the role of Registers, ALU, use of Interrupts and Stack.

CO2: Analyze the addressing modes, machine cycles, timing diagrams, and utilize the assembly language to implement basic arithmetic/logical operations.

CO3: Design Memory interfacing problems using RAM and EPROM chips with decoder circuits like 3-to-8-line decoder and NAND Gates.

CO4: Analyze the operation of peripherals viz., PPI, PIC, USART and develop appropriate decoding circuits to be used with 8- and 16-bit Microprocessors.

CO5: Analyze/Identify the operation of the components of a typical 16-bit Microprocessor (like 8086) i.e. the role of Registers, ALU, use of Interrupts and Stack.

CO6: Analyze the memory organization, SFRs, timer and counter operation as well as assembly language programming of 8-bit Microcontrollers (like MCS-8051).

Table 1: Course Outcomes and Activities Mapping of Continuous Assessment

Activity No	CO1	CO2	CO3	CO4	CO5	CO6
1	√	√	√			
2	√	√	√			
3						
4				√	√	√
5				√	√	√
6	√	√	√	√	√	√

Table 2: Mark Calculation of Continuous Evaluation

Mark Calculation of Continuous Evaluation										
Program	Branch	Batch	Academic Year		Semester		Course Code		Course Name	
B.Tech.	ETC	2017 - 2021	2019-2020		5th		EC 3003		Microprocessor and Microcontrollers	
Activity		Full marks	CO1	CO2	CO3	CO4	CO5	CO6	No of students appearing in the examination/attempting the question	Added Marks of all students for the question
Activity 1		5	1	2	2				185	789
Activity 2		5	2	1	2				185	843
Activity 3		5				2	2	1	185	748
Activity 4		5				2	1	2	185	836
Activity 5		10	1	1	2	2	2	2	185	1165

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CO Number	Total marks allotted corresponding to each CO	Total marks secured corresponding to each CO
CO1	740	612
CO2	740	601
CO3	1110	886
CO4	1110	867
CO5	925	699
CO6	925	717

Table 3: Mark Calculation of Mid Semester Evaluation

Program me	Branch	Batch	Academic Year		Semster		Course Code		Course Name	
B.Tech.	ETC	2017-2021	2019-2020		5th		EC3003		Microprocessor and Microcontrollers	
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
SEC-A (Q1)	1a	2	2						185	298
	1b	2		2					185	312
	1c	2		2					185	323
	1d	2	2						185	298
	1e	2		2					185	352

SEC-B (Q2)	2a	10	5	5					95	673
	2b	10		10					81	772

CO Number	Total marks allotted corresponding to specific CO	Total marks secured to specific CO
CO1	1215	945
CO2	2395	1837
CO3	0	0
CO4	0	0
CO5	0	0
CO6	0	0

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

Calculation of Class Average (%) in Cumulative Internal Examination (CIE)							
Program me	Branch	Batch	Academic Year		Semster	Course Code	Course Name
B.Tech.	ETC	2017-2021	2019-2020		5th	EC 3003	Microprocessor and Microcontrollers
Course Outcome s	Continous Evaluation		Mid Semester Examination		Cumulative Internal Examination		
	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	740	612	1215	945	1955	1556	79.59
CO2	740	601	2395	1837	3135	2437	77.74
CO3	1110	886	0	0	1110	886	79.8
CO4	1110	867	0	0	1110	867	78.07
CO5	925	699	0	0	925	699	75.61
CO6	925	717	0	0	925	717	77.51

Table 5: Calculation of Class average in Semester End Examination (SEE)

Calculation of Class Average (%) in Semester End Examination (SEE)										
Program me	Branch	Batch	Academic Year		Semester		Course Code		Course Name	
B.Tech.	ETC.	2017 - 2021	2019-2020		5th		EC 3003		Microprocessor and Microcontrollers	
Question No	Sub Question No	Full marks	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	Students appearing in the examination/attempting the question	Added Marks of all students for

										the question
Sec A	1a	2	0	0	2	0	0	0	185	210
	1b	2	0	0	2	0	0	0	185	156
	1c	2	0	0	0	2	0	0	185	163
	1d	2		0	0	2	0	0	185	159
	1e	2	0	2	0	0	0	0	185	155
	1f	2	0	0	0	2	0	0	185	142
	1g	2	0	0	0	0	0	2	185	190
Sec B	2	12	12	0	0	0	0	0	162	936
	3	12	0	0	0	12	0	0	110	863
	4	12	0	0	0	0	12	0	143	1012
	5	12	0	0	0	0	0	12	87	1209

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CO Number	Total marks allotted corresponding to specific CO	Total marks secured to specific CO	Class Average (%)
CO1	1944	936	48.15
CO2	370	155	41.89
CO3	740	368	49.73
CO4	2430	1517	62.43
CO5	1716	1012	58.97
CO6	1414	1209	85.50

Table 6. Final CO Attainment

Final CO Attainment Calculation					
Programme	Branch	Batch	Academic Year		Semester
B.Tech.	ETC	2017-2021	2019-2020		5th
Course Code	EC 3003	Course Name	Microprocessor and Microcontrollers		
Target Levels for CO Attainment					
Level	1	25	≤ Class Average <		50
Level	2	50	≤ Class Average <		75
Level	3	75	≤ Class Average <		100
CO Attainment					
Course Outcomes	Cumulative Internal Examination (CIE)		Semester End Examination (SEE)		Final CO Attainment
	Weightage	50%	Weightage	50%	
	Class Average	CO Attainment Level	Class Average	CO Attainment Level	
CO1	79.59	3	48.15	1	2
CO2	77.74	3	41.89	1	2

CO3	79.80	3	49.73	1	2
CO4	78.07	3	62.43	2	2.5
CO5	75.61	3	58.97	2	2.5
CO6	77.51	3	85.50	3	3

Table 7. Observation of CO Attainment

Course Outcomes	Final CO Attainment	Target CO	Attainment (Yes/No)
CO1	2	2.50	No
CO2	2	2.50	No
CO3	2	2.50	No
CO4	2.5	2.50	Yes
CO5	2.5	2.50	Yes
CO6	3	2.50	Yes

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

Program shall set Course Outcome attainment levels for all courses.

Measuring Course Outcomes attained through Semester End Examinations (SEE)

Target may be stated in terms of percentage of students getting equal or more than the target set by the Program in SEE for each CO.

Measuring CO attainment through Cumulative Internal Examinations (CIE)

Target may be stated in terms of percentage of students getting more than class average marks or set by the program in each of the associated COs in the assessment instruments (midterm tests, assignments, mini projects, reports and presentations etc. as mapped with the COs)

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 as follows.

CO Attainment in Cumulative Internal Examination (CIE)								
Sl. No.	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
1	C101	Mathematics-I	3	3	3	3	3	2
2	C102	Physics	3	3	3	3	3	3
3	C103	Basic Electrical Engineering	3	3	2	3	3	3
4	C104	Engineering Mechanics	2	2	3	3	2	2
5	C105	Physics Lab	3	3	3	3	3	3
6	C106	Basic Electrical Engineering Lab	3	3	3	3	3	3
7	C107	Basic Manufacturing Systems	3	3	3	3	3	3
8	C108	Environmental Science	3	3	3	3	3	3
9	C109	Mathematics-II	3	2	2	3	3	2
10	C110	Chemistry	3	3	3	3	3	3
11	C111	Professional Communication	3	3	3	3	3	3
12	C112	Biology	3	3	3	3	3	3
13	C113	Computer Programming	2	3	3	3	3	3
14	C114	Chemistry Lab	3	3	3	3	3	3
15	C115	Language Lab	3	3	3	3	3	3
16	C116	Engineering Graphics	3	3	3	3	3	3
17	C117	Yoga and Human Consciousness	3	3	3	3	3	3
18	C201	Mathematics-III (Electronics)	3	3	3	2	3	3
19	C202	Electronic Devices and Circuits	2	2	3	2	3	3
20	C203	Signals and Networks	2	2	2	2	3	3
21	C204	Digital Electronics	3	3	3	2	3	3
22	C205	Data Structure and Algorithms	3	3	3	3	3	3
23	C206	HS Elective-I	3	3	3	3	3	3
24	C207	Electronic Circuits & Network Lab	3	3	2	3	3	3
25	C208	Digital Electronics Lab	3	3	3	3	3	3
26	C209	Data Structures Lab	3	3	3	3	2	3
27	C210	Business Communication	3	3	3	3	3	3
28	C211	Advanced Electronic Circuits	3	3	3	3	3	3
29	C212	Microprocessors, Microcontrollers & Interfacing	3	3	2	2	3	3

30	C213	Analog Communication Techniques	3	3	3	3	3	3
31	C214	Principle of Measurements and Instrumentation	3	3	3	2	3	2
32	C215	Electromagnetic Waves and Antennas	3	3	3	3	3	3
33	C216	Principle of Control System	3	3	2	3	2	3
34	C217	Analog Integrated Circuits Lab	3	3	3	3	3	3
35	C218	Simulation Lab	3	3	3	2	3	3
36	C219	Microprocessor and Microcontroller Lab	3	3	3	3	3	3
37	C301	Microwave Engineering	3	3	3	3	2	2
38	C302	Data Communication and Networking	3	3	3	3	3	3
39	C303	Digital Signal Processing	3	3	3	3	3	3
40	C304	Digital Communication Techniques	3	3	3	3	3	3
41	C307	Communication Engineering Lab	3	3	3	3	3	3
42	C308	Electronic Measurements and Instrumentation Lab	3	3	3	3	3	3
43	C309	Microwave and Antenna Lab	3	3	3	3	3	3
44	C310	Inferential Statistics	3	3	3	2	2	3
45	C311	VLSI Design	3	3	3	2	3	2
46	C312	Cellular Communication	3	3	3	3	3	3
47	C317	VLSI Lab	3	3	3	3	3	3
48	C318	DSP Lab	3	3	3	3	3	3
49	C319	Wireless Communication and Networking Lab	3	3	3	3	3	3
50	C320	Minor Project						
51	C401	HS Elective-II	3	3	3	3	3	3
52	C402	Professional Practice, Law & Ethics	3	3	3	3	3	3
53	C404	Project-I / Internship						
54	C405	Practical Training						
55	C406	Project - II / Internship						

CO Attainment in Semester End Examination (SEE)								
Sl. No.	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
1	C101	Mathematics-I	1	2	3	2	2	2
2	C102	Physics	2	3	2	3	2	2
3	C103	Basic Electrical Engineering	1	2	2	3	3	3
4	C104	Engineering Mechanics	2	2	3	3	2	2
5	C105	Physics Lab	1	2	3	3	3	3
6	C106	Basic Electrical Engineering Lab	2	2	2	2	2	3
7	C107	Basic Manufacturing Systems	3	2	3	2	2	3
8	C108	Environmental Science	2	2	1	2	3	2
9	C109	Mathematics-II	2	2	2	2	2	2
10	C110	Chemistry	2	3	1	2	2	3
11	C111	Professional Communication	3	3	3	3	3	3
12	C112	Biology	2	2	1	3	3	3
13	C113	Computer Programming	2	3	3	2	2	3
14	C114	Chemistry Lab	2	2	2	3	2	1
15	C115	Language Lab	3	3	3	3	3	3
16	C116	Engineering Graphics	3	3	3	1	3	3
17	C117	Yoga and Human Consciousness	2	1	2	3	3	3
18	C201	Mathematics-III (Electronics)	1	2	2	2	1	2
19	C202	Electronic Devices and Circuits	2	2	2	2	3	3
20	C203	Signals and Networks	2	2	2	2	3	3
21	C204	Digital Electronics	2	3	2	3	3	1
22	C205	Data Structure and Algorithms	2	2	2	1	2	1
23	C206	HS Elective-I	2	2	2	2	2	3
24	C207	Electronic Circuits & Network Lab	3	2	2	3	3	3
25	C208	Digital Electronics Lab	2	2	3	3	2	2
26	C209	Data Structures Lab	3	2	3	1	2	2
27	C210	Business Communication	3	3	3	3	3	3
28	C211	Advanced Electronic Circuits	2	2	2	2	2	2

29	C212	Microprocessors, Microcontrollers & Interfacing	3	1	2	2	2	2
30	C213	Analog Communication Techniques	2	3	2	2	2	1
31	C214	Principle of Measurements and Instrumentation	2	1	2	2	2	2
32	C215	Electromagnetic Waves and Antennas	2	2	2	2	2	2
33	C216	Principle of Control System	2	3	2	2	2	2
34	C217	Analog Integrated Circuits Lab	2	1	2	2	2	2
35	C218	Simulation Lab	2	2	2	3	1	2
36	C219	Microprocessor and Microcontroller Lab	2	2	3	2	2	2
37	C301	Microwave Engineering	2	2	2	1	2	3
38	C302	Data Communication and Networking	2	2	3	2	2	1
39	C303	Digital Signal Processing	2	3	2	2	2	2
40	C304	Digital Communication Techniques	3	2	1	2	2	2
41	C307	Communication Engineering Lab	2	2	2	2	2	2
42	C308	Electronic Measurements and Instrumentation Lab	2	2	2	2	2	3
43	C309	Microwave and Antenna Lab	2	1	1	2	2	2
44	C310	Inferential Statistics	2	1	1	1	2	2
45	C311	VLSI Design	2	2	1	2	1	2
46	C312	Cellular Communication	2	2	2	2	2	3
47	C317	VLSI Lab	2	2	2	3	2	2
48	C318	DSP Lab	3	3	3	2	2	2
49	C319	Wireless Communication and Networking Lab	3	3	3	2	2	3
50	C320	Minor Project	3	3	3	3	3	3
51	C401	HS Elective-II	2	2	3	3	2	2
52	C402	Professional Practice, Law & Ethics	3	3	3	3	3	3
53	C404	Project-I / Internship	3	3	3	3	3	3
54	C405	Practical Training	3	3	3	3	2	2
55	C406	Project - II / Internship	3	3	3	2	3	2

Final CO Attainment								
Sl. No.	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6
1	C101	Mathematics-I	2	2.5	3	2.5	2.5	2
2	C102	Physics	2.5	3	2.5	3	2.5	2.5
3	C103	Basic Electrical Engineering	2	2.5	2	3	3	3
4	C104	Engineering Mechanics	2	2	3	3	2	2
5	C105	Physics Lab	2.2	2.6	3	3	3	3
6	C106	Basic Electrical Engineering Lab	2.6	2.6	2.6	2.6	2.6	3
7	C107	Basic Manufacturing Systems	3	2.5	3	2.5	2.5	3
8	C108	Environmental Science	2.5	2.5	2	2.5	3	2.5
9	C109	Mathematics-II	2.5	2	2	2.5	2.5	2
10	C110	Chemistry	2.5	3	2	2.5	2.5	3
11	C111	Professional Communication	3	3	3	3	3	3
12	C112	Biology	2.5	2.5	2	3	3	3
13	C113	Computer Programming	2	3	3	2.5	2.5	3
14	C114	Chemistry Lab	2.6	2.6	2.6	3	2.6	2.2
15	C115	Language Lab	3	3	3	3	3	3
16	C116	Engineering Graphics	3	3	3	2	3	3
17	C117	Yoga and Human Consciousness	2.5	2	2.5	3	3	3
18	C201	Mathematics-III (Electronics)	2	2.5	2.5	2	2	2.5
19	C202	Electronic Devices and Circuits	2	2	2.5	2	3	3
20	C203	Signals and Networks	2	2	2	2	3	3
21	C204	Digital Electronics	2.5	3	2.5	2.5	3	2
22	C205	Data Structure and Algorithms	2.5	2.5	2.5	2	2.5	2
23	C206	HS Elective-I	2.5	2.5	2.5	2.5	2.5	3
24	C207	Electronic Circuits & Network Lab	3	2.6	2.2	3	3	3
25	C208	Digital Electronics Lab	2.6	2.6	3	3	2.6	2.6
26	C209	Data Structures Lab	3	2.6	3	2.2	2.2	2.6
27	C210	Business Communication	3	3	3	3	3	3
28	C211	Advanced Electronic Circuits	2.5	2.5	2.5	2.5	2.5	2.5

29	C212	Microprocessors, Microcontrollers & Interfacing	3	2	2	2	2.5	2.5
30	C213	Analog Communication Techniques	2.5	3	2.5	2.5	2.5	2
31	C214	Principle of Measurements and Instrumentation	2.5	2	2.5	2	2.5	2
32	C215	Electromagnetic Waves and Antennas	2.5	2.5	2.5	2.5	2.5	2.5
33	C216	Principle of Control System	2.5	3	2	2.5	2	2.5
34	C217	Analog Integrated Circuits Lab	2.6	2.2	2.6	2.6	2.6	2.6
35	C218	Simulation Lab	2.6	2.6	2.6	2.6	2.2	2.6
36	C219	Microprocessor and Microcontroller Lab	2.6	2.6	3	2.6	2.6	2.6
37	C301	Microwave Engineering	2.5	2.5	2.5	2	2	2.5
38	C302	Data Communication and Networking	2.5	2.5	3	2.5	2.5	2
39	C303	Digital Signal Processing	2.5	3	2.5	2.5	2.5	2.5
40	C304	Digital Communication Techniques	3	2.5	2	2.5	2.5	2.5
41	C307	Communication Engineering Lab	2.6	2.6	2.6	2.6	2.6	2.6
42	C308	Electronic Measurements and Instrumentation Lab	2.6	2.6	2.6	2.6	2.6	3
43	C309	Microwave and Antenna Lab	2.6	2.2	2.2	2.6	2.6	2.6
44	C310	Inferential Statistics	2.5	2	2	1.5	2	2.5
45	C311	VLSI Design	2.5	2.5	2	2	2	2
46	C312	Cellular Communication	2.5	2.5	2.5	2.5	2.5	3
47	C317	VLSI Lab	2.6	2.6	2.6	3	2.6	2.6
48	C318	DSP Lab	3	3	3	2.6	2.6	2.6
49	C319	Wireless Communication and Networking Lab	3	3	3	2.6	2.6	3
50	C320	Minor Project	3	3	3	3	3	3
51	C401	HS Elective-II	2.5	2.5	3	3	2.5	2.5
52	C402	Professional Practice, Law & Ethics	3	3	3	3	3	3
53	C404	Project-I / Internship	3	3	3	3	3	3
54	C405	Practical Training	3	3	3	3	2	2
55	C406	Project - II / Internship	3	3	3	2	3	2

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)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

B. Attainment of Program Outcomes

The Programme 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 Programme 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 Assessment	Weightage	Assessment tools	Assessment Criteria	Data Collection frequency	Responsible entity
Direct Assessment	80	Internal examination and External Examination	CO attainment	Once every semetser	Course coordinator & School quality Cell
Indirect Assessment	20	Graduate survey, Alumni Survey and Employer Survey		Once in a year	Quality Cell & Programme 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 i^{th} 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 MICROPROCESSORS AND MICROCONTROLLERS

Course Outcome and Programme Outcome mapping of Microprocessors and Microcontrollers

CO Number	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	1	2	0	0	2	0	0	3
CO2	3	2	3	2	1	2	0	0	2	0	0	3
CO3	3	3	3	2	1	2	0	0	2	0	0	3
CO4	3	3	3	2	1	2	0	0	2	0	0	3
CO5	3	3	2	2	1	2	0	0	2	0	0	3
CO6	3	3	3	2	1	2	0	0	2	0	0	3

The calculation of Programme Outcome Attainment of Microprocessors and Microcontrollers is given below.

Programme	Branch		Batch		Academic Year			Semester		Course Code		Course Name	
B.Tech.	ETC		2017-2021		2019-2020			5th		EC 3003		Microcontrollers and Microcontrollers	
CO Number	CO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO11	PO12
CO1	2	3	3	3	2	1	2	0	0	2	0	0	3
CO2	3	3	2	3	2	1	2	0	0	2	0	0	3
CO3	2	3	3	3	2	1	2	0	0	2	0	0	3
CO4	3	3	3	3	2	1	2	0	0	2	0	0	3
CO5	3	3	3	2	2	1	2	0	0	2	0	0	3
CO6	3	3	3	3	2	1	2	0	0	2	0	0	3
Sum Product		48	45	45	32	16	32	0	0	32	0	0	45
Sum of mapping		18	17	17	12	6	12	0	0	12	0	0	17
ATTAINMENT		2.67	2.65	2.65	2.67	2.67	2.67	0	0	2.67	0	0	2.65

Attainment of PO1 = $(2 \times 3 + 3 \times 3 + 2 \times 3 + 3 \times 3 + 3 \times 3 + 3 \times 3) / (3 + 3 + 3 + 3 + 3 + 3) = 2.67$

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

Graduate Survey
Alumni Survey
Employer Survey

Activity Owners

School Quality Assurance Cell
School Alumni Cell
Training and Placement Cell

Compilation

Yearly once
Yearly once
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:
 - 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.
 - 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.
 - 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 Attainment level corresponding to question number (Section B)	Graduate Survey level corresponding to List (Section C)	Alumni survey level corresponding to question number	Employer Survey level corresponding to parameter/rubric
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 = $0.8 \times \text{Direct Assessment (attainment level)} + 0.2 \times \text{Indirect Assessment (attainment level)}$

Target Attainment Level

The target attainment level for 2022 graduating batch is 2.50

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,

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:
 - Received job offer/s
 - Appearing for job interviews
 - Preparing for higher studies
 - 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
 - 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
 - Voluntary service/Social Outreach Activities/Community Services, etc.
 - 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: <https://electronics.kiit.ac.in/electronics-and-telecommunication/>

- 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:
 - I am a working professional.
 - I am pursuing higher studies.
 - 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 following table based on your observations / experience.

Name of the Organization.....

Name of the Representative.....

Designation.....**Contact No.**.....

Email ID.....**Website**.....

RATING ⇨		Excellent	Very Good	Good	Average	Below Average
SUBJECT ⇩		[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					
FEEDBACK ON INSTITUTION						
1.	Course curriculum					
2.	Training of the students					
3.	Attitude of University Employees					
4.	Hospitality and logistic support					
Suggestion (if any) for improvement:						

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

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course-PO&PSO matrices as indicated).

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2	-	-	-	2.4	-	-	-
C102	2.6	2.7	2.7	2.7	-	-	-	-	-	-	-	2.7	-	-	-
C103	2.5	2.5	2.4	2.5	-	2.5	2.5	-	-	-	-	2.8	2.6	-	2.4
C104	2.3	2.3	2.3	2.3	-	-	-	-	-	-	-	-	-	-	-
C105	2.8	2.8	3	-	-	-	-	-	-	-	-	-	-	-	-
C106	2.7	2.7	2.7	2.7	2.6	2.7	2.6	2.6	2.6	2.7	-	2.7	2.7	-	2.7
C107	2.8	2.5	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.7	-	-	-
C108	2.5	2.5	2.5	2.7	2.2	2.5	2.5	2.2	2.2	2.2	2.4	2.5	-	-	-
C109	2.2	2.2	2.2	2.2	-	-	-	-	-	-	-	2.2	-	-	-
C110	2.6	2.6	2.7	2.7	-	2.6	2.6	-	2.6	-	-	2.6	-	-	-
C111	-	-	-	-	-	-	3	3	-	3	3	3	-	-	-
C112	2.5	2.7	2.5	2.6	-	2.5	2.6	-	-	-	-	-	-	-	-
C113	2.7	2.7	2.7	2.6	2.8	-	-	2.7	-	2.7	-	2.7	-	-	-
C114	2.6	2.6	-	2.6	2.6	-	2.6	-	-	-	-	-	-	-	-
C115	3	3	-	-	-	3	-	-	3	3	3	-	-	-	3
C116	2.9	3	-	-	2.7	3	-	-	-	-	3	2.8	-	-	-
C117	-	-	-	-	-	2.8	-	2.7	-	-	-	2.5	-	-	-
C201	2.2	2.2	2.2	2.3	-	-	-	-	2.5	-	-	2.2	-	-	-

C202	2.4	2.4	2.4	2.4	-	-	-	-	2.4	-	-	2.4	2.4	2.4	2.4
C203	2.3	2.4	2.4	2.3	-	2.3	2.4	2.3	3	-	-	2.4	2.3	2.3	2.3
C204	2.5	2.5	2.5	2.5	-	2.6	-	-	2.6	-	-	2.6	2.5	2.5	2.5
C205	2.3	2.3	2.3	2.3	2.2	-	-	2.2	2.4	2	-	2.3	-	-	-
C206	-	-	-	-	-	-	3	-	2.6	2.6	2.7	2.6	-	-	-
C207	2.8	2.8	2.8	2.8	2.8	2.8	-	2.8	2.8	-	-	2.8	2.8	2.8	2.8
C208	2.7	2.7	2.7	2.7	2.7	-	-	2.7	2.7	2.7	-	2.7	2.7	2.7	2.7
C209	2.6	2.6	2.6	2.6	2.5	-	-	2.5	2.4	2.5	-	2.6	-	-	-
C210	-	-	-	-	-	-	3	-	3	3	3	3	-	-	-
C211	2.5	2.5	2.5	2.5	-	2.5	-	-	2.5	2.5	-	2.5	2.5	2.5	2.5
C212	2.3	2.3	2.3	2.3	2.3	2.3	-	-	2.3	-	-	2.3	2.3	2.3	2.3
C213	2.5	2.5	2.5	2.5	-	-	2.5	-	2.5	2.5	2.5	2.5	2.5	2.5	2.5
C214	2.3	2.3	2.3	2.3	-	2.3	-	-	2.3	-	-	2.3	2.2	2.2	2.2
C215	2.5	2.5	2.5	2.5	-	-	-	-	2.5	-	-	2.5	2.5	2.5	2.5
C216	2.4	2.4	2.1	2.4	2.2	-	-	-	2.2	-	-	2.4	2.4	2.3	2.4
C217	2.5	2.5	2.5	2.5	2.5	2.5	-	2.5	2.5	2.5	-	2.5	2.5	2.5	2.5
C218	2.5	2.5	2.5	2.5	2.5	2.5	-	2.5	2.6	2.5	-	2.5	2.5	2.5	2.5
C219	2.7	2.7	2.7	2.7	2.7	-	2.7	2.8	2.7	-	-	2.7	2.7	2.7	2.7
C301	2.3	2.3	2.3	2.3	-	2.3	2.3	-	2.3	-	-	2.3	2.3	2.3	2.3
C302	2.5	2.5	2.5	2.5	2.7	2.7	-	2.7	2.6	2.5	-	2.5	2.5	2.5	2.5
C303	2.6	2.6	2.6	2.6	2.6	2.6	-	-	-	2.6	2.6	2.6	2.6	2.6	2.6
C304	2.5	2.5	2.5	2.5	-	-	-	-	2.5	-	-	2.5	2.5	2.5	2.5
C307	2.5	2.5	2.5	2.5	2.5	-	2.5	2.5	2.5	2.6	-	2.5	2.5	2.5	2.5

C308	2.7	2.7	2.7	2.7	2.7	2.7	-	-	2.7	2.7	2.7	2.7	2.7	2.7	2.7
C309	2.5	2.5	2.5	2.5	2.5	2.5	2.5	-	2.5	2.5	2.5	2.5	2.5	2.5	2.5
C310	2.3	2.3	2.7	2.5	-	-	-	-	2.5	-	-	2.5	-	-	-
C311	2.2	2.2	2.1	2.2	-	-	-	-	-	-	-	2.2	2.2	2.2	2.2
C312	2.6	2.6	2.6	2.6	-	2.6	2.6	-	2.6	-	-	2.6	2.6	2.6	2.6
C317	2.7	2.7	2.7	2.7	2.7	-	-	2.7	2.7	2.7	-	2.7	2.7	2.7	2.7
C318	2.8	2.8	2.8	2.8	2.8	2.6	2.6	-	-	2.8	2.6	2.8	2.8	2.8	2.8
C319	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
C320	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C401	-	-	2.7	-	-	2.5	2.6	2.5	-	-	2.7	2.7	-	-	-
C402	-	-	-	-	-	3	-	3	3	-	3	3	-	-	-
C404	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C405	2.7	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
C406	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.4	2.7	2.7	2.7	2.7	2.6	2.5	2.7
Direct PO Attainment	2.56	2.57	2.56	2.56	2.62	2.63	2.66	2.65	2.60	2.66	2.77	2.60	2.57	2.56	2.58

Table B.3.3.2a

Survey	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
Survey 1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Survey 2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Survey 3	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3
Indirect PO Attainmen	3	3	2.67	3	3	3	3	2.67	3	3	3	3	3	3	3

Table B.3.3.2b

Note: Add more columns as needed for *PSOs*.

Mention the type of survey conducted and the location of its source

C101, C102 are indicative courses in the first year. Similarly, C409 is final year course. First numeric digit indicates year of study and remaining two digits indicate course nos. in the respective year of study.

- Direct attainment level of a PO/PSO is determined by taking average across all courses addressing that PO/PSO.
- Indirect attainment level of a PO/PSO is determined based on the student exit surveys, employer surveys, co-curricular activities, extracurricular activities

CRITERION 4	Students' Performance	100
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Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2022-2023	CAYm1 2021-2022	CAYm2 2020-2021	CAYm3 2019-2020	CAYm4 2018-2019	CAYm5 2017-2018	CAYm6 2016-2017
Sanctioned intake of the program (N)	180	180	180	180	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	180	180	180	180	180	180	180
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	10	14	15	11	05	08
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the Programme (N1 + N2+N3)	180	190	194	195	191	185	188

Table 4.1

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	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
2022-23 (CAY)	180				
2021-22 (CAYm1)	190	174			
2020-21 (CAYm2)	194	176	179		
2019-20 (CAYm3)	195	176	187	185	
2018-19 (LYG)	191	177	181	178	176
2017-18 (LYGm1)	185	175	176	172	170
2016-17 (LYGm2)	188	177	179	175	170

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	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
2022-23 (CAY)	180				
2021-22 (CAYm1)	190	6			
2020-21 (CAYm2)	194	4	15		
2019-20 (CAYm3)	195	4	8	10	
2018-19 (LYG)	191	3	10	13	15
2017-18 (LYGm1)	185	5	9	13	15
2016-17 (LYGm2)	188	3	9	13	18

Table 4.3

4.1 Enrollment Ratio (20)

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	180	180	100
2021-22 (CAYm1)	180	180	100
2020-21 (CAYm2)	180	180	100

Average [(ER1 + ER2 + ER3) / 3] : 100
Assessment : 20

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

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

Institute Marks : 15

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2, LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	191	185	188
Y Number of students	176	170	170

who have graduated without backlogs in the stipulated period			
Success Index [SI = Y / X]	0.92	0.92	0.90

Average SI [(SI1 + SI2 + SI3) / 3]: 0.91

Assessment [15 * Average SI]: **13.65**

4.2.2 Success rate in stipulated period (5):

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)

Academic Performance = Average API (Academic Performance Index), where

API = ((Mean of 2nd 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	CAYm1 (20-21)	CAYm2 (19-20)	CAYm3 (18-19)
Mean of CGPA or Mean Percentage of all successful students (X)	8.59	8.57	8.43
Total no. of successful students (Y)	194	195	191
Total no. of students appeared in the examination (Z)	194	195	191
API = X* (Y/Z)	8.59	8.57	8.43
Average API = (AP1 + AP2 + AP3)/3	8.53		

Table B.4.3

Assessment [AverageAPI]: 8.53

4.4. Placement, Higher Studies and Entrepreneurship (30)

Assessment Points = 30 × average placement

Item	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No. of Final Year Students (N)	191	185	188
No. of students placed in companies or Government Sector (x)	179	170	170
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	8	7	6
No. of students turned entrepreneur in engineering/technology (z)	0	0	0
x + y + z =	187	177	176
Placement Index : (x + y + z)/N	0.97	0.95	0.94
Average placement= (P1 + P2 + P3)/3	0.95		
Assessment Points = 30 × average placement	28.50		

Table B.4.4

Program Name: Electronics And Telecommunication Engineering

Assessment Year: 2021-22 (CAYm1)

Sl No	Name	Enrollment No.	Employee Name	Appointment No.
1	Abhigyan Jena	1	HighRadius Technologies Batch-29(8)	HighRadius Technologies Batch-29(8)_2022
2	Akansha Bandyopadhyay	2	Cognizant(4)	Cognizant(4)_2022
3	Ankit Chatterjee	3	Capgemini(4)	Capgemini(4)_2022
4	Ankita Hazra	4	Celebal Technologies(5)	Celebal Technologies(5)_2022
5	Aritra Mondal	5	Cognizant GenC Elevate(4)	Cognizant GenC Elevate(4)_2022
6	Aritro Ghosh	6	PwC India(6.17)	PwC India(6.17)_2022

7	Arunava Karmakar	7	Cognizant(4)	Cognizant(4)_2022
8	Atul Anurag	8	Ericsson India Global(4.50)	Ericsson India Global(4.50)_2022
9	Ayush Kumar	9	Cognizant(4)	Cognizant(4)_2022
10	Barun Bikram Dash	10	Wipro(3.50)	Wipro(3.50)_2022
11	Debasish Chandra	11	HighRadius Technologies Batch- 21(8)	HighRadius Technologies Batch-21(8)_2022
12	Debopam Basu	12	Accenture(4.50)	Accenture(4.50)_2022
13	Faiyaz Tamjid Ullah	13	Codeyoung(7)(Allow)	Codeyoung(7)(Allow)_2022
14	Hritik Choudhury	14	Accenture(4.50)	Accenture(4.50)_2022
15	Kshitij Mishra	15	Capgemini(4)	Capgemini(4)_2022
16	Monishita Ghosh	16	KPMG(Microsoft)(5.75)	KPMG(Microsoft)(5.75)_2022
17	Navdeep Kumar	17	Cognizant(4)	Cognizant(4)_2022
18	Pratik Ghosh	18	Cognizant(4)	Cognizant(4)_2022
19	Prayag Raj Sahoo	19	SkillVertex(6)(Allow)	SkillVertex(6)(Allow)_2022
20	Purba Dutta	20	Cognizant(4)	Cognizant(4)_2022
21	Rishabh Raj	21	Capgemini(4)	Capgemini(4)_2022
22	Rohit Yadav	22	HighRadius Technologies Batch- 20(8)	HighRadius Technologies Batch-20(8)_2022
23	Samarth Bhandari	23	HighRadius Technologies Batch- 10(8)	HighRadius Technologies Batch-10(8)_2022
24	Sandipan Kundu	24	Capgemini(4)	Capgemini(4)_2022
25	Satya Mohapatra	25	HighRadius Technologies Batch- 29(8)	HighRadius Technologies Batch-29(8)_2022
26	Sayak De	26	Cognizant(4)	Cognizant(4)_2022
27	Sayan Saha	27	Cognizant(4)	Cognizant(4)_2022
28	Sephali Rath	28	HighRadius Technologies Batch- 30(8)	HighRadius Technologies Batch-30(8)_2022
29	Shayan Bhattacharjee	29	HighRadius Technologies Batch- 19(8)	HighRadius Technologies Batch-19(8)_2022
30	Shivam Singh	30	Coforge Limited(3.65)	Coforge Limited(3.65)_2022
31	Sourav Sahoo	31	Capgemini(4)	Capgemini(4)_2022
32	Supriya Kumari	32	CGI (6.80)(Allow)	CGI (6.80)(Allow)_2022
33	Suryadeep Roy	33	Capgemini(4)	Capgemini(4)_2022
34	Swapnil Verma	34	Cognizant(4)	Cognizant(4)_2022
35	Zohaib Hassan	35	Ernst & Young (EY)(6.37)	Ernst & Young (EY)(6.37)_2022

36	Aadarsh Kumar	36	Codeyoung(7)(Allow)	Codeyoung(7)(Allow)_2022
37	Abhishek Raj	37	Bundl Technologies Pvt. Ltd.	Bundl Technologies Pvt. Ltd._2022
38	Aditi Ananya Das	38	Capgemini(4)	Capgemini(4)_2022
39	Aditya Kumar	39	PwC India(6.17)	PwC India(6.17)_2022
40	Ankush Chaudhary	40	Codeyoung(7)(Allow)	Codeyoung(7)(Allow)_2022
41	Anusha Chakraborty	41	Cognizant(4)	Cognizant(4)_2022
42	Ashutosh Srivastava	42	Cognizant(4)	Cognizant(4)_2022
43	Atreyee Ray	43	Wipro(3.50)	Wipro(3.50)_2022
44	Atri Bandyopadhyay	44	HighRadius Technologies Batch-20(8)	HighRadius Technologies Batch-20(8)_2022
45	Balivada Sai Akash	45	Mphasis(4)	Mphasis(4)_2022
46	Dipankan Bandopadhyay	46	Mærsk Global Service Centres (India) Ltd.(9)	Mærsk Global Service Centres (India) Ltd.(9)_2022
47	Harshkumar Singh	47	Hexaware Technologies(5)	Hexaware Technologies(5)_2022
48	Jyotsna Kumari	48	Cognizant(4)	Cognizant(4)_2022
49	Kingshuk Kundu	49	HighRadius Technologies Batch-29(8)	HighRadius Technologies Batch-29(8)_2022
50	Koustav Chowdhury	50	Capgemini(4)	Capgemini(4)_2022
51	Kumar Piyush	51	Mphasis(4)	Mphasis(4)_2022
52	Mayank Pandey	52	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
53	Nilotpal Patel	53	Cognizant(4)	Cognizant(4)_2022
54	Arunabh Ghosh	54	SkillVertex(6)(Allow)	SkillVertex(6)(Allow)_2022
55	Pratik Roy	55	Capgemini(7.50)	Capgemini(7.50)_2022
56	Pratikshya Sahu	56	Mphasis(4)	Mphasis(4)_2022
57	Praveen Singh Chauhan	57	Capgemini(4)	Capgemini(4)_2022
58	Rajashree Chatterjee	58	HighRadius Technologies Batch-19(8)	HighRadius Technologies Batch-19(8)_2022
59	Rajshree	59	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
60	Remya Anju Reji	60	Cognizant(4)	Cognizant(4)_2022
61	Rupesh Halder	61	Wipro(3.50)	Wipro(3.50)_2022
62	Sayantika Pal	62	HighRadius Technologies Batch-32(8)	HighRadius Technologies Batch-32(8)_2022
63	Shaberi Ghosh	63	Ernst & Young (EY)(6.37)	Ernst & Young (EY)(6.37)_2022
64	Shreyasi Chatterjee	64	Brandscapes(5)	Brandscapes(5)_2022
65	Upasana Dey	65	Accenture(4.50)	Accenture(4.50)_2022

66	Siddharth Prasad	66	MyCaptain(4.50)	MyCaptain(4.50)_2022
67	Simran Pal	67	Mphasis(4.00)	Mphasis(4.00)_2022
68	Suranjita Das	68	HighRadius Technologies Batch-29(8.00)	HighRadius Technologies Batch-29(8.00)_2022
69	Swagatika Choudhury	69	Mphasis(4.00)	Mphasis(4.00)_2022
70	Utkarsh Srivastava	70	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
71	Aakash Kumar	71	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
72	Abiya Ayaz	72	Cognizant(4.00)	Cognizant(4.00)_2022
73	Aditi Hazra	73	Accenture(4.50)	Accenture(4.50)_2022
74	Amit Nayak	74	Cognizant(4.00)	Cognizant(4.00)_2022
75	Ankit Kumar	75	Cognizant(4.00)	Cognizant(4.00)_2022
76	Ankita Adhikary	76	Unschool(5.00)	Unschool(5.00)_2022
77	Anureeti Mazumder	77	HighRadius Technologies	HighRadius Technologies _2022
78	Ayush	78	KPIT(3.60)	KPIT(3.60)_2022
79	Debadeep Nag	79	CGI (6.80)(Allow)	CGI (6.80)(Allow)_2022
80	Ebrana Naurin Karim	80	CGI (6.80)(Allow)	CGI (6.80)(Allow)_2022
81	Gaurav Kalita	81	Cognizant GenC Elevate(4.00)	Cognizant GenC Elevate(4.00)_2022
82	Harsh Gupta	82	Cognizant(4.00)	Cognizant(4.00)_2022
83	Harsh Krishnan	83	Deloitte USI Consulting(7.60)	Deloitte USI Consulting(7.60)_2022
84	Kankon Biswas	84	Ericsson India Global(4.50)	Ericsson India Global(4.50)_2022
85	Kislay	85	KPIT(3.60)	KPIT(3.60)_2022
86	Kumar Taushik Singh	86	HighRadius Technologies Batch-85(8.00)	HighRadius Technologies Batch-85(8.00)_2022
87	Megha Singh	87	Deloitte USI Consulting(7.60)	Deloitte USI Consulting(7.60)_2022
88	Nishita Sareen	88	HighRadius Technologies Batch-19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
89	Pratyasha Priyadarshini Behura	89	IBS Software(3.60)	IBS Software(3.60)_2022
90	Rajeev Ranjan	90	SkillVertex(6.00)(Allow)	SkillVertex(6.00)(Allow)_2022
91	Raju Kumar Jaiswal	91	Cognizant(4.00)	Cognizant(4.00)_2022
92	Rinki Kathar	92	HighRadius Technologies Batch-16(8.00)	HighRadius Technologies Batch-16(8.00)_2022
93	Rishita Sarkar	93	Cognizant(4.00)	Cognizant(4.00)_2022

94	Riya Mandal	94	HighRadius Technologies Batch-52(8.00)	HighRadius Technologies Batch-52(8.00)_2022
95	Rudraksh Dash	95	Nutanix(18.00)	Nutanix(18.00)_2022
96	Sagnik Roy Acharjee	96	Capgemini(4.00)	Capgemini(4.00)_2022
97	Sankha Subhra Subhra Jana	97	Accenture(4.50)	Accenture(4.50)_2022
98	Shubham Saxena	98	Robert Bosch(5.00)	Robert Bosch(5.00)_2022
99	Siddhant Pandey	99	Cognizant (6.75)	Cognizant (6.75)_2022
100	Soham Gupta	100	Capgemini(4.00)	Capgemini(4.00)_2022
101	Swati Vishwakarma	101	Cognizant(4.00)	Cognizant(4.00)_2022
102	Tejaswi Goyal	102	Deloitte Salesforce(7.60)	Deloitte Salesforce(7.60)_2022
103	Abhinandan Panua	103	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
104	Abhishek Banerjee	104	Cognizant(4.00)	Cognizant(4.00)_2022
105	Abhyanand Tiwari	105	Cognizant(4.00)	Cognizant(4.00)_2022
106	Adhyan Maji	106	HighRadius Technologies Batch-20(8.00)	HighRadius Technologies Batch-20(8.00)_2022
107	Aditya Prasad	107	Capgemini(7.50)	Capgemini(7.50)_2022
108	Anujit Sengupta	108	KPMG(Microsoft)(5.75)	KPMG(Microsoft)(5.75)_2022
109	Arnab Bandyopadhyay	109	Accenture(4.50)	Accenture(4.50)_2022
110	Bapli Shaw	110	Capgemini(4.00)	Capgemini(4.00)_2022
111	Diptanshu Samanta	111	HighRadius Technologies Batch-19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
112	Divyani Maharana	112	PwC India(6.17)	PwC India(6.17)_2022
113	Eshan Singh	113	Cognizant(4.00)	Cognizant(4.00)_2022
114	Falgu Das	114	HighRadius Technologies Batch-20(8.00)	HighRadius Technologies Batch-20(8.00)_2022
115	Harshadeep Datta	115	Cognizant(4.00)	Cognizant(4.00)_2022
116	Karthikeyan Raghav	116	Cognizant(4.00)	Cognizant(4.00)_2022
117	Manik Ratn	117	SkillVertex(6.00)(Allow)	SkillVertex(6.00)(Allow)_2022
118	Megha Rajnandini	118	HighRadius Technologies Batch-16(8.00)	HighRadius Technologies Batch-16(8.00)_2022
119	Mrigank Prakash	119	PwC India(6.17)	PwC India(6.17)_2022
120	Nandini Roy	120	HighRadius Technologies Batch-19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
121	Nikita Mohan	121	Accenture(4.50)	Accenture(4.50)_2022
122	Pranjali Raj	122	Cognizant(4.00)	Cognizant(4.00)_2022

123	Prasun Sen	123	RISEWPU(6.60)	RISEWPU(6.60)_2022
124	Pratik Dash	124	SkillVertex(6.00)(Allow)	SkillVertex(6.00)(Allow)_2022
125	Rajesh Kumar Pandey	125	Coforge Limited(3.65)	Coforge Limited(3.65)_2022
126	Sagorika Banerjee	126	Deloitte USI Consulting(7.60)	Deloitte USI Consulting(7.60)_2022
127	Sambit Kumar Sahoo	127	Ericsson India Global(4.50)	Ericsson India Global(4.50)_2022
128	Shambhavi Jha	128	Wipro(3.50)	Wipro(3.50)_2022
129	Srion Panigrahi	129	Deloitte India(7.60)	Deloitte India(7.60)_2022
130	Sunit Rawat	130	Wipro(3.50)	Wipro(3.50)_2022
131	Supriya Bhattacharya	131	HighRadius Technologies Batch-32(8.00)	HighRadius Technologies Batch-32(8.00)_2022
132	Trisha Thander	132	Cognizant(4.00)	Cognizant(4.00)_2022
133	Udit Sureka	133	Cognizant (6.75)	Cognizant (6.75)_2022
134	Vandana Shekhar	134	HighRadius Technologies Batch-19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
135	Adarsh Dubey	135	Deloitte Salesforce(7.60)	Deloitte Salesforce(7.60)_2022
136	Anshul Rawat	136	Capgemini(4.00)	Capgemini(4.00)_2022
137	Archismita Dutta	137	HighRadius Technologies Batch-21(8.00)	HighRadius Technologies Batch-21(8.00)_2022
138	Bitata Ghosh	138	Deloitte India(7.60)	Deloitte India(7.60)_2022
139	Divyanshu Rai	139	Accenture(6.50)	Accenture(6.50)_2022
140	Kaushiki Biswas	140	KPMG(Digital Trust)(5.75)	KPMG(Digital Trust)(5.75)_2022
141	Kunal Chowdhury	141	HighRadius Technologies Batch-2(8.00)	HighRadius Technologies Batch-2(8.00)_2022
142	Mainak Chattopadhyay	142	Cognizant(4.00)	Cognizant(4.00)_2022
143	Mirtunjay Kumar	143	eInfochips (3.60)	eInfochips (3.60)_2022
144	Mobashshera Ekram	144	HighRadius Technologies Batch-99(8.00)	HighRadius Technologies Batch-99(8.00)_2022
145	Namrata Pathak	145	Tetrasoft(3.50)	Tetrasoft(3.50)_2022
146	Nivesh Raj	146	CGI (6.80)(Allow)	CGI (6.80)(Allow)_2022
147	Pragyan Priyadarsini	147	HighRadius Technologies Batch-67(8.00)	HighRadius Technologies Batch-67(8.00)_2022
148	Prerana Kashyap	148	HighRadius Technologies Batch-19(8.00)	HighRadius Technologies Batch-19(8.00)_2022

149	Pritisha Sahu	149	Cognizant(4.00)	Cognizant(4.00)_2022
150	Punyashlok Sahoo	150	Cognizant(4.00)	Cognizant(4.00)_2022
151	Rishabh Kumar Srivastava	151	Accenture(4.50)	Accenture(4.50)_2022
152	Rishav Goswami	152	HighRadius Technologies Batch- 54(8.00)	HighRadius Technologies Batch-54(8.00)_2022
153	Rupesh Singh	153	Verzeo(5.00)	Verzeo(5.00)_2022
154	S K Supriya	154	Cognizant(4.00)	Cognizant(4.00)_2022
155	Sasanka Medhi	155	V2Solutions(4.30)	V2Solutions(4.30)_2022
156	Saswati Sahoo	156	Capgemini(4.00)	Capgemini(4.00)_2022
157	Satwik Banerjee	157	HighRadius Technologies Batch- 19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
158	Shalini Das	158	Optum 2nd Visit(9.37)	Optum 2nd Visit(9.37)_2022
159	Shashwat Kumar Gupta	159	Bosch Global Software Technologies(5.00)	Bosch Global Software Technologies(5.00)_2022
160	Simran .S. Bhuyan	160	HighRadius Technologies Batch- 29(8.00)	HighRadius Technologies Batch-29(8.00)_2022
161	Vinayak Malviya	161	HighRadius Technologies Batch- 23(8.00)	HighRadius Technologies Batch-23(8.00)_2022
162	Abhijeet Dey	162	HighRadius Technologies Batch- 18(8.00)	HighRadius Technologies Batch-18(8.00)_2022
163	Aditya Singh	163	Ernst & Young (EY)(4.50)	Ernst & Young (EY)(4.50)_2022
164	Ananya Mohanty	164	Big Oh Notation(3.30)	Big Oh Notation(3.30)_2022
165	Anish Mahatha	165	Cognizant(4.00)	Cognizant(4.00)_2022
166	Arani Dalui	166	PwC India(6.17)	PwC India(6.17)_2022
167	Arif Ahmed	167	Ericsson India Global(4.50)	Ericsson India Global(4.50)_2022
168	Aryan Sinha	168	Ericsson India Global Services(4.50)	Ericsson India Global Services(4.50)_2022
169	Debagnik Kar	169	Cognizant(4.00)	Cognizant(4.00)_2022
170	Dristy Phukan	170	HighRadius Technologies Batch- 19(8.00)	HighRadius Technologies Batch-19(8.00)_2022
171	Gyanadipta Mohanty	171	HighRadius Technologies Batch- 51(8.00)	HighRadius Technologies Batch-51(8.00)_2022
172	Madhurya P Barman	172	Cognizant(4.00)	Cognizant(4.00)_2022
173	Mohit Kumar	173	Accenture(6.50)	Accenture(6.50)_2022
174	Muskan Niharika	174	HighRadius Technologies Batch-	HighRadius Technologies Batch-32(8.00)_2022

			32(8.00)	
175	Nabankur Bhattacharyya	175	Accenture(4.50)	Accenture(4.50)_2022
176	Pallavi Mohini	176	HighRadius Technologies Batch- 22(8.00)	HighRadius Technologies Batch-22(8.00)_2022
177	Namrata Sarkar	177	Codeyoung(7.00)(Allow)	Codeyoung(7.00)(Allow)_2022
178	Shanmukhi Lakshmi Sidwini	178	Cognizant(4.00)	Cognizant(4.00)_2022
179	Amrit Tripathy	179	SkillVertex(6.00)(Allow)	SkillVertex(6.00)(Allow)_2022

Assessment Year: 2020-21 (CAYm2)

SI No	Name	Enrollment No.	Employee Name	Appointment No.
1	Abhishek Sinha	1	Birla Soft	Birla Soft_2021
2	Aditya Chitransh	2	Accenture (4.50)	Accenture (4.50)_2021
3	Bipasha Bhowmick	3	Accenture (4.50)	Accenture (4.50)_2021
4	Kumar Alekh	4	Cognizant	Cognizant_2021
5	Pratibha Pradhan	5	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
6	Rishav Adhikari	6	Wipro	Wipro_2021
7	Rishav Raj	7	Robert Bosch	Robert Bosch_2021
8	Rishi Pandey	8	Birla Soft	Birla Soft_2021
9	Riya Ranjan	9	Coforge Technologies(Additional)	Coforge Technologies(Additional)_2021
10	Rupayan Bhattacharya	10	Cognizant	Cognizant_2021
11	Sanidhya Kumar Mishra	11	Coforage Technologies	Coforage Technologies_2021
12	Sarmistha Chakraborty	12	Wipro	Wipro_2021
13	Shailajaa Panigrahi	13	Accenture (4.50)	Accenture (4.50)_2021
14	Suparja Sihi	14	Unschool	Unschool_2021
15	Tejan Kumar Swain	15	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
16	Utkarsh	16	Cognizant	Cognizant_2021
17	Abhranil Mandal	17	Robert Bosch	Robert Bosch_2021
18	Aditya Mohan	18	Cognizant	Cognizant_2021
19	Akashdeep Chowdhury	19	Prodapt	Prodapt_2021
20	Akriti Bhardwaj	20	Infinite Computer Solutions	Infinite Computer Solutions_2021
21	Anamika Mohanty	21	Accenture (4.50)	Accenture (4.50)_2021
22	Bhavini Kumar	22	DXC	DXC_2021

23	Dipanjan Maji	23	Cognizant	Cognizant_2021
24	Dwitindra Nath Sahoo	24	Cognizant	Cognizant_2021
25	Jahanvi Pandey	25	Osmosys	Osmosys_2021
26	Kunal Choudhury	26	Accenture (4.50)	Accenture (4.50)_2021
27	Lal Aditya Narayan Singh	27	Cognizant	Cognizant_2021
28	Mainak Saha	28	Accenture (4.50)	Accenture (4.50)_2021
29	Mani Bhushan	29	Cognizant	Cognizant_2021
30	Nupoor Chourasia	30	Accenture (4.50)	Accenture (4.50)_2021
31	Omkar Kanungo	31	Birla Soft	Birla Soft_2021
32	Rahul Kundu	32	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
33	Rittik Das	33	LabVantage Solutions Ltd.	LabVantage Solutions Ltd._2021
34	Sambarta Chakraborty	34	Accenture (4.50)	Accenture (4.50)_2021
35	Sayantana Kumar	35	Robert Bosch	Robert Bosch_2021
36	Shivam Kunal	36	Cognizant	Cognizant_2021
37	Souptik Kumar Saha	37	Cognizant	Cognizant_2021
38	Srishti Khetan	38	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
39	Suchanda Kundu	39	Collabera Services	Collabera Services_2021
40	Supratik Ganguly	40	Cognizant	Cognizant_2021
41	Aditi Kar	41	DreamGains	DreamGains_2021
42	Ankita Dutta	42	DXC	DXC_2021
43	Ashlesha Mishra	43	Cognizant	Cognizant_2021
44	Apekshit Ghosh	44	Iks Health	Iks Health_2021
45	Avishek Goswami	45	Birla Soft	Birla Soft_2021
46	Divyam Singh	46	Robert Bosch	Robert Bosch_2021
47	Himani Shreya	47	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
48	Kaustav Laha	48	Mindtree	Mindtree_2021
49	Nikita Jaiswal	49	Robert Bosch	Robert Bosch_2021
50	Oishik Mukherjee	50	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
51	Priyanshu Ojha	51	HighRadius(8 Batch)	HighRadius(8 Batch)_2021
52	Rakshit Sinha	52	Birla Soft	Birla Soft_2021
53	Saloni Kumari	53	Accenture (4.50)	Accenture (4.50)_2021
54	Sandipan Saha	54	Wipro	Wipro_2021
55	Sayan Karmakar	55	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
56	Sayani Ghosh	56	L&T TECHNOLOGY	L&T TECHNOLOGY_2021
57	Shashank Kumar	57	Accenture (4.50)	Accenture (4.50)_2021
58	Smaranika Datta	58	Accenture (4.50)	Accenture (4.50)_2021
59	Sneha Kundu	59	Verzeo	Verzeo_2021
60	Soubhik Chaki	60	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
61	Suddharita Roy	61	LIDO Learning	LIDO Learning_2021
62	Sukanya Sadhukhan	62	Prodapt	Prodapt_2021
63	Sumant Kumar	63	Cognizant	Cognizant_2021

64	Tanya Singh	64	Accenture (4.50)	Accenture (4.50)_2021
65	Yukti Seth	65	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
66	Abhishek Kumar Choudhary	66	Cognizant	Cognizant_2021
67	Agnibha Chatterjee	67	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
68	Ahana Bandyopadhyay	68	DXC	DXC_2021
69	Anisha Saha	69	DXC	DXC_2021
70	Anwita Chakraborty	70	HighRadius(Batch-1)-TT	HighRadius(Batch-1)-TT_2021
71	Ishita Kundu	71	Mindtree	Mindtree_2021
72	Kajal Kumari	72	DXC	DXC_2021
73	Purna Nag	73	MetricStream	MetricStream_2021
74	Sarang	74	Accenture (4.50)	Accenture (4.50)_2021
75	Saurabh Kumar	75	DXC	DXC_2021
76	Shrey Chirag Shah	76	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
77	Somiya Shailesh	77	Accenture (4.50)	Accenture (4.50)_2021
78	Sourish Sen	78	Cognizant	Cognizant_2021
79	Sourodip Ghosh	79	Mindtree	Mindtree_2021
80	Sumit Sharad	80	Cognizant	Cognizant_2021
81	Abhishek Ghosh	81	Climber(2nd Visit)	Climber(2nd Visit)_2021
82	Abhishek Patra	82	Cognizant	Cognizant_2021
83	Aishwarya Deep	83	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
84	Ambuj Upadhyay	84	Prodapt	Prodapt_2021
85	Anshuman Mohanty	85	HighRadius (9th Batch)	HighRadius (9th Batch)_2021
86	Arnab Dasgupta	86	ITC Infotech	ITC Infotech_2021
87	Kiran Patra	87	Cognizant	Cognizant_2021
88	Prabhat Mishra	88	TCS(Ninja)	TCS(Ninja)_2021
89	Prakruti Ranee Rout	89	Ericsson Global	Ericsson Global_2021
90	Rishav Mishra	90	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
91	Rohit Raj	91	Cognizant	Cognizant_2021
92	Shashank Subhra	92	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
93	Shrestha Chatterjee	93	Accenture (4.50)	Accenture (4.50)_2021
94	Soumika Majumder	94	DXC	DXC_2021
95	Spandan Dhar	95	Cognizant	Cognizant_2021
96	Sunidhi Singh	96	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
97	Surjyoday Khanra	97	Cognizant	Cognizant_2021
98	Syed Adnan Alam	98	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
99	Vineet Vijay	99	Birla Soft	Birla Soft_2021
100	Akansha .	100	DXC	DXC_2021
101	Hrishi Raj	101	Cognizant	Cognizant_2021
102	Jaish Ahmad	102	Accenture (4.50)	Accenture (4.50)_2021
103	Meekita Maharana	103	Accenture (4.50)	Accenture (4.50)_2021
104	Nitish Kumar	104	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021

	Mahapatra			
105	Pragya Kriti	105	Cognizant	Cognizant_2021
106	Samridhi Raj	106	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
107	Sohini Roy	107	Cognizant	Cognizant_2021
108	Sudeep Kundu	108	Cognizant	Cognizant_2021
109	Sudipto Banerjee	109	Temenos	Temenos_2021
110	Suavi Datta	110	Accenture (4.50)	Accenture (4.50)_2021
111	Adarsh Pratik Dash	111	Mindtree	Mindtree_2021
112	Akash Kumar	112	HighRadius (31st Batch)	HighRadius (31st Batch)_2021
113	Aniket Ranjan	113	Cognizant	Cognizant_2021
114	Aritra Dasgupta	114	HighRadius(Batch-5)	HighRadius(Batch-5)_2021
115	Deepali Basu	115	Birla Soft	Birla Soft_2021
116	Farhat Mondal	116	Cognizant	Cognizant_2021
117	Himani Mishra	117	Cognizant	Cognizant_2021
118	Kousik Ghosh	118	LabVantage Solutions Ltd.	LabVantage Solutions Ltd._2021
119	Mayank Rai	119	Capgemini (3.8 LPA)	Capgemini (3.8 LPA)_2021
120	Payel Bhattacharjee	120	Robert Bosch	Robert Bosch_2021
121	Prerna Das	121	Ericsson Global	Ericsson Global_2021
122	Raushan Kumar	122	Cognizant	Cognizant_2021
123	Rishav Chakraborty	123	Cognizant	Cognizant_2021
124	Rohit Kumar	124	Cognizant	Cognizant_2021
125	Rohit Kumar	125	Cognizant	Cognizant_2021
126	Sanchita Paul	126	Ericsson Global	Ericsson Global_2021
127	Sayan Pal	127	Coforage Technologies	Coforage Technologies_2021
128	Sribrinda Rout	128	Ericsson Global	Ericsson Global_2021
129	Akanksha	129	Accenture (4.50)	Accenture (4.50)_2021
130	Arish Roy	130	Accenture (4.50)	Accenture (4.50)_2021
131	Ayontika Bhattacharyya	131	Maersk	Maersk_2021
132	Debayan Talukder	132	Birla Soft	Birla Soft_2021
133	Kumari Akansha	133	Accenture (4.50)	Accenture (4.50)_2021
134	Mrigank Singh	134	Cognizant	Cognizant_2021
135	Sangram Pal	135	Cognizant	Cognizant_2021
136	Sayani Basu	136	Accenture (4.50)	Accenture (4.50)_2021
137	Soumava Basu	137	Cognizant	Cognizant_2021
138	Supriyo Dey	138	Jaro Education	Jaro Education_2021
139	Surabhi Kumari	139	Accenture (4.50)	Accenture (4.50)_2021
140	Disha Ghosh	140	Verzeo	Verzeo_2021
141	Priyanshu Chakraborty	141	HighRadius(19th Batch)	HighRadius(19th Batch)_2021
142	Akash Kumar Nayak	142	Accenture (4.50)	Accenture (4.50)_2021
143	Sapna Shah	143	Accenture (4.50)	Accenture (4.50)_2021
144	Sanket Parasher	144	Cognizant	Cognizant_2021

145	Sujit	145	Fiat India Automobile	Fiat India Automobile_2021
146	Sanchary Biswas	146	Cognizant	Cognizant_2021
147	Agnidipto Sinha	147	capgemini	4264919/615395
148	Aakriti	148	Accenture	C9255609
149	Madhab Jyoti Mohanty	149	Wipro	20672165
150	Satyam Singh Rathore	150	Cognizant	Cognizant_2021
151	Ujjwal Prakash	151	Cognizant	Cognizant_2021
152	Sukrit Datta	152	accenture	C9405198
153	PRAJWALIKA DEKA	153	TCS(Ninja)	TCS/CT20203307859/Kolkata
154	Pratyay Roy	154	tcs	TCS/CT20203303279/Kolkata
155	Sourabrata Samanta	155	accenture	C9282818
156	Sudha singh	156	accenture	C9248741
157	Satyaki Chakraborti	157	accenture	C9296008
158	Sourav Ranjan Mishra	158	accenture	C9263059
159	SHREYASEE PAUL	159	accenture	C9287498
160	Srinjan Roy	160	bosch	TN/27308/2021/53/B.E/B.Tech
161	Puja Chattopadhyay	161	M/s. METRICSTREAM INFOTECH (INDIA) PVT. LTD.	Metricstream_2021
162	Romit Shrivastava	162	Accenture	C9307306
163	Azmat Hasin	163	Nutanix Technologies India Pvt. Ltd.	NUTANIX_2021
164	ANNWESHA MONDAL	164	accenture	C9307310
165	SUMEDHA BHADURI	165	bosch	TN/27367/2021/112/B.E/B.Tech
166	Prasun Chakraborty	166	Wipro	20669776
167	VENKATESH M	167	accenture	C9248744
168	Ayush Jha	168	accenture	C9263064
169	SUBHOJIT SAPUI	169	accenture	C9394727
170	Manisha Datta	170	accenture	C9287501

Assessment Year: 2019-20 (CAYm3)

Sl. No.	Student Name	Enrollment No.	Employee Name	Appointment No.
1	Abhishek Kumar Singh	1	Accenture	Accenture_2020
2	Abhrodeep Mukherjee	2	PWC	PWC_2020
3	Aditya Mishra	3	Accenture	Accenture_2020
4	AJAY KUMAR PRADHAN	4	ITC Infotech	ITC Infotech_2020

5	Anirban Samanta	5	Informatica	Informatica_2020
6	ANKIT GURIA	6	Accenture	Accenture_2020
7	Aryan Singh	7	Accenture	Accenture_2020
8	Ayush Lal	8	Accenture	Accenture_2020
9	Bitan Sarkar	9	Birlasoft	Birlasoft_2020
10	Brahmadev Pituri	10	Accenture	Accenture_2020
11	Doloi	11	Sify Technogies	Sify Technogies_2020
12	Deviprasad Nayak	12	HighRadius	HighRadius_2020
13	Gourav kumar	13	Accenture	Accenture_2020
14	Harshita Lohani	14	Accenture	Accenture_2020
15	Hrithik	15	Wipro	Wipro_2020
16	Ishita .	16	HighRadius	HighRadius_2020
17	Kaustav Banerjee	17	Accenture	Accenture_2020
18	Mitul Kanishka	18	Accenture	Accenture_2020
19	Prerana Borah	19	ZS Associates	ZS Associates_2020
20	Priyam Kumari Jaiswal	20	Cognizant	Cognizant_2020
21	Pubali Das Gupta	21	IBM India Pvt.Ltd	IBM India Pvt.Ltd_2020
22	Salok Bhattacharya	22	Altran	Altran_2020
23	Sayantani Saha	23	Accenture	Accenture_2020
24	Shreya Dey	24	Accenture	Accenture_2020
25	Shuvam Kumar	25	Ericsson	Ericsson_2020
26	SIMRAN SARMAH KASHYAP	26	Accenture	Accenture_2020
27	Sneha Pattanaik	27	Accenture	Accenture_2020
28	Subhayan Das	28	KPIT	KPIT_2020
29	Supratik Chalrabarty	29	HighRadius	HighRadius_2020
30	Vishal Jha	30	Accenture	Accenture_2020
31	Vishesh Kumar Rathi	31	Prodapt	Prodapt_2020
32	Akash Deep	32	Accenture	Accenture_2020
33	Anjali Chattopadhyay	33	Deloitte	Deloitte_2020
34	Ankit Pushp Narayan	34	Cognizant	Cognizant_2020
35	Apoorv avasthi	35	HighRadius	HighRadius_2020
36	Archishman Chattopadhyay	36	Wipro	Wipro_2020
37	Arnab Mondal	37	Accenture	Accenture_2020
38	D Rajesh	38	Robert Bosch	Robert Bosch_2020

39	Himanshu Agrawal	39	Accenture	Accenture_2020
40	Kumar Gaurav	40	Wipro	Wipro_2020
41	Nishant Shubham	41	Robert Bosch	Robert Bosch_2020
42	Nishant Sinha	42	Consultant	Consultant_2020
43	Rahil Nawaz	43	HighRadius	HighRadius_2020
44	Ritvik Yash	44	HighRadius	HighRadius_2020
45	Rohit Gupta	45	Wipro	Wipro_2020
46	Sagnik Chowdhury	46	Cognizant	Cognizant_2020
47	Sahil Sinha	47	Robert Bosch	Robert Bosch_2020
48	Saikat Mazumdar	48	HighRadius	HighRadius_2020
49	SAKET SAHIL	49	Accenture	Accenture_2020
50	Sankhyatirtha Bhattacharya	50	Capgemini	Capgemini_2020
51	Saurabh Kapoor	51	Accenture	Accenture_2020
52	Shalinee Roy	52	HighRadius	HighRadius_2020
53	Sneh Shyambhavi	53	HighRadius	HighRadius_2020
54	Sneha Majumdar	54	HighRadius	HighRadius_2020
55	Sohini Mukherjee	55	HighRadius	HighRadius_2020
56	Soumajit Khan	56	Wipro	Wipro_2020
57	Sourav Nandi	57	Accenture	Accenture_2020
58	Sourav Sunny	58	Cognizant	Cognizant_2020
59	Subham Kumar Chaurasia	59	HighRadius	HighRadius_2020
60	trishan saha	60	Accenture	Accenture_2020
61	Aayush Panjekar	61	HighRadius	HighRadius_2020
62	Abhinandan Nath	62	HighRadius	HighRadius_2020
63	Abhishek Tripathy	63	DXC Technology	DXC Technology_2020
64	Agniv Ghosh	64	HighRadius	HighRadius_2020
65	Aniket Majee	65	Accenture	Accenture_2020
66	Ankit Pattanaik	66	Accenture	Accenture_2020
67	Anshu Chatterjee	67	Ericsson	Ericsson_2020
68	Himanshu Mishra	68	Accenture	Accenture_2020
69	Ishita Pal	69	Accenture	Accenture_2020
70	Kumar Nachiketa	70	Cognizant	Cognizant_2020
71	Kumar Sparsh	71	IBS software Pvt.Ltd	IBS software Pvt.Ltd_2020
72	Megha Kumari	72	Accenture	Accenture_2020
73	Prantik Datta	73	KPIT	KPIT_2020
74	Rahul Ghosh	74	Capgemini	Capgemini_2020

75	Rishav Garg	75	IBM India Pvt.Ltd	IBM India Pvt.Ltd_2020
76	Rispa Mitruka	76	HighRadius	HighRadius_2020
77	Saurabh Pal	77	ITC Infotech	ITC Infotech_2020
78	Saurav Tripathy	78	DXC Technology	DXC Technology_2020
79	Sayan Sadhukhan	79	KPIT	KPIT_2020
80	Shashank	80	HighRadius	HighRadius_2020
81	SHIVENDRA SRIVASTAVA	81	HighRadius	HighRadius_2020
82	Shounak Bhattacharjee	82	IBS software Pvt.Ltd	IBS software Pvt.Ltd_2020
83	Sinu Pallavi	83	Accenture	Accenture_2020
84	Sonal Lata	84	Accenture	Accenture_2020
85	Sourav Dey	85	KPIT	KPIT_2020
86	Souvik Jana	86	KPIT	KPIT_2020
87	Ananya Talukdar	87	Merkle Sokrati	Merkle Sokrati_2020
88	Anurag Srivastava	88	TSCL	TSCL_2020
89	Binoy Mahato	89	KPIT	KPIT_2020
90	CHIRANTAN KAR	90	Nineleaps	Nineleaps_2020
91	debadrita mukherjee	91	Accenture	Accenture_2020
92	HRISHAV RANJAN	92	Accenture	Accenture_2020
93	Justice Chakravorty	93	Deloitte	Deloitte_2020
94	Kumar Sidhant	94	Lendingkart Technologies Pvt.Ltd	Lendingkart Technologies Pvt.Ltd_2020
95	Lovish Kundu	95	Deloitte	Deloitte_2020
96	Moumita Bhattacharya	96	Cognizant	Cognizant_2020
97	Naveet kumar	97	Cognizant	Cognizant_2020
98	Nishant Kumar	98	Accenture	Accenture_2020
99	Ravi Kumar Singh	99	Accenture	Accenture_2020
100	Richa Lohani	100	Capgemini	Capgemini_2020
101	Rounak Kumar	101	ITC Infotech	ITC Infotech_2020
102	Rounak Mahanty	102	KPIT	KPIT_2020
103	Shreyasi Mazumder	103	HighRadius	HighRadius_2020
104	Shubhangi Suman	104	IBS software Pvt.Ltd	IBS software Pvt.Ltd_2020
105	SOHAM ROY	105	Wipro	Wipro_2020

106	Soumalya Chakrabarti	106	ITC Infotech	ITC Infotech_2020
107	Subhadip Mondal	107	Merkle Sokrati	Merkle Sokrati_2020
108	Surabhi Bhattacharya	108	Merkle Sokrati	Merkle Sokrati_2020
109	Sushmita Sen Sharma	109	Accenture	Accenture_2020
110	Swayanta Das	110	ITC Infotech	ITC Infotech_2020
111	Titikhyu Dixit	111	ZS Associates	ZS Associates_2020
112	Aiswarya Priyadarshini	112	Cognizant	Cognizant_2020
113	Akash Kumar Sahu	113	Cognizant	Cognizant_2020
114	Ameesha	114	Ericsson	Ericsson_2020
115	Amitosh Acharya	115	Wipro	Wipro_2020
116	Anindita Sinhababu	116	Accenture	Accenture_2020
117	Arghya Kusum Halder	117	HighRadius	HighRadius_2020
118	Aryan Patel	118	Cognizant	Cognizant_2020
119	Basina Venkata Sachit	119	HighRadius	HighRadius_2020
120	Bishal Saha	120	Wipro	Wipro_2020
121	Dinesh Agrawal	121	Wipro	Wipro_2020
122	JAHNAVI VAGISHA	122	Cognizant	Cognizant_2020
123	Mayank Shekhar Pandey	123	Cognizant	Cognizant_2020
124	Medha Ghosh	124	Deloitte	Deloitte_2020
125	Neha Barnwal	125	Jia Digital	Jia Digital_2020
126	Nilesh Kumar Sahu	126	Wipro	Wipro_2020
127	Raksha Sinha	127	HighRadius	HighRadius_2020
128	Riddhi Das	128	Rockwell Automation	Rockwell Automation_2020
129	Ritik Kumar	129	HighRadius	HighRadius_2020
130	Ronit Das	130	HighRadius	HighRadius_2020
131	Adya Avijeeta	131	HighRadius	HighRadius_2020
132	Ruhika Kriti	132	Ericsson	Ericsson_2020
133	Sachin Kumar Tiwari	133	Tudip	Tudip_2020
134	Sayan Panja	134	Robert Bosch	Robert Bosch_2020
135	Sayantana Majee	135	Wipro	Wipro_2020
136	Shramana Bhattacharyya	136	Accenture	Accenture_2020
137	Shreeja Dasgupta	137	Prodapt	Prodapt_2020

138	SIDDHARTHA SENAPATI	138	Wipro	Wipro_2020
139	Soumya	139	Accenture	Accenture_2020
140	Subhasish Mukherjee	140	Byjus	Byjus_2020
141	Suprit Shekhar	141	Accenture	Accenture_2020
142	Vanita Patnaik	142	Cognizant	Cognizant_2020
143	Aliva Maity	143	Cognizant	Cognizant_2020
144	Ambalika Phukan	144	Accenture	Accenture_2020
145	Aniket Koley	145	Wipro	Wipro_2020
146	Anish Raj	146	UpGrad	UpGrad_2020
147	Anupam patro	147	Accenture	Accenture_2020
148	Aryan	148	Accenture	Accenture_2020
149	Debangana Saha	149	HighRadius	HighRadius_2020
150	Harshit Bhatia	150	Accenture	Accenture_2020
151	Hemant Shahi	151	Accenture	Accenture_2020
152	Hrishita Bhattacharjee	152	HSBC	HSBC_2020
153	Kashish raj	153	Accenture	Accenture_2020
154	Kunjana Sovarani Behera	154	Accenture	Accenture_2020
155	Navneet Kumar Pandey	155	Accenture	Accenture_2020
156	Poulami Majumder	156	Accenture	Accenture_2020
157	Prateek Gaurav	157	Accenture	Accenture_2020
158	Pratik Verma	158	Capgemini	Capgemini_2020
159	Pritam Chowdhury	159	HighRadius	HighRadius_2020
160	Rajarshi Halder	160	Nineleaps	Nineleaps_2020
161	Ruskin Potsangbam	161	Osmosys	Osmosys_2020
162	Sagnik Ghosh	162	Tejas Networks	Tejas Networks_2020
163	Satyam Jha	163	Capgemini	Capgemini_2020
164	SIDDHARTHA GOSWAMI	164	Wipro	Wipro_2020
165	Sneha chatterjee	165	L&T Technology	L&T Technology_2020
166	SOUMYA JYOTI MAITI	166	Wipro	Wipro_2020
167	Amlan Bidwan	167	Cognizant	Cognizant_2020
168	Daiby Sunandan Barik	168	HighRadius	HighRadius_2020
169	Sriya Mohanty	169	Accenture	Accenture_2020
170	SWETA MANNA	170	Cognizant	Cognizant_2020

4.5. Professional Activities (20)

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

Student Societies:

- IEEE Antennas and Propagation Society student branch chapter at KIIT was formed on 10th May, 2017. The faculty coordinator of Antenna and Propagation Society student branch chapter is Dr. Sudhakar Sahu.
- An IoT Special Interest Group (SIG) is created in School of Electronics Engineering in the year 2016 under the initiative of Professor S.P. Kar, Professor A. Misra, Professor R. Yadav, and Professor T. Singh. IoT being a recent trend, school of electronics engineering is relentlessly working to enhance skills of students in various cutting-edge technologies related to IoT and various embedded and prototyping platforms.
- The KIIT Robotic 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. Faculty coordinators is of KRS are Dr. N.K. Rout, Professor V. Srivastava, Professor V.K. Jha, Professor Sruti S. Singh, Professor Ganaraj P.S., and Professor B.N. Rao.
- E-labs is a peer learning platform which is a part of school of electronics engineering. Students. Having knowledge in various domains come together to share their knowledge with others. We always aim towards creating a better tomorrow. Faculty coordinator of elabs is Dr. N.K. Rout.

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

List of Publication:

- **Project Expo Book** - Each year selected abstracts from the final year project Expo are published from School of Electronics Engineering. The objectives of Project Expo which was started in the year 2018 with an exceptional idea to showcase the research talents, Innovativeness, creativity of all final year B.Tech students. Prototype projects on recent societal issues with respect to better efficiency and low-cost product has been encouraged to the students. It is a platform to promote multidisciplinary research among all students of the school.
- **Kuriosity Magazine** - Kuriosity is the official technical magazine of KIIT School of Electronics Engineering. It was started in the year 2017 with the sole objective of encouraging students to explore deep into the vast ocean of knowledge. Kuriosity is a biannual magazine that has come up with four editions, each characterised by a distinct theme. With every edition, this magazine has explored and grown in terms of presenting the readers with quality content. Kuriosity is of, for and by the students. It publishes mind boggling projects, research and technical articles of the students as well as those of the faculty members. Kuriosity in today's time can be called an epitome of a quality technical magazine at the university level. KIIT School of Electronics Engineering also publishes biannual newsletter in January and July of every academic session.

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

Students are encouraged to participate in different inter-institute events and activities during their course of study. Students participated in events organised during annual KIIT Fest.

List of Events: Robo War, Seguidor, Mirror Maze, Cultural Events like dance and musical competitions, Poetry, Fashion etc.

List of awards:

Sl. No.	Event	Team members /Individual	Awards
1	IEEE OTCN 2.0	Nikhil Kumar , Sayanti Maity, Rittika Karmakar , Paridhi Verma	BEST PAPER AWARD in 2023
2	Invention title - Face Fence	Prajesh Kumar De, Hritabrata Mandal, Mayukh Bhattacharya, Manas Mishra, Prerna Kumari	Patent
3	X race -IEM Kolkata	Rohit , Yashaswi, Purendra, Varshika	3rd position
4	Analog Circuit Design- IIT Bhubaneswar	Hritabrata Mandal	1st prize
5	ROBOVATION -IIT BHU	Aaryaman Bhardwaj, Dipanjan Bakshi, Pallabika Bora	1st position
6	ICDCIT-2022	Kshitij Kumar Sharma, Chittaranjan Pradhan	2nd position
7	Replica-NIT Rourkela	Dipanjan Bakshi, Prajesh Kr De, Mayukh Bhattacharya	Winners
8	ROBOCON - IIT Delhi	Anshuman, Kaiwalya, Aditya, Purendra, Rohit, Shivans, Yashashwi, Varshika	Final stage
9	APOGEE- BITS Pilani	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum, Vaishnavi Jaiswal	2nd position
10	BITMDM-2021	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum	Published a paper in Springer
11	AESPC-2021	Nikhil Kumar, Md Iqbal, Asma Mohiuddin, Sahil Anjum	Published a paper in IEEE
12	Project Expo 2021	Dipam Paul	Secured 1 st Position
13	Ericsson, KPIT, VVDN. AESPC 2021	Sourav Das	Published his work in reputed journal and Multiple offers

Also, students are actively involved in following student societies:

E-Cell, Fashion Society, Film Society, Finance Society, It & Web Designing Society, Kalakar, Karma (Physically Challenged), Kartavya, Keurig, Kiit MUNSociety, KIIT Wordsmith, Korus Dance, Korus Music, Kreative Eye, Kronicle, Qutopia, Robotic Society. NSS and NCC activities.

CRITERION 5	Faculty Information and Contributions	200
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Sl. No.	Name	University Degree	PAN No.	Date of Receiving Highest Degree	Area of Specialization	Current Designation	Initial Date of Joining	Date (Designated as Prof / Assoc. Prof.).	Association Type	At present working with the Institution (Yes / No)	In case of NO, Date of Leaving	IS HOD/ Principal?
1	N.K Panda	M.E/M.Tech	AWUPP6659G	26/06/2013	Communication Engineering	Assistant Professor	22/02/2021		Regular	Yes		No
2	Rishi Kumar Khanna	M.E/M.Tech	CBZPK3883M	04/07/2012	Communication	Assistant Professor	25/06/2012		Regular	Yes		No
3	Sandeep Kumar Dash	M.E/M.Tech	AZRPD8554E	27/12/2011	VLSI	Assistant Professor	01/07/2013		Regular	Yes		No
4	Satish Kumar Gannamaneni	M.E/M.Tech	BDRPG9414P	24/07/2013	Communication	Assistant Professor	11/07/2013		Regular	Yes		No
5	Shruti	M.E/M.Tech	DJNPS7003A	01/12/2022	Wireless Communication	Assistant Professor	24/06/2019		Regular	Yes		No
6	Srinivas Ramavath	M.E/M.Tech	BIRPR4860F	18/06/2018	Communication	Assistant Professor	06/06/2012		Regular	Yes		No
7	Sruti Suvadarsini Singh	M.E/M.Tech	BNQPS1337E	27/07/2013	VLSI	Assistant Professor	20/06/2014		Regular	Yes		No
8	Subir Kumar Maity	M.E/M.Tech	BFLPM6775F	11/07/2011	VLSI	Assistant Professor	18/06/2012		Regular	Yes		No
9	Susanta Kumar Badi	M.E/M.Tech	BHSPB6809E	13/07/2013	Communication	Assistant Professor	19/06/2014		Regular	Yes		No
10	Swetaleena Sahoo	M.E/M.Tech	DTLPS5042D	10/06/2014	Communication	Assistant Professor	18/06/2014		Regular	Yes		No
11	Abhik Gorai	ME/M. Tech and PhD	AMIPG8141J	28/12/2020	Antenna RF & Microwave	Assistant Professor	01/07/2013		Regular	Yes		No
12	Abu Nasar Ghazali	ME/M. Tech and PhD	ASQPG6626C	06/03/2014	RF & Microwave	Assistant Professor	20/06/2016		Regular	Yes		No
13	Amit Bakshi	M.E/M.Tech	ATRPB5696H	08/10/2013	VLSI & Embedded System Design	Assistant Professor	20/06/2014		Regular	Yes		No
14	Amit Kumar V. Jha	M.E/M.Tech	ANCPJ4857H	30/06/2022	Communication	Assistant Professor	26/06/2015		Regular	Yes		No
15	Amlan Datta	ME/M. Tech and PhD	AEXPD4413R	13/05/1993	Communication	Professor	25/06/2012	25/06/2012	Regular	Yes		No
16	Anupam Samui	ME/M. Tech and PhD	CKGPS4458G	23/11/2005	Communication	Associate Professor	18/07/2008	01/09/2015	Regular	Yes		No
17	Arighna Deb	ME/M. Tech and PhD	AWDPD7921Q	01/12/2017	Electronics and Communication	Assistant Professor	19/07/2017		Regular	Yes		No
18	Arindam Basak	ME/M. Tech and PhD	BFQPB6041A	14/01/2020	Power Engg.	Assistant Professor	25/06/2012		Regular	Yes		No
19	Ayaskanta Mishra	ME/M. Tech and PhD	BGYPM5932Q	09/10/2012	Communication & Networking	Assistant Professor	26/08/2011		Regular	Yes		No
20	B. Shivalal Patro	ME/M. Tech and PhD	BPPRS2154H	01/11/2018	VLSI & Signal Processing	Assistant Professor	01/02/2013		Regular	Yes		No
21	Bhargav Appasani	ME/M. Tech and PhD	BREPB9225L	22/02/2022	Wireless Communication	Assistant Professor	06/02/2017		Regular	Yes		No
22	Bishnu Prasad De	ME/M. Tech and PhD	AXHPD0519M	13/09/2016	Electronics and Communication	Assistant Professor	11/09/2017		Regular	Yes		No
23	Bvv Subrahmanya Kumar	ME/M. Tech and PhD	ANQPBI964K	19/09/2011	VLSI Embedded & Power	Professor	13/12/2011	01/09/2015	Regular	Yes		No

					Electronics							
24	Ganaraj P S	M.E/M.Tech	DFUPS8311N	01/06/2011	VLSI	Assistant Professor	21/08/2017		Regular	Yes		No
25	Israj Ali	MS	BCQPA9515F	01/07/2014	Communication	Assistant Professor	18/06/2012		Regular	Yes		No
26	Jibendu SekharRoy	M.Sc. and PhD	ABQPR5567E	27/08/1991	Antenna RF & Microwave	Professor	05/02/2009	05/02/2009	Regular	Yes		No
27	Jitendra KumarDas	ME/M. Tech and PhD	AQSPD5344A	11/01/2011	VLSI	Associate Professor	18/06/2012	10/11/2012	Regular	Yes		No
28	Kanan Bala Ray	ME/M. Tech and PhD	AINPR3623B	03/11/2017	VLSI	Associate Professor	02/05/1994	01/09/2019	Regular	Yes		No
29	Shweta Alpna	M.E/M.Tech and PhD	ABMPA3664P	30/09/2006	Communication	Associate Professor	03/01/2005	01/09/2015	Regular	Yes		No
30	Udai Pratap Singh	M.Sc. and PhD	ASRPS5194E	27/12/1993	Solar Energy	Professor	02/12/2002	01/09/2007	Regular	Yes		No
31	Budhadeb Maty	ME/M. Tech and PhD	ASNPM8005A	15/09/2012	Antenna RF & Microwave	Assistant Professor	18/06/2012		Regular	Yes		No
32	Jabir Hussain	M.E/M.Tech	AKBPH4404J	04/07/2014	RF & Microwave	Assistant Professor	20/06/2016		Regular	No	24/08/2019	No
33	Joy Choudhary	M.E/M.Tech	AONPC8080K	17/11/2015	VLSI Design	Assistant Professor	01/07/2015		Regular	No	16/07/2018	No
34	Manisha Sahoo	M.E/M.Tech	CUVPS4982C	03/11/2014	VLSI Signal Processing	Assistant Professor	19/06/2017		Regular	No	06/07/2018	No
35	Mayank Mishra	M.E/M.Tech	CFDPM9467B	11/11/2017	Communication System	Assistant Professor	01/12/2017		Regular	No	12/07/2019	No
36	Ankit Kudeshia	ME/M. Tech and PhD	AXJPK2266J	12/11/2018	Wireless Communication	Assistant Professor	15/07/2010		Regular	No	12/09/2020	No
37	Kumar Biswal	M.E/M.Tech	AGNPB6551E	29/05/2009	Instrumentation	Assistant Professor	01/09/2015		Regular	Yes		No
38	Lizina Khatua	ME/M. Tech and PhD	APEPK8096D	11/09/2019	Communication	Associate Professor	05/07/2005	01/09/2019	Regular	Yes		No
39	Makireddi Ramana	M.E/M.Tech	BJYPM1564K	30/05/2013	Control & Instrumentation	Assistant Professor	01/07/2013		Regular	Yes		No
40	Manoj Kumar Parida	ME/M. Tech and PhD	BKMPP7541N	30/07/2019	Semiconductors	Assistant Professor	23/07/2018		Regular	Yes		No
41	Manoranjan Kumar	ME/M. Tech and PhD	CUCPK7621M	06/07/2018	Control and Instrumentation	Assistant Professor	13/07/2018		Regular	Yes		No
42	Nirmal Kumar Rout	M.E/M.Tech	ABYPR0884L	10/10/2014	Communication & Signal Processing	Professor	12/09/2007	01/09/2015	Regular	Yes		No
43	Om Prakash Acharya	ME/M. Tech and PhD	AJBPA8271H	11/05/2016	RF and Microwave Engineering	Associate Professor	29/06/2016	02/01/2017	Regular	Yes		No
44	P. K. Samant	M.E/M.Tech	GIAPS5624E	01/08/2017	VLSI Design	Assistant Professor	01/08/2018		Regular	Yes		No
45	Parveen Malik	ME/M. Tech and PhD	CTMPM4032K	22/05/2020	Signal Processing	Assistant Professor	23/07/2018		Regular	Yes		No
46	Rajiv Kumar Mishra	M.E/M.Tech	BYPM0516L	24/12/2011	Instrumentation & Control Engg	Assistant Professor	18/06/2012		Regular	Yes		No
47	Ruby Mishra	M.E/M.Tech	BCCPM4618M	17/06/2014	VLSI	Assistant Professor	18/06/2014		Regular	No	18/07/2019	No
48	Tushar Singh	M.E/M.Tech	CWKPS4710H	10/07/2012	Communication	Assistant Professor	14/07/2014		Regular	No	07/09/2018	No
49	Amrit Mukherjee	ME/M. Tech and PhD	AVGPM9748J	09/02/2021	Communication	Assistant Professor	01/07/2013		Regular	No	Study leave	No
50	Anupama Senapati	ME/M. Tech and PhD	CRMPS3528J	21/11/2016	Antenna RF & Microwave	Assistant Professor	18/06/2012		Regular	Yes		No
51	Deepak Kumar Rout	ME/M. Tech and PhD	ALIPR2704B	21/01/2017	Wireless Communication	Assistant Professor	18/06/2018		Regular	Yes		No
52	Mamata Panigrahy	ME/M. Tech and PhD	BFOPP4277E	02/05/2016	VLSI & embedded system design	Assistant Professor	20/06/2016		Regular	Yes		No

53	Sanhita Mishra	ME/M. Tech and PhD	BSDPM8123Q	29/04/2022	Power System	Assistant Professor	31/03/2014		Regular	Yes		No
54	Sumit Dass	ME/M. Tech and PhD	AWPPD0248N	01/07/2020	Optical Fiber Communication	Assistant Professor	01/07/2019		Regular	No	Study leave	No
55	Rajendra Prasad	ME/M. Tech and PhD	BMPMP3994N	05/05/2011	VLSI & Solar Energy	Assistant Professor	25/01/2012		Regular	Yes		No
56	Pattepu Sunil	M.E/M.Tech	EGIPS6764P	06/07/2012	Communication	Assistant Professor	06/07/2012		Regular	Yes		No
57	Pradipta Dutta	ME/M. Tech and PhD	AKVPD2229H	30/12/2016	Devices	Associate Professor	23/07/2007	01/09/2017	Regular	Yes		No
58	A.K Pati	ME/M. Tech and PhD	AVTPP1870F	20/12/2019	Instrumentation and Control	Assistant Professor	02/09/2020		Regular	Yes		No
59	Ujjwal Barman	ME/M. Tech and PhD	ASSPB9144J	08/04/2019	Semiconductors	Assistant Professor	19/06/2019		Regular	Yes		No
60	Shivam Gautam	ME/M. Tech and PhD	CFSPG5060D	21/07/2017	Power Electronics	Assistant Professor	26/08/2019		Regular	Yes		No
61	Rasmita Lenka	ME/M. Tech and PhD	AFOPL5823R	13/12/2021	Communication	Assistant Professor	25/06/2012		Regular	Yes		No
62	Sananda Kumar	ME/M. Tech and PhD	AXBPK8784F	12/01/2017	Electronics and Communication	Assistant Professor	19/06/2017		Regular	Yes		No
63	Subhashree Mishra	ME/M. Tech and PhD	ARKPM6875A	24/10/2017	Communication	Assistant Professor	01/07/2013		Regular	Yes		No
64	Suman Roy	ME/M. Tech and PhD	AQRPR3938D	16/07/2021	Control System	Assistant Professor	31/07/2018		Regular	Yes		No
65	Satya Narayan Mishra	ME/M. Tech and PhD	APQPM0242R	20/07/2013	VLSI DESIGN	Assistant Professor	02/07/2013		Regular	Yes		No
66	Ansuman Patnaik	M.E/M.Tech	AZVPP7132Q	07/08/2012	Communication	Assistant Professor	18/06/2014		Regular	Yes		No
67	Bikash Kumar Behera	M.E/M.Tech	BMMPB6116P	12/12/2018	Telecommunication	Assistant Professor	10/01/2014		Regular	Yes		No
68	Debolina Deb	M.E/M.Tech	BGIPB0628J	16/08/2014	Electronics and Communication Engineering	Assistant Professor	02/02/2015		Regular	Yes		No
69	Deep Mukherjee	M.E/M.Tech	BJTPM5275L	30/07/2012	Instrumentation	Assistant Professor	28/08/2012		Regular	Yes		No
70	Manoj Kumar Beuria	M.E/M.Tech	BKYPB2530D	21/09/2013	Communication	Assistant Professor	01/07/2014		Regular	Yes		No
71	Nageswara Rao Budipi	M.E/M.Tech	BJGPB4638H	16/12/2013	Signal Processing	Assistant Professor	04/07/2013		Regular	Yes		No
72	Sunil Kumar Mishra	ME/M. Tech and PhD	ASDPM1568N	13/09/2017	Control and Instrumentation	Assistant Professor	29/06/2018		Regular	Yes		No
73	Sushanta Kumar Mohapatra	ME/M. Tech and PhD	AJPPM8613D	08/04/2016	Devices	Assistant Professor	20/06/2016		Regular	Yes		No
74	Truptimayee Behera	ME/M. Tech and PhD	AXRPB8303M	10/12/2021	Communication	Assistant Professor	04/09/2012		Regular	Yes		No
75	Vikas Kumar Jha	ME/M. Tech and PhD	ANOPJ2700K	11/09/2018	Electronics and Communication	Assistant Professor	19/06/2017		Regular	Yes		No
76	Vimal Kumar Shrivastava	ME/M. Tech and PhD	DPYPS2995E	09/02/2017	Signal Processing	Assistant Professor	06/06/2017		Regular	Yes		No
77	Vinod Jha	ME/M. Tech and PhD	AQNPJ0472C	11/08/2021	Signal Processing	Assistant Professor	23/07/2010		Regular	No	Study leave	No
78	Wriddhi Bhowmick	ME/M. Tech and PhD	AIYPB7928C	12/01/2017	Wireless Communication	Assistant Professor	27/06/2018		Regular	Yes		No
79	S. K. Sabat	ME/M. Tech and PhD	AOIPS7668L	08/07/2011	Medical Electronics	Associate Professor	02/06/2018	02/06/2018	Regular	Yes		No
80	Sarita Nanda	ME/M. Tech and PhD	ACXPN1889M	12/11/2016	Communication	Associate Professor	01/11/2004	01/09/2017	Regular	Yes		No
81	Princy Sharma	M.E/M.Tech	CUJPS8216B	03/11/2011	Instrumentation & Signal Processing	Assistant Professor	11/07/2014		Regular	Yes		No
82	Priya Das	M.E/M.Tech	BRKPD5253N	01/06/2018	Sig. Processing	Assistant Professor	18/06/2018		Regular	Yes		No

83	Rahul Yadav	M.E/M.Tech	AGRPY4153D	26/06/2014	Microwave Engineering	Assistant Professor	24/06/2014		Regular	Yes		No
84	Ravada Satish Kumar	M.E/M.Tech	ASJPR5280J	09/08/2010	Instrumentation	Assistant Professor	15/07/2010		Regular	Yes		No
85	Sambit Prasad Kar	M.E/M.Tech	BIRPK5889H	03/08/2013	Signal Processing	Assistant Professor	01/07/2013		Regular	Yes		No
86	Snehalika	M.E/M.Tech	FCMPS2789K	06/06/2016	Power System	Assistant Professor	02/08/2016		Regular	Yes		No
87	Soubhagya Ranjan Prusty	M.E/M.Tech	BCDPP7425C	11/08/2011	Power Electronics	Assistant Professor	24/09/2012		Regular	Yes		No
88	Sreyashi Roy	M.E/M.Tech	AYGPR6236B	27/08/2009	Instrumentation & Control Engg	Assistant Professor	03/09/2012		Regular	Yes		No
89	Suchismita Roy	M.E/M.Tech	ASEPR7756C	01/07/2009	Power Electronics	Assistant Professor	15/02/2011		Regular	Yes		No
90	Asish Kumar Sen	M.E/M.Tech	ADQPS4424D	08/01/1993	Instrumentation	Professor	23/06/2000		Regular	Yes		No
91	A. Pradhan	M.E/M.Tech and PhD	APPPR2488P	21/11/2018	Power Electronics	Associate Professor	01/02/2011	01/09/2019	Regular	Yes		No
92	Arindam Deb	ME/M. Tech and PhD	AQVPD1486G	03/07/2017	Antenna RF & Microwave	Associate Professor	19/07/2008	01/09/2019	Regular	Yes		No
93	Jyoti Ranjan Panda	ME/M. Tech and PhD	AOHPP4837P	17/10/2012	Antenna RF & Microwave	Associate Professor	18/06/2012	10/11/2012	Regular	Yes		No
94	Manjusha Behera	ME/M. Tech and PhD	AKGPB0236K	11/12/2004	Communication	Associate Professor	11/07/2005	01/09/2015	Regular	Yes		No
95	Pravat Biswal	ME/M. Tech and PhD	AXBPB9490M	15/06/2011	Power electronics and drives	Associate Professor	26/08/2011	01/01/2015	Regular	Yes		No
96	Sasmita Pahad Singh	ME/M. Tech and PhD	ANRPP4944N	10/11/2018	Antenna RF & Microwave	Associate Professor	05/07/2005	01/09/2019	Regular	Yes		No
97	Sradhanjali Mohapatra	ME/M. Tech and PhD	ANQPM5061Q	29/10/2018	Antenna RF & Microwave	Associate Professor	14/07/2008	01/09/2019	Regular	Yes		No
98	Srinibasa Padhy	ME/M. Tech and PhD	AVEPP8289R	23/12/2021	VLSI & Solar Energy	Associate Professor	02/07/2012	01/01/2019	Regular	Yes		No
99	Swati Swayamsiddha	ME/M. Tech and PhD	CWKPS1482A	16/02/2018	Communication	Associate Professor	09/07/2009	01/01/2019	Regular	Yes		No
100	Tapaswini Samant	ME/M. Tech and PhD	AXZPS0223M	10/11/2018	Communication	Associate Professor	01/08/2003	01/09/2019	Regular	Yes		No
101	Tejaswini Kar	ME/M. Tech and PhD	AXPPK9206Q	02/11/2018	Communication	Associate Professor	11/07/2008	01/09/2019	Regular	Yes		No
102	Tirtha Majumder	ME/M. Tech and PhD	AVEPM9662R	18/03/2020	Communication	Associate Professor	06/07/2007	01/09/2019	Regular	Yes		No
103	Prasant Kumar Patra	ME/M. Tech and PhD	ADRPP4267E	23/09/2017	Communication	Professor	18/07/2007	01/09/2019	Regular	Yes		No
104	Sudhakar Sahu	ME/M. Tech and PhD	AYOPS8331A	12/10/2012	Antenna RF & Microwave	Professor	01/03/2000	01/09/2015	Regular	Yes		No
105	Sarita Samal	ME/M. Tech and PhD	DQTPS1586F	30/11/2019	Power System	Associate Professor	25/07/2008		Regular	Yes		No
106	Srikanta Mohapatra	ME/M. Tech and PhD	ACYPM6709J	08/04/2016	FACTS	Associate Professor	25/08/2010	01/09/2017	Regular	Yes		No
107	Subhrakanta Behera	ME/M. Tech and PhD	DHPPS2734N	07/12/2011	Antenna RF & Microwave	Associate Professor	10/01/2012	01/01/2016	Regular	Yes		No
108	Suvashish Kund	ME/M. Tech and PhD	DKOPK2265N	12/06/2012	VLSI Design	Associate Professor	12/02/2013	01/01/2016	Regular	Yes		No
109	Umesh Chandra Samal	ME/M. Tech and PhD	BJGPS6484T	23/02/2015	Signal Processing	Associate Professor	09/01/2017	09/01/2017	Regular	Yes		No
110	Arun Kumar Ray	ME/M. Tech and PhD	ADUPR0760R	28/11/2011	Signal Processing	Professor	28/04/1998	05/06/2012	Regular	Yes		No
111	Shivcharan Lal Sharma	ME/M. Tech and PhD	AJZPS8974P	18/05/1981	Physics	Professor	17/06/2016	17/06/2017	Regular	Yes		No
112	Sudhansu Sekhar Singh	ME/M. Tech and PhD	AREPS4805J	22/09/2009	Mobile Comm.	Professor	13/07/2007	16/01/2013	Regular	Yes		No
113	Suprava Patnaik	ME/M. Tech and PhD	ABHPP8239J	13/10/2004	Signal Processing	Professor	04/09/2019		Regular	Yes		Yes

114	D. Datta	Ph.D	ACUPD1554E	15/11/2022	Optical Communicatio	Professor Emeritus	15/11/2022		Regular	Yes		No
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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): 04

No. of PG Programs in the Department (m): 01

No. of Students in UG 2nd Year= **u1**; No. of Students in UG 3rd Year= **u2** No.

of Students in UG 4th Year= **u3**;

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year= **p2**

UG 1: B.Tech. in Electronics and Telecommunication Engineering

UG 2: B.Tech. in Electronics and Electrical Engineering

UG 3: B.Tech. in Electronics and Instrumentation Engineering

UG 4: B.Tech. in Electronics and Computer Science Engineering

PG1: M.Tech. in Electronics

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+UG4+PG1+PG2

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

Student Faculty Ratio (SFR) = S / F

Year	CAY (22-23)	CAYm1 (21-22)	CAYm2 (20-21)
u1.1	190	194	195
u1.2	194	195	191
u1.3	195	191	185
UG1	579	580	571
u2.1	131	127	131
u2.2	127	131	125
U2.3	131	125	123
UG2	389	383	379
u3.1	60	60	60
u3.2	60	60	60
u2.3	60	60	60
UG3	180	180	180
u4.1	66	62	66
u4.2	62	66	-
u4.3	66	-	-

UG4	194	128	66
p1.1	25	25	25
p1.2	25	25	25
PG1	50	50	50
Total No. of Students in the Department (S)	1392	1321	1246
No. of Faculty in the Department (F)	114	116	115
Student Faculty Ration (SFR)	SFR1=12.21	SFR2= 11.38	SFR3= 10.83
Average SFR	SFR=(SFR1+SFR2+SFR3)/3		11.47

Table B.5.1

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	-	20 Marks
< = 17	-	18 Marks
< = 19	-	16 Marks
< = 21	-	14 Marks
< = 23	-	12 Marks
< = 25	-	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 department	Total number of contractual faculty in the department
CAY	114	0

CAYm1	116	0
CAYm2	115	0

Table 5.1.1

Assessment SFR: 20

5.2. Faculty Cadre Proportion (20)

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

F1: Number of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ Number of Faculty required to comply with

20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY	8	12	16	26	48	76
CAYm1	7	10	14	24	42	82
CAYm2	6	10	12	23	36	82
Average Numbers	RF1=7	AF1=10	RF2=14	AF2=24	RF3=42	AF3=80

Table B.5.2

- 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 = $(1+0.6+0.4) \times 10 = 20$

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

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

5.3. Faculty Qualification (20)

$FQ = 2.0 \times [(10X + 4Y)/F]$ 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)

	X	Y	F	FQ = 2.0 x [(10X + 4Y)/F]
CAY (2022-23)	72	42	70	25.37
CAYm1	74	42	66	27.52
CAYm2	68	47	62	28
Average Assessment				26.96

Table B.5.3

5.4. Faculty Retention (10)

Description	2021-22 (CAYm1)	2022-23 (CAY)
No of Faculty Retained	115	114
Total No of Faculty	116	115
% of Faculty Retained	99.1%	99.1%

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 CAYm2 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

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 of the Faculty Member	Specialization	No. of Publication	PhD Guidance
1	N.K Panda	Communication Engineering	2	
2	Rishi Kumar Khanna	Communication		
3	Sandeep Kumar Dash	VLSI	2	
4	Satish Kumar Gannamaneni	Communication	1	
5	Shruti	Wireless Communication	6	
6	Srinivas Ramavath	Communication	3	
7	Sruti Suvadarsini Singh	VLSI	11	
8	Subir Kumar Maity	VLSI	7	
9	Susanta Kumar Badi	Communication	2	
10	Swetaleena Sahoo	Communication	1	
11	Abhik Gorai	Antenna RF & Microwave	9	
12	Abu Nasar Ghazali	RF & Microwave	2	1
13	Amit Bakshi	VLSI & Embeded System Design	6	
14	Amit Kumar V. Jha	Communication	38	
15	Amlan Datta	Communication	3	6
16	Anupam Samui	Communication		
17	Arighna Deb	Electronics and Communication	7	
18	Arindam Basak	Power Engg.	12	1
19	Ayaskanta Mishra	Commucation & Networking	18	
20	B. Shivalal Patro	VLSI & Signal Processing	6	
21	Bhargav Appasani	Wireless Communication	4	3
22	Bishnu Prasad De	Electronics and Communication	13	1
23	Bvv Subrahmanya Kumar	VLSI Embedded & Power Electronics	11	4
24	Ganaraj P S	VLSI	1	
25	Israj Ali	Communication	2	
26	Jibendu Sekhar Roy	Antenna RF & Microwave	26	8
27	Jitendra Kumar Das	Antenna RF & Microwave	37	7
28	Kanan Bala Ray	VLSI	5	1
29	Shweta Alpna	Communication	1	
30	Udai Pratap Singh	Solar Energy	46	14
31	Budhadeb Maity	Antenna RF & Microwave	7	
32	Jabir Hussain	RF & Microwave	3	
33	Joy Choudhary	VLSI Design	1	

34	Manisha Sahoo	VLSI Signal Processing	2	
35	Mayank Mishra	Communication System	4	
36	Ankit Kudeshia	Wireless Communication	7	
37	Kumar Biswal	Instrumentation	8	
38	Lizina Khatua	Communication	1	
39	Makireddi Ramana	Control & Instrumentation	4	
40	Manoj Kumar Parida	Semiconductors	7	
41	Manoranjan Kumar	Control and Instrumentation	9	1
42	Nirmal Kumar Rout	Communication & Signal Processing	18	5
43	Om Prakash Acharya	RF and Microwave Engineering	13	4
44	P. K. Samant	VLSI Design	3	
45	Parveen Malik	Signal Processing	5	
46	Rajiv Kumar Mishra	Instrumentation & Control Engg	1	
47	Ruby Mishra	VLSI	1	
48	Tushar Singh	Communication	5	
49	Amrit Mukherjee	Communication	3	
50	Anupama Senapati	Antenna RF & Microwave	2	3
51	Deepak Kumar Rout	Wireless Communication	6	3
52	Mamata Panigrahy	VLSI & embedded system design	3	
53	Sanhita Mishra	Power System	12	
54	Sumit Dass	Optical Fiber Communication	4	
55	Rajendra Prasad	VLSI & Solar Energy	5	
56	Pattepu Sunil	Communication	5	
57	Pradipta Dutta	Devices	8	5
58	A.K Pati	Instrumentation and Control		
59	Ujjwal Barman	Semiconductors	6	
60	Shivam Gautam	Power Electronics	14	2
61	RasmitaLenka	Communication	9	
62	Sananda Kumar	Electronics and Communication	4	1
63	Subhashree Mishra	Communication	12	
64	Suman Roy	Control System	4	
65	Satya Narayan Mishra	VLSI DESIGN	1	
66	Ansuman Patnaik	Communication	4	
67	Bikash Kumar Behera	Telecommunication		
68	Debolina Deb	Electronics and Communication Engineering	2	
69	Deep Mukherjee	Instrumentation	1	
70	Manoj Kumar Beuria	Communication	3	
71	Nageswara Rao Budipi	Signal Processing	3	
72	Sunil Kumar Mishra	Control and Instrumentation	12	
73	Sushanta Kumar Mohapatra	Devices	38	1
74	Truptimayee Behera	Communication	12	

75	Vikas Kumar Jha	Electronics and Communication	7	
76	Vimal Kumar Shrivastava	Signal Processing	19	2
77	Vinod Jha	Signal Processing	5	
78	Wriddhi Bhowmick	Wireless Communication	2	
79	S. K. Sabat	Medical Electronics	41	7
80	Sarita Nanda	Communication	41	5
81	Princy Sharma	Instrumentation & Signal Processing		
82	Priya Das	Signal Processing	2	
83	Rahul Yadav	Microwave Engineering		
84	Ravada Satish Kumar	Instrumentation		
85	Sambit Prasad Kar	Signal Processing	8	
86	Snehalika	Power System	3	
87	Soubhagya Ranjan Prusty	Power Electronics		
88	Sreyashi Roy	Instrumentation & Control Engg		
89	Suchismita Roy	Power Electronics	4	
90	Asish Kumar Sen	Instrumentation		
91	A. Pradhan	Power Electronics	31	4
92	Arindam Deb	Antenna RF & Microwave	6	
93	Jyoti Ranjan Panda	Antenna RF & Microwave	13	3
94	Manjusha Behera	Communication	1	
95	Pravat Biswal	Power electronics and drives	6	
96	Sasmita Pahadsingh	Antenna RF & Microwave	11	2
97	Sraddhanjali Mohapatra	Antenna RF & Microwave	11	1
98	Srinibasa Padhy	VLSI & Solar Energy	8	
99	Swati Swayamsiddha	Communication	19	2
100	Tapaswini Samant	Communication	4	2
101	Tejaswini Kar	Communication	1	1
102	Tirtha Majumder	Communication	3	
103	Prasant Kumar Patra	Communication	1	1
104	Sudhakar Sahu	Antenna RF & Microwave	35	6
105	Sarita Samal	Power System	13	
106	Srikanta Mohapatra	FACTS	21	2
107	Subhrakanta Behera	Antenna RF & Microwave	8	3
108	Suvashish Kund	VLSI Design	1	
109	Umesh Chandra Samal	Signal Processing	19	
110	Arun Kumar Ray	Signal Processing	8	2
111	Shivcharan Lal Sharma	Semiconductors	4	1
112	Sudhansu Sekhar Singh	Mobile Communication	15	8
113	Suprava Patnaik	Signal Processing	21	
114	D. Datta	Optical communication	1	

Faculty members are involved in the course development through following means:

- Lecture notes
- PPT Slides
- Developing Video Lectures
- Publishing course books/Edited Books

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

Innovative teaching methodologies assist faculty members to deliver their lectures in an efficient manner thereby allowing the students to keep abreast of technological advancements. In addition, innovative teaching aids to impart rationale thinking and self sufficient thought process in the mindsets of students by making them more proactive.

Following are few teaching & learning process adopted by the faculty members:

- 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, KIITX, MOOC open courses, MHRD'S, Swayam, Coursera Courses, NPTEL videos, NDL, RemoteXS are available under KIIT Digital Library Consortium and Institute Repository for Student Centric Teaching-Learning Process.
- The students are also exposed to online course material by the subject experts through SAP Portal.
- The course materials are distributed among the students by the subject faculty well in advance of the commencement of class through Whatsapp Group, SAP Portal, Google Classroom, email or websites.
- Students are encouraged to access various forms of e-materials, assignments, practice sets for their self development.
- SAP Moodle, Google Class maintains and share all the course files, video lessons, GATE questions, text books and reference books online for all subjects of the semester. At the same time the student's performance can be evaluated in laboratory subjects using Moodle.

- Guest Lectures are conducted by inviting eminent persons from Industry and Academics.
- Alumni students are invited for technical talk and interact with the students.
- The faculty members to encourage students for participation in different competitions of technical innovations and experimentations form different research groups.
- The examination copies are evaluated by the faculty through in online mode through moodle/ third party software (Eduquity) and further students have the option to view the evaluated copies and can raise queries.
- 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' self-development 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 (eg. watssaap) has been formed between the studnets and faculties in order to handle the queries of the students and provide the solutions 24x7.
- The school faculty members organizes a number of workshops/ conferences/ project conests/ symposium throughout the year for dissemination of knowldge on recent technologies.
- The faculty members have established a number of centre of excellence in collaboration with external academic and research units for enchancing the skills of the students.
- Activity based learning has been introduced to analyze the abilities of students under different orientations based on problem sloving, 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.

A. E-contents and MOOCs developed from the School/Department:

i. The following courses have been registered in KIITX.

- Digital System and its FPGA design
- Wireless Sensor Network
- Machine Learning using Python

ii. Online available e-contents

SL no.	Name of the teacher	Link to the video lectures and econtent that can be accessed by anybody having the link (provide the URL link)
1	Suprava Patnaik	https://youtu.be/Eu3qWOoUdrc
2	Vimal Srivastava	https://youtu.be/972g_P9dauA
3	Debolina Deb	https://sites.google.com/kiit.ac.in/prof-debolina-deb/milimeterwave-antennas
4	S. Ramavath	https://sites.google.com/a/kiit.ac.in/ramavath-srinivas/file-cabinet
5	Rishi Kumar Khanna	https://drive.google.com/file/d/1xEXwer-2Waq5WT9qDEirX_v9Da-sZnQi/view?usp=sharing
6	Sruti S Singh	https://www.youtube.com/watch?v=VG18pp6xrb8&t=1428s

7	Deepak Kumar Rout	https://youtu.be/M__fqf5V4bo
8	Ayaskanta Mishra	Socket programming Virtual machine: https://drive.google.com/file/d/1LXfO2Hmcih9gFU9ABclw5QKjI0l1KqS/view?usp=sharing
9.	Ayaskanta Mishra	Network laboratory: https://sites.google.com/kiit.ac.in/networks-lab-electronics-kiit/home
10.	Dr. Deepak Kumar Rout	Video Lectures for the Principle of Digital Communication. Basics of Signals and Systems: 8 videos Analog Communication: 9 videos https://youtube.com/playlist?list=PLrTnofG_olzk9bCq1B6vcRU5dwiwTmGx3
11.	Dr. Deepak Kumar Rout	Video Lectures for Internet of Things.Objects and Applications of IoT. Evolution of Raspberry Pi Introduction to Python. https://youtube.com/playlist?list=PLrTnofG_olznwEPHJhh1WfQVnLCNZPcqb
12.	Dr. Suman Roy	Electrical and Electronic Measurements Laboratory 5 Modules. Exp. 01: Measurement of unknown medium resistance using Wheatstone bridge (online mode). Exp 02: Measurement of unknown low resistance using Kelvin's double bridge (online mode). Exp. 03: Measurement of unknown self-inductance using Maxwell bridge (online mode). Exp. 04: Measurement of unknown capacitance using Schering bridge. Exp. 05: Measurement of frequency using Wien's Bridge. https://youtu.be/sEB-newfEbI https://youtu.be/noq5TKWjWCA https://youtu.be/6pfP3ThuRbg https://youtu.be/3IR6BIYVluk https://youtu.be/9oEW8PCoOJY
13.	Dr. Amlan Datta	Wireless Sensor Network, Total module:13 https://drive.google.com/drive/folders/1Wk-p4ya0cCKQ2m3GqG2hLWvAZHf64xT2?usp=sharing
14.	Subir Kumar Maity	VLSI Laboratory manual. Total eight module experiment-wise. https://drive.google.com/drive/folders/1i211SDIKRvvB79dWkzNCUdMbSiFni8cT?usp=sharing
15.	Subir Kumar Maity	Semiconductor device and VLSI Design Lecture1: https://drive.google.com/file/d/14K6B1J_ZPqhiqqCkIHsSn5eqwuEYF-rr/view?usp=sharing Lecture2: https://drive.google.com/file/d/1OfrkjZf8nhi-vb3ZIEswmShQfuMCglbp/view?usp=sharing Lecture3: https://drive.google.com/file/d/1_jN3iUy2RSq-LOM1UULhsZO7a1-P55Gu/view?usp=sharing Lecture4: https://drive.google.com/file/d/1Gdj0axsegz0tRpXabF-5Ca-AOk2aaQSg/view?usp=sharing Lecture5: https://drive.google.com/file/d/1PrZxucgTnbfemWcMRNTA9y2vKD_DPb9/view?usp=sharing Lecture6: https://drive.google.com/file/d/1Mp_FvytrdGYqT2XAUfgr0ZrmueJZ-ZQZ/view?usp=sharing Lecture7: https://drive.google.com/file/d/1WSeikrTDys98Z-cdeX3AOL3NSqdavSir/view?usp=sharing

B. Startup by Faculty Members

Dr Vikas Kumar, Assistant Professor, KIIT-SOEE have a start-up "Swayogya Rehab Solutions (SRS)" which is incubated at KIIT, Technology Business Incubator (TBI), BBSR. The start-up jointly founded by Dr Vikas and Dr Pooja has developed a chondro-protective knee health monitoring orthotic device "Mi-Knee". It is a non-invasive, non-drug and portable treatment regime for the treatment of persons suffering from knee osteoarthritis. The "Mi-Knee system" provides a low frequency pulsed electromagnetic field (PEMF) which stimulates the joint tissue to reduce the pain and other secondary symptoms of osteoarthritis.

Key achievements:

1. Selected by DST (GoI) among 25 start-ups from the country to showcase the developed product in the Bio-Tech start-up Expo held in New Delhi from June, 2022.
2. Received NIDHI PRAYAS grant of DST, GoI. Received BIRAC's BIG grant.
3. One granted patent and one registered trademark.

C. Design and Thinking Lab

Faculty Coordinators: Prof. S.P. Kar and Prof. Sruti S. Singh

The Design Thinking Laboratory at School of Electronics Engineering, KIIT deemed to be university is dedicated lab for student research and innovation. Design Thinking Lab is more than just an innovation centre. It provides highly technical facilities - from assistance of big firms in the field of technology to inspirational leadership for developing skill sets. Projects and PoCs in the domain of emerging technology have been developed which make our students one of the most promising technocrats of the University. Regular visit from extremely qualified professionals from academia and industries and their experience and guidance make it just the right place to learn.

DTL Lab Activities:

1. Project and Concept development
2. Participate in Different national and International technical competitions such as Hackathons, Project Contest and Innovation Contests.
3. Filing of Patent.
4. Publishing of Technical papers at reputed journals and competitions.
5. Regular Industry Interaction and create solution for Industry.

D. ICT enabled teaching

Teachers use ICT tools inside the classroom to make their lecture more attractive and lucrative to the students. Each classroom has Big hi resolution LED screens with touch pen facilities. Hybrid classrooms has special audio-visual aids like speakers, microphone, spotcam etc. Teachers are provided with laptop and touchpens for academic purposes.

ICT INFRASTRUCTURE

555 numbers of PC are used in the School of Electronics

- 99 PC used by administrative Staff including the director and Dean.
- 456 PC are used in the All Computer Lab.
- DSP LAB (60 Users)
- VLSI LAB (68 Users)
- WCN LAB (40 Users)
- NI LAB (40 Users)
- Microprocessor LAB (20 Users)
- Simulation LAB (96 Users)
- Digital LAB-1 (20 Users)
- Digital LAB-2 (20 Users)
- Analog LAB (20 Users)
- Communication LAB (20 Users)

- Design Thinking (Texas Instrument) (22 Users)
- PROCESS CONTROL LAB (8 Users)
- MICROWAVE LAB (2 Users)E-Lib (5 Users)
- List of application server are used in Labs
- Tanner Server - (10 Users)
- Matlab-2017 Server -(50 Users)
- Matlab-2019 Server - (25 users)
- Matlab-2011 Server - (25 users)
- Matlab-2007 Server - (15 users)
- Cadence Server - (20 Users)
- Qualnet 5.1Server - (20 Users)
- TCAD Server - (7 Users)
- 33 PC are used in Classrooms.
- 35 Projector used in classrooms and Labs.
- A laptop has been provided to all individual faculties.
- Wi-Fi Signal with the internet is always available inside the Electronics academic campus.
- 125 CCTV Cameras are installed in academics for surveillance.
- 17 network switches are used for LAN and internet.
- 4 Hybrid Systems are installed in the classroom for the premium teaching process.
- 12 Panels are used in twelve classrooms with OPS (Open Pluggable Specification) system for a good teaching process.
- Cloud-based Individual mail id provided to all for official use
- Biometric devices are used for attendance.
- Live streaming of events on demand.
- Provides UPS supply to labs as PC users.
- 10GB shared bandwidth is used in KIIT.

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: 3 Points
- Participation >5 days Faculty/ Faculty development program: 5 points

Sl. No.	Name of the Faculty Member	Max 5 Per Faculty		
		2021-22(CAYm1)	2020-21 (CAYm2)	2019-20(CAYm3)
1	N.K Panda	5	5	5
2	Rishi Kumar Khanna	5	5	5
3	Sandeep Kumar Dash	5	5	5
4	Satish Kumar Gannamaneni	5	5	5
5	Shruti	5	5	5
6	Srinivas Ramavath	5	5	5
7	Sruti Suvadarsini Singh	5	5	5
8	Subir Kumar Maity	5	5	5
9	Susanta Kumar Badi	5	5	5
10	Swetaleena Sahoo	5	5	5
11	Abhik Gorai	5	5	5
12	Abu Nasar Ghazali	5	5	5
13	Amit Bakshi	5	5	5
14	Amit Kumar V. Jha	5	5	5

15	Amlan Datta	5	5	5
16	Anupam Samui	5	5	5
17	Arighna Deb	5	5	5
18	Arindam Basak	5	5	5
19	Ayaskanta Mishra	5	5	5
20	B. Shivalal Patro	5	5	5
21	Bhargav Appasani	5	5	5
22	Bishnu Prasad De	5	5	5
23	Bvv Subrahmanya Kumar	5	5	5
24	Ganaraj P S	5	5	5
25	Israj Ali	5	5	5
26	Jibendu Sekhar Roy	5	5	5
27	Jitendra Kumar Das	5	5	5
28	Kanan Bala Ray	5	5	5
29	Shweta Alpna	5	5	5
30	Udai Pratap Singh	5	5	5
31	Budhadeb Maity	5	5	
32	Jabir Hussain	5		
33	Joy Choudhary	5	5	5
34	Manisha Sahoo	5	5	5
35	Mayank Mishra	5	5	5
36	Ankit Kudeshia	5	5	5
37	Kumar Biswal	5	5	5
38	Lizina Khatua	5	5	5
39	Makireddi Ramana	5	5	5
40	Manoj Kumar Parida	5	5	5
41	Manoranjan Kumar	5	5	5
42	Nirmal Kumar Rout	5	5	5
43	Om Prakash Acharya	5	5	5
44	P. K. Samant	5	5	5
45	Parveen Malik	5	5	5
46	Rajiv Kumar Mishra	5	5	5
47	Ruby Mishra	5	5	5
48	Tushar Singh	5	5	5
49	Amrit Mukherjee			5
50	Anupama Senapati	5	5	5
51	Deepak Kumar Rout	5	5	5
52	Mamata Panigrahy	5	5	5
53	Sanhita Mishra	5	5	5
54	Sumit Dass	5	5	5
55	Rajendra Prasad	5	5	5
56	Pattepu Sunil	5	5	5
57	Pradipta Dutta	5	5	5
58	A.K Pati	5	5	5

59	Ujjwal Barman	5	5	5
60	Shivam Gautam	5	5	5
61	Rasmitha Lenka	5	5	5
62	Sananda Kumar	5	5	5
63	Subhashree Mishra	5	5	5
64	Suman Roy	5	5	5
65	Satya Narayan Mishra	5	5	5
66	Ansuman Patnaik	5	5	5
67	Bikash Kumar Behera	5	5	5
68	Debolina Deb	5	5	5
69	Deep Mukherjee	5	5	5
70	Manoj Kumar Beuria	5	5	5
71	Nageswara Rao Budipi	5	5	5
72	Sunil Kumar Mishra	5	5	5
73	Sushanta Kumar Mohapatra	5	5	5
74	Truptimayee Behera	5	5	5
75	Vikas Kumar Jha	5	5	5
76	Vimal Kumar Shrivastava	5	5	5
77	Vinod Jha	5	5	5
78	Wriddhi Bhowmick	5		5
79	S. K. Sabat	5	5	5
80	Sarita Nanda	5	5	5
81	Princy Sharma	5	5	5
82	Priya Das	5	5	5
83	Rahul Yadav	5	5	5
84	Ravada Satish Kumar	5	5	5
85	Sambit Prasad Kar	5	5	5
86	Snehalika	5	5	5
87	Soubhagya Ranjan Prusty	5	5	5
88	Sreyashi Roy		5	5
89	Suchismita Roy	5	5	5
90	Asish Kumar Sen	5	5	5
91	A. Pradhan	5	5	5
92	Arindam Deb	5	5	5
93	Jyoti Ranjan Panda	5	5	5
94	Manjusha Behera	5	5	5
95	Pravat Biswal	5	5	5
96	Sasmitha Pahadsingh	5	5	5
97	Straddhanjali Mohapatra	5	5	5
98	Srinibasa Padhy	5	5	5
99	Swati Swayamsiddha	5	5	5
100	Tapaswini Samant	5	5	5
101	Tejaswini Kar	5	5	5

102	Tirtha Majumder	5	5	5
103	Prasant Kumar Patra	5	5	5
104	Sudhakar Sahu	5	5	5
105	Sarita Samal	5	5	5
106	Srikanta Mohapatra	5	5	5
107	Subhrakanta Behera	5	5	5
108	Suvashish Kund	5	5	5
109	Umesh Chandra Samal	5	5	5
110	Arun Kumar Ray	5	5	5
111	Sudhansu Sekhar Singh	5	5	5
112	Suprava Patnaik	5	5	
Sum		555	545	545
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1		66	62	60
Assessment [$3*(Sum / 0.5RF)$]		50.45	52.74	54.5

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.

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)
 - Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)
- All relevant details shall be mentioned.

Research Summary:

- Current H index of school: 28
- Number of Sponsored Research Project Completed:15
- Number of Sponsored Research Project ongoing: 08
- No of Ph.D. students present in the school: 81
- No of Ph.D. students graduated/awarded from the school: 37
- Total no of citations: 11368
- Total No of IEEE & IET publications: 71

A. Number of publications in refereed/SCI Journals, Citations, Books/Book Chapters etc.

Year	No of Scopus indexed Journals	No of SCI Journals	No of conference proceedings	No of Book chapters
2016	79	45	31	2
2017	78	47	95	4
2018	104	64	93	3
2019	87	52	36	1
2020	89	64	75	8
2021	91	74	84	20
2022*	107	95	62	20

B. List of Patents Granted/published

Full Name of the Teacher	Full name of Co-inventors	Title of the patent	Patent filed application no	Date of application	Full name of the Organization to whom applied	Present Status (Filed/Published/Granted)	Published		Granted	
							Publication No	Publication date	Patent No	Date of Grant
Sraddhanjali Mohapatra	Subhrakanta Behera	Compact Multifrequency Antenna Using Single Layer and Single Port Excitation	201831022490A	15-07-2018	Indian Patent Govt. of India	Published	51/2019	20-12-2019		
Amrit Mukherjee	Lixia Yang, Ziwei Yan, Pratik Goswami, Lijuan Shi	Manager-Agent Position prediction method in Cooperative Communication of Wireless Sensor Network based on Distributed Artificial Intelligence	1910271615	Apr-19	Jiangsu University	Granted	4104402	Apr-19	ZL2019-1-0271615.0	20-11-2020
Sambit Prasad Kar	Swadheena patro, Srustijet mishra, Amiya Kumar Samant array	System and Method for Noise Suppression and voice Identification using Machine Learning	2.02131E+11	13-02-2021	Indian Patent Govt. of India	Published		13-05-2022		
Deep Mukherjee	G. Lloyds Raja, Palash	A System for Advanced Dead-		03-05-2021	Australian Govt.	Granted			2021102343	15-09-2021

	Kundu	Time Compensation-Based Series Cascade control Structure For Unstable Process								
B Shivlal Patro	Sanand Kumar, Moinak Maiti, Tirtha Majumder, Amrit Mukherjee, Proshiksha Mukherjee, Yian Qi, Sidheswar Routray, Sunil Pattepu	Ein System Zur Optimierung Ressourcenzuweisung Für Ein Sicheres Nxiot-Netzwerk Für Nicht-Terrestrielle Netzwerk anwendungen	2.02022E+11	25-01-2022	German Patent	Granted	2.02022E+11	23-02-2022	G06N3/20	23-02-2022
Lizina Khatua	Biswaranjan Acharya, Ipseeta Nanda, Sandhya Makkar, Haru Imam, Nikhat Raza Khan, Raju Barskar, Deepti Bala Mishra, Puja Das, Asik Rahaman Jamader	Smart Glove for Visully Impaired People	2021101986	16-04-2021	Australia n Govt.	Granted			2021101986	19-05-2021
Sananda Kumar	Moinak Maiti, Amrit	Ein System Für Eine	2.02021E+11	01-11-2021	German Patent	Granted			2.02021E+11	12-01-2022

	Mukherjee, Proshiksha Mukherjee, Yian Qi, Sidheswar Routray, Sunil Pattepu, B Shivlal Patro	Effiziente Cluster Head Formierung In Inter-Und Intra-Cluster Multi-Hop Kommunikationsmodellen In Einer Sensorclouda								
Lizina Khatua	Manas Ranjan Pradhan, Roli Raghuvanshi, Biswaranjan Acharya, Ipseeta Nanda, Monideepa Roy, Sujoy Datta	SECURE SYSTEM OF VACCINATION MANAGEMENT USING BLOCKCHAIN TECHNOLOGY	2.02022E+11	23-02-2022	German Patent	Published	2.02022E+11	02-05-2022		
Tejaswini Kar	Rudranayan Senapati, Pradeep Kumar Saha, Styaranjan Jena, Sraddhanjali Mohapatra, Subrata Behera and Soubhagya Ranjan Pursty	A System and a Method for Improving Current Profile in a Hybrid Energy Source	2021102775	23-05-2021	Australia n Govt.	Granted			2021102775	02-03-2022
Tirtha Majumder	Amrit Mukherjee, B. Shivlal Patro,	A System And Method Of Uniform	2021105613	16-08-2021	Australia n Govt.	Granted			2021105613	03-11-2021

	Sananda Kumar, Yian Qi	Distributed Wireless Sensor Nodes In Medical Tools For Edge/Cloud-Based Computations								
Rasmita Lenka	Manish Kumar, Uttam singh Bist, Vidya Nakhate , Reshma V. K, Pooja Singh, Stesa Elsie Pereira, Ihtiram Raza khan, T. C. Manjunath, Pavithra G.	Deep Learning Based System For Detection of COVID-19 Disease of Patient at Infection Risk	2.02131E+11	20-04-2021	Indian Patent Govt. of India	Published	2.02131E+11	14-05-2021		
Rasmita Lenka	Sanjaya Kumar Saranga i, Mrutyunjaya Panda, Manas Ranjan Chowdhury, Dakshya Prasad Pati, Akshaya Kumar Dash, Arabinda Nanda, Snehalata Agasty	Method of Coastal Communication and Response System During Tropical Cyclone Using Mobile Ad-hoc Network	2021104117	14-07-2021	Australian Govt.	Granted			2021104117	25-08-2021

Rasmita Lenka	Anitha Rajakumar P, Pritee Parwekar, pratyusa Mukherjee, Sanjaya Kumar Sarangi, Swarnalata Rath, Sana Tak, Riya Saini, Ritambhara, Nazrul Haq, Dhiraj Kapila, S. Balamurugan	Ensuring Nutritional Value of Food Products from Manufacturers to Consumers using Wireless Sensor Networks and Blockchain Technology	202141021547A	12-05-2021	Indian Patent Govt. of India	Published	202141021547A	11-06-2021		
Rasmita Lenka	S. Balamurugan, Sanjaya Kumar Sarangi, Subhadra Mishra, Sujogya Mishra, A. Manimuthu, Rekhak.K., R.S. Rashika, Raja Sarath Kumar Boddu Abhishek Agrawal, Sushma Jaiswal, Tarun Jaiswal, Pavithra G, T.C.M	Intelligent PREDICTION AND IMAGE GENERATION MODEL USING MACHINE LEARNING TO TRAIN SELF-DRIVING CARS	2.02141E+11	20-08-2021	Indian Patent Govt. of India	Published	2.02141E+11	27-08-2021		

	anjanath									
Ujjwol Barman	Siddhartha Sankar Ghosh, P. Paily Roy	Glutathione-S-Transferase-Nanoconjugate Based FET Sensor for Detection of Glutathione/Cancer Cell	201831031884A	25-08-2018	Indian Patent Govt. of India	Published	201831031884A	16-11-2018		
Sambit Prasad Kar	Jonathan Joshi, Swapnil Dey, Akshat Sharma, Prakhar Priyesh	System and Method to Securely Send Control Information over a Distributed Network	2.01931E+11	02-04-2019	Indian Patent Govt. of India	Published	2.01931E+11	09-10-2020		
Subhrakanta Behera	Debaprasad Barad	Circularly Polarised Antenna for Multi-frequency Operation	201731016236A	08-05-2017	Indian Patent Govt. of India	Published	201731016236A	09-11-2018		
Sambit Prasad Kar	Jonathan Joshi, Paramashivam Laxmanan Konar, Mandar Subhash Warde, Vinay Anilkumar Kadam, Swapnil Sunil Bawa, Mritunjay Ravi Iyer	System and Method for Interactive Three Dimensional Virtual Object Visualization	2.01921E+11	20-09-2019	Indian Patent Govt. of India	Published	13/2021	26-03-2021		

Manoj Kumar Parida	Vikas Kumar, Osman Mustafa Quddusi	Uni Cycle Vehicle	347083-001	31-07-2021	Indian Patent Govt. of India	Granted	114125		114125	25-05-2022
Shivam Gautam	Manik Jalhotra ,Lalit kumar Sahu,Shubhrata Gupta,	Fault Tolerant single phase multilevel inverter topology	2.01921E+11	09-01-2019	Indian Patent Govt. of India	Granted			409417	19-10-2022
Lizina Khatua	Datta, Sujoy,; Dutta, Subrata , Dr., Dr; Nanda, Ipseeta, Dr.,; Roy, Monideepa, Dr; Singh, Pushpanjali, Dr.,; Singh, Thipendra P, Dr.,Acharya, Biswaranjan	Portable device for making cocktails with voice control	20 2021 107 081.1	23-12-2021	German Patent	Published	DE 20 2021 107 081 U1	24-02-2022		
Rajendra Prasad	Udai P. Singh, Rajarshi Pal	High Performance Double Graded CIGS Solar Cells With MoS ₂ As Inter-layer Diffusion Limiter	202331000587	01-04-2023	Indian Patent Govt. of India	Published		01-06-2023		
Nirmal K. Rout	Prajesh Kumar De, Hritabrata Mandal, Mayukh Bhattacharya, Manas	Face Fence	202331000588	01-04-2023	Indian Patent Govt. of India	Published		01-06-2023		

	Mishra, Prerna Kumari									
Sarthak Shashi Prasad	S N Surajbhan, Swati Swayamsiddha, Sudhanu Sekhar Singh	Using Blockchain technology for Efficient Data Sharing & Privacy in Internet of Health Things (IoHT)	202331000590	01-04-2023	Indian Patent Govt. of India	Published		01-06-2023		
Arindam Basak	Srinibasa Padhy, U P. Singh	ZnO based sensors for room temperature gas sensing.	202331001896	01-09-2023	Indian Patent Govt. of India	Published		13/1/2023		
Srinibasa Padhy	Arindam Basak, U P. Singh	Performance enhancement of CZTS/CZTSe solar cell with novel device structure .	202331001898	01-09-2023	Indian Patent Govt. of India	Published		13/1/2023		
Tapaswini Samant	Trupti Mayee Behera, Dr. Subbhashree Mishra, Mr. Manas Kumar Rath, Dr. Tanmaya Swain	Smart Tea Cup with on demand heating feature	202331003151	01-09-2023	Indian Patent Govt. of India	Published		13/1/2023		
Sangram Keshari Khandai	Tanushri Jena	Design and implementation of single unit oral care product	202331003152	01-09-2023	Indian Patent Govt. of India	Published		13/1/2023		

		for easy transportation and travelling .								
Amitkumar V. Jha	Dr Bhargav Appasan i, Mr Ayon Bose	Vossist: A Voice Assistant for IoT and Windows based Applications	202331004364	23/01/2023	Indian Patent Govt. of India	Published		27/01/2023		
Abdul Khader	Sudhakar Sahu	Dual Band Circularly Polarized Monopole Antenna Inspired by Metasurface Reflector .	202331004365	23/01/2023	Indian Patent Govt. of India	Published		27/01/2023		
Swati Swayam siddha		An improved Q learning based multi objective bacterial foraging optimization algorithm for spectrum allocation in cognitive radio network and its FPGA implementation.	202331004367	23/01/2023	Indian Patent Govt. of India	Published		27/01/2023		
Dr. Sukanta Kumar Sabut	Prof. B. Nageswara Rao Mr. Sourajit Das	Design & development of drop foot stimulator to improve the walking in	202331006335	31/01/2023	Indian Patent Govt. of India	Published		02-03-2023		

		patients with brainstroke								
Sarita Nanda	Akshaya K Pati, Bharat Patidar	Smart Power Quality Event Detector based on a Low cost single board computer	202331006337	31/01/2023	Indian Patent Govt. of India	Published		02-03-2023		
Shaik Mohamed Ali,	Dr.Sudhansu Sekhar Singh, Dr. Hemant Kumar Sahu	Design and Development of Self Sustained IoT and BLE devices with Multiple Energy Scavenging Technologies for Smart city and Geo-fencing Applications	202331006338	31/01/2023	Indian Patent Govt. of India	Published		02-03-2023		

C. Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute

SI No	Roll Number	Reg. Number	Supervisor/Co-Supervisor	Year	Title of the Thesis
1	1381104	13375131083	Dr. Sudhansu Sekhar Singh	2018-19	Study and Analysis of Speech Under Psychological Stress Through DSP based Algorithms
2	1781115	17547757247	Dr.Jitendra Kumar Das	2018-19	Fault Diagnosis of Bearing And Gear of Rotating Machine Using Vibration and Acoustic

					Signals
3	1381110	1337573 1089	Dr. Sudhakar Sahu	2018- 19	Investigation of Hybrid Shaped Dielectric Electric Resonator Antenna
4	1381108	1337553 1087	Dr. Susanta Kumar Das	2018- 19	Growth of compound semiconductor nanoparticles of zinc orthotitanate for photonic applications
5	1381117	1337643 1096	Dr. Prasanna Kumar Sahu & Dr. Sudhansu Sekhar Singh	2019- 20	Performance Improvement by Optimal Resource Allocation and Congestion Control in Cognitive Radio Network
	1581074	1564364 4577	Dr. Jibendu Sekhar Roy	2019- 20	Development of E-learning and E-management Algorithms for Educational Organizations Using Statistical Signal Processing
6	1481052	1456353 7938	Dr. Arun Kumar Ray	2019- 20	Data communication in WSN-MCN convergence network: Performance analysis and QoS issues
7	1581069	1561554 4293	Dr. Jitendra Kumar Das Dr. Sarita Nanda	2019- 20	Development of Signal Processing Techniques for Genomics Sequence Analysis
8	1781053	1754405 7210	Dr. Tanmaya Swain Dr. Amlan Datta	2020- 21	Application of Multi-Criteria Decision Making Techniques for Clustering and Task Scheduling in Sensor Cloud Environment
9	1681129	1666375 1652	Dr. Udai P. Singh	2020- 21	Copper Zinc Tin Sulfide/Selenide($Cu_2ZnSnS_xSe_{1-x}$) Absorber Layer Formation and Effect of Surface Treatment and Annealing Parameters
10	1581072	1567494 4930	Dr. K. Parvathi	2020- 21	Development of Novel Algorithm for Braille Transliteration of Indian languages using image processing techniques
11	1581065	1561524 4290	Dr. Subhrakanta Behera	2020- 21	Investigations of Compact Microstrip Antennas for Modern Multi-Band Wireless Communication Devices
12	1381113	1337603 1092	Dr. Asimananda Khandual	2021- 22 (Awarded)	Improvisation in visual assessment of hazy image using dark channel prior and learning-based method
13	1681080	1660325 1002	Dr. Sushanta Kumar Mohapatra	2021- 22 (Awarded)	Design and Analysis of Energy-Efficient Algorithms for Cluster-Based Wireless Sensor Network
14	1581071	1567484 4929	Dr. Udai P. Singh	2021- 22 (Award)	Experimental & Theoretical Modeling of Kesterite Based Thin Film Absorber Layer

				ed)	
15	1881086	1859116 4688	Dr. Nirmal Kumar Rout	2021- 22 (Award ed)	Development of Efficient Algorithms for Impulsive Noise Suppression
16	1681048	1660095 0979	Dr.Sudhakar Sahu	2021- 22 (Award ed)	Design and Development of Metasurface based Antennas for next Generation Wireless Systems
17	1481049	1450603 7360	Dr A Datta	2021- 22 (Award ed)	Automatic Detection and Classification of Tomato Pest Using Image Processing in Agriculture"
18	1981065	1962277 2342	Dr. A. N. Ghazali	2021- 22 (Award ed)	Analysis of communication networks for synchrofasor applications in a smart grid cyber physical system
19	1881184	1859796 4756	Dr Sudhakar Sahu	2021- 22 (Award ed)	Design, Implementation and Investigation of Self-similar Antenna Configurations - The Fractal Electromagnetics"
20	1881156	1871026 5998	Dr S. K. Das	2021- 22 (Award ed)	Formation and Characterization of N2 Nanosecond Pulsed Laser Induced Black Silicon (LibSi) for Optoelectronics Application
21	1781128	1767385 8536	Dr Om Prakash Acharya	2021- 22 (Award ed)	Design and Analysis of Low- profile Planar MIMO Antennas for Wireless Communication Applications"

5.8.2. Sponsored Research (20)

CAY (2022-23)			
Project Title	Duration	Funding Agency	Amount (in Rs.)
A novel approach for enhancing the efficiency of CZTSe/CZTSSe based thin-film solar cells using the bilayer structure	2023-2026	DST-SERB	50,000,00
Fund for Improvement of S&T Infrastructure in Univeities and Higher Educational Institutions (FIST) Program	2021-2026	DST_ FIST	1,17,00,000
A novel approach for the efficiency enhancement of Copper Indium Gallium Diselenide (CIGS) based thin film solar cells.	2021-2024	DST_SERB (SUPRA)	45,76,260
Development and Implementation of Dynamic Spectrum Allocation Technique in Cognitive Radio Network for IoT Applications	2021-2024	DST-SERB	21,01,264
Development of IR Absorption Spectroscopy System Using Tapered PCF Based Supercontinuum Source.	2021-2024	SERB	8,25,000
Total			19252524

CAYm1 (2021-22)			
Project Title	Duration	Funding Agency	Amount (in Rs.)
Fund for Improvement of S&T Infrastructure in Univeities and Higher Educational Institutions (FIST) Program	5 Yrs	DST_ FIST	11,700,000
A novel approach for the efficiency enhancement of Copper Indium Gallium Diselenide (CIGS) based thin film solar cells	3 Yrs	DST_SERB (SUPRA)	4,576,260
Development and Implementation of Dynamic Spectrum Allocation Technique in Cognitive Radio Network for IoT Applications	3 Yrs	DST-SERB	2,101,264
Low cost van portable CT Scan with AI based diseases identification	3 Yrs	TDP/BTD	10,000,000
Total			28,377,524

CAYm2 (2020-21)			
Project Title	Duration	Funding Agency	Amount (in Rs.)
Design and Development of Dynamic phasor and Frequency estimator complying IEEE C37.118 standard	2019-23	DST-SERB	1830000
Mi Knee: A Chondroprotective Knee health Monitoring Orthosis for Osteoarthrtic Elderly	2019-21	DST Nidhi Prayash	600000
Charcoal based low cost smart sensor for agriculture	2018-20	DDA	53988
Process development of thin film solar cells from abundant and nontoxic materials	2018-21	DST-SERB	2070896
Total			4554884

5.8.3. Development activities (15)

A. Research Labs

1. VLSI and Embedded System

Scope:

The future scope of VLSI Design and Embedded System is very high as the world is full of electronics devices that consist of microcontrollers, microprocessors, etc and with these devices Embedded Systems plays a very important role in modern nation building and Industrial Automation. To design these ICs and its Application towards automation, engineers are required. The digital world consists of a lot of electronic devices such as automation devices, gadgets, etc it works on a chip or integrated circuit. Number of engineers are required in chip design. The specialized lab will help B.Tech/M.Tech./Ph.D. students to utilize the facility created and to learn advanced things in the domain.

Research Area:

The main focussed research areas in this domain are:

- Analog IC design
- Digital IC design
- Embedded System Design
- Semiconductor Device Modelling

Facilities Available:

The Research Lab is facilitated with following Software and hardware:

Software:

1. Xilinx Vivado for Digital Design and Embedded System Design using FPGA
2. Cadence University Bundle for Research for Analog and Digital IC Design
3. Synopsys Sentarus TCAD for Semiconductor Device Modelling and Simulation

2. Wireless Communication

Scope:

The primary objective of this research group is to study of wireless communication system and network architecture based on current 5G standard specifications that are cost effective, realizable and meet emerging needs for high data rate and reliable communications. The group is working on wide range of problems in the areas of wireless communication and networks with application to wireless and mobile, satellite, wireless sensor and optical networks. The important aspect of the groups' research is the development of algorithms and architectures to provide complete and partial solutions on current trends in wireless and mobile communication, 4G/5G standards and beyond. The groups' research is not confined to disciplinary boundaries by combining techniques from network optimization, network protocols, algorithms, designs and physical layer communications.

A well-equipped wireless communication lab is in the process of realization very soon and it will definitely support high quality research activity in this domain. 5G research specific Signal generators and Signal Analyzers with several supportive equipment will be the backbone for this research Lab.

Research Area:

The specific working area of group members are LTE and LTE advance supportive technologies like

1. MIMO-OFDM
2. Muti-Carrier Communication,

3. Cognitive Radio,
4. NOMA,
5. Wireless Sensor Networks,
6. Energy harvesting in networks,
7. Environment Friendly(green) communication,
8. Mobility Management etc.

Facilities Available

A well-equipped wireless communication lab is in the process of realization very soon and it will definitely support high quality research activity in this domain. 5G research specific Signal generators and Signal Analyzers with several supportive equipment will be the backbone for this research Lab.

3. RF & Microwave Engineering

Scope

The RF & Microwave research uniquely offers academic training and research expertise in RF & Microwave engineering ranging from microwave passive and active devices to Metamaterial devices. Major group objectives include Encouraging scientific exchanges amongst academia and industry within the field of RF, Microwave & providing research support and consultation for industry and other government organizations. Enhance the awareness of RF/Microwave Engineering to students outside of the field of RF/Microwave. It encourages scientific exchanges amongst academia and industry within the field of RF, Microwave & Antenna. In addition, it organizes seminars, workshops and conferences with an aim to promote research lifestyle to the student community and enhance the spirit of research by eminent Professors.

Research Area

Adaptive Signal Processing applied to Antenna Array Design and Wireless Communication, Metamaterial/Metasurface Inspired MIMO Antenna, Cognitive Radio Antenna, Dielectric Resonator Antenna, Soft Computing Techniques in Antenna, Printed UWB Antenna, Microwave Filters, Computational Electromagnetics, SIW based Horn & Leaky wave antenna, THz Metamaterial Sensor.

Facilities Available

1. ANSYS HFSS Software: Design, analysis and optimization of various microwave filters and Metamaterial and Metasurface inspired MIMO Antenna, Hybrid Fractal antenna, Cognitive Radio antenna.
2. Manual Microstrip Circuit Fabrication: Digital Ultra-Violet Lamp Exposure Unit, Spinner with Vacuum & Digital Control Unit, Etching machine, Shaker System, Digital Temperature Controller.
3. Spectrum analyzer: HAMEG made 1GHz Spectrum Analyzer, Scientec made 3GHz Spectrum analyzer.
4. S-band Micro Strip antenna trainer kits.
5. Two numbers of Transmission line trainer kits
6. X-band Microwave Test Benches with horn antennas, directional couplers, E-plane, H-plane, Hybrid E-H Tee.
7. 500MHz to 40 GHz Vector Network Analyzer for S-parameter(Scattering parameter) measurements.
8. 500 MHz to 40GHz Anechoic Chamber for Antenna radiation pattern and RCS measurement.

4. Advanced Control and Instrumentation

Scope

- To become a recognized research group in the country in area of control and Instrumentation.
- To establish a world class control and instrumentation research laboratory.
- To develop the intelligent control techniques for real-time applications such as renewable energy, electric vehicles, energy storage, etc.

Research Area

- Power Electronics: To design different power converter topologies to be used in renewable energy applications such as solar, wind and wave energy systems.
- Control and Instrumentation: To design plant emulators for solar, wind and wave energy systems

on small scale.

- To design intelligent controllers for renewable energy systems using plant emulators.
- To perform the extensive analysis on the efficacy of developed techniques.
- To model the Super-capacitors that could be integrated into the renewable energy systems for efficient energy storage.

5. Sensing and Computing

Scope

The Sensing & Computing lab focuses on both fundamental and applied aspects of signal, image and video processing. About 30 faculties and 40 Ph.D. students, also M.Tech and B.Tech students are working in these areas of research including machine learning and artificial intelligence. This research lab is interdisciplinary in nature focuses on signal processing, image analysis, video coding, machine learning and artificial intelligence. Faculty and students from electronics, computer and medical sciences streams are engaged in projects in a wide range of applications focusing in the field of power signals, agriculture, and healthcare technology.

Research Area

- Machine Learning/Artificial Intelligence
- Adaptive Signal Processing
- Biomedical Signal/Image Processing
- Image/Video Processing
- Speech Signal Processing

Facilities Available

The lab facilities includes High-end workstations, EEG system, data acquisition system, multispectral drone, DSO, and LabVIEW (cRIO, MyRIO).

6. Thin Film Photovoltaic Materials and Devices

Scope

The Sensing & Computing lab focuses on both fundamental and applied aspects of signal, image and video processing. About 30 faculties and 40 Ph.D. students, also M.Tech and B.Tech students are working in these areas of research including machine learning and artificial intelligence. This research lab is interdisciplinary in nature focuses on signal processing, image analysis, video coding, machine learning and artificial intelligence. Faculty and students from electronics, computer and medical sciences streams are engaged in projects in a wide range of applications focusing in the field of power signals, agriculture, and healthcare technology.

Research Area

- Machine Learning/Artificial Intelligence
- Adaptive Signal Processing
- Biomedical Signal/Image Processing
- Image/Video Processing
- Speech Signal Processing

Facilities Available

The lab facilities includes High-end workstations, EEG system, data acquisition system, multispectral drone, DSO, and LabVIEW (cRIO, MyRIO).

B. Centre of Excellence

a. NI Innovation Lab

Scope

The National Instrument Products enables researchers to implement multi-board data acquisition, its use for control different product for Industrial use, Health sector and other allied control systems. For the use of different NI products different applications engineers are required. This lab facilitates to train engineers for handle different products of NI and its use for different applications.

Research Area

The main focussed research areas in this domain are:

- Communication System Design
- Signal and Image processing for various application in industry and Health sector.
- Embedded System Design with IoT enable.

Facilities Available

1. MyRIO (based on Zynq 7000mprocessor) from NI for Digital System Design, Embedded System with IoT enable
2. MyDAQ for data acquisition and measurement from NI
3. NI-cRIO for Data acquisition, Measurement, Signal and Image processing
4. NI Elvis -II+ used for Circuit Design and measurement
5. NI PXIE System for Industrial Data Acquisition, Image Processing etc.

b. Microchip Lab

Scope

The objective of the CoE is to have a training center to train students and faculty members on Microchip's platforms. A product development center, for students and faculty members, to develop projects based on Microchip's platforms will be supported by Microchip for IP generation and monetization if found fit.

Research Area

Embedded Systems, IoT, Automotive Electronics, Augmented Reality, and Virtual Reality (AR/VR)

Facilities Available

1. Automotive OBD Development and Simulation Platform
2. EnblAR IoT and Augmented Reality Development and Hardware Platform
3. LoRa Sensor Network
4. BLE Indoor Tracking System & BLE Tags
5. PIC32 Chipkit WiFire Development Board
6. RuggedBoard Embedded Computer
7. ATSAMA5D3-XPLD - Development Board
8. PIC18 Development Board (Donation from Microchip Academic Program)
9. PIC18 Development Board
10. Sensor shields, NRF modules and ESP modules

C. Product Development

Dr Vikas Kumar, Assistant Professor, KIIT-SOEE have a start-up "Swayogya Rehab Solutions (SRS)" which is incubated at KIIT, Technology Business Incubator (TBI), BBSR. The start-up jointly founded by Dr Vikas and Dr Pooja has developed a chondro-protective knee health monitoring orthotic device "Mi-Knee". it is a non -invasive, non-drug and portable treatment regime for the treatment of persons suffering from knee osteoarthritis. The "Mi-Knee system" provides a low frequency pulsed electromagnetic field (PEMF) which stimulates the joint tissue to reduce the pain and other secondary

symptoms of osteoarthritis.

Key achievements:

1. Selected by DST (GoI) among 25 start-ups from the country to showcase the developed product in the Bio-Tech start-up Expo held in New Delhi from June, 2022.
2. Received NIDHI PRAYAS grant of DST, GoI. Received BIRAC's BIG grant.



5.8.4. Consultancy (from Industry) (20)

2022-23 (CAY)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Asset tracking and monitoring system	2022-2023	Sustainable Outreach and Universal Leadership Limited (SOUL)	60,00,000
Ambient air quality monitoring system	2021-2022	Sustainable Outreach and Universal Leadership Limited (SOUL)	21,00,000
Audio configuration of DSP systems	2021-2023	Sustainable Outreach and Universal Leadership Limited (SOUL)	30,00,000
			Total Amount(X): 1,11,00,000

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount (in Rupees)
Samsung Prism	6 Months	Samsung	1,55,400
Cyber security, python	15 Days	Brillica Services Pvt.	3,06,000
			Total Amount(X): 4,61,400

Cumulative (X+Y+Z) = 1,15,61,400

5.10 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 Deemed to be University 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

- 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- Assessment

Personal Information

Any changes in Personal Information from employee master record has to be done by HR cell

GENERAL INFORMATION

Name:

Employee ID:

Current Designation:

Contact number:

Official Email ID:

Alternate Email ID:

Correspondence Address:

Father's name:

Mother's name:

PAN card Number:

Aadhaar card number:

Upload scan copy of Aadhaar: (Uploaded File name):

Passport number:

Upload scan copy of Passport: (Uploaded File name):

Date of Birth: 19.06.1988

Date of joining the teaching profession:

Date of Joining in KIIT-DU: 17.10.2016

School under KIIT-DU: Quality Assurance Cell

Promotion from Assistant Professor to Associate Professor:

Promotion from Associate Professor to Professor:

Promotion from Professor to Senior Professor:

Publication ID details

* SCOPUS ID:

* ORCID:

Details of Academic qualification

Undergraduate study details:

Name of the Institute:

Name of the University:

Name of the Department:

Name of the Program:

Month of graduation:

Year of graduation:

Post graduate study details

Name of the Institute:

Name of the University:

Name of the Department:

Name of the Program:

Specialization (if any):

Month of post-graduation:

Year of post-graduation:

Area of research work conducted (if any):

Doctoral study details

Status of PhD:

Post doctoral details

Multiple entries are allowed

Post doctoral research pursued:

NET qualified:

GATE qualified:

Professional memberships

Multiple entries are allowed

Name of the Professional Body:

Membership number:

Professional membership history

Experience

Date of leaving (Study Leave):

Date of rejoining:

Research experience in months:

Industry experience in months:

Teaching experience in months:

Pedagogical Activities:-

Theory Course	Practical Course	Project/Thesis	Sessional Course	Course Coordinator - Theory	Course Coordinator - Practical	Course Coordinator - Sessional/Project
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Theory Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:	<input type="text"/>
* Level of the Course:	<input type="text"/>
* Course code:	<input type="text"/>
* Course name:	<input type="text"/>
* Semester:	<input type="text" value="Autumn"/>
* Course credits:	<input type="text" value="0.00000"/>
* Number of hours assigned for the course in the semester:	<input type="text" value="0.00"/>
* Total Number of contact hours in the entire semester:	<input type="text" value="0.00"/>
* Number of learning activities conducted:	<input type="text" value="000"/>
Upload a single PDF document comprising descriptions/questions for different learning activities, mapping with COs and their detailed evaluation schemes	<input type="text" value="Choose File No file chosen"/>
* Total number of students in this course under your tutelage:	<input type="text" value="00000"/>
* Number of students under your tutelage who have successfully completed the course:	<input type="text" value="00000"/>
* Number of hours spent in the entire evaluation process for this course:	<input type="text" value="0.00"/>
* Number of Question papers set:	<input type="text" value="0"/>
* Number of Question papers moderated:	<input type="text" value="0"/>
* Total hours of invigilation duty:	<input type="text" value="0.00"/>

Attainment of COs

CO1-Mention CO1 statement-Mention the attainment of CO1 in your group:	<input type="text"/>	<input type="text"/>
CO2-Mention CO2 statement-Mention the attainment of CO2 in your group:	<input type="text"/>	<input type="text"/>
CO3-Mention CO3 statement-Mention the attainment of CO3 in your group:	<input type="text"/>	<input type="text"/>
CO4-Mention CO4 statement-Mention the attainment of CO4 in your group:	<input type="text"/>	<input type="text"/>
CO5-Mention CO5 statement-Mention the attainment of CO5 in your group:	<input type="text"/>	<input type="text"/>
CO6-Mention CO6 statement-Mention the attainment of CO6 in your group:	<input type="text"/>	<input type="text"/>

Practical Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:	<input type="text"/>
* Level of the Course:	<input type="text"/>
* Course code:	<input type="text"/>
* Course name:	<input type="text"/>
* Semester:	<input type="text" value="Autumn"/>
* Course credits:	<input type="text" value="0.00000"/>
* Number of hours assigned for the course in the semester:	<input type="text" value="0.00"/>
* Total Number of contact hours in the entire semester:	<input type="text" value="0.00"/>
* Number of learning activities conducted:	<input type="text" value="000"/>
Upload a single PDF document comprising descriptions/questions for different learning activities, mapping with COs and their detailed evaluation schemes	<input type="text" value="Choose File No file chosen"/>
* Total number of students in this course under your tutelage:	<input type="text" value="00000"/>
* Number of students under your tutelage who have successfully completed the course:	<input type="text" value="00000"/>
* Number of hours spent in the entire evaluation process for this course:	<input type="text" value="0.00"/>

Attainment of COs

CO1-Mention CO1 statement-Mention the attainment of CO1 in your group:	<input type="text"/>	<input type="text"/>
CO2-Mention CO2 statement-Mention the attainment of CO2 in your group:	<input type="text"/>	<input type="text"/>
CO3-Mention CO3 statement-Mention the attainment of CO3 in your group:	<input type="text"/>	<input type="text"/>
CO4-Mention CO4 statement-Mention the attainment of CO4 in your group:	<input type="text"/>	<input type="text"/>
CO5-Mention CO5 statement-Mention the attainment of CO5 in your group:	<input type="text"/>	<input type="text"/>
CO6-Mention CO6 statement-Mention the attainment of CO6 in your group:	<input type="text"/>	<input type="text"/>

Project/Thesis Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:

* Project Type:

* Level of the Course:

* Course code:

* Course name:

* Semester:

* Course credits:

* Student roll numbers:

* Title of the Project:

* Abstract:

* Number of hours assigned for the course in the semester:

* Total Number of contact hours in the entire semester:

* Number of students who have successfully completed the course:

* Number of hours spent in the entire evaluation process for this course:

* List of publications:

* Impact /Outcome of the project/thesis:

Sessional Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:

* Level of the Course:

* Course code:

* Course name:

* Semester:

* Course credits:

* Number of hours assigned for the course in the semester:

* Total Number of contact hours in the entire semester:

Upload a single PDF document comprising descriptions/questions for different learning activities, mapping with COs and their detailed evaluation schemes:

* Total number of students in this course under your tutelage:

* Number of students who have successfully completed the course:

* Number of hours spent in the entire evaluation process for this course:

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 in your group:

Co-ordinator - Theory Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:
* Level of the Course:
* Course code:
* Course name:
* Semester:
* Course credits:

* Number of hours assigned for the course in the semester:
* Total Number of contact hours in the entire semester:

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 in your group:

Co-ordinator - Practical Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:
* Level of the Course:
* Course code:
* Course name:
* Semester:
* Course credits:

* Number of hours assigned for the course in the semester:
* Total Number of contact hours in the entire semester:

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 in your group:

Co-ordinator - Sessional / Project Course Details

Multiple entries are allowed :-

Do you want to enter theory course details:

* Academic year:
* Level of the Course:
* Course code:
* Course name:
* Semester:
* Course credits:


* Number of hours assigned for the course in the semester:
* Total Number of contact hours in the entire semester:

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 in your group:

Publication Details-Journals

Publication Details - Journals

 Multiple entries are allowed :-

Do you want to enter publication details:

* Whether referred/peer reviewed:

* Title of paper:

* Full name of the Journal:

* Publisher name:

* Volume number of the journal:

* Issue Number:

* Page No:

* Publication Month:

* Publication Year:

Whether it is a joint publication:

* ISSN/ISBN no:

* Digital Object Identifier:

* Indexing information

* Web of Science:

* SCOPUS:

* UGC approved:

* PUBMED:


Others:

* URL of the journal webpage:

Is it an impact factor journal publication:

Publication Details-Conferences

Publication Details - Conferences

 Multiple entries are allowed :-

Do you want to enter publication details:

* Whether referred/peer reviewed:

* Title of paper:

* Full name of the conference:

* Location:

* Publisher name:

Page No:

* Month the conference was held:

* Year the conference was held:

Whether it is a joint publication:

* ISSN/ISBN no:

* Digital Object Identifier:

* Indexing information

* Web of Science:

* SCOPUS:

* UGC approved:

PUBMED:

Others:

* URL of the conference webpage:

Publication Details-Books

Publication Details - Books

Multiple entries are allowed :-

Do you want to enter publication details:

* Title of the Book:

* Edition:

* Page No:

* Role of faculty:

* Type of Publication:

* Whether it is a joint publication:

* ISSN/ISBN number:

* Full name of the Publisher:

* Full address of the Publisher:

* Publisher category:

* Month of Publication:

* Year of Publication:

* Whether translational work in Indian/foreign Language:

Upload the first few pages of the book as a single PDF file clearly showing the name of the book, name of the author and their affiliation, name of the publisher, addition number and year of printing/publication.

Learning Pedagogy

ICT Mediated Teaching Learning Pedagogy, MOOCs and E-content

Multiple entries are allowed :-

Do you want to enter details:

* Category:

* Brief description:

* Organization for which it was developed:

* Platform used:

* Whether open access:

* Level:

* URL Link:

* Date since when the URL is active:

* Whether it is a joint effort:

Patents

Patents Policy Documentation

Multiple entries are allowed :-

Do you want to enter details:

* Patent Title:

* Patent Application number/ Patent number:

* Patent type:

* patent (National/International):

* Organization to whom applied:

* URL Link:

* Status:

* Whether it is a joint work:

* Licensee fee (in INR):

* Whether the technology has been transferred:

* Whether commercialized:

* Potential use of patent:

* Earning from the patent during this period(optional):

Upload document in support of patent: publish/Granted clearly indicating the title, innovators/contributors/owner and their affiliation and the name of the publisher/Granting authority

Multiple entries are allowed :-

Do you want to enter details:

* Title of the policy document:

* Organization to whom the document is submitted:

* Date of submission:

* Level:

Project/Consultancy

SPONSORED PROJECT/CONSULTANCY

Multiple entries are allowed :-

Do you want to enter details:

* Nature of the Project:

* Title of the project:

* Funding agency:

* Name of the scheme/project/endowment/chairs:

* Duration of project (in months):

* Status:

* Sanctioned date of project:

* Sanctioned letter number/Ref no:

* Date of Commencement:

* Grants received/mobilized in INR:

* Whether PI:

* Whether it is a joint work:

* Please upload supporting documents: No file chosen

Publication Statistics

Publication Statistics Details

Multiple entries are not allowed :-

* h-index of the faculty member as in Scopus:

* h-index of the faculty member (based on publications in last five years):

* Citations for the faculty member till date (as in Scopus):

* Citations for the faculty corresponding to publications in last five years (as in Scopus):

P.G Guidance

P.G Guidance:-

Multiple entries are allowed :-

Have any of the postgraduate /dual degree students whom you have provided guidance in thesis been awarded degree during this per:

* Student name:

* Roll number:

Role with student:

* Institute:

* Title of the thesis:

* Name of the Post-graduate program:

* Does student have publication:

* Upload Supporting Documents: No file chosen

Ph.d Guidance

Ph.D Guidance:-

Multiple entries are allowed :-

Have any of the doctoral students whom you have provided guidance in thesis been awarded degree during this period:

* Student name:

* Roll number:

* Role with student:

* Institute:

* Title of the thesis:

Scholar Publication:

Sponsored Project:

* Upload Supporting documents: No file chosen

Awards and Fellowships

Awards and Fellowships Details

Multiple entries are allowed -

Do you want to enter details:

* Full Name of the Award/Fellowship:

* Level:

* Received from:

* Full name of the awarding agency/body:

* Address of the awarding agency:

* Contact details of the awarding agency:

* Date of receiving the award:

* Upload Certificate/Supporting Document: |

Interaction with Outside World

Outreach Activity as Resource Person | Event Organised in the School | Faculty Improvement Program

Invited Lectures / Resource Person / Paper Presentation in Seminars / Conferences

Multiple entries are allowed -

Do you want to enter details:

* Role:

* Title of invited lecture/topic/paper presented:

* Title of the programme/conference/seminar:

* Full name of the organizer:

* Date of the event:

* Level:

* Location:

* Upload Certificate: |

* Please Upload Supporting Documents: |

Outreach Activity as Resource Person | Event Organised in the School | Faculty Improvement Program

Event Organised in the School

Multiple entries are allowed -

Do you want to enter details:

* Role:

* No. of Resource Person:

* Resource Person Detail:

* No. of Attendees:

* Title of the Event:

* Outcome of the Event:

* Level:

* Date of Event:

* Collaborating Agency if any / Technological Co-sponsored:

* Revenue Generated from Event:

* Please Upload Supporting Documents: |

Outreach Activity as Resource Person | Event Organised in the School | Faculty Improvement Program

Faculty development programs/ Certification programs or courses/ Workshops/ Online conferences/ Webinars attended

Multiple entries are allowed -

Do you want to enter details:

* Choose program type:

* Full name of the program/course/workshop/online conference/webinar:

* Choose Category:

* Organization/coordinator:

* Location:

* Start date:

* End date:

* Course Credits provided:

* Course exam conducted:

* Please upload supporting documents: |

Social Outreach

Social outreach and Community engagement activities Details

Multiple entries are allowed :-

Do you want to enter details:

* Title of the Activity:

* Type / Category of Activity:

* Name of the Society (under KIIT-DU through which activity has been conducted):

* Brief description of the social outreach and community engagement activity:

* Location of the activity (village, district, state):

* Date of Event:

* Organized by:

* Outcome of the Event:

* Upload Activity Photo: No file chosen

* Upload Appreciation Letter/Supporting Documents: No file chosen

Tutor Mentoring

Tutor Mentoring Activities Detail

Multiple entries are allowed :-

* Agenda of the meeting:

* Date of the meeting:

* Students present in the meeting:

* Number of one to one interactions held:

* Number of communications to the mentees:

* Number of communications made to parents:

* Mode of communication used:

* 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

Academic Administration Details

Multiple entries are allowed :-

Are you a member of any Central or School Committee/Council/Body:

* Committee/council/body of:

* Aspect / Domain:

* Specific name of the committee/Council/Body:

* Designation:

Role during this period(Contribution / Value Addition / Justification to the assigned job)Describe in 100 words:

* Have you developed any course material / open ended experiments / industry connect etc. during this period:

* Do you want to mention any significant contributions during this period:

* Please upload supporting documents: No file chosen

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 observations and experience

Project / Thesis on recent emerging multidisciplinary area	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Teaching Pedagogy	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Student Participation in Different learning activities	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Guest Lecture / Expert Talk by industry people	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Industry Visit	<input type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1

Innovative Teaching practices and the ICT platforms used (link)

Value addition, Institutional Building and Branding

Comments/Suggestion (if any)

5.11 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 professor etc.(9)
(Minimum 50 hours interaction in a year will result in 3 marks for that year; 3marks x 3years= 9marks)

KIIT Deemed to be University 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/emergitus faculty are given below for three assessment years.

2019-2020

Resource Person: Prof. Richard Morling

Designation: Professor Emeritus

Affiliation

Applied DSP and VLSI Research Group

University of Westminster

London, United Kingdom

Course Taught: VLSI Design (EC 3011)

Duration: 50 Hrs (Lecture, Question Paper Setting, Evaluation of Mid-Semester and End-Semester Answer copies, Assignments etc.)

2020-2021

Resource Person: Prof. Shiv Charan Lal Sharma

Designation: Professor Emeritus

Affiliation

Professor at Indian Institute of Technology, Kharagpur

Midnapore Sadar, West Bengal, India

Course Taught: Semiconductor Devices (EC 2005)

Duration: 50 Hrs (Lecture, Question Paper Setting, Evaluation of Mid-Semester and End-Semester Answer copies, Assignments etc.)

2021-2022

Resource Person: Prof. Shiv Charan Lal Sharma

Designation: Professor Emeritus

Affiliation

Professor at Indian Institute of Technology, Kharagpur

Midnapore Sadar, West Bengal, India

Course Taught: Semiconductor Devices (EC 2005)

Duration: 50 Hrs (Lecture, Question Paper Setting, Evaluation of Mid-Semester and End-Semester Answer copies, Assignments etc.)

2022-2023

Resource Person: Prof. D. Datta

Designation: Professor Emeritus

Affiliation

Professor at Indian Institute of Technology, Kharagpur

Midnapore Sadar, West Bengal, India

Course Taught: Optical Communication and Networking (EC 3029)

Duration: 50 Hrs (Lecture, Question Paper Setting, Evaluation of Mid-Semester and End-Semester Answer copies, Assignments etc.)

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

Sl. No.	Name of the Laboratory	No. students per setup (Batch size)	Name of the important equipment	Weekly utilization status (all courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	VLSI Lab	63	Spartan-3 FPGA Family – Xilinx, Spartan 3 interface Module, Spartan-II FPGA, CPLD Trainer Kit, FPGA Development Kit, Spartan-6 FPGA Family – Xilinx, Virtex-5 FPGA, Zynq-7000 All Programmable SoC, Vivado Design Suit – Xilinx (software), Cadence VLSI (Academic Bundle-software), Synopsys EDA Tools (software), Mentor Graphics, Xilinx ARTIX 7 FPGA, VmodBB: VHDC Breadboard, PMOD DA4, PMOD HB5 H-bridge driver with feedback input, DC Motor/Gearbox: 12V motor, PMOD STEP: Stepper Motor Driver, Stepper Motor, Pmod TMP2: Temperature Sensor, Pmod AD5:4-channel 4.8KHz 24 bit A/D converter, Pmod AD2: 4-channel 12 bit A/D converter,	24 Hrs.	Ms. Asmita Pattanai k	Teaching Associate	M. Tech (VLSI)

			<p>Pmod RF2:IEEE 802.15 RF Transceiver, Universal Development System for PIC, dsPIC, AVR, 8051, PSoC and ARM Microcontroller, 2 x 16 LCD, DS1820 Temperature, mikroBoard for ARM 64-pin, mikroBoard for AVR with ATmega128, Graphic LCD 128 x 64 Dots with touch panel, RTC2 Board with DS1307 Serial Real-Time Clock (RTC)& backup supply, Easy ADC 12 bit SPI base, 3-Axis Accelerometer SPI Board, Digital Humidity/temperature Sensor(SHT11) board, Easy Bluetooth Board, CAN communication board with SPI interface, Easy WiFi Board, 12-bit DAC board with SPI interface, Wooden Boxes for Micro kit, 3.5" inch TFT Touch Screen LCD ARM9 S3C2440 Core Board.</p>				
2	Microprocessors and Microcontrollers Lab	63	<p>8085 Microprocessor Kit, Power supply (8085 MP Kit), 8086 Microprocessor Kit, Power supply(8086 MP Kit), 8051 Microcontroller Kit, Power Supply (8051 kit), Lab Designer Kit, Development Kit kit with Bread Board, CRO, PC, X8085 (software), Link (software), Plink (software), 86drv (software), B30drvm (software).</p>	24 Hrs.	Ms. Sujata Behera	Technical Assistant	Diploma (Applied Electronics and Instrumentation)

3	Process Control Lab	63	Application Board PLC for Traffic light Control, Application Board PLC for Water level Control, Conveyor Belt Model, CPU, Digital Multimeter, DCS/Hybrid control Panel, Digital Current Clamp Meter, Data Logger, Digital Calibrator, HART Portable Communicator for Transmitter, Infrared Thermometer, Network Switch, Monitor, Programmable Logic Controller kit, Programmable Logic Controller Panel, Temperature Control Loop, UPS, Water Level Control Loop, Water Flow Control Loop.	24 Hrs.	Mr. Priyaranjan Padhi	Technical Assistant	Diploma (Applied Electronics and Instrumentation)
4	Basis Electronics Lab	63	CRO (Dual trace) 30 MHz, Universal Electronics Trainer, Analog Multimeter, Bench Meter 0-1.5 Volt DC, Lab Designer Kit, Regulated Power Supply, Summer / Subtractor Integrator & differentiator, Function Generator (3 MHz), Digital Multimeter, Bench Meter 0-10v DC, Bench Meter 0-100mA, Bench Meter 0-50mA, Bench Meter 0-200µA, Bench Meter 0-2v DC, Function Generator (3 MHz), Trainer Kit with Wish (imported) Bread Board.	24 Hrs.	Mr. Sibaram Majhi	Technical Assistant	Diploma (Electronics & Telecommunication)
5	Control and Instrumentation Lab	63	Temperature transducer trainer, Maxwell bridge,	24 Hrs	Mr. Chinmay Das	Technical Assistant	Diploma (Electronics & Telecommunication)

			Wheatstone bridge, Kelvin's double bridge trainer, D.C potentiometer, Qwen's bridge, optical transducer 0512491, single phase energy meter trainer, Frequency counter trainer, Dead weight tester, proximity sensor, Optical encoder, Piezo electric crystal, load cell, flow measurement, load cell trainer, bourdon tube pressure gauge, LVDT, inductive and capacitive trainer, CRO, Linear system simulator, PID controller trainer, MATLAB SOFTWARE			t	ation)
6	DSP Lab	63	Software: MATLAB, Code Composer Studio Hardware:TMS320C6713 Digital Signal Processing Kit , DM6437 Digital Video Development Platform With Camera module (TI DaVinci Module) , Ethernet Device Server Card (Link Research)	24 Hrs.	Ms. P. Mukherjee	Teaching Associate	PhD
7	Analog Electronic Circuits Lab	63	Digital & Analog multimeter, Function Generator, CRO((Dual trace) 30 MHz), Transistors & FET characteristics trainer, Bench Meter, Decade RCL box, Single Reg. Power Supply 0-30V, 2A, Two Stage RC Coupled Amplifier , Phase Shift Oscillator, Colpitt Oscillator, Hartley Oscillator, Darlington Differential Amplifier, Class AB Amplifier, Class B Amplifier , Push Pull Amplifier, FET amplifier, Variac, Breadboard Trainer kit	Digital & Linear Integrated Circuits (EC 2096)	Mr. Dibakar Panda	Technical Assistant	Diploma (Electronics & Telecommunication)

6.2. Laboratories maintenance and overall ambience (10)

All the laboratories are maintained with optimum temperature conditions with the aid of Air conditioners. Adequate space is allotted to each laboratory to accommodate the students. All the laboratories are facilitated with projectors and intranet facilities. Regular maintenance of the laboratory equipments are carried out using some protocols fixed in each laboratories for smooth conduct of experiments. Periodic replacement of the components and equipments are done to keep the laboratories upgraded to the latest technologies.

Overall ambience

In KIIT Deemed to be University Cleanliness and good academic ambience is the main focus since its inception. All laboratories are equipped with centralized AC (except labs where ventilation is a prime concern). Any laboratory has several equipments specific to its own domain. Each of such equipments is well maintained in the due course of time. Any deficit of equipment/ test kit is noted at the beginning of the semester and efforts are taken to procure the same. These items need to be purchased periodically as when need arises. Annually each laboratory is monitored for their assets and a status report is prepared. Some components which are obsolete are disposed from time to time. For better learning purpose the number of students allotted per set up is maximum four.

6.3. Safety measures in laboratories (10)

Sl. No.	Name of the Laboratory	Safety measures
1	Basic Electronics Lab	Safety instructions to the students: 1. Do not hold Electro Static Discharge (ESD) items like semiconductor devices (diodes, ICs) against the clothing. 2. Don't touch open wires unless you are sure that there is no voltage. 3. Never try to experiment with power from wall plug. 4. Use colored wires of suitable length. 5. Switch off the power supply when you make changes to the experiment even if the voltage is low. 6. After the lab session, switch off every power supply, disconnect and disintegrate the experimental setup. 7. Immediately report dangerous and exceptional cases to the lab instructor. 8. Never use damaged wires, instruments, or connectors
2	VLSI Lab	Safety instructions to the students: 1. Do not reboot or move any PC. 2. Do not load any unlicensed software on any computer. 3. Do not reconfigure the cabling equipment. 4. Do not leave a logged in PC unattended. 5. Games must not be played on any PC. 6. Do not use any external storage device to download any application files without any prior permission.
3	Microprocessor and Microcontroller Lab	Safety instructions to the students: 1. Do not reboot or move any kit. 2. Do not leave the kit unattended. 3. Do not use the kit without any prior permission.
4	Control and Instrumentation Lab	Safety instructions to the students: 1. Don't touch open wires unless you are sure that there is no voltage. 2. Never try to experiment with power from wall plug. 3. Use colored wires of suitable length. 4. Switch off the power supply when you make changes to the experiment even if the voltage is low. 5. After the lab session, switch off every power supply, disconnect and disintegrate the experimental setup. 6. Immediately report dangerous and exceptional cases to the lab instructor. 7. Never use damaged wires, instruments or connectors.
5	Process Control Lab	1 Loose cloths are not allowed in the laboratory. 2 Strict discipline should be maintained in the laboratory. Keep

		<p>your bags at the space provided for. 3 An ammeter should be connected using a thick wire whereas a voltmeter should be connected using a thin preferably a flexible wire for better accuracy. 4 Before connecting the circuit, arrange the apparatus as per circuit diagram, start connecting one after another. First, connect the series elements & thereafter parallel elements. 5 Once the connection is over, do not switch ON the supply unless the circuit is checked by demonstrator or concerned teacher. 6 Before switching ON the supply, the all rheostat should be initially kept at maximum position whereas dimmerstat or autotransformer should be kept at minimum position. 7 No overcrowding should be done at a single place. Be sufficiently away from the live exposed or rotating parts of the machines. 8 Any damage/loss to the machinery/equipment/meter is the sole responsibility of the group members performing the experiment. 9 Improper ratings of machines/ meters may result in danger. 10 Be aware of the power "SHUT OFF" switches. 11 Know what you are working with and how to use it safely. Before beginning any new experiment, find out about the potential hazards involved and the appropriate safety precautions to follow. 12 Clothing that unduly exposes limbs to splash or drop hazards should not be worn i.e. Shorts, halter tops, sandals and open-toed shoes. Loose clothing and long hair should be confined to avoid contact with hazardous materials, equipment, rotating machinery, or heat sources such as soldering irons or open flame.</p>
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Table B.6.3

6.4. Project laboratory (20)

A project lab has been allocated for students' project work. Regular laboratories are also available to them which are utilized for project work by the students when regular lab classes are not being held there. These regular laboratories have licensed softwares like Xilinx, MATLAB, LabVIEW etc., which are used for simulation purpose whereas hardware based projects are done either in the concerned hardware lab or in project room by issuing components from these labs. A chip store is also available in the department for issuing electronic s components to students doing project work in different semester of their study. Moreover, dedicated research laboratories like NI laboratory, thin photovoltaic laboratory, design thinking laboratory are being facilitated to the students so that they can carry out their projects.

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

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-Student performance in some courses have has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed the problem.

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

Sample 3- It was observed that for some courses involve group projects, 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 Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.50	2.65	Target is achieved. However, in some courses like Mathematics, Electronic Devices and Circuits, Signals and Networks needs strong foundations to correlate theoretical knowledge with engineering applications.

Action 1: Activity-based learning system implemented.
 Action 2: Advising the students to participate in technical events where their basic knowledge should be used in engineering-oriented problems.

PO 2 : Problem Analysis

PO 2	2.50	2.66	Target is achieved. Problem-solving and analysing skill developed through first and second-year courses help the students to identify and analyse real-life problems.
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Action 1: Students are advised to observe the problems in their surroundings (nature, Industries and daily life) and find a possible solution/approach to these problems.

PO 3: Design/development of Solutions

PO 3	2.50	2.58	Target is achieved. More emphasis can be given in design-oriented problem in the courses like Control Systems, VLSI Design and Electronic Devices & Circuits.
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Action 1: Assignments including design-based problems may be given.

PO 4: Conduct Investigations of Complex Problems

PO 4	2.50	2.65	Target is achieved. Little scope is there to use of research-based knowledge and research methods to arrive at valid conclusions in higher semester courses and projects.
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Action 1: Students are motivated to go through a systematic literature review before addressing the solution and developing the algorithms.

PO 5 : Modern Tool Usage

PO 5	2.50	2.70	Target is achieved. It is observed that upgradation of tools and resources are required to meet industry standards and research.
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Action 1: Modern labs are developed to demonstrate the use of modern tools like MATLAB, LabVIEW, TCAD, Cadence etc. to specify fulfilment of requirement in engineering applications in new industrial era.

PO 6 : The Engineer and Society

PO 6	2.50	2.70	Target is achieved. The courses address the needs of health, safety and social concerns regarding engineering practices in real life.
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Action 1: Conducted expert talks on different engineering emerging topics.
 Action 2: Community based elective course has been included in new curriculum.

PO 7 : Environment and Sustainability			
PO 7	2.50	2.73	Target is achieved. However, the global and environmental issues of awareness can be improved among students.
Action 1: Students are encouraged to indulge in the projects where global and environmental issues are concerned.			
PO 8 : Ethics			
PO 8	2.50	2.65	Target is achieved. Students have expertise in engineering knowledge but they are lagging behind in some courses like project. due to lack of ethical moral knowledge
Action1: Guidelines may be circulated for legal software usage, plagiarism-free document preparation, etc.			
PO 9 : Individual and Team Work			
PO 9	2.50	2.68	Target is achieved. Students are very much able to work individual as well as in team
Action 1: We inspire students to involve in some group-wise multidisciplinary projects.			
PO 10 : Communication			
PO 10	2.50	2.73	Target is achieved. More oral presentations/viva can be arranged.
Action 1: Soft skill training is imparted to students to enhance various aspects of communication or technical talks by group discussion, presentation, project Expo and new learning outcomes.			
PO 11 : Project Management and Finance			
PO 11	2.50	2.82	Target is achieved. Students are able demonstrate effectively time management and planning skills in executing their project in a cost-effective manner.
Action 1: The awareness created among the student regarding the management principles and managing projects			
PO 12 : Life-long Learning			
PO 12	2.50	2.68	Target is achieved. Many graduates from our institute are pursuing higher studies in reputed Universities in India and abroad.

Action 1: Using ICT facilities, such as PPTs, live demonstrations of current topics imparted using video lectures to habituate students for lifelong learning

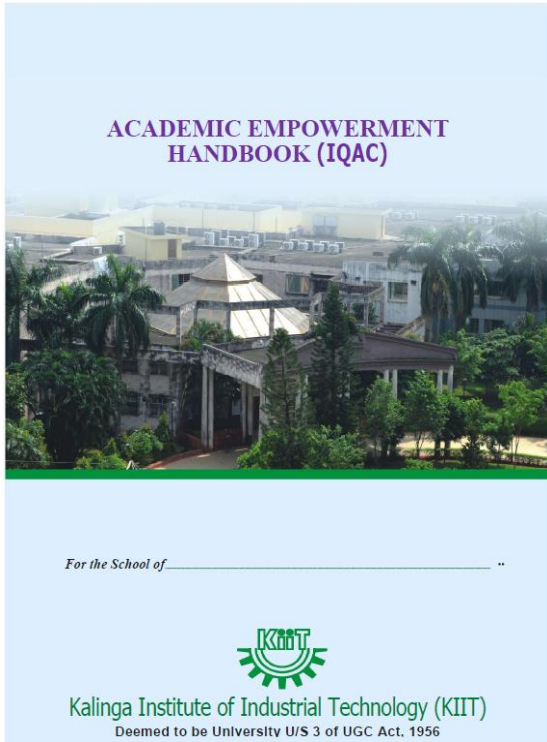
PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to design and develop hardware and software in emerging technology environments like cloud computing, embedded products and real-time systems			
PSO 1	2.50	2.66	Target achieved.
Action 1: In question paper, design-based problems are given. More design assignments and classroom activities have been introduced. Action 2: Open-ended experiments have been introduced.			
PSO 2 : Ability to work in multidisciplinary teams in small and large scale projects by utilizing modern software engineering tools and emerging technologies			
PSO 2	2.50	2.65	Target achieved.
Action 1: Dedicated project and research laboratories have been set up. Action 2: Different Technical Student clubs like KIIT Robotic Society (KRS), Design and Thinking Labs have been established to broaden the research scopes and activities.			
PSO 3 : Ability to develop complex products for the societal and engineering needs with skills to communicate effectively in group discussions and report writing.			
PSO 3	2.50	2.66	Target achieved.
Action 1: The students are encouraged for doing the Minor project and Capstone project in their Undergraduate study. Action 2: Different Industry interaction and visits have been arranged on a regular basis to understand the cutting-edge technologies.			

Table B.7.1

7.2. Academic Audit and actions taken thereof during the period of Assessment (15)

(Academic Audit system/process and its implementation in relation to Continuous Improvement)



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Academic Empowerment: An Overview

- Purpose**
- 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.
- Scope**
- 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 archival 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.
- Process**
- 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.

Academic Empowerment Flow

Session	ACTIVITY	RESPONSIBILITY
Session 1	Vision, Mission and Program Educational Objectives (PEO)	Dean/Director
	Student Outcome (SO) /Program Outcomes (PO)	Programme Head
	Curriculum Design	Programme Head
	Teaching-Learning and Assessment	Programme Head
	Video lecture for KIITX	Programme Head
	Continuous Improvement	Dean
Session 2	Faculty Contributions	Dean
	Students Project	Dean Research/ Faculty Research
	Research, Consultancy and Extension	Dean Research
Session 3	Infrastructure and Learning Resources	Dean/Director, Course Coordinator
	Quality Initiatives	QA Coordinators
	Students' Performance	Dy. COE
	Student Support and Progression	Associate Dean T&P FIC, SA
	Innovations and best practices	Dean/Director
	Future plan	Dean/Director
Session 4	Interaction with Faculty Members	Dean/Director
	Interaction with Research Scholars	Program Head
	Interaction with students (PG)	Program Head
	Interaction with students (UG)	Program Head
	Interaction with Technical Staff	Program Head
	Interaction with Students	FIC, Students' Affairs
	Exit Meeting	Dean/Director

<ul style="list-style-type: none"> Implementation of Choice Based Credit System and Elective course system Value added courses for imparting transferrable life skills offered in the last academic year (outside regular curriculum) Student Internships (Industry and Research internship) Field Visits conducted Skill development programs organized and conducted Programs for promoting Entrepreneurship Guest Lectures, Workshops and Seminars relevant to the Programs. 	<ul style="list-style-type: none"> containing: <ul style="list-style-type: none"> Course code Course name and mapping with Employability Entrepreneurship Skill Development Implementation of Choice Based Credit System and Elective course system Value added courses for imparting transferrable life skills offered in the last academic year (outside regular curriculum): List containing <ul style="list-style-type: none"> Course names Course outcomes Brief course contents Student Internships (Industry and Research internship): <ul style="list-style-type: none"> Details of student internships with evidences (certificate copies) Field Visits conducted <ul style="list-style-type: none"> Details of field visits with evidences Skill Development programs organized and conducted <ul style="list-style-type: none"> Details with evidences Promoting Entrepreneurship <ul style="list-style-type: none"> Details with evidences Academic Execution Calendar Guest Lectures, Workshops and Seminars relevant to the Programs. <ul style="list-style-type: none"> Details with evidences
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Focal Area 1: Curriculum Design & Development

CRITERIA	CHECKLIST
<ul style="list-style-type: none"> Program Educational Objectives (PEOs) Program Outcomes (POs) and Program Specific Outcomes (PSOs) Course curriculum and Course Outcomes (COs) Alignment between the Outcomes, PEOs and Mission of the School and the Institution. Different Pathways for the Program New Programs introduced in the last academic year New courses (Theory / Practical/ Lab) introduced in the last academic year Syllabus revisions carried out in the last academic year Changes in Experiments and Practical carried out in the last academic year. Courses with focus on Employability, Entrepreneurship, Skill development 	<ul style="list-style-type: none"> For each Program offered by the School: <ul style="list-style-type: none"> Web link to the vision and mission of the School Web link to the PEOs of all programs Web link to the POs and PSO of all programs Program Curriculum Book containing: <ul style="list-style-type: none"> PEOs POs and PSOs Course Structure Prerequisite flowchart Course Outcomes and Syllabi Text books and Reference Books Minutes of Meetings of Curriculum Review Committee and Board of Studies documentations corresponding to: <ul style="list-style-type: none"> New Programs introduced in the last academic year New courses (Theory / Practical/ Lab) introduced in the last academic year Syllabus revisions carried out in the last academic year Changes in experiments and practical carried out in the last academic year. Courses with focus on Employability, Entrepreneurship, Skill development: List

Focal Area 2: Teaching & Learning Process

CRITERIA	CHECKLIST
<ul style="list-style-type: none"> Course files, module descriptors/course descriptors for different courses; the course outcomes and their alignment with the course content and program outcomes. Learning activities for different courses, their relevance and alignment with the course outcomes. Mid and end semester question papers for different courses and their alignment with the course outcomes. UG and PG and research labs, sufficiency of equipments, experiments conducted, learning objectives, open ended tasks and research outcome. Undergraduate project reports and individual contribution reports with respect to their quality, idea and innovations. Postgraduate theses with respect to their quality, idea and 	<ul style="list-style-type: none"> Theory Course File: <ul style="list-style-type: none"> Course Plan or Module Descriptor Framework of learning activities mapped to the outcomes, their time line, assessment scheme, model solutions, samples of student work and overall student performance analysis. Mid semester and end semester question papers, mapping with the outcomes; evaluation schemes; model solutions, overall student performance analysis. Overall grade distribution Course outcome attainment calculation, Course Analysis Report, minutes of meeting by the course committee, their observations and future course delivery plan. Mapping of the course outcomes with the program outcomes Attainment of Program outcomes addressed by the course. Practical Course file: <ul style="list-style-type: none"> Course Plan or Module Descriptor Framework of learning activities, experiments, tasks mapped to the

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<ul style="list-style-type: none"> innovation. Modality of online course delivery Attainment of Course Outcomes, Course Analysis Report and action plan by course committees Identification of any gaps related to the pedagogy and the action taken to bridge the gaps. Initiatives taken for fast and slow learners. Online courses (KIITX) 	<ul style="list-style-type: none"> outcomes, their time line, assessment scheme, model solutions, samples of student work and overall student performance analysis. Description of open ended tasks. End semester evaluation tasks, mapping with the outcomes; evaluation schemes; model solutions, overall student performance analysis. Overall grade distribution Course outcome attainment calculation, Course Analysis Report, minutes of meeting by the course committee, their observations and future course delivery plan Mapping of the course outcomes with the program outcomes Attainment of Program outcomes addressed by the course. For each UG, PG and Research Lab: <ul style="list-style-type: none"> Brief Description Lab Snapshots/Videos Academic and research activities carried out Equipments and facilities available Safety protocols UG projects and PG thesis: <ul style="list-style-type: none"> List of student groups and projects carried out. Sample UG project reports, individual contribution reports, similarity index
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<ul style="list-style-type: none"> Extent of national collaboration for academics and research. Extent of international collaboration for academics and research. Research and Innovation labs, their objectives and outcomes. Centre of Excellence, their objectives and outcomes. Conferences, Seminars, Guest lectures and webinar organised by the School. Involvement of the faculty members in FDPs/STTPs/refreshers courses. Orientation programs. e-content and MOOCs developed from School/ Department. Recognition, awards received by faculty members. Quality Initiatives Innovation and Best practices Future Plan 	<ul style="list-style-type: none"> Number of publications indexed in SCOPUS Number of publications indexed in Web of Science Number of publications with co-authors from other institutes/labs/industry in India. Number of publications with co-authors from other institutes/labs/industry outside India. Average impact factor of the publications Averages cite score of the publications. Total citation of papers published between 2015-till date. Average h-index of the School E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPEEL/NMEICT/any other Government initiatives and institutional Learning Management System (LMS) etc. Research funds sanctioned and received from various agencies, industry and other organizations: <ul style="list-style-type: none"> Project title Funding agency Sanction date Period of Project Total amount Amount received in the academic year Indicate whether the funding agency is from India or abroad
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	<ul style="list-style-type: none"> report. <ul style="list-style-type: none"> Sample PG thesis Publications resulting from project work /thesis. Snapshots/videos for online classes (KIITX) Snapshots/videos of online practical sessions. Evidence on effective use of Online Learning Management system, course documentation, grading and student feedback/interaction. Schedule, notification regarding Remedial and Bridge classes conducted
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Focal Area 3: Research, Innovations and Best Practices

CRITERIA	CHECKLIST
<ul style="list-style-type: none"> Research publications and books by faculty members and students. Average impact factor and cite score of the publications. H-index of the Department/School. Extent of interdisciplinary and collaborative research. Sponsored research projects and funds received from fund agency. Consultancies and Industrial collaborations. Patents granted, published and commercialized. 	<ul style="list-style-type: none"> Thrust Research areas of the School Research groups in the School. Areas of interdisciplinary and collaborative research List of publications in IEEE Reference format separately for conferences, Journals, Books, Book Chapters Provide the research publication statistics of the School/Department during the academic year: <ul style="list-style-type: none"> Number of conference proceedings Number of journals Number of Books, Book Chapters. Number of Review Articles

ACADEMIC EMPOWERMENT HAND BOOK 2022
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	<ul style="list-style-type: none"> Indicate whether other Universities/Institutes/Research Labs are in collaboration Consultancies <ul style="list-style-type: none"> Details of the consultancy activity Consulting agency Consultancy period Revenue generated Indicate whether national or international collaboration is involved. Patents: Provide the details with respect to the following (name, faculty members and date) <ul style="list-style-type: none"> Patents filed Patents granted Patents published and commercialized Revenue generated. Research and Innovation Labs: <ul style="list-style-type: none"> Name of the lab Lab objectives Research equipments Research output <ul style="list-style-type: none"> Publications Ph.D scholars working in the lab Ph.D scholars received award Products developed. Associated sponsored projects Consultancy activities (if any) and revenue generated. Research collaborations at national and international level Association with the industry (if
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	<p>any)</p> <ul style="list-style-type: none"> • Centers of Excellence <ul style="list-style-type: none"> ○ Name of the Center ○ Objectives ○ Collaborating Industry ○ Date of establishment ○ Major equipments ○ Utilization ○ Research output <ul style="list-style-type: none"> ▪ Publications ▪ PG and PhD scholars working in the lab ▪ PG and PhD scholars received award ▪ Innovative Products developed. ▪ Training programs conducted ▪ Consultancy activities (if any) ▪ Revenue generated ▪ Collaborations at national and international level ▪ Associated project works. • Number of continuing PhD scholars. • Number of PhD scholars awarded degree during the academic year. • Conferences, webinars, workshops, organized by the School or Faculty member: <ul style="list-style-type: none"> ○ Conference title ○ Sponsors ○ Dates ○ Number of participants
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	<ul style="list-style-type: none"> ○ Number of participants outside the Institute ○ Number of speakers ○ Number of speakers from outside the institute but from India ○ Number of speakers from outside the country ○ • Faculty and Executive Development Programs conducted by the School <ul style="list-style-type: none"> ○ Title of the Program ○ Resource persons ○ Period ○ Number of participants ○ Number of participants from outside the University. • Details of faculty members attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, FDP during the year (in different capacities i.e. participant and resource persons). • Faculty members involved in review boards of different journals and technical review committee of international conferences. • Awards and recognitions received by the faculty members. • Quality Improvements Programs conducted for the stake holders. • Best Practices Adopted
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Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

Annual Book Closing and Audit Process FY 2018-19

1 message

Ashok Kumar Dalpat <ashok.dalpat@kiit.ac.in>

Mon, Mar 18, 2019 at 10:16 PM

To: Dean Civil <dean.civil@kiit.ac.in>, dean.csit@kiit.ac.in, dean.electrical@kiit.ac.in, "Dr.Arun Ray" <dean_electronics@kiit.ac.in>, dean.sme@kiit.ac.in, Dean SAS <deansas@kiit.ac.in>, Quality Assurance <qacell@kiit.ac.in>, dean@ksom.ac.in, "Prof.Anil Bajpai" <director@ksom.ac.in>, director.sa@kiit.ac.in, Manas Mukul <manas.mukul@gmail.com>, director law <director.lks@kiit.ac.in>, srath@kiit.ac.in, jayanti.nath@kiit.ac.in, pk chamupati <pkc@kiit.ac.in>, Chairman PGP <chairman.pgp@kiit.ac.in>, bijayalaxmi@kiit.ac.in, ssingh@kiit.ac.in, placement@kiit.ac.in, srikant@kiit.ac.in, bkjena@kiit.ac.in, dillipkujena@kiit.ac.in, Nachiketa Tarasia <headeam.kiit@kiit.ac.in>, director_admission@kiit.ac.in, webmasterkiit@kiit.ac.in, Snehasish Rout <snehasish_rout@kiit.ac.in>, sradhanjali@kiit.ac.in, Manoranjan Pradhan <mpradhan@kiit.ac.in>, chittapanda@kiit.ac.in, Sibananda Mishra <sibananda@kiit.ac.in>, insurancekiit@gmail.com, Gaganendu Dash <sports.kiit@gmail.com>, shyam.behura@kids.ac.in, satyasundar@kiit.ac.in, makhan@kiit.ac.in, snnayak@kiit.ac.in

Cc: Hemanta Kumar Nayak <hknyak@kiit.ac.in>, Registrar <registrar@kiit.ac.in>, vc <vc@kiit.ac.in>, snanda@kiit.ac.in, CP Bahadur <cpbahadur_77@kiit.ac.in>, office_founder@kiit.ac.in, trilochan@kiit.ac.in, ssamirpanda@kiit.ac.in, dwivedy.mr@gmail.com, Sudhir Charan Satapathy <sudhir.satapathy@kiit.ac.in>

Dear All,

We are approaching the closure of the Financial Year 2018-19, accordingly the books of accounts need to be finalized and get the same audited as per the statutory time lines.

In order to ensure the above, we request all the stakeholders to provide the details as per format attached with the below timelines:

1. All vendor bills/invoices, vouchers, employee reimbursement claims, etc. with supporting (e.g. PO/WO, SRN, GRN, etc.) with approvals to be submitted to finance department by **05th April'19 (Friday)**. It shall include,

Works done/services availed in relation to Admin, IT, Housekeeping, Mess, Manpower, Repair & Maintenance, Engineering, Security, outsourced services including manpower, Project payments, Submission of Utilization certificate on completion of the projects and others.

All capex like Building construction, Machinery, Project, IT related equipments etc.

2. In case of any material used or services taken but PO will be issued after Mar'19, the same shall be communicated to finance by **05th April'19 (Friday)**.

Since, this is annual closure of books, we need to get the vendor invoices for booking and audit. After closure of the books for the financial year 2018-19, the invoices pertaining to on or before Mar'19 will not be accepted.

Submission of the bills/invoices, claims, etc. as per the above mentioned timelines with requisite supporting documents will ensure the smooth closure of books and audit process.

Please cascade the mail to relevant teams, if anyone is missed out. Feel free to contact the undersigned, in case of any clarification required.

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Academic audit team report for School of Electronics Engineering

Assessment Indicators	Remarks
Parameter: Curriculum Design and development, Academic flexibility and Curriculum enrichment	
1. Alignment of Curriculum design with institutional goals	1. Properly aligned
2. Existence of well defined process for design and development of curriculum	2. Process is there
3. Relevance of curricula to the local/national/regional/global development	3. The curriculum is relevant but it should be reviewed time to time based on the improvement prevalent globally.
4. Orientation towards employability, entrepreneurship, higher studies and overall development of student	4. Orientation is fair. However, scope exists for further improvement.
5. Development of global competencies	5. Awareness is there and developing.
6. Encouragement towards skill development/ need based programs	6. Improving
7. Effectiveness of consultation with stakeholders from inside and outside the University	7. Conducted the stakeholders for "Curriculum Design and Development, Academic flexibility and Curriculum enrichment".
8. Adequacy of number of programs	8. Quite Adequate.
9. Adequacy of electives on offer	9. Exists in small scale but needs extension based on the improvement prevalent globally.
10. Availability of new and combination based programs to meet needs of students and society	10. Not yet
11. Existence of inter institutional credit transfer process	11. Exist but scope is there for further extension.
12. Regularity in curriculum revision and update	12. Regular
13. Availability of courses in emerging thrust area / interdisciplinary area	13. Available but may be extended based on global technical requirement.
14. Presence of cross cutting issues such as Gender, Environment, ICT, Human rights in the curriculum	14. Partially present. Needs incorporation of more issues.
15. Presence of components to address communication skills and soft skill in the curriculum	15. Exists
16. Existence of mechanism to monitor and evaluate the programs	16. Exists
17. Existence of structured feedback system from students and other stakeholders	17. Exists but needs improvements.

Pranav 06/07/2018
(Subir Kumar Sarkar)

ACADEMIC AUDIT HANDBOOK
KIIT UNIVERSITY

Assessment Indicators	Remarks
18. Availability of planned and organized teaching schedule	18. Well defined teaching schedule
19. Use of latest technologies by faculty for effective teaching	19. Very much available and also in use.
20. Capability of learning environment to promote critical thinking, creativity and scientific temper	20. Yes
21. Student centric teaching-learning process	21. Yes
22. Use of participative learning	22. Yes
23. Emphasis on experiential learning and problem solving methodology	23. Exists but scope exist for further improvement.
24. Effectiveness of tutor mentor system	24. Yes
25. Existence of faculty recognition system for innovative and creative contributions	25. Yes exists
26. Usage of students feedback to improve teaching learning process	26. Scope exists for further improvement
27. Integration of projects and field experiences in learning process	27. Yes exists, but needs improvement
28. Availability of adequate well qualified faculty	28. Well qualified faculty members are there but students-Faculty ratio needs improvement.
29. Initiatives for Staff development	29. In house training exists
30. Initiatives for guest teachers	30. Yes
31. Initiatives for faculty exchange programs	31. Yes
32. Existence of well defined evaluation process	32. Yes
33. Adherence to academic calendar	33. Yes
34. Timely declaration of results	34. Yes
35. Transparency and security in the evaluation system	35. Yes
36. Effective use of technology in examination management	36. Yes
37. Existence of effective grievance redressal system	37. Yes
38. Defined and articulated graduate attributes	38. Yes
39. Presence of well defined learning outcomes	39. Well defined learning outcome present.
40. Existence of mechanism to assess outcome attainment	40. Mechanism exists and followed.

B. Man 06/07/2018
(Subir Kumar Sarkar)

ACADEMIC AUDIT HANDBOOK
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Assessment Indicators	Remarks
Parameter: R&D	
1. Existence of research facilities	1. R&D facilities exist in small scale. Needs major attention. R&D lab is to be established along with some sophisticated equipments, software, kits, tools to support cutting edge research.
2. Effectiveness of practices to promote research culture	2. Department needs intensive attention for faculty motivation towards R&D.
3. Encouragement to faculty members for collaborative research	3. Initiatives needed both at individual faculty level and departmental level for collaborative research.
4. Existence of well defined process to promote research	4. Research direction required for proper research orientation.
5. System to recognize faculty guiding research	5. Exists
6. Practices to invite eminent researchers	6. Exists
7. Existence of Financial provision to support students' projects	7. Yes
8. Existence of process to help faculty file patents	8. Yes
9. Availability of recognized research centers	9. Currently no such Center Exists.
10. Availability of projects sponsored by research agencies / industries	10. A few and needs faculty motivation towards funded project proposal submission.
11. Significant involvement of faculty in research publications	11. Inadequate
12. Existence of process to practice ethical conduct in research	12. Not yet established
13. Existence of research awards	13. Yes but may be reviewed
14. Significant numbers of doctoral research scholars	14. Only a few and needs improvement.
15. Significant acclamation for research as evident by matrices such as citation index, impact factor, h-index, SNIP, SJR etc	15. Not Significant.
16. Extent of consultancy activities to industries	16. Needs attention
17. Existence of well defined policy for structured consultancy	17. Not yet
18. Cognizance of Social responsibility	18. -

Bruno
06/07/2018
(C. Subir Kumar Sarkar)

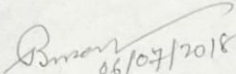
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Assessment Indicators	Remarks
19. Evidence of Industry-institute interaction in development of curriculum / facilities	19. Evidence are there in support of industry-institute interaction
20. Significant number of MOUs	20. Several MoUs exist
21. Existence of mechanism to review impact of collaborations	21. Not yet

B. Kumar
06/07/2018
(*B. Kumar Sarkar*)

Infrastructure and Learning Resources	
1. Adequacy of facilities for teaching-learning	1. Sufficient
2. Adequacy of facilities for computer education	2. Sufficient
3. Periodic augmentation of facilities	3. Exists but scope of improvement is there
4. Provision of facilities for sports and extra-curricular activities	4. Exists
5. Existence of facilities to provide health services	5. Yes, exists
6. Existence of facilities for physically challenged students	6. Yes, exists
7. Adequacy of library facilities	7. Exists but scope of improvement is there
8. Effective and user friendly library operations	8. Exists but scope of improvement is there
9. Regularity in augmentation of library resources	9. Exists but scope of improvement is there
10. Regularity in upgrade of IT facilities	10. Exists but needs improvement so far as global development is concerned.
11. Adequacy of ICT facilities for faculty use	11. Exists but needs improvement so far as global development is concerned.
12. General ambience of the Institution	12. Very good academic ambience exists

AUDIT TEAM MEMBERS


06/07/2018
Prof. Subir Kumar Sarkar

ACADEMIC AUDIT HANDBOOK
KIIT UNIVERSITY

Academic Audit team report

Parameter	Suggestions for improvement
Curriculum	<ol style="list-style-type: none"> 1. Curriculum is properly aligned 2. The curriculum is relevant but it should be reviewed time to time based on the improvement prevalent globally. 3. Orientation is fair. However, scope exists for further improvement.
Learning Outcomes	<ol style="list-style-type: none"> 1. More emphasis may be given on problem solving and experimental learning.
Teaching Learning Process	<ol style="list-style-type: none"> 1. Industrial interaction may be incorporated to strengthen the integration of project and field experience in learning.
Assessment process	<ol style="list-style-type: none"> 1. Well defined process exists.
Resources	<ol style="list-style-type: none"> 1. Resources exist but based on the improvement prevalent globally, major expansion is required
Research and Development	<ol style="list-style-type: none"> 1. R&D facilities exist in small scale. Needs major attention. R&D lab is to be established along with some sophisticated equipments, software, kits and tools to support cutting edge research. 2. Departmental needs intensive attention for faculty motivation towards R&D. 3. Initiatives needed both at individual faculty level and departmental level for collaborative research. 4. Research culture practice among the faculty member requires prime attention 5. Faculty members should be encouraged / motivated for consultancy, more number of sponsored research project, reputed (SCI, SCOPUS, UGC recommended) journal publication and collaborative research. 6. At the Departmental level, a well-defined process is to be established for practicing ethical conduct in research.
Project report/ Thesis	<ol style="list-style-type: none"> 1. Student projects are both on core areas and also on software areas. Some projects and reports are technically very good.

B. S. S.
06/07/2018
(Subir Kumar Sarkar)

ACADEMIC AUDIT HANDBOOK
KIIT UNIVERSITY

Faculty development Programs and initiatives	1. Faculty members organized/ attended several FDPs at KIIT and also at other institutes as participants as well as resource persons.
General remarks: <ol style="list-style-type: none">1. Well maintained campus having green and clean environment along with excellent academic environment.2. Both faculty members and students have good gender ratio.3. Well qualified faculty and staff members.4. Academic results, placement, higher studies are good for students as per available records.5. However intensive cares are required to improve the R&D activities, funded projects, consultancy areas.6. Faculty should be motivated for the cited activities as in point 5.7. A separate R&D lab needs to be developed with immediate effect.	
AUDIT TEAM MEMBERS	

S. Kumar
06/07/2018
(Subir Kumar Sarkar)

Academic Audit (2019-20)

Expert Team

Sl. No.	Name	Designation & Affiliation
1	Dr. P. Thirusakthimurugan	Professor, HoD in EI, PEC
2	Dr. Ritesh Kumar Keshri	Asst. Prof., VNIT Nagpur
3	Dr. Aurobinda Routray	Professor, IIT Kharagpur

Academic Audit Report-2020

Criteria-wise report drafting responsibilities

(Documentation & file providing committees)

As per discussions in meeting held with Dean and QA Cell coordinators of School of Electronics Engineering the following committees has been constituted for drafting the record

CRITERION 1. PROGRAM DETAILS AND CURRICULUM

Criteria	Programs	Drafting Committee
1.1 Provide the University Vision and Mission Statements. Provide the School Vision and Mission Statements.	B.Tech ETC	Prof. A Mishra (QA Cell)
1.2 State the Program Educational Objectives (PEOs) for the Program.		
1.3 Provide the alignment of the PEOs with University mission statements with justifications.		
1.4 Provide the alignment of the PEOs with School mission statements with justifications.	B.Tech E&E	Prof. Sruti S Singh (QA Cell)
1.5 Provide the Program Outcomes (POs) and Program/Specialization Outcomes (PSOs/SSOs).		
1.6 Provide the alignment between the Program Educational Objectives and the Program /Program Specific/Specialization Specific Outcomes.	B.Tech (E&I)	Prof. S Padhy (QA Cell)
1.7 Provide the Course Structure for the Program with credits, credit hours, and alignments with different PEOs and POs/PSOs/SSOs.	M.Tech –ETC (CSE) M.Tech – ETC (VLSI & ES)	Prof. K Parvathi Prof. J.K Das
1.8 Provide the Course Structure for the Program with credits, credit hours, and alignments with different PEOs and POs/PSOs/SSOs.		
1.9 Provide the following components of the curriculum in terms of Percentage of total number of credits in the curriculum, total number of credit hours and total credits.		
1.9.1 Program Core		
1.9.2 Program Electives		
1.9.3 Open Electives		
1.9.4 Minor projects		
1.9.5 Internships/Seminars		
1.9.6 Major Project		
1.9.7 Minors		
1.9.8 Honors		
1.9.9 Any other(specify)		
	<u>Program Heads</u>	
	B.Tech (ETC) Prof. A Deb	
	B.Tech (E&E) Prof. S Sahu	
	B.Tech (E&I) & (E&CS) Prof. S. S Singh	
	M.Tech (ETC) (CSE)- Prof. K Parvathi	
	M.Tech (ETC) (VLSI)- Prof. J.K Das	

1.10 Provide the different course outcomes and their alignment with the POs/PSOs/SSOs.	QA Cell
1.11 Details of any syllabus revision carried out during the academic year. 1.12 Implementation of the Choice based Credit system.	<u>Program Heads</u> B.Tech (ETC) Prof. A Deb B.Tech (E&E) Prof. S Sahu B.Tech (E&I) & (E&CS) Prof. S. S Singh M.Tech (ETC) (CSE)- Prof. K Parvathi M.Tech (ETC) (VLSI)- Prof. J.K Das
1.13 Provide the Employability Enhancement Courses in the Curriculum and programs conducted separately as Institute/School Initiatives through Training and Placement Cell. 1.14 Provide the details of courses which are offered in collaboration/association with industry.	Prof. A Basak (T&P)
1.15 Provide the courses of national, international relevance in the curriculum, those of interdisciplinary nature and in emerging areas of knowledge. 1.16 Provide the details (Course Code, Course name and Credits) for courses in the curriculum which address the different Sustainable Development Goals (SDG1 to SDG17). Provide mapping table of each SDG with the relevant courses in the curriculum, programs and webinars conducted by the School. (Program Heads)	<u>Program Heads</u> B.Tech (ETC) Prof. A Deb B.Tech (E&E) Prof. S Sahu B.Tech (E&I) & (E&CS) Prof. S. S Singh M.Tech (ETC) (CSE)- Prof. K Parvathi M.Tech (ETC) (VLSI)- Prof. J.K Das Program Heads in consultation with Dean
1.17 Initiatives taken by the School to conduct skill development/need based programs. 1.18 Initiatives taken by the School to promote entrepreneurship among the students.	Prof N Rout (Elab, Robotics, etc) Prof. A Basak (T&P) Prof Sarita Nanda
1.19 Provide the details (Course Code, Course name and Credits) for projects/thesis in the curriculum. 1.20 Examples of student projects addressing the different Program Outcomes/Program Specific Outcomes/Specialization Specific Outcomes. 1.21 Examples of student projects that may lead to 'Make in India' Initiative. 1.22 Examples of student projects that address the different Sustainable Development Goals (SGD1 to SDG17).	<u>B.Tech (ETC)</u> Prof. J.R Panda (Project FIC Team) <u>B.Tech (E&E)</u> Prof. M Ramana (Project FIC Team) <u>B.Tech (E&I)</u> Prof. T Majumder (Project FIC Team) <u>M.Tech (CSE)</u> Prof. K Parvathi <u>M.Tech (VLSI)</u> Prof. J.K Das

CRITERION 2: TEACHING AND LEARNING PROCESS

Criteria	Drafting Committee
<p>2.1 Provide the course descriptors/module Descriptors for each course (Theory, labs and sessionals) in the curriculum and modality for online course delivery.</p> <p>2.2 Sample course files (at least one for each semester) containing:</p> <p>2.2.1 <i>Module descriptor containing Course Outcome, lesson plan, textbook / reference book, details of learning activities and evaluation scheme.</i></p> <p>2.2.2 <i>Question papers of mid semester and end semester and their mapping with Course Outcomes.</i></p> <p>2.2.3 <i>Learning activities and their mapping with Course Outcomes.</i></p> <p>2.2.4 <i>Evaluation schemes for learning activities, mid semester and end semester.</i></p> <p>2.2.5 <i>Samples of evaluated students work corresponding to learning activities.</i></p>	<p style="text-align: center;">Coordinator Prof. A Datta, (Asso. Dean)</p> <p style="text-align: center;">Theory Course File & Lab Course File</p>
<p>2.3 Provide the assessment and evaluation process for the courses in the curriculum (theory courses, practical courses, projects, seminars, internships, trainings and others).</p>	<p style="text-align: center;">Exam Section Prof. P Datta, Dy. COE & Prof. A Pattanaik ACOE</p> <p style="text-align: center;">&</p> <p style="text-align: center;">Project FIC, Course Coordinator, Lab FIC, T&P</p>
<p>2.4 Use of technology, online platforms, open source and licensed software, ICT tools and Learning Management Systems in effective content delivery and teaching (with respect to all types of courses-theory, sessional and practical).</p>	<p style="text-align: center;">Class online view link Dean Office</p>
<p>2.5 Details of all laboratories in the program:</p> <p>2.5.1 <i>Name of the laboratory.</i></p> <p>2.5.2 <i>Objectives.</i></p> <p>2.5.3 <i>List of experiments corresponding to the program.</i></p> <p>2.5.4 <i>Open ended experiments</i></p> <p>2.5.5 <i>Mapping of the experiments with course outcomes and program outcomes.</i></p> <p>2.5.6 <i>Major equipments, Research facilities and equipments, software platforms.</i></p> <p>2.5.7 <i>Samples of submitted student work.</i></p> <p>2.5.8 <i>Student projects/thesis ensuing from the lab.</i></p> <p>2.5.9 <i>Research papers ensuing from the lab.</i></p>	<p style="text-align: center;">Coordinator Prof. A Datta, (Asso. Dean)</p> <p style="text-align: center;">(LAB FICs)</p>
<p>2.6 Quality of student projects in terms of :</p> <p>2.6.1 <i>Emerging areas of knowledge and research aspects</i></p> <p>2.6.2 <i>Innovative content</i></p> <p>2.6.3 <i>Identification of concepts and engineering tools to arrive at design solution(s) for the identified engineering problem</i></p> <p>2.6.4 <i>Feasibility</i></p> <p>2.6.5 <i>Interpretation of results of experiments conducted on the designed solution(s) to arrive at valid conclusions</i></p> <p>2.6.6 <i>Sustainable development goals, socio-economic issues and environmental</i></p>	<p style="text-align: center;"><u>B.Tech (ETC)</u> Prof. J.R Panda (Project FIC Team)</p> <p style="text-align: center;"><u>B.Tech (E&E)</u> Prof. M Ramana (Project FIC Team)</p> <p style="text-align: center;"><u>B.Tech (E&I)</u> Prof. T Majumder (Project FIC Team)</p>

<p><i>considerations</i></p> <p>2.6.7 Identify the community that shall benefit through the solution to the identified engineering problem and also demonstrate concern for environment</p> <p>2.6.8 Documents to be provided:</p> <p>2.6.8.1 Samples of student project reports/thesis.</p> <p>2.6.8.2 Associated individual contribution reports to be provided (for group projects).</p> <p>2.6.8.3 Similarity Index</p> <p>2.6.8.4 Research outcomes in terms of publications.</p> <p>2.6.8.5 Patent filing if any.</p>	<p>M.Tech (CSE) Prof. K Parvathi M.Tech (VLSI) Prof. J.K Das</p>
<p>2.7 Initiatives for internship, industrial visits and trainings. (T&P)</p>	<p>Prof. A Basak (T&P)</p>
<p>2.8 Identification of any gaps related to the pedagogy and the action taken to bridge the gaps. (Dean/ Asso. Dean/ Program Heads)</p> <p>2.9 Provide the initiatives taken for fast and slow learners. (Dean/ Asso. Dean/ Program Heads)</p>	<p>Program Heads</p> <p>B.Tech (ETC) Prof. A Deb B.Tech (E&E) Prof. S Sahu B.Tech (E&I) & (E&CS) Prof. S. S Singh M.Tech (ETC) (CSE)- Prof. K Parvathi</p> <p>M.Tech (ETC) (VLSI)- Prof. J.K Das</p> <p>Program Heads in consultation with Dean</p>

CRITERION 3: RESEARCH, SPONSORED PROJECT, CONSULTANCY AND FACULTY DEVELOPMENT

Criteria	Drafting Committee
<p>3.1 Thrust Research areas of the School</p> <p>3.2 Research groups in the School.</p> <p>3.3 Areas of interdisciplinary and collaborative research</p> <p>3.4 Provide the list of publications in IEEE Reference format separately for conferences and journals.</p> <p>3.5 Provide the research publication statistics of the School/Department during the academic year:</p> <p>3.5.1 Number of conference proceedings</p> <p>3.5.2 Number of journals</p> <p>3.5.3 Number of journals indexed in SCOPUS</p> <p>3.5.4 Number of journals indexed in Web of Science</p> <p>3.5.5 Number of publications with co-authors from other institutes/labs/industry in India.</p> <p>3.5.6 Number of publications with co-authors from other institutes/labs/industry outside India.</p> <p>3.5.7 Average impact factor of the publications</p> <p>3.5.8 Averages cite score of the publications.</p>	<p align="center">Quality Assurance Cell</p> <p align="center">In consultation with Prof. U.P Singh, Dean (Research)</p>

3.5.9 *Total citation of papers published between 2015-till date.*

3.5.10 *Average h-index of the School*

3.6 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPEEL/ NMEICT/any other Government initiatives and institutional (Learning Management System (LMS) etc.

3.7 Provide list of books authored or chapters edited by the faculty members.

3.8 Research funds sanctioned and received from various agencies, industry and other organizations:

3.8.1 *Project title*

3.8.2 *Funding agency*

3.8.3 *Sanction date*

3.8.4 *Period of Project*

3.8.5 *Total amount*

3.8.6 *Amount received in the academic year*

3.8.7 *Indicate whether the funding agency is from India or abroad*

3.8.8 *Indicate whether other Universities/Institutes/Research Labs are in collaboration*

3.9 Consultancies

3.9.1 *Details of the consultancy activity*

3.9.2 *Consulting agency*

3.9.3 *Consultancy period*

3.9.4 *Revenue generated*

3.9.5 *Indicate whether national or international collaboration is involved.*

3.10 Patents: Provide the details with respect to the following (name, faculty members and date)

3.10.1 *Patents filed*

3.10.2 *Patents granted*

3.10.3 *Patents published and commercialized*

3.10.4 *Revenue generated.*

3.11 Research and Innovation Labs:

3.11.1 *Name of the lab*

3.11.2 *Lab objectives*

3.11.3 *Research equipments*

3.11.4 *Research output*

3.11.4.1 *Publications*

3.11.4.2 *PhD scholars working in the lab*

3.11.4.3 *PhD scholars received award*

3.11.4.4 *Products developed.*

3.11.4.5 *Associated sponsored projects*

3.11.4.6 *Consultancy activities (if any) and revenue generated.*

3.11.4.7 *Research collaborations at national and international level*

3.11.4.8 *Association with the industry (if any)*

<p>3.12 Centers of Excellence</p> <p>3.12.1 <i>Name of the Center</i></p> <p>3.12.2 <i>Objectives</i></p> <p>3.12.3 <i>Collaborating Industry</i></p> <p>3.12.4 <i>Date of establishment</i></p> <p>3.12.5 <i>Major equipments</i></p> <p>3.12.6 <i>Utilization</i></p> <p>3.12.7 <i>Research output</i></p> <p>3.12.7.1 <i>Publications</i></p> <p>3.12.7.2 <i>PG and PhD scholars working in the lab</i></p> <p>3.12.7.3 <i>PG and PhD scholars received award</i></p> <p>3.12.7.4 <i>Innovative Products developed.</i></p> <p>3.12.7.5 <i>Training programs conducted</i></p> <p>3.12.7.6 <i>Consultancy activities (if any)</i></p> <p>3.12.7.7 <i>Revenue generated</i></p> <p>3.12.7.8 <i>Collaborations at national and international level</i></p> <p>3.12.7.9 <i>Associated project works.</i></p> <p>3.13 <i>Number of continuing PhD scholars.</i></p> <p>3.14 <i>Number of PhD scholars awarded degree during the academic year. Conferences and seminars conducted/organized by the School:</i></p> <p>3.14.1 <i>Conference title</i></p> <p>3.14.2 <i>Sponsors</i></p> <p>3.14.3 <i>Dates</i></p> <p>3.14.4 <i>Number of participants</i></p> <p>3.14.5 <i>Number of participants outside the Institute</i></p> <p>3.14.6 <i>Number of speakers</i></p> <p>3.14.7 <i>Number of speakers from outside the institute but from India</i></p> <p>3.14.8 <i>Number of speakers from outside the country</i></p> <p>3.15 <i>Faculty and Executive Development Programs conducted by the School</i></p> <p>3.15.1 <i>Title of the Program</i></p> <p>3.15.2 <i>Resource persons</i></p> <p>3.15.3 <i>Period</i></p> <p>3.15.4 <i>Number of participants</i></p> <p>3.15.5 <i>Number of participants from outside the University.</i></p> <p>3.16 <i>Details of faculty members attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, FDP during the year (in different capacities i.e. participant and resource persons).</i></p> <p>3.17 <i>Faculty members involved in review boards of different journals and technical review committee of international conferences.</i></p> <p>3.18 <i>Awards and recognitions received by the faculty members.</i></p>	
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Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

Action for Annual Quality Assurance Report (AQAR) for 2021

Director, Quality Assurance Cell <director.qac@kiit.ac.in> Thu, Oct 29, 2020 at 10:40 PM
 To: Dean SAS <deansas@kiit.ac.in>, Dean Humanities <dean.humanities@kiit.ac.in>, dean ksom <dean@ksom.ac.in>, Dean Civil <dean.civil@kiit.ac.in>, Dean School Of Mechanical Engineering <dean.sme@kiit.ac.in>, Dean Electrical Engineering <dean.electrical@kiit.ac.in>, Director KSOM <director@ksom.ac.in>, Director School of Commerce & Economics <director.commerce@kiit.ac.in>, director law <director.kls@kiit.ac.in>, dean.electronics@kiit.ac.in, principal@kims.ac.in, principal Nursing college <principal.con@kims.ac.in>, PRINCIPAL KIDS <principal.kids@kims.ac.in>, Mrutyunjay Suar <msbiotek@yahoo.com>, "Dr. Saranjit Singh" <ssingh@kiit.ac.in>, COE KIIT <coe@kiit.ac.in>, Samaresh Mishra <smishrafcs@kiit.ac.in>, "Dr. Arun Kumar Ray" <akrayfet@kiit.ac.in>, Ashok Sahoo <asahoo@kiit.ac.in>, Biswabandita Kar <bbkarfch@kiit.ac.in>, Director CAAS <director.caas@kiit.ac.in>, finance.officer@kiit.ac.in, pkm.admission@kiit.ac.in, HR CELL KIIT <hrcell@kiit.ac.in>, shyam.behura@kids.ac.in, sports@kiit.ac.in, Dr Srikant Das <srikant@kiit.ac.in>
 Cc: jyotiprakash.padhifce@kiit.ac.in, purnasahafce@kiit.ac.in, Prasant Kumar Pattnaik <patnaikprasantfcs@kiit.ac.in>, siddharth routaray <siddharthfcs@kiit.ac.in>, Ayaskanta Mishra <ayaskanta.mishrafet@kiit.ac.in>, srutisingh fet <srutisinghfet@kiit.ac.in>, srinibas padhy <srinibas.padhyfet@kiit.ac.in>, "Dr. Satyaranjan Jena" <snjenafel@kiit.ac.in>, Rudra Dash <rudra.dashfel@kiit.ac.in>, Mrutyunjaya Jena <mrutyunjaya.jenafme@kiit.ac.in>, Ajay Behera <ajay.beherafme@kiit.ac.in>, sambit.mohapatrafme@kiit.ac.in, "Dr. Rabindra K. Barik" <rabindra.mnnit@gmail.com>, cmisra@yahoo.com, "Prof. Damodar Jena" <damodarjena@ksom.ac.in>, aksar@ksom.ac.in, Rahul Modak <rahul.modak@kiitbiotech.ac.in>, sukanya.dasguptafar@kiit.ac.in, jaibagchi@kls.ac.in, sksamal01@yahoo.co.in, himanshu.pradhanfph@kiit.ac.in, kailash.das@kids.ac.in, debasish.mishra@kids.ac.in, niharinayaktiku241@gmail.com, Registrar KIIT <registrar@kiit.ac.in>, soumya.dash@kiit.ac.in, Pro Vice Chancellor KIIT <provicechancellor@kiit.ac.in>, "Vice Chancellor, KIIT University" <vc@kiit.ac.in>, "Prof. Arindam Deb" <adebfet@kiit.ac.in>, Tapas Roy <tapas.royfel@kiit.ac.in>, preeti.priyambada <preeti.priyambada@kiit.ac.in>, Asish Sen <ak_sen@kiit.ac.in>

Dear Sir/Madam,

We hope you and your family members are well during unprecedented pandemic COVID-19.

Like every year, the Annual Quality Assurance Report (AQAR) will be uploaded on the website of the NAAC in the month of July by the University. It is suggested to submit the half-yearly AQAR reports mentioning action taken by each School/Unit /Section in the prescribed format as highlighted in the attached file to the respective faculty coordinator of the QA Cell of the School.

It will be updated continuously by QA Cell centrally to make AQAR-21 in presentable form and outcome-based. Further, we will have a scope for improvement if required by

University Authorities. AQAR is required for the one Academic Session i.e. 30th June to 1st July.

Revised AQAR Guidelines for Academic Session 20-21, list of existing Faculty Coordinators of QA cell (School Level), and AQAR Data template are enclosed for kind reference. Further, it is requested to go through AQAR Guidelines available on the NAAC website also.

Schedule for submission of AQAR data to QA Cell (School Level)

Phase I	July, August, September, October, November, and December 2020	By 5 PM on 10 th January
Phase II	January, February, March, April, May, and June 2021	By 5 PM on 10 th July

Expecting response in the return mail.

Regards

Prof.(Dr.) Chinmoy Kumar Panigrahi, SMIEEE
 Director, Quality Assurance Cell,
 Professor, School of Electrical Engineering,



Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

SCHEDULE FOR ACADEMIC AUDIT

Director, Quality Assurance Cell <director.qac@kiit.ac.in> Sat, Nov 7, 2020 at 6:37 PM
 To: jyotiprakash.padhifce@kiit.ac.in, purnasahafce@kiit.ac.in, Prasant Kumar Pattnaik <patnaikprasantfcs@kiit.ac.in>, siddharth routaray <siddharthfcs@kiit.ac.in>, Ayaskanta Mishra <ayaskanta.mishrafet@kiit.ac.in>, srutisingh fet <srutisinghfet@kiit.ac.in>, srinibas padhy <srinibas.padhyfet@kiit.ac.in>, "Dr. Satyaranjan Jena" <snjenafel@kiit.ac.in>, Rudra Dash <rudra.dashfel@kiit.ac.in>, Mrutyunjaya Jena <mrutyunjaya.jenafme@kiit.ac.in>, Ajay Behera <ajay.beherafme@kiit.ac.in>, sambit.mohapatrafme@kiit.ac.in, "Dr. Rabindra K. Barik" <rabindra.mnnit@gmail.com>, cmisra@yahoo.com, "Prof. Damodar Jena" <damodarjena@ksom.ac.in>, aksar@ksom.ac.in, Rahul Modak <rahul.modak@kiitbiotech.ac.in>, sukanya.dasguptafar@kiit.ac.in, jaibagchi@kls.ac.in, sksamal@kiit.ac.in, tapan.bastiafch@kiit.ac.in, himanshu.pradhanfph@kiit.ac.in, kailash.das@kids.ac.in, debasish.mishra@kids.ac.in, niharinayaktiku241@gmail.com, Director School of Computer Engineering <director.csit@kiit.ac.in>, directorksp@kiit.ac.in, Dean SAS <deansas@kiit.ac.in>, Dean Humanities <dean.humanities@kiit.ac.in>, dean ksom <dean@ksom.ac.in>, Dean Civil <dean.civil@kiit.ac.in>, Dean School Of Mechanical Engineering <dean.sme@kiit.ac.in>, Dean Electrical Engineering <dean.electrical@kiit.ac.in>, Director KSOM <director@ksom.ac.in>, Director School of Commerce & Economics <director.commerce@kiit.ac.in>, director law <director.kls@kiit.ac.in>, dean.electronics@kiit.ac.in, principal@kims.ac.in, principal Nursing college <principal.con@kims.ac.in>
 Cc: Biswajit Mishra <drbiswajit.mishra@kiit.ac.in>, "Prof. Arindam Deb" <adebfet@kiit.ac.in>

SCHEDULE FOR ACADEMIC AUDIT

Date: 12/11/20

Steps	Content	Action by	Time
1.	The arrival of Experts in virtual mode and Welcome to School	Dean/Director	11.00 AM
2.	Request to join Online Class by the audit team (both Theory and lab) and interaction with the students	Dean/Director	11.05 AM
3.	Overview and Achievements of School during 2019-20 (1st July 2019 to 30th June 2020)	Dean/Director	11.45 AM
4.	Criteria-wise Presentation as per enclosed file followed by discussion and interaction for both UG and PG/ Doctoral Program and Feedback Analysis Report @ 5 minutes each criterion	Program Head/ Course Coordinators/ QA Coordinators	12 PM
Lunch Break (1.30 PM-2.30PM)			
5.	Interaction with stakeholders (Few parents and Alumni may also be invited for interaction)	FIC, SA,	2.30 PM
6.	Interaction with Technical Assistants	QA Coordinators	3.00 PM
7.	Interaction with faculty members and Exit Meeting	Dean/Director	3.30 PM

Important:

* If any document is asked by the Audit team for further clarification it can be shared through Google Drive (Read only format).

Prof.(Dr.) Chinmoy Kumar Panigrahi, SMIEEE
 Director, Quality Assurance Cell,



Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

conceptual note of action plan for defined key indicators

Director, Quality Assurance Cell <director.qac@kiit.ac.in>

Tue, Nov 3, 2020 at 9:00 AM

To: Ayaskanta Mishra <ayaskanta.mishrafet@kiit.ac.in>, srutisingh fet <srutisinghfet@kiit.ac.in>, srinibas padhy <srinibas.padhyfet@kiit.ac.in>

Cc: dean.electronics@kiit.ac.in

Dear Colleagues,

The prime task of the IQAC is to develop a system for conscious, consistent, and catalytic improvement in the overall performance of its institution. As desired by University Authorities, quality enhancement of the academic and research activities of the University is a primary concern in the current semester.

It is appreciated if the conceptual note of action plan for defined key indicators of following criteria of NAAC AQAR for academic session (31st May 2020 to 1st June 2021) in terms of qualitative/quantitative measures incorporating existing practice as

there is a scope for improvement by 10th November 2020 by consulting Director/Dean and senior faculty members of the School. Further, slides may be ready accordingly.

It will be presented in the IQAC meeting chaired by Vice-Chancellor on 17th November 2020 for approval and the next course of action. Relevant files are enclosed for reference.

Criterion	Key Indicators
Criterion- I: Curricular Aspects	1.1 Curriculum Design and Development 1.2 Academic Flexibility 1.3 Curriculum Enrichment 1.4 Feedback System

Expecting best cooperation.

Regards

Prof.(Dr.) Chinmoy Kumar Panigrahi, SMIEEE
Director, Quality Assurance Cell,
Professor, School of Electrical Engineering,
Kalinga Institute of Industrial Technology (KIIT)
Deemed to be University
(An Institute of Eminence)
Bhubaneswar-24



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Established U/S 3 of UGC Act and Accredited by NBA of AICTE and NAAC of UGC

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Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

SCHEDULE FOR ACADEMIC AUDIT

Director, Quality Assurance Cell <director.qac@kiit.ac.in> Sat, Nov 7, 2020 at 6:37 PM
 To: jyotiprakash.padhifce@kiit.ac.in, purnasahafce@kiit.ac.in, Prasant Kumar Pattnaik <patnaikprasantfcs@kiit.ac.in>, siddharth routaray <siddharthfcs@kiit.ac.in>, Ayaskanta Mishra <ayaskanta.mishrafet@kiit.ac.in>, srutisingh fet <srutisinghfet@kiit.ac.in>, srinibas padhy <srinibas.padhyfet@kiit.ac.in>, "Dr. Satyaranjan Jena" <snjenafel@kiit.ac.in>, Rudra Dash <rudra.dashfel@kiit.ac.in>, Mrutyunjaya Jena <mrutyunjaya.jenafme@kiit.ac.in>, Ajay Behera <ajay.beherafme@kiit.ac.in>, sambit.mohapatrafme@kiit.ac.in, "Dr. Rabindra K. Barik" <rabindra.mnnit@gmail.com>, cmisra@yahoo.com, "Prof. Damodar Jena" <damodarjena@ksrm.ac.in>, aksar@ksom.ac.in, Rahul Modak <rahul.modak@kiitbiotech.ac.in>, sukanya.dasguptafar@kiit.ac.in, jaibagchi@kls.ac.in, sksamal@kiit.ac.in, tapan.bastiafch@kiit.ac.in, himanshu.pradhanfph@kiit.ac.in, kailash.das@kids.ac.in, debasish.mishra@kids.ac.in, niharinayaktiku241@gmail.com, Director School of Computer Engineering <director.csit@kiit.ac.in>, directorksp@kiit.ac.in, Dean SAS <deansas@kiit.ac.in>, Dean Humanities <dean.humanities@kiit.ac.in>, dean ksom <dean@ksom.ac.in>, Dean Civil <dean.civil@kiit.ac.in>, Dean School Of Mechanical Engineering <dean.sme@kiit.ac.in>, Dean Electrical Engineering <dean.electrical@kiit.ac.in>, Director KSOM <director@ksom.ac.in>, Director School of Commerce & Economics <director.commerce@kiit.ac.in>, director law <director.kls@kiit.ac.in>, dean.electronics@kiit.ac.in, principal@kims.ac.in, principal Nursing college <principal.con@kims.ac.in>
 Cc: Biswajit Mishra <drbiswajit.mishra@kiit.ac.in>, "Prof. Arindam Deb" <adebfet@kiit.ac.in>

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Important:

* If any document is asked by the Audit team for further clarification it can be shared through Google Drive (Read only format).

Prof.(Dr.) Chinmoy Kumar Panigrahi, SMIEEE
 Director, Quality Assurance Cell,



Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>

Confidential

Director, Quality Assurance Cell <director.qac@kiit.ac.in>
 To: Dean School Of Electronics Engineering <dean_electronics@kiit.ac.in>
 Cc: Biswajit Mishra <drbiswajit.mishra@kiit.ac.in>

Sun, Nov 8, 2020 at 10:02 PM

Dear Madam,

The approved list of expert of your School for Academic Audit is as follows. We have updated information to all experts. It is appreciated if you will have a call to the expert for confirmation. Schedule may be modified as per availability of the experts as some experts did not respond/confirm about participation till date. It is requested to update the revised schedule as per availability of expert and to circulate among faculty members in your School with a copy to undersigned and complete the same before 18th November,2020 as the Academic Audit Report will be placed in Academic council Meeting for discussion and next course of action. Soft copy of Bank details format, Academic Audit Hand Book are enclosed for reference. **It is treated as top confidential.**

School of Electronics Engineering	Bachelor of Technology (B. Tech) in Electronics and Telecommunication Engineering	Prof.Saswat Chakraborty ,IIT KGP, saswat@ece.iitkgp.ac.in,03222283509
	Bachelor of Technology (B. Tech) in Electronics & Electrical Engineering	Prof.A Routray, IITKgp, 9434041933 ,aroutray@ee.iitkgp.ac.in
	Bachelor of Technology (B. Tech) in Electronics and Instrumentation Engineering	Dr Thirusakthimurugan, Department of Electronics, Pondicherry Engg College, M: 9443076016, thirusakthimurugan@pec.edu
	Bachelor of Technology (B. Tech) in Electronics and Control System Engineering	Dr. Ritesh Kumar Keshri, VNIT Raipur, riteshkeshri@eee.vnit.ac.in, riteshkeshri@ieee.org
	Bachelor of Technology (B. Tech) in Electronics and Computer Science Engineering	Prof.T K Bhattacharya IITKgp,9339531206 tkb@ece.iitkgp.ac.in

Prof.(Dr.) Chinmoy Kumar Panigrahi, SMIEEE
 Director, Quality Assurance Cell,
 Professor, School of Electrical Engineering,
 Kalinga Institute of Industrial Technology (KIIT)
 Deemed to be University

Academic Audit (2020-21)

Expert Team

Sl. No.	Name	Designation & Affiliation
1	Dr. Gautam Kumar Mahanti	NIT Durgapur
2	Dr. M. Javed Akhtar	IIT Kanpur
3	Dr. Aurobinda Routray	Professor, IIT Kharagpur



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of UGC Act, 1956

Academic Audit 2020-21

Action Taken Report

Name of the School: _____ School of Electronics Engineering _____

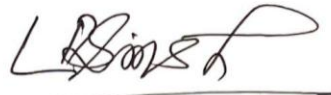
Academic Audit of school for 2020-21 was conducted on: 23rd July, 2021

Recommendations	Action Taken
Encouraging students for Summer Internship in the industry. Focus should be MTech/PhD programs in addition to regular B.Tech courses.	<p>Due to Covid-19 restrictions a few students joined Industry Internship physically during the previous academic year. However, 12% of students enrolled for industrial internship in hybrid mode in a number of companies like Tata Steel, ONGC, IOCL, AAI, WBSEDCL, BSNL, Coal India, SAIL, Indian Railways, High Radius, TCS etc.</p> <p>This year already students are encouraged to go for the 30 days summer industrial internships in different industries and the follow-up process for issuing NOC have been initiated.</p> <p>Steps are being taken to strengthen the M. Tech./Ph.D. program by providing</p> <ol style="list-style-type: none">1. High end research facility in School as well as in Central Research Facility2. Internship opportunity for M. Tech student in Industry/Research Institute.3. Increased number of financial assistance to M. Tech. students and Ph. D. students
More focused undergraduate student projects. Awarding best projects.	<ol style="list-style-type: none">1. Students are encouraged for capstone projects and building prototypes with innovative ideas.2. Videos of project presentations and prototype working models will be showcased to industries for possibility of collaboration and startups.3. School is planning for project expo and awarding best projects for B. Tech students. With the approval from higher authority same will be extended for M. Tech thesis.
Younger Faculty members should be encouraged to bring more sponsored projects.	<ol style="list-style-type: none">1. Many proposals are submitted under various schemes of DST, ISRO, NIDHI, DRDO, DBT, etc2. Grants received recently (by young faculties): a- Dr. Vimal K. Shrivastava: ISRO b- Dr. Sumit Dass: SERB TARE

	<p>c- Dr. Arindam Basak: SERB-SUPRA d- Dr. Swati Swayamsiddha SERB-CRG e- S P Kar, Co-PI, Dental Science project</p> <p>3. Two faculties have also been selected for post-doctoral positions at foreign universities. 4. DST has sanctioned 1.17 Cr FIST grant.</p>
Consultancy with industries could be more pronounced.	<p>Events have been planned in collaboration with:</p> <ol style="list-style-type: none"> 1. Microchip, (CoE) 2. Robert Bosch, (Project Ideation) 3. Techbairn, (Internship, Training and project guidance) 4. CSG International (Industry Elective on Telecom BSS (Business Support System)) 5. Brilica Service Pvt. Ltd. (Summer training) 6. Fab Labs (Internship and Training) 7. Alumni Talk (Alumni presently working in reputed organizations or pursuing higher studies) 8. MS Learn (For faculty training on Azure)
Syllabus should be updated every two years	Plans and discussions are going on relating to various changes required in the exiting curriculum. Process will be more pronounced after the completion of ongoing ABET accreditation processes.
Inculcating and enhancing Industry Oriented Problem-solving ability.	Lab experiments are revised to include engineering reasoning and design knowledge. Some open-ended experiments are planned to have integration of knowledge from two or more courses. Updated labs and Capstone projects addressing industry requirement are on focus and will be offered in the next academic year, provided classes will be held off-line.
Collaborative research work with top class universities.	<p>Faculties are encouraged to a submit research proposals in collaboration with experts from institute of repute (IIT, NIT and NISER)</p> <p>Apart from the exiting collaborative research works following Collaborative works are in the plan:</p> <ol style="list-style-type: none"> 1. RF energy harvesting ASIC with ON chip sensor module with SVNIT, Surat 2. Hyper-spectral Image classification with IISR, Dehradun. <p>School has given top priority and encouraging faculties for collaborative research within and outside KIIT.</p>
Offer courses with industry partnership	<p>Summer training programs on the different niche areas being organized by industries like Ericsson (Cloud Computing), UPath (Robotic Process Automation), Deloitte (Salesforce), Brilica Service Pvt. Ltd. (Python, Artificial Intelligence, Cyber Security).</p> <p>This year also, similar summer training with industry partnership are lined up. To this extent Techbairn and Brilica Service Pvt. Ltd. Events have been confirmed.</p>

Research Facility and Publications

Faculties have been granted incentives for outstanding number of publications.
As per the University policy only Scopus and SCI publications are being counted.
High end equipment under procurement for different research labs.



Dean/Director

Date: 07/06/2022

Academic Audit (2021-22)
Expert Team

Sl. No.	Name	Designation & Affiliation
1	Dr. Gautam Kumar Mahanti	NIT Durgapur
2	Dr. M. Javed Akhtar	IIT Kanpur
3	Dr. Aurobinda Routray	Professor, IIT Kharagpur

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.*
- *Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions*
- *Entrepreneurs*

PLACEMENT STATISTICS and STRATEGY

The Training & Placement Cell is pioneer in conducting placement drive with successfully achieved milestones in various placement categories like consulting, development, R&D, support etc. In global consulting, companies like Ben& Co, Deloittee, KPMG, EY, PWC come and hire our students. In development companies like Amazon, YugaByte, Qualcomm, Vmware, Informatica, Autodesk, Dell Technologies, Mu Sigma and many more are constantly hiring good number of our students over the years. To name a few in support and development, our students are getting opportunities in big global brands like Infosys, TCS, Capgemini, Wipro, Cognizant, HighRadius, Tech Mahindra etc. The percentage of placements is 100% for all the eligible students on campus. More than 50% students also bag multiple offers in different roles in reputed industries. Companies with Day 0 hiring offer an average salary of 10-18 Lakhs annual CTC and some super dream status companies also offer more than 40 Lakhs CTC. In Day1 hiring, mass recruiters offer an average salary of 5-12 Lakhs CTC. We are

grooming our students with various placement preparedness classes by lunching generic and specific courses like building smart and video resume, N2N coding, Domain training, baseline assessments, company specific training etc. Categorically we are also training to interested eligible students with advanced competitive coding which help them to get selected in top R&D and product companies. Often we use to conduct webinars on Industry needs, challenges and technology upgradation which make the students updated and aware about the expectations of the industry.

Parameter	Index	CAYm2	CAYm1	CAY
Faculty Research Projects and Consultancy	Cumulative Funded projects in Lacks	45	109	205
Placement Index		0.94	0.95	0.96
GATE/GRE/GMAT qualified students	% of students	3.7	4.9	2.9
Admission	%	100	100	100

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	CAYm1	CAYm2
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted	9	4	6
	Opening Score/Rank	30658	66115	73
	Closing Score/Rank	746505	758992	738372
State/Institute/Level Entrance Examination/Others (Name of the Entrance Examination)	No. of Students admitted	171	176	174
	Opening Score/Rank	67	98	1132
	Closing Score/Rank	2418	25937	11529
Name of the Entrance Examination for Lateral Entry or lateral entry details	No. of Students admitted	2	14	5
	Opening Score/Rank	16	16	12
	Closing Score/Rank	1246	60038	14946

Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Mathematics)	81.5	80.5	78.2
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Table B.7.4.

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 the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes/No)	Nature Of Association (Regular/Contract)	Date Of leaving (In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Mrutyunjay Das	AGXP D2175J	M.Sc. and PhD	21/03/2014	Computational Fluid Dynamics	Associate Professor	10/07/1999	50	50	75	Yes	Regular	
Narmada Behera	AOOPB 9968G	M.Sc. and PhD	19/05/2008	Applied Functional Analysis and Optimization	Assistant Professor	22/07/2013	75	75	75	Yes	Regular	
Rajashree Mishra	AKQP M5504R	M.Sc. and PhD	29/11/2014	Optimization Technique	Associate Professor	01/07/2006	75	75	75	Yes	Regular	
Utkal Keshari Dutta	BPJPD2 233M	M.Sc. and PhD	31/12/2021	Number Theory	Assistant Professor	27/07/2021	75	75	0	Yes	Regular	
SATYA KUMAR MISHRA	AHCP M5374Q	M.Sc. and PhD	06/11/2014	Reliability	Associate Professor	10/10/1995	75	75	75	Yes	Regular	
Jashashree Ray	AWMP R6499N	M.Sc. and PhD	27/07/2015	Experimental Condensed Matter Physics	Assistant Professor	25/01/2020	80	80	80	Yes	Regular	
Suvasis Nayak	AZIPN 6060A	M.Sc. and PhD	04/12/2020	Optimization Techniques	Assistant Professor	20/06/2018	80	80	80	Yes	Regular	
Lalaten du Biswal	AFXPB 6640K	M.Sc. and PhD	22/07/2014	Experimental Condensed Matter Physics	Assistant Professor	29/07/2010	86	86	88	Yes	Regular	
Ranjan Kumar Nayak	AQJPN 1118M	M.Sc. and PhD	13/11/2017	Machine Learning	Assistant Professor	02/07/2018	70	70	70	Yes	Regular	

Jyoti Prakash Maity	CKYP M2127 A	M.Sc. and PhD	22/11/2006	Environmental Science	Professor	02/08/2021	100	100	0	Yes	Regular	
S. Prahara j	BFIPP3 118L	ME/M. Tech and PhD	11/11/2017	Material Science	Associate Professor	03/08/2009	82	82	82	Yes	Regular	
B. P. Padhy	ARPPP 2365K	M.Sc. and PhD	13/09/2011	Summability Theory	Assistant Professor	01/08/2015	67	67	50	Yes	Regular	
Sapan Kumar Samal	ALFPS 0789L	M.Sc. and PhD	28/02/1993	Theoretical Seismology	Professor	15/04/2009	40	40	40	Yes	Regular	
Maya Devi	ATOPD 5752D	M.Sc. and PhD	18/03/2017	Condensed Matter Physics	Assistant Professor	15/07/2008	80	80	80	Yes	Regular	
Tapas Ranjan Sahoo	CTPPS 4937N	M.Sc. and PhD	06/01/2011	Materials Chemistry	Associate Professor	14/09/2011	86	86	88	Yes	Regular	
Saumya Ranjan Jena	AFMPJ 7622L	M.Sc. and PhD	12/04/2012	Numerical Integration	Associate Professor	22/10/2013	70	70	70	Yes	Regular	
Manas Ranjan Mohapatra	BMCP M2872 F	M.Sc. and PhD	04/11/2017	Geometric Function Theory	Assistant Professor	27/07/2021	29	29	0	Yes	Regular	
Madhusmita Sahoo	BQSPS 8790N	M.Sc. and PhD	24/02/2014	Operator Theory	Associate Professor	26/07/2010	44	44	43	Yes	Regular	
Rakesh Mohan Das	BCUPD 0518B	M.Sc. and PhD	25/03/2019	Quantum Optics	Assistant Professor	17/01/2022	73	73	0	Yes	Regular	
Sutanu Mangal	BMEP M0162 O	M.Sc. and PhD	12/09/2012	Semiconductor Physics and Devices	Assistant Professor	05/09/2011	80	80	80	Yes	Regular	
Gopal K Pradhan	AYKPP 0718N	M.Sc. and PhD	30/09/2010	Experimental Condensed Matter Physics	Assistant Professor	06/07/2018	80	80	80	Yes	Regular	
Shuven du Singha	CGSPY 4034C	M.Sc. and PhD	09/05/2016	Protein purification Biophysical Study of Protein	Associate Professor	07/08/2017	76	76	76	Yes	Regular	
Madhusudan Bera	BREPB 3984N	M.Sc. and PhD	12/06/2019	Complex Analysis	Assistant Professor	08/07/2019	48	48	69	Yes	Regular	
Biranchi Kumar Mahala	AKCP M9572 H	M.Sc. and PhD	30/01/2016	Weather Research and Forecasti	Assistant Professor	01/08/2015	85	85	75	Yes	Regular	

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Mitali Madhumita Acharya	CHRPS 2627P	M.Sc. and PhD	26/12/2011	Numerical Functional Analysis and Operations Research	Assistant Professor	10/07/2011	85	85	75	Yes	Regular	
Srikumar Acharya	APIPA5 483R	M.Sc. and PhD	06/06/2011	Operations Research	Associate Professor	05/01/2011	85	85	75	Yes	Regular	
Nikita Mahapatra	BGEP M4095 A	M.Sc. and PhD	27/07/2016	Regenerative medicine	Assistant Professor	12/07/2018	100	100	100	Yes	Regular	
RAJIB MIA	BXFPM 6194Q	M.Sc. and PhD	10/08/2017	Celestial Mechanics	Assistant Professor	24/08/2017	31	31	77	Yes	Regular	
Bhavya Bhushan	AULPB 7870L	M.Sc. and PhD	20/12/2011	Experimental Condensed Matter Physics and Nanotechnology	Associate Professor	08/10/2012	100	100	100	Yes	Regular	
Prakash Kumar Sahu	FDZPS 9689J	M.Sc. and PhD	21/01/2017	Numerical Analysis	Assistant Professor	13/12/2016	75	75	75	Yes	Regular	
Joydeb Pal	CCDPP 8635B	M.Sc. and PhD	04/03/2020	Algebraic Coding Theory	Assistant Professor	24/06/2019	85	85	85	Yes	Regular	
B. B. Mishra	AKEP M3945J	M.Sc. and PhD	05/03/2003	Delay Differential Equation	Professor	10/10/1995	60	60	60	Yes	Regular	
Dibyanjan Rout	BGMP R2390 M	M.Sc. and PhD	28/07/2006	Materials Science	Associate Professor	15/07/2011	100	100	100	Yes	Regular	
Sudipta K. Ghosh	BRZPG 2280D	M.Sc. and PhD	01/09/2022	Functional Analysis Operator Theory	Assistant Professor	30/07/2021	73	73	0	Yes	Regular	
Dr. Sanjoy Kumar Maji	BQAP M5765 K	M.Sc. and PhD	25/07/2008	Environmental Chemistry	Assistant Professor	01/12/2014	90	90	90	Yes	Regular	
Prasanta Kumar Das	AMRP D5329 G	M.A and Ph.D	16/12/2006	Nonlinear Functional Analysis	Assistant Professor	30/07/2011	50	50	50	Yes	Regular	
Rojalin Sahu	DFZPS 4684K	M.Sc. and PhD	25/05/2012	Inorganic Chemistry	Associate Profes	10/08/2011	90	90	90	Yes	Regular	

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Jatin K Sinha	EAPPS 5142L	M.Sc. and PhD	05/03/2008	Electrochemistry	Associate Professor	08/02/2018	87	87	82	Yes	Regular	
Jasaswini Tripathy	AHEPT 6306P	M.Sc. and PhD	12/08/2008	Ring Theory	Associate Professor	02/07/2013	88	88	87	Yes	Regular	
Anirudha Jena	APJPJ4 032K	M.Sc. and PhD	03/12/2013	Inorganic Chemistry	Assistant Professor	10/06/2022	0	0	0	Yes	Regular	
ARUN KUMAR GUPTA	ATBPG 7245D	M.Sc. and PhD	21/01/2017	Numerical Analysis	Assistant Professor	13/12/2016	16	16	48	Yes	Regular	
Bibhu Prasad Sahoo	CADPS 1562E	M.Sc. and PhD	11/05/2013	Polymer Nanocomposites	Associate Professor	18/02/2013	90	90	90	Yes	Regular	
Supriya Roy	BUWP R0305L	M.Sc. and PhD	19/12/2013	Computational Physics	Assistant Professor	12/12/2014	80	80	0	Yes	Regular	
Bijan Kumar Patel	DMOP P6959L	M.Sc. and PhD	31/10/2018	Number Theory	Assistant Professor	01/08/2019	49	49	64	Yes	Regular	
Anita Pati	BTVPP 7664J	M.Sc. and PhD	30/08/2010	Organic Chemistry	Associate Professor	18/11/2013	90	90	90	Yes	Regular	
Amulya Ratna Swain	BHNPS 6383K	ME/M. Tech and PhD	25/07/2013	Wireless sensor network	Associate Professor	01/02/2013	20	20	20	Yes	Regular	
Krishna Chakravarty	AESPC 1901J	MS	27/05/2020	Software Engineering	Assistant Professor	19/06/2017	40	40	40	Yes	Regular	
Kunal Anand	APLPA 4667H	M.E/M.Tech	15/12/2014	Software Engineering	Assistant Professor	01/06/2018	40	40	40	Yes	Regular	
Rajdeep Chatterjee	AJTPC 5965C	ME/M. Tech and PhD	21/11/2020	Brain Computer Interface	Associate Professor	18/06/2012	40	40	40	Yes	Regular	
Satyaranjan Dash	AFTPD 9526Q	ME/M. Tech and PhD	20/01/2015	Natural Language Processing	Associate Professor	29/07/2004	20	20	20	Yes	Regular	
Santwana Sagnika	DFTPS 8524C	M.E/M.Tech	26/05/2014	Artificial Intelligence	Assistant Professor	10/07/2014	40	40	40	Yes	Regular	
Saurabh Bilgaiyan	BBWP B8398G	ME/M. Tech and PhD	10/11/2018	Software Engineering	Assistant Professor	01/07/2015	40	40	40	Yes	Regular	

Bindu Agarwala	AVIPA 0815G	M.E/M.Tech	15/06/2010	Computer Architecture	Assistant Professor	13/09/2010	20	20	20	Yes	Regular	
Chinmaya Misra	AWVP M9536C	ME/M.Tech and PhD	08/11/2014	Cloud Computing	Associate Professor	21/07/2008	20	20	20	Yes	Regular	
Amiya Kumar Dash	AUKP D2214M	M.E/M.Tech	15/06/2015	Machine Learning	Assistant Professor	18/08/2015	40	40	40	Yes	Regular	
Banchhidhi Dash	ATEPD 0184B	ME/M.Tech and PhD	05/10/2017	Machine Learning	Assistant Professor	22/07/2019	20	20	20	Yes	Regular	
Bibhuti Bhusan Dash	AHWP D8581A	M.E/M.Tech	05/06/2009	Wireless Sensor Network	Assistant Professor	11/12/2003	40	40	40	Yes	Regular	
Kamakhya Narain Singh	BYGPS 5645J	M.E/M.Tech	10/02/2015	Software Engineering	Assistant Professor	01/04/2013	40	40	40	Yes	Regular	
Kumar Devadutta	AHSPD 1514D	M.E/M.Tech	22/06/2006	Software Engineering	Assistant Professor	01/09/2006	40	40	40	Yes	Regular	
Manas Kumar Rath	ALKPR 6407R	M.E/M.Tech	12/06/2010	Machine Learning	Assistant Professor	06/08/2007	40	40	40	Yes	Regular	
Partha Sarathi Pattanayak	AVYPP 7061K	ME/M.Tech and PhD	27/08/2018	Machine Learning	Assistant Professor	20/06/2011	40	40	40	Yes	Regular	
Prachi Vijayee	AFIPV1 002N	M.E/M.Tech	27/05/2022	Software Engineering	Assistant Professor	05/02/2007	40	40	40	Yes	Regular	
Sadhna Sudersana	BVFPS 9528E	ME/M.Tech and PhD	28/06/2022	OB	Assistant Professor	07/02/2012	40	40	40	Yes	Regular	
Shaswati Patra	CPPPP1 118E	M.E/M.Tech	30/05/2014	Software Engineering	Assistant Professor	18/08/2015	40	40	40	Yes	Regular	
Sudhanshu Shekhar Patra	AGBPP 7081P	ME/M.Tech and PhD	12/03/2013	Cloud Computing	Professor	26/07/2004	40	40	40	Yes	Regular	
Utpal Chandra De	AHIPD 9448A	M.E/M.Tech	12/05/2009	Artificial Intelligence	Assistant Professor	07/09/2009	40	40	40	Yes	Regular	
Pradeep Kandula	CPAPK 3386Q	M.E/M.Tech	01/06/2012	Wireless Sensor Network	Assistant Professor	16/06/2016	40	40	40	Yes	Regular	
Deepanjali Mishra	ARCP M7258B	M.A and Ph.D	14/06/2015	Culture Studies Linguistics and Feminis	Associate Professor	06/09/2012	90	90	90	Yes	Regular	

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Arpita Goswami	BEBPG 4778R	M.A and Ph.D	11/07/2022	Applied linguistic's sociolinguistics and folklore	Assistant Professor	01/06/2019	90	90	90	Yes	Regular	
Khushboo Kuddus	BVXP 8714J	M.A and Ph.D	16/07/2016	ELT and Linguistics	Assistant Professor	01/12/2016	90	90	90	Yes	Regular	
Seema K. Ladsaria	AIRPL3 777A	M.A and Ph.D	14/01/2017	Semiotics	Associate Professor	19/06/2017	90	90	90	Yes	Regular	
S. D. Chaudhuri	ARCPD 0705E	M.A and Ph.D	04/09/2013	Speculative Fiction Mythology Translation Studies and Hindustani Classical Music	Assistant Professor	17/07/2017	90	90	90	Yes	Regular	
Pallavi Kiran	BIQPK 1154G	M.A and Ph.D	24/08/2020	Indian English Literature Poetry Studies and Translation Studies	Assistant Professor	02/01/2018	90	90	90	Yes	Regular	
Abhilas Swain	BOAPS 0452P	ME/M. Tech and PhD	27/04/2018	Thermal Engineering	Assistant Professor	20/06/2017	20	20	20	Yes	Regular	
Achinta Sarkar	JPUPS6 847P	ME/M. Tech and PhD	18/07/2019	Thermal Engineering	Assistant Professor	17/06/2019	20	20	20	Yes	Regular	
Ajay Kumar Behera	ASJPB1 318F	ME/M. Tech and PhD	12/06/2012	Design Engineering	Assistant Professor	16/07/2012	20	20	20	Yes	Regular	
Akhilesh Kumar Tiwari	AMSPT 3908L	M.E/M.Tech	12/07/2017	CAD or CAM	Assistant Professor	05/07/2021	30	30	20	Yes	Regular	
Ambesh Kumar	BOMP K6947R	ME/M. Tech and PhD	08/06/2018	Design Engineering	Assistant Professor	01/12/2017	20	20	20	Yes	Regular	
Amlana Panda	AURPP 8014G	ME/M. Tech and PhD	27/12/2016	Production Engineering	Assistant Professor	23/01/2017	20	20	20	Yes	Regular	

Anil Kumar Rout	BOMP R2948F	ME/M. Tech and PhD	24/12/2013	Thermal Engineering	Assistant Professor	24/07/2013	20	20	0	Yes	Regular	
Anish Pandey	BOKPP 2972M	ME/M. Tech and PhD	20/07/2016	Design Engineering	Assistant Professor	27/06/2017	20	20	0	Yes	Regular	
Ashwani Kumar	CUWP K9684C	ME/M. Tech and PhD	03/10/2019	Mechatronics Engineering	Assistant Professor	24/06/2019	0	0	20	Yes	Regular	
Asit Behera	BZRPB 5674G	M.E/M. Tech	15/06/2018	Production Engineering	Assistant Professor	20/06/2019	30	30	20	Yes	Regular	
Barun Sharma	FEUPS 8452F	M.E/M. Tech	12/06/2017	Design Engineering	Assistant Professor	14/07/2017	20	20	20	Yes	Regular	
Basanta Kumar Rana	ARGPR 5477B	ME/M. Tech and PhD	05/03/2018	Thermal Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
Bijaya Bijeta Nayak	AHLPN 2585R	ME/M. Tech and PhD	19/03/2016	Production Engineering	Assistant Professor	04/07/2016	20	20	20	Yes	Regular	
Chinmaya Mishra	BFUPM 6970B	ME/M. Tech and PhD	13/11/2021	Thermal Engineering	Assistant Professor	18/06/2014	20	20	0	Yes	Regular	
Debjoyti Sahu	BXSPS 2113N	ME/M. Tech and PhD	08/06/2015	Automobile Engineering	Assistant Professor	09/07/2018	20	20	20	Yes	Regular	
Deepak Singhal	DDXPS 0444B	ME/M. Tech and PhD	22/10/2019	Industrial Engineering	Assistant Professor	14/07/2010	20	20	20	Yes	Regular	
Gyan Sagar Sinha	BYIPS9 274F	ME/M. Tech and PhD	21/11/2017	Thermal Engineering	Assistant Professor	27/06/2018	20	20	20	Yes	Regular	
Hemalata Jena	ALKPJ 1715E	ME/M. Tech and PhD	05/10/2015	Production Engineering	Assistant Professor	24/11/2014	20	20	30	Yes	Regular	
Jitendra Ku. Patel	DXLPP 0353Q	ME/M. Tech and PhD	20/06/2018	Thermal Engineering	Assistant Professor	03/07/2017	20	20	20	Yes	Regular	
Kamal Kishore Joshi	AIUPJ2 438F	ME/M. Tech and PhD	23/05/2013	Design Engineering	Assistant Professor	19/07/2013	20	20	30	Yes	Regular	
Madhumita Mohanty	BZDP M1485N	M.E/M. Tech	08/11/2016	Design Engineering	Assistant Professor	20/06/2016	40	40	20	Yes	Regular	
Manoj Ukamandal	ABLP 5573C	ME/M. Tech and PhD	04/11/2019	Thermal Engineering	Assistant Professor	08/12/2015	20	20	0	Yes	Regular	

Mantra Prasad Satpathy	CEPPS 0669E	ME/M. Tech and PhD	05/04/2017	Production Engineering	Assistant Professor	27/06/2017	0	0	20	Yes	Regular	
Matruprasad Rout	APQPR 7559N	ME/M. Tech and PhD	12/10/2018	Thermal Engineering	Assistant Professor	20/07/2018	20	20	0	Yes	Regular	
Md. Ehtesham Hasan	AERPH 0779N	ME/M. Tech and PhD	02/12/2016	Design Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
Nilotpal Bej	APLPB 9497E	ME/M. Tech and PhD	30/03/2016	Thermal Engineering	Assistant Professor	18/06/2018	20	20	20	Yes	Regular	
Pintu Kumar	BVDPK 7497J	ME/M. Tech and PhD	02/11/2020	Production Engineering	Assistant Professor	02/08/2019	20	20	20	Yes	Regular	
Pooja Chaudhary	AYXPC 8555F	M.E/M.Tech	18/06/2018	Aero Propulsion	Assistant Professor	25/06/2018	0	0	0	Yes	Regular	
Prakash Ghosh	ASMP G9284C	ME/M. Tech and PhD	07/07/2006	Thermal Engineering	Assistant Professor	15/07/2008	20	20	20	Yes	Regular	
Prakash Kumar Sahu	GKNPS 5019E	ME/M. Tech and PhD	23/06/2017	Production Engineering	Assistant Professor	03/07/2017	0	0	0	Yes	Regular	
Priyabrata Mohapatra	AVEP M9705D	ME/M. Tech and PhD	15/11/2013	Industrial Engineering	Assistant Professor	01/08/2013	20	20	20	Yes	Regular	
Pruthwiraj Sahu	CHPPS 4565L	ME/M. Tech and PhD	14/08/2021	Design Engineering	Assistant Professor	19/06/2014	20	20	20	Yes	Regular	
Pushkar Jha	AKHPJ 9914D	ME/M. Tech and PhD	05/10/2017	Design Engineering	Assistant Professor	24/07/2017	30	30	50	Yes	Regular	
Rahul	ANKPR 7575A	ME/M. Tech and PhD	19/09/2017	Production Engineering	Assistant Professor	19/06/2017	0	0	20	Yes	Regular	
Rajiv Lochan Mohanty	BGSPM 4619J	ME/M. Tech and PhD	15/05/2013	Thermal Engineering	Assistant Professor	24/06/2019	20	20	30	Yes	Regular	
Ram Kumar Kesharwani	BTZPK 6083Q	ME/M. Tech and PhD	07/08/2017	Production Engineering	Assistant Professor	30/06/2017	0	0	0	Yes	Regular	
Ramanuj Kumar	BPHPK 4297J	ME/M. Tech and PhD	05/11/2018	Production Engineering	Assistant Professor	02/07/2012	0	0	20	Yes	Regular	
Ranjan Kumar Behera	AUIPB 9432H	ME/M. Tech and PhD	28/02/2022	Design Engineering	Assistant Professor	07/07/2014	0	0	20	Yes	Regular	

Rasmi Ranjan Behera	AXWP B8432C	ME/M. Tech and PhD	10/06/2019	Production Engineering	Assistant Professor	26/06/2019	20	20	20	Yes	Regular	
Rishito sh Ranjan	AXHPR 4595H	ME/M. Tech and PhD	01/05/2013	Thermal Engineering	Assistant Professor	01/07/2013	20	20	0	Yes	Regular	
Rita Kumari Sahu	BQLPS 2362D	ME/M. Tech and PhD	11/01/2020	Production Engineering	Assistant Professor	13/08/2012	20	20	20	Yes	Regular	
Sambit Kumar Mohapatra	AVRP M0797J	ME/M. Tech and PhD	27/07/2017	Production Engineering	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	
Samira n Samanta	DUKPS 2524E	ME/M. Tech and PhD	04/03/2018	Thermal Engineering	Assistant Professor	24/07/2017	20	20	0	Yes	Regular	
Santosh Kumar Hotta	AEWP H0641E	ME/M. Tech and PhD	01/07/2013	Thermal Engineering	Assistant Professor	06/08/2019	20	20	20	Yes	Regular	
Sasmita Sahu	CZQPS 9557K	ME/M. Tech and PhD	20/12/2016	Design Engineering	Assistant Professor	03/02/2017	0	0	0	Yes	Regular	
Shanta Chakra barty	AMKP C5617 M	ME/M. Tech and PhD	24/02/2016	Material Science and Engineering	Assistant Professor	31/07/2018	20	20	20	Yes	Regular	
Shivara man	ARDPT 0353P	ME/M. Tech and PhD	13/07/2017	Production Engineering	Assistant Professor	20/07/2017	20	20	20	Yes	Regular	
Siba Prasad Behera	BUOPB 5071M	M.E/M .Tech	15/07/2015	Thermal Engineering	Assistant Professor	07/07/2017	20	20	40	Yes	Regular	
Smaran ika Nayak	AFNPN 8025J	ME/M. Tech and PhD	20/06/2022	Design Engineering	Assistant Professor	06/07/2015	20	20	20	Yes	Regular	
Smita Rani Panda	CPJPP0 372N	M.E/M .Tech	24/12/2012	Production Engineering	Assistant Professor	01/07/2019	40	40	40	Yes	Regular	
Smitiru pa Pradhan	ASXPP 3835H	ME/M. Tech and PhD	05/12/2018	Design Engineering	Assistant Professor	02/01/2019	20	20	20	Yes	Regular	
Spanda n Guha	AYIPG 7424Q	ME/M. Tech and PhD	28/11/2018	Production Engineering	Assistant Professor	20/07/2018	20	20	20	Yes	Regular	
Srikant Panigra hi	AKZPP 8785A	M.E/M .Tech	20/10/2015	Avionics	Assistant Professor	29/01/2020	40	40	0	Yes	Regular	
Sudhan su Sekhar Patro	BNDPP 3433P	M.E/M .Tech	30/08/2014	Design Engineering	Assistant Professor	30/06/2015	20	20	20	Yes	Regular	

Surendra Ku. Ghadei	AMRP G5982C	ME/M. Tech and PhD	03/07/2019	Thermal Engineering	Assistant Professor	18/07/2012	20	20	0	Yes	Regular	
Swarup Kumar Nayak	APGPN 8418Q	ME/M. Tech and PhD	10/09/2019	Thermal Engineering	Assistant Professor	24/11/2014	20	20	20	Yes	Regular	
Swyaam Bikash Mishra	BDTP M4417J	ME/M. Tech and PhD	05/10/2016	Production Engineering	Assistant Professor	05/12/2016	20	20	20	Yes	Regular	
Tarak Kumar Sahoo	BKRPS 4392H	ME/M. Tech and PhD	07/08/2010	Thermal Engineering	Assistant Professor	24/11/2014	20	20	20	Yes	Regular	
Usharani Rath	BIWPR 9015B	ME/M. Tech and PhD	15/10/2021	Production Engineering	Assistant Professor	01/07/2013	20	20	20	Yes	Regular	
Vijay Kumar Mishra	ARXP M6335L	ME/M. Tech and PhD	08/02/2017	Thermal Engineering	Assistant Professor	20/06/2016	20	20	20	Yes	Regular	
Atal Bihari Harichandan	AGDP H1046E	ME/M. Tech and PhD	23/08/2010	Aerodynamics	Associate Professor	18/06/2018	20	20	20	Yes	Regular	
B. Surekha	AJGPB 8519E	ME/M. Tech and PhD	09/06/2015	Production Engineering	Associate Professor	03/01/2014	20	20	20	Yes	Regular	
Dipti Kanta Das	ANBPD 0690H	ME/M. Tech and PhD	04/11/2015	Production Engineering	Associate Professor	25/07/2011	20	20	20	Yes	Regular	
Isham Panigrahi	AHYPP 5646A	ME/M. Tech and PhD	04/10/2014	Design Engineering	Associate Professor	04/04/2006	0	0	20	Yes	Regular	
Mohd. Sadique Khan	AJAPK 2614H	ME/M. Tech and PhD	12/10/2018	Industrial Engineering	Associate Professor	02/12/2013	20	20	20	Yes	Regular	
Nitin Sharma	DEWPS 9529P	ME/M. Tech and PhD	16/10/2018	Design Engineering	Associate Professor	02/07/2010	0	0	20	Yes	Regular	
Radha Kanta Sarangi	ADUPS 7565H	ME/M. Tech and PhD	11/06/2016	Thermal Engineering	Associate Professor	02/08/2017	20	20	20	Yes	Regular	
Ruby Mishra	ALDP M5215B	ME/M. Tech and PhD	19/10/1977	Design Engineering	Associate Professor	20/10/2010	0	0	0	Yes	Regular	
Santosh Ku. Nayak	AEAPN 4869G	ME/M. Tech and PhD	31/10/2016	Thermal Engineering	Associate Professor	10/04/2010	20	20	20	Yes	Regular	
Satya Prakash Kar	AMOP K2795E	ME/M. Tech and PhD	12/09/2015	Thermal Engineering	Associate Professor	26/06/2007	20	20	20	Yes	Regular	

Suchismita Satapaty	CEJPS2747M	ME/M. Tech and PhD	09/07/2014	Industrial Engineering	Associate Professor	04/02/2013	20	20	20	Yes	Regular	
Sudendra Roy	ABYPR0821P	ME/M. Tech and PhD	27/08/2009	Material Science and Engineering	Associate Professor	24/08/2015	20	20	20	Yes	Regular	
Sumanta Choudhuri	AFBPC6436J	ME/M. Tech and PhD	27/08/2019	Thermal Engineering	Associate Professor	13/07/2012	20	20	20	Yes	Regular	
Akshaya Ku. Rout	AHYPR1179C	ME/M. Tech and PhD	11/07/2011	Thermal Engineering	Professor	05/08/2010	20	20	0	Yes	Regular	
Ashok Ku. Sahoo	ALRPS2041P	ME/M. Tech and PhD	03/11/2010	Production Engineering	Professor	15/11/1997	0	0	0	Yes	Regular	
Basant Ku. Nanda	ABSPN1194M	ME/M. Tech and PhD	07/07/2006	Production Engineering	Professor	31/03/2007	20	20	20	Yes	Regular	
Bharat Ch. Routara	ABYPR0885M	ME/M. Tech and PhD	24/12/2008	Production Engineering	Professor	18/03/2009	0	0	0	Yes	Regular	
Kunja Bihari Sahu	AHZPS1481M	ME/M. Tech and PhD	29/07/2009	Thermal Engineering	Professor	15/09/2010	0	0	0	Yes	Regular	
Lalit Kumar Pothal	AEIPP0201J	ME/M. Tech and PhD	09/11/2019	Industrial Engineering	Professor	31/01/2014	0	0	20	Yes	Regular	
Mrutyunjay Jena	ADQPJ1555L	ME/M. Tech and PhD	30/01/1997	Aero Propulsion	Professor	01/10/2015	20	20	20	Yes	Regular	
P.Chandra Sekhar	ALDPP8328C	ME/M. Tech and PhD	13/10/2006	Design Engineering	Professor	18/10/2001	0	0	0	Yes	Regular	
Purna Ch. Mishra	AXIPM9967H	ME/M. Tech and PhD	24/12/2011	Thermal Engineering	Professor	01/07/2009	0	0	0	Yes	Regular	
Saranjit Singh	AOMP8904F	ME/M. Tech and PhD	04/09/2007	Production Engineering	Professor	15/05/2009	0	0	0	Yes	Regular	
Sushant Ku. Tripathy	ABDPT5002B	ME/M. Tech and PhD	22/08/2011	Industrial Engineering	Professor	16/07/2012	0	0	20	Yes	Regular	
Tanmoymahant	AHAPM9806F	ME/M. Tech and PhD	19/07/2012	Production Engineering	Professor	04/03/1999	0	0	0	Yes	Regular	
Aparupa Pani	BFIPP3393B	ME/M. Tech and PhD	09/07/2019	Geotech Engineering	Assistant Professor	02/08/2010	20	20	20	Yes	Regular	

Asish Kumar Pani	AUAPP 2236R	ME/M. Tech and PhD	02/09/2021	Structural Engineering	Associate Professor	17/04/2007	20	20	20	Yes	Regular	
Bandita Paikaray	APVPP 9756L	ME/M. Tech and PhD	09/11/2019	Geotech Engineering	Associate Professor	31/07/2008	20	20	20	Yes	Regular	
Amit Kumar Das	AUHP D9235D	ME/M. Tech and PhD	07/03/2022	Transportation Engineering	Assistant Professor	03/12/2018	20	20	20	Yes	Regular	
Bhagya shree Panda	BKEPP 7201F	M.E/M .Tech	18/01/2014	Transportation Engineering	Assistant Professor	06/07/2013	0	0	20	Yes	Regular	
Brundaban Beriha	BELPB 0104G	ME/M. Tech and PhD	20/10/2020	Transportation Engineering	Assistant Professor	27/06/2019	30	30	20	Yes	Regular	
Dipti Ranjan Biswal	ANWP B6652Q	ME/M. Tech and PhD	18/05/2018	Transportation Engineering	Associate Professor	18/06/2018	20	20	20	Yes	Regular	
Dudam Bharath Kumar	BCMP B1322F	ME/M. Tech and PhD	07/08/2017	Environmental Engineering	Assistant Professor	01/07/2017	20	20	20	Yes	Regular	
Gaurav Udgata	AEZPU 3397R	M.E/M .Tech	31/05/2016	Structural Engineering	Assistant Professor	23/06/2016	20	20	20	Yes	Regular	
Ipsita Mohanty	AVCP M0742J	M.E/M .Tech	05/02/2016	Structural Engineering	Assistant Professor	23/06/2017	20	20	20	Yes	Regular	
Ipsita Panda	CWSP 9150L	M.E/M .Tech	16/01/2016	Geotech Engineering	Assistant Professor	04/07/2017	20	20	20	Yes	Regular	
Kalpana Sahoo	ESMPS 2701A	M.E/M .Tech	07/03/2022	Transportation Engineering	Assistant Professor	27/06/2017	20	20	20	Yes	Regular	
Kirtikanta Sahoo	DELPS 8005F	ME/M. Tech and PhD	07/01/2017	Structural Engineering	Assistant Professor	18/06/2012	20	20	20	Yes	Regular	
Kshyana Prava Samal	BNNPK 6597B	ME/M. Tech and PhD	14/11/2009	Water Resources Engineering	Associate Professor	17/06/2016	20	20	20	Yes	Regular	
Kundan Samal	DQDPS 7888L	ME/M. Tech and PhD	10/01/2020	Environmental Engineering	Assistant Professor	02/07/2018	20	20	20	Yes	Regular	
Madhulisha Pattanayik	BHZPP 4836J	ME/M. Tech and PhD	04/06/2019	Transportation Engineering	Assistant Professor	19/07/2019	20	20	0	Yes	Regular	
Malaya Mohanty	BRUP M4756R	ME/M. Tech and PhD	20/03/2020	Transportation Engineering	Assistant Professor	02/07/2018	20	20	20	Yes	Regular	

Mohibullah	AYAP M2515J	M.E/M.Tech	30/06/2012	Construction Management	Assistant Professor	09/01/2017	30	30	20	Yes	Regular	
Paromita Chakraborty	AJHPC 1855F	ME/M.Tech and PhD	30/10/2010	Water Resources Engineering	Assistant Professor	13/07/2012	20	20	20	Yes	Regular	
Prateeksha Mahamalik	BJWP M4843D	ME/M.Tech and PhD	27/07/2013	Environmental Engineering	Assistant Professor	31/07/2017	20	20	20	Yes	Regular	
Preetynanda Nanda	AMRP N0876E	M.E/M.Tech	09/06/2014	Geotech Engineering	Assistant Professor	23/07/2014	20	20	20	Yes	Regular	
Rachita Panda	BSUPP 6733J	M.E/M.Tech	08/11/2016	Transportation Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
Rana Chattaraj	AIPPC4 084P	ME/M.Tech and PhD	27/02/2017	Geotech Engineering	Assistant Professor	03/01/2017	20	20	20	Yes	Regular	
Sananda Sarkar	BZWPS 8843P	M.E/M.Tech	02/02/2015	Environmental Engineering	Assistant Professor	16/06/2016	20	20	20	Yes	Regular	
Satya Ranjan Samal	EEHPS 2603E	M.E/M.Tech	15/07/2014	Transportation Engineering	Assistant Professor	23/07/2014	20	20	20	Yes	Regular	
Satyajet Nanda	ADYP N6744M	ME/M.Tech and PhD	11/03/2013	Geotech Engineering	Associate Professor	20/02/2017	20	20	0	Yes	Regular	
Sunny Jaiswal	EANPS 0722L	M.E/M.Tech	22/07/2017	Structural Engineering	Assistant Professor	19/06/2017	20	20	20	Yes	Regular	
Sushree Sangita Panda	ANOPP 6897K	M.E/M.Tech	24/07/2015	Structural Engineering	Assistant Professor	19/06/2017	0	0	20	Yes	Regular	
Chinmoy Kumar Panigrahi	AIJPP7 246G	ME/M.Tech and PhD	11/07/2003	Power System	Professor	30/04/2009	30	30	30	Yes	Regular	
Sarat Chandra Swain	AYAPS 5862N	ME/M.Tech and PhD	24/10/2010	Power System	Professor	11/01/1996	30	30	30	Yes	Regular	
Babita Panda	APWPP 5711J	ME/M.Tech and PhD	14/03/2017	Power Electronics and Drives	Associate Professor	16/08/2012	30	30	30	Yes	Regular	
Chitralakha Jena	ADXPJ 5640B	ME/M.Tech and PhD	01/07/2017	Power and Energy System	Associate Professor	01/12/2012	30	30	30	Yes	Regular	
Lipika Nanda	AHEPN 2469D	ME/M.Tech and	09/11/2019	Power Electronics and	Associate Profes	19/06/2007	30	30	30	Yes	Regular	

		PhD		Drives	essor							
Pampa Sinha	BZHPS 5476F	ME/M. Tech and PhD	10/04/2017	Power System	Associate Professor	20/06/2016	30	30	30	Yes	Regular	
Pradeep Kumar Sahu	AZIPS4 641N	ME/M. Tech and PhD	16/11/2016	Power Electronics	Associate Professor	23/06/2017	30	30	30	Yes	Regular	
Rudra Narayan Dash	AMGP D9035 Q	ME/M. Tech and PhD	05/11/2018	Electrical Machines	Associate Professor	21/07/2011	30	30	30	Yes	Regular	
Satyaranjan Jena	AHYPJ 6801B	ME/M. Tech and PhD	09/11/2016	Power control and Drives	Associate Professor	18/06/2012	30	30	30	Yes	Regular	
Sriparna Roy Ghatak	AQMP G3193J	ME/M. Tech and PhD	02/11/2018	Power System Engineering	Associate Professor	09/04/2007	30	30	30	Yes	Regular	
Subhra Debdas	AHLPD 7002M	ME/M. Tech and PhD	13/08/2018	Power System Engineering	Associate Professor	06/10/2019	30	30	30	Yes	Regular	
Alivarani Mohapatra	AUPP M3105 M	ME/M. Tech and PhD	12/06/2018	Energy system	Associate Professor	20/07/2009	30	30	30	Yes	Regular	
Anil Kumar Behera	BSJPB7 951D	M.E/M.Tech	22/04/2017	Power Electronics and Drives	Assistant Professor	31/07/2017	30	30	30	Yes	Regular	
Ankit Kumar Soni	CQAPS 8654L	M.E/M.Tech	06/07/2017	Power and Energy System	Assistant Professor	21/06/2017	30	30	30	Yes	Regular	
Deepak Kumar Gupta	BJAPG 1813K	ME/M. Tech and PhD	24/02/2018	Power System Engineering	Assistant Professor	07/11/2017	30	30	30	Yes	Regular	
K.V.V. S.R Chowdary	BITPK4 849P	ME/M. Tech and PhD	06/05/2014	Power Electronics and Drives	Assistant Professor	21/07/2011	30	30	30	Yes	Regular	
Padarbinda Samal	BOZPS 5346M	ME/M. Tech and PhD	20/01/2018	Power System Engineering	Assistant Professor	23/06/2017	30	30	30	Yes	Regular	
Ranjeeta Patel	BHHP 0139E	ME/M. Tech and PhD	31/05/2017	Power Electronics and Drives	Assistant Professor	12/03/2018	30	30	30	Yes	Regular	
Satyabrata Sahoo	BYEPS 1070D	ME/M. Tech and PhD	26/06/2012	Control and protection of Electrical Apparatus	Assistant Professor	26/06/2012	30	30	30	Yes	Regular	
Swagat Das	BDJPD 3185N	MS	16/05/2016	Power Electronics	Assistant Professor	21/08/2017	30	30	30	Yes	Regular	

				Device Reliability	essor							
Tapaswini Biswal	BFWPB 7491C	M.E/M.Tech	20/05/2016	Power System Engineering	Assistant Professor	03/09/2016	30	30	30	Yes	Regular	
Subodh Kumar Mohanty	AWLP M3405E	M.E/M.Tech	22/05/2013	Power System Engineering	Assistant Professor	24/11/2014	30	30	30	Yes	Regular	
Shubhashree Kundu	AWAP K4226G	ME/M.Tech and PhD	16/03/2016	Automation and Robotics	Assistant Professor	04/01/2016	30	30	30	Yes	Regular	
Samita Rani Pani	BQFPP 1220H	M.E/M.Tech	04/06/2014	Power System Engineering	Assistant Professor	17/06/2014	30	30	30	Yes	Regular	
KRUS HNA GOPAL MISHRA	AJWP M3483A	M.Sc. and PhD	12/09/1988	Electrochemistry	Professor	22/07/2003	40	40	40	Yes	Regular	
Alok Ranjan Patnaik	DVGPP 6761M	M.Sc. and PhD	11/01/1987	Astronomy	Professor	02/12/2019	40	40	40	Yes	Regular	
Samaresh Jana	AOFPJ 8123G	M.Sc. and PhD	24/12/2007	Organic chemistry	Associate Professor	19/02/2013	100	100	100	Yes	Regular	
Chandana Mohanty	AEMP M3551J	M.Sc. and PhD	09/11/2001	Nanotechnology Drug delivery and Tissue engineering	Assistant Professor	09/07/2018	100	100	100	Yes	Regular	
Pratap Kumar Deheri	DOWP D6481R	M.Sc. and PhD	09/11/2012	Material Science	Assistant Professor	23/07/2018	85	85	85	Yes	Regular	
Sushant Kumar Sahoo	BJLPS9 986A	M.Sc. and PhD	03/09/2014	Condensed matter theory	Associate Professor	17/07/2008	67	67	67	Yes	Regular	
Prasanta Rath	AMRP D5329G	M.Sc. and PhD	11/05/2004	Environmental geochemistry	Professor	01/12/1999	40	40	40	Yes	Regular	
Biswabandita Kar	AHGP K1039C	M.Sc. and PhD	04/04/2001	Chemical metallurgy and environmental chemistry	Professor	03/01/2005	40	40	40	Yes	Regular	
Priyadarshini Parida	AVZPP 1627Q	M.Sc. and PhD	26/01/2016	Computational Condensed matter	Assistant Professor	01/01/2019	80	80	80	Yes	Regular	

				Physics								
A K Paul	ALDPP 5523H	M.Sc. and PhD	20/11/2012	Numerical Analysis	Assistant Professor	15/07/2014	70	70	70	Yes	Regular	
Debasis Sharma	IRBPS4 942F	M.Sc. and PhD	09/11/2021	Numerical Analysis	Assistant Professor	26/07/2021	46	46	0	Yes	Regular	
Tapan Kumar Bastia	AHFPPB 4366A	M.Sc. and PhD	08/05/1993	composite materials	Associate Professor	03/08/2009	60	60	60	Yes	Regular	
Puspallata Pattojoshi	AGQPP 7764A	M.Sc. and PhD	07/01/1987	Physics	Professor	20/06/2014	30	30	30	Yes	Regular	
Subhadarshan Sahoo	DPNPS 8597K	M.Sc. and PhD	19/01/2019	Differential equation	Assistant Professor	17/10/2017	70	70	70	Yes	Regular	
Jagnyaseni Tripathy	AQTPT 8686J	M.Sc. and PhD	06/05/2011	Biophysics	Assistant Professor	10/01/2012	87	87	87	Yes	Regular	
Bidhubhusan Sahu	EJPPS3 096J	M.Sc. and PhD	30/03/2011	Nuclear Physics	Associate Professor	04/08/2012	75	75	75	Yes	Regular	
Akshaya Kumar Panda	AMMP P2929H	M.Sc. and PhD	17/03/2017	Number Theory	Assistant Professor	05/01/2017	78	78	78	Yes	Regular	
Manoranjan Sahoo	CCXPS 0915H	M.Sc. and PhD	28/05/2011	Fractal and OR	Assistant Professor	14/03/2011	50	50	50	Yes	Regular	
Kajal Parashar	AXKPP 1089R	M.Sc. and PhD	05/09/2004	Nano materials	Associate Professor	10/08/2009	60	60	60	Yes	Regular	
Laxmipriya Nayak	ASGPN 0300G	M.A and Ph.D	25/05/2015	Fourier Analysis	Assistant Professor	03/09/2012	80	80	80	Yes	Regular	
Mitali Routaray	BPBPR 3224Q	M.Sc. and PhD	20/01/2018	Topology	Assistant Professor	07/01/2017	62	62	77	Yes	Regular	
Sarbari Acharya	ANIPA 9387K	M.Sc. and PhD	17/07/2017	Nanotechnology and cancer drug delivery	Assistant Professor	07/09/2018	100	100	100	Yes	Regular	
Sohini Sarkar	CSFPS8 703P	M.Sc. and PhD	29/11/2013	Inorganic Chemistry	Assistant Professor	20/07/2016	84	84	88	Yes	Regular	
Sushma Singh	EDRPS 9100P	M.Sc. and PhD	27/11/2019	Ring Theory	Assistant Professor	17/06/2019	88	88	88	Yes	Regular	

Dibakar Behera	ARFPB 2801G	ME/M. Tech and PhD	04/07/2009	Material Science	Associate Professor	25/07/2008	100	100	100	Yes	Regular	
Ch. Vinod	AVEPC 8967B	M.Sc. and PhD	01/10/2016	Chronobiology and Neurochemistry	Assistant Professor	17/07/2018	100	100	100	Yes	Regular	
Debdulal Panda	AIFPP5 844E	M.Sc. and PhD	10/07/2010	Operations research	Associate Professor	10/01/2012	25	25	50	Yes	Regular	
R N MUKHARJEE	AFUP M6770J	M.Sc. and PhD	02/02/1996	Experimental Nuclear Physics	Associate Professor	02/12/2013	90	100	100	Yes	Regular	
Prasanta Kumar Mohanty	AHAP M2752L	ME/M. Tech and PhD	21/11/2014	Numerical Analysis	Assistant Professor	20/02/2011	25	25	50	Yes	Regular	
Pramod Kumar Das	ACEPD 2546G	M.A and Ph.D	11/10/1989	Combinatorics and Graph Theory and Fuzzy Logic	Professor	27/07/2016	50	50	50	Yes	Regular	
Manas Mukul	AJPPM 8535N	ME/M. Tech and PhD	01/11/2016	Software Engineering	Professor	07/08/2010	20	20	20	Yes	Regular	
Sudhanu Dubey	CLTPD 7631L	M.E/M.Tech	28/06/2017	Machine Design	Associate Professor	07/10/2021	20	20	20	Yes	Regular	
Rabindra Kumar Barik	BMPPB 7357F	MCA and PhD	07/09/2014	Database Engineering	Assistant Professor	18/06/2012	20	20	20	Yes	Regular	
Jagori Dutta	APFPD 3424F	ME/M. Tech and PhD	22/06/2016	Geotech Engineering	Assistant Professor	27/06/2016	0	0	20	No	Regular	#####
Shiv Shankar Kumar	HLXPK 7687A	ME/M. Tech and PhD	25/06/2018	Geotech Engineering	Assistant Professor	30/07/2018	0	0	0	No	Regular	#####
Subrat Kumar Barik	AKHPB 8732B	ME/M. Tech and PhD	15/06/2016	Power and Energy System	Associate Professor	01/02/2011	30	30	30	No	Regular	#####
Sanjaya Kumar Panda	AXEPP 1772D	M.A and Ph.D	01/09/2017	Yoga and Spirituality	Assistant Professor	01/09/2017	100	100	100	Yes	Regular	
Kriti Raj	BEMPR 7752B	MA	24/05/2019	Yoga and Spirituality	Assistant Professor	21/01/2020	90	100	100	Yes	Regular	
Rituparna Kar	DZCPK 3929J	MA	12/08/2017	Yoga	Assistant Professor	20/11/2017	90	100	100	Yes	Regular	

					sor							
Sashikanta Khuntia	BJLPK 3305H	MA	23/02/2015	Yoga and Spirituality	Assistant Professor	27/11/2017	90	100	100	Yes	Regular	
Swapnamoyee Palit	AUEPP 8658H	M.A and Ph.D	01/12/2016	Econometrics and mathematical economics	Assistant Professor	10/10/2017	90	90	90	Yes	Regular	
Chetna Sinha	BVAPS 4153G	MBA & Ph.D	15/12/2014	ELT and Linguistics	Assistant Professor	07/03/2022	90	90	0	Yes	Regular	
Sahel Md Delabul Hossain	ADTPH 2061G	M.A and Ph.D	09/10/2018	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	
Sourabh Rajwade	BSFPR 8215Q	M.E/M.Tech	15/11/2017	CAD or CAM	Assistant Professor	07/04/2021	60	60	60	Yes	Regular	
Kalyani Mohanta	AHAP M9601Q	ME/M.Tech and PhD	15/09/2007	Material Science and Engineering	Professor	18/06/2021	30	30	20	Yes	Regular	
Amulya Kumar Mahto	DFRPM 1000K	ME/M.Tech and PhD	04/01/2021	Statistical Inferences	Assistant Professor	26/07/2021	60	60	0	Yes	Regular	
Ajay Kumar Mishra	BBPPM 0837E	M.Sc. and PhD	24/02/2007	Nanotechnology	Professor	21/06/2021	88	88	88	Yes	Regular	
Chandan Kumar Mohapatra	AVZP M7242A	MA	01/05/2020	Yoga and Spirituality	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
Aparajita Sahoo	BYVPS 7356H	MA	01/05/2020	Yoga and Spirituality	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
Pradyumna Kumar Behera	BZRPB 1667H	MA	01/05/2020	Yoga	Assistant Professor	12/10/2020	90	100	100	Yes	Regular	
ARATRIKA GANGULY	BFEPG 7204N	M.Phil	24/12/2018	Comparative Literature	Assistant Professor	01/02/2022	90	90	0	Yes	Regular	

SHRA DDHA DHAL	AXLPD 9830H	M.A and Ph.D	30/01 /2020	Postcolo nial Literatur e and Diaspora Studies	Assist ant Profes sor	23/07/2 018	60	60	90	Yes	Regular	
Manora njan Sahoo	EQGPS 0576B	M.A and Ph.D	16/04 /2018	Internati onal Trade and Applied Econom etrics	Assist ant Profes sor	08/01/2 018	60	60	90	Yes	Regular	
Dhyana dipta Panda	ARLPP 4507H	MBA & Ph.D	10/03 /2022	Human Resource Manage ment	Assist ant Profes sor	01/02/2 011	90	90	90	Yes	Regular	
Arijit Patra	FZVPP 7498Q	M.Sc. and PhD	03/12 /2020	Reliabilit y Theory	Assist ant Profes sor	03/08/2 022	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	15.0	5
2020-2021 (CAYm2)	1620	102	15.9	5
Average	1580	106	14.9	5

Table B.8.1.

*Note: If FYSFR is greater than 25, then assessment equal to zero.

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 SFR of 20:1, Faculty definition as defined in 5.1

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

Table B.8.2

8.3 First Year Academic Performance (10)

Academic Performance = ((Mean of 1st 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)	8.60	8.52	8.33
Total Number of successful students(Y)	180	180	180
Total Number of students appeared in the examination(Z)	180	180	180
API [X*(Y/Z)]	8.60	8.52	8.33

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:	Assessment Methods:
Theory courses (assessed out of 100 marks)	<ul style="list-style-type: none"> ● Continuous assessment of 30 marks: <ul style="list-style-type: none"> ○ 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): <ul style="list-style-type: none"> ○ 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. ○ 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.

	<ul style="list-style-type: none"> • End semester examination/assessment of 50 marks (questions correspond to attainment of different COs): <ul style="list-style-type: none"> ○ 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. ○ 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.
<p>Practical courses (assessed out of 100 marks)</p>	<ul style="list-style-type: none"> • Continuous assessment of 60 marks <ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> ○ 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.
<p>Sessional courses (assessed out of 100 marks)</p>	<ul style="list-style-type: none"> • Continuous assessment of 100 marks: <ul style="list-style-type: none"> ○ 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 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	\leq Class Average in each CO $<$	Threshold 1
Level	1	Threshold 1	\leq Class Average in each CO $<$	Threshold 2
Level	2	Threshold 2	\leq Class Average in each CO $<$	Threshold 3
Level	3	Threshold 3	\leq 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
Theory Course	Continuous Evaluation	30	Cumulative Internal Examination (CIE)	50
	Mid-Semester Examination	20		
	End Semester Examination	50	Semester End Examination (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.

Course Outcomes	Continuous Evaluation		Mid Semester Examination		Cumulative Internal Examination		
	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average
CO _x	X'	X	Y'	Y	X'+Y'	X+Y	$\frac{X'+Y'}{X+Y} \times 100$

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

Course Outcomes	Semester Internal Examination		
	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average
CO _x	Z'	Z	$Z'/Z \times 100$

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	\leq Class Average in each CO <	25
Level	1	25	\leq Class Average in each CO <	50
Level	2	50	\leq Class Average in each CO <	75
Level	3	75	\leq 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 Evaluation (Experimental activities/tasks)	60	Cumulative Internal Examination (CIE)	60
	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.

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

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

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

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

Threshold Levels for CO Attainment				
Level	0	0	\leq Class Average in each CO <	25
Level	1	25	\leq Class Average in each CO <	50
Level	2	50	\leq Class Average in each CO <	75
Level	3	75	\leq 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 SEE (=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
Sessional Course	Continuous Evaluation (Experimental activities/ tasks)	100	Cumulative Internal 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.

Course Outcomes	Cumulative Internal Examination		
	Total marks obtained by all the student corresponding to each CO	Total marks allotted to each CO (considering all the students)	Class Average
CO _x	X'	X	$X'/X \times 100$

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

Threshold Levels for CO Attainment				
Level	0	0	\leq Class Average in each CO <	25
Level	1	25	\leq Class Average in each CO <	50
Level	2	50	\leq Class Average in each CO <	75
Level	3	75	\leq 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 2020-2021

Sl. No.	NBA Course Code	Course Title	CO1	CO2	CO3	CO4	CO5	CO6
1	C101	Mathematics-I	2	2.5	3	2.5	2.5	2
2	C102	Physics	2.5	3	2.5	3	2.5	2.5
3	C103	Basic Electrical Engineering	2	2.5	2	3	3	3
4	C104	Engineering Mechanics	2	2	3	3	2	2
5	C105	Physics Lab	2	2.5	3	3	3	3
6	C106	Basic Electrical Engineering Lab	2.5	2.5	2.5	2.5	2.5	3
7	C107	Basic Manufacturing Systems	3	2.5	3	2.5	2.5	3
8	C108	Environmental Science	2.5	2.5	2	2.5	3	2.5
9	C109	Mathematics-II	2.5	2	2	2.5	2.5	2
10	C110	Chemistry	2.5	3	2	2.5	2.5	3
11	C111	Professional Communication	3	3	3	3	3	3
12	C112	Biology	2.5	2.5	2	3	3	3
13	C113	Computer Programming	2	3	3	2.5	2.5	3
14	C114	Chemistry Lab	2.5	2.5	2.5	3	2.5	2
15	C115	Language Lab	3	3	3	3	3	3
16	C116	Engineering Graphics	3	2.5	2.5	2.5	3	3
17	C117	Yoga and Human Consciousness	2.5	2	2.5	3	3	3

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 PSOs through 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 carried out)

PO/PSO Attainment: Mention first year courses

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	2.5	2.5	2.5	2.5	2.33	2.5	2.25	0	2.5	0	0	2.47			
C102	2.58	2.5	2.58	2.58	0	0	0	0	0	0	0	2.58			

C103	2.52	2.52	2.5	2.41	0	2.61	2.6	0	0	0	0	2.53	2.5		
C104	2.57	2.52	2.49	2.17	0	0	0	0	0	0	0	0			
C105	3	3	3	0	0	0	0	0	0	0	0	0			
C106	3	3	3	3	3	3	3	3	3	3	0	3	3		
C107	3	3	3	3	3	3	3	3	3	3	0	3			
C108	2.8	2.8	2.8	3	3	2.8	2.8	3	3	3	0	2.8			
C109	2.51	2.51	2.51	2.31	0	0	0	0	0	0	0	2.40			
C110	2.56	2.26	2.5	2.78	0	2.78	2.78	0	2.25	0	0	2.52			
C111	0	0	0	0	0	0	3	3	0	3	0	3			
C112	2.54	2.74	2.54	2.58	0	2.54	2.56	0	0	0	0	0			
C113	2.44	2.41	2.44	2.5	2.5	0	0	2.5	0	2.5	0	2.5			
C114	3	3	0	3	3	0	3	0	0	0	0	0			
C115	0	0	0	0	0	3	0	0	0	3	0	3			
C116	3	3	0	0	3	3	0	0	0	0	0	3			
C117	0	0	0	0	0	2.78	0	2.75	0	0	0	2.52			

Table B.8.5.1.

- Add more columns for PSOs if needed.
- If necessary present the table in Landscape format

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: Statement as mentioned in Annexure I			
PO1	2.50	2.73	Target is achieved. Foundation of theoretical and practical knowledge of Science and mathematics which students cover in Ist year should be correlating theory with applications.

Action 1: Activity based learning system implemented			
Action 2: Advising the students to participate in technical events where their basic knowledge should be used in engineering oriented problems			
PO2:			
PO2	2.50	2.69	Target is achieved. Problem solving and analyzing skill developed through first and second year courses helps the students to apply in real life problems.
Action1: Target is achieved. Problem solving and analyzing skill developed through first and second year courses helps the students to apply in real life problems.			
Action 2: Visiting Industries develops complex engineering problems in their mind and try to find a solution.			
PO3: Statement as mentioned in Annexure I			
PO3	2.50	2.66	Target is achieved. Basic engineering courses needs to focus on the design and development of solutions
Action 1: Design based activities should be added in the core and basic engineering courses.			
PO4: Statement as mentioned in Annexure I			
PO4	2.50	2.65	Target is achieved.
Action 1: Activity based learning introduced to develop skills like problem solving, critical thinking, creation, interactivity focus and reflection among students.			
PO5: Statement as mentioned in Annexure I			
PO5	2.50	2.83	Target is achieved.
Action 1: Modern labs are developed to demonstrate the use of modern tools like MATLAB, Mathematica, Nano Lab, LabView etc to specify fulfillment of requirement in engineering applications in new industrial era.			
PO6 :Statement as mentioned in Annexure I			
PO6	2.50	2.83	Target is achieved. The courses address the needs of health, safety and social concerns regarding engineering practices in real life.
Action 1: Basic Science courses focuses on the health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO7:Statement as mentioned in Annexure I			
PO7	2.50	2.80	Target is achieved.
Action 1: Students are encouraged to indulge in the projects where global and environmental issues are concerned			
PO8:Statement as mentioned in Annexure I			
PO8	2.50	2.9	Target is achieved.

Action 1: To understand the social aspects, workshops is being conducted to expand their practical knowledge with the effect of improved practices in engineering along with the to professional ethics, responsibilities, and norms of the engineering practice. **Action 2:** Various Schemes like National Social Service Scheme help the students to be aware of their ethical principles and societal responsibilities.

PO9 :Statement as mentioned in Annexure I

PO9	2.50	2.75	Target is achieved. Students are very much able to work individual as well as in team
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Action 1: We inspire senior students to involve first year students in some multidisciplinary projects.

PO10 :Statement as mentioned in Annexure I

PO10	2.50	2.91	Target is achieved.
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Action 1: A number of technical/non technical events are organized round the year at school/university level where students are encouraged to participate in groups.

PO11 :Statement as mentioned in Annexure I

PO11	N/A	N/A	N/A
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N/A

PO12 :Statement as mentioned in Annexure I

PO12	2.50	2.73	Target is achieved.
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Action 1: The curriculum includes a component of the seminar in which the students are directed to prepare and present the details related to some of the emerging technologies. This helps them in lifelong learning of the technology and its various applications.

Action 2: PPTs, live demonstration of topic imparted using video lecture.

*Table
B.8.5.2*

Write similar action statements for relevant PSOs

PSO1: Statement as mentioned in Annexure I

2.50	2.75	Target is achieved
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Action 1: More emphasis may be given to design-based and analytical problems.
Action 2: Activity questions should follow competitive exams questions standard

CRITERION 9	Student Support Systems	50
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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 deemed to be University 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 issues (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 mentors' appointment	Dean/ Director	Beginning of semester	The notification intended to students to offer name and contact details of the 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.

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

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. No.	Type of feedback collected	Feedback on Curriculum, Teaching & learning	Feedback on facilities
1.	Process of collection	Online submission through SAP portal	Google form/ Through 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 given below 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

 KIIT UNIVERSITY <small>(Declared U/53 of UGC Act, 1956)</small> <small>Bhubaneswar, Odisha, India</small>						
FEED BACK FROM STUDENTS						
QUALITY ASSURANCE CELL						
Form No					KIIT/QAC/01	
Instructions:						
1 – Put a Tick (Ö) mark in the following table that reflects your choice.						
2 – Give your opinion based on your observation / experience with an open and unbiased mind.						
3 – Do not disclose your personal identity anywhere in the questionnaire.						
Name of the School & Branch						
Name of the teacher assessed						
Programme			Section	Semester		
Subject / Paper taught			Course 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 improved.					
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.					
RATING ON TEACHER			Excellent [5]	Very Good [4]	Good [3]	Average [2]
SUBJECT						Below Average [1]
GENERAL OBSERVATIONS						
6	Punctuality & Regularity in taking Classes					
7	Communication skills					
8	Delivery of structured lectures					

9	Completes the entire syllabus in time					
SKILL 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					
INNOVATIONS & 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.					
COMMITMENT & 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	Gives equal attention to all students					
24	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:						
(Authorized Signatory)						

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.

$$S_i = \frac{\sum^N m_i}{5N}$$

Where N represents the total number of students m_i is the mark assigned for i th component.

9.2.4 Basis of reward/ corrective measures, if any;

- 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.

$$S_k = \frac{\sum_{i=1}^N \sum_{j=1}^m P_{Q_{ki}}}{5N}$$

Where $P_{Q_{ki}}$ =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

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

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 Deemed to be University, 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 e-content.
- 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.
- **The institute has introduced a framework of learning activities which promotes self learning among students 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.

- 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 (Apogeo):** 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)Konnexions:** 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 group-

work, 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 Career School (CAAS).

9.5.1 Industry Engagement Cell (IEC)

9.5.1.1 Purpose

The Industry Engagement Cell (IEC), KIIT Deemed to be University 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 Deemed to be University 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 Career 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, Career 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.

❖ **Counseling for Higher Education (GATE/GRE, GMAT etc.)**

- 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.

❖ **Placement Training**

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. Note that it is subject to change in nature.

1st year

2nd 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, KSRRM, 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 bit 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 incubation) (Success stories for each of the assessment years are to be mentioned)*

KIIT Deemed to be university 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 Deemed to be University, 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	<ul style="list-style-type: none"> • Conducting outreach programs for idea spotting 	<ul style="list-style-type: none"> • Providing mentoring: human resources 	<ul style="list-style-type: none"> • Conducting training on marketing skills, finance etc.

		<ul style="list-style-type: none"> Validating viability/potential of various ideas 	<ul style="list-style-type: none"> Assistance in conducting marketing trails: marketing & related ideas 	<ul style="list-style-type: none"> Assistance in developing business growth strategy.
		<ul style="list-style-type: none"> Providing mentoring support 	<ul style="list-style-type: none"> Developing client entry & exit criteria 	<ul style="list-style-type: none"> Providing recruitment advice.
		<ul style="list-style-type: none"> Conducting business training program 	<ul style="list-style-type: none"> Conducting training on marketing skills, finance etc 	<ul style="list-style-type: none"> Customized mentor clinics for innovators on IP, Regulatory, Business, etc.
		<ul style="list-style-type: none"> Team Building resource planning 	<ul style="list-style-type: none"> Design Thinking Workshops 	<ul style="list-style-type: none"> Product Piloting & Launch
		<ul style="list-style-type: none"> Team Building resource planning 	<ul style="list-style-type: none"> Buisness Model Canvas 	<ul style="list-style-type: none"> Creating fund raising plan & building the runway the right way.
		<ul style="list-style-type: none"> Market opportunity Analysis 	<ul style="list-style-type: none"> Product design & Prototyping 	<ul style="list-style-type: none"> Product Sales strategy
		<ul style="list-style-type: none"> Competitive Landscape Analysis 	<ul style="list-style-type: none"> Product Validation 	<ul style="list-style-type: none"> Cost benefits Analysis
Sl No.	Support Features	FUNDING AGENCIES		
2	Funding support	The National Science and Technology Entrepreneurship Development Board (NSTEDB)	Technology Development Board, Department of Science & Technology (DST), GOI.	Biotechnology Industry Research Assistance Council.
		<u>TIDE</u>	<u>MSME</u>	<u>SIDBI</u>
		Technology Incubation & Development of Entrepreneurs Scheme, Department of Electronics & Information Technology (DeitY).	Ministry of Micro Small & Medium Enterprises, Government of India.	<u>Small Industries Development Bank of India</u>
		Invest India	Startup Odisha	Meity (Ministry of Electronics & Information Technology)

		India Health Fund	Public Serving Unit	Social Alpha
		Neotech Hub	Ankur Capital	IDEX
				Ministry of Defense, Government of India
		HDFC Bank	Design Alpha	Boeing
		Erasmus	Agnii	YES Bank
		Programme of the European Union		
		Department of International Development	CARPEDIEM	India Patent Foundation
	Infrastructure Support	1) Digital Fabrication lab-PRAYASHALA (Supported By DST)		
		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 Generated 170+	Product Commercialised 100+	Total External Investment Raised 13 Billion+
Total Valuation of start-ups -80 Billion	Direct Jobs Created 4500+	Technologies Developed 250+	Awards & Recognition by start-ups 90+
Total Start-ups supported 350+	Total Start-ups supported 352	Start-ups Graduated 160+	Stakeholders Partners 150+
Women led start-ups supported 70+	Products in the Market 90+	Mentors Engaged 200+	

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
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
27	22.09.2021 - 23.09.2021	Capacity building Training program on Innovation and Entrepreneurship	BRTC
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
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	Environmental 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 existing innovation in waste related to pharma based companies	Riya Roy
131	07.06.2022	Grassroot level existing 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
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 - 19.05.2022	IP Formation Workshop	Dr. Bhaskar Das
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 (corn cob, corn stalk, rice husk, rice straw) into self binding natural fiber through mechanical process.
Mr. Surjeet Singh Gour	IVEYS Innovation Pvt Ltd	Automation of Welding 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	INFINITY 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



World Cancer Day During COVID 19



Jal Diwas



Sanitary Napkin Distribution



Addhyayan (Teaching in Slum Area)



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 (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; Safety Measures To Prevent Home Accidents
2	20/2/2021	Awareness Campaign On Basic Hygiene And Sanitation At 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 To Get Vaccinated)
8	24/05/2021 to 31/05/2021	Observation of World No Tobacco Day
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 30/10/2021	Waste Management Week
37	1/11/2021	Awareness On Malnutrition
38	02/11/21 to 03/11/21	Campaign on Vocal For Local
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



World Cancer Day During COVID 19



Republic Day Camp



Republic Day Celebration



NSS Cadet received golden medal from Hon'ble Prime Minister



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	YEP
				(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	-
8	2018-19	CDT Yaashi Jain	i)AMC, Uttarkashi-2017	
			ii)BMC, Darjeeling-2016	
			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	
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	Army attachment Camp, Ramgarh,JH	
2022-2023				
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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 10 years	Target at 15 years	Implementation	Monitoring
Indexed publication per faculty	1.25	2.50	4	<ul style="list-style-type: none"> • Sustained motivation and institution of attractive research recognition system · Financial 	Review by IQAC in every six months. Brief report is

per year				award for faculty with average 5 publications per year	submitted to Registrar
Average cite score in Scopus indexed journals	2.73	4	6	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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%	<ul style="list-style-type: none"> Enhancing grant to travel Strengthening faculty exchange programs Strengthening effectiveness of MoUs 	Review by IQAC in every six months.

D. Industry and Academia Collaboration

Parameter	Present Status	Target at 10 years	Target at 15 years	Implementation	Monitoring
Number of MoUs	<ul style="list-style-type: none"> 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, student projects, student 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%	<ul style="list-style-type: none"> 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 Deemed to be University is given below.

10.1.3.1 Details of Governing bodies

Governing Body		
Board of Management	Memberships	List is attached (Cl. 10.1.3.2)
	Functions and Responsibilities	Descriptions given (Cl. 10.1.3.2 A)
	Frequency of meetings	4 times in a year
	Attendance	99%
Academic Council	Memberships	List is attached (Table 10.1.3.3)
	Functions and Responsibilities	Descriptions given (Section 10.1.3.3 A)
	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 (External)	Prof.(Dr.) M. C. Mishra, 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 Faculties	Prof. Saroj Kumar Mohapatra, Director, School of Management Prof. Biswajit Sahoo, Director, School of Computer Engineering
5.	Two teachers of the Institution	Maj. Gen. (Dr.) P. K. Pattnaik, Director General, KIMS Prof. Mrutyunjay Suar, Director General, R& D
6.	Nominee of the Sponsoring Society	Mr. S. Samir Panda, 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;
- 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);
- 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 immovable 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;
- To maintain a fund to which shall be credited:
- All moneys provided by the Central or State / UT Government / University Grants Commission;
- 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
- 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;
- 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.
- 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, Vice Chancellor	Chairperson
2.	Prof. Faizan Mustafa, Vice Chancellor, Nalsar, Hyderabad	External Member as Educationist nominated by Vice Chancellor
3.	Prof. Amol A Gokhale, Professor, IIT Mumbai	
4.	Dr. Sanghamitra Pati, Director, ICMR	
5.	Dr. Bhimaraya Metri, Director, IIM Nagpur	
6.	Mr. M. Sasikumar, Executive Director, C – DAC, Mumbai	
7.	Mr. Indrajit Sanyal, Head – Ericsson Global India, Kolkata	
8.	Mr. Amit Sharma, VP & Head HR, Volvo Group India, Bangalore	
9.	Mr. Suraj Chettri, 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 Principal, Kalinga Institute of Medical Sciences	Deans of the Schools / Head of the Departments
19.	Prof. Saranjit Singh Director, IEC	
20.	Prof. Saroj Kumar Mohapatra, Director, School of Management	
21.	Prof. Nishit Parida, Director, School of Rural Management	
22.	Prof. Veena Goswami, Director, School of Computer Applications	
23.	Prof. Bhavani Prasad Panda, Director, School of Law	
24.	Prof. Soumyendu Shankar Ray Director General, School of Architecture	
25.	Mr. Himansu Sekhar Khatua Director General, KSFT	
26.	Prof(Dr) Sudhir Kumar Satpathy, Director, School of Public Health	
27.	Prof. Jayanta Kumar Parida, Director, School of Social, Financial & Human Sciences	
28.	Prof. Biswajit Sahoo, Director General, School of Computer Engg.	

29.	Prof. (Dr.) Beerendra Pandey, Dean, School of Language	
30.	Prof. Prasant Rath, Dean, School of Applied Sciences	
31.	Prof. Satya Narayan Mishra Dean, School of Management	
32.	Prof. Sanjib Moulick, Dean, School of Civil Engg	
33.	Prof. Byamakesh Nayak, Dean, School of Electrical Engg	
34.	Prof. Bharat Chandra Routra, Dean, School of Mechanical Engineering	
35.	Prof. Suprava Patnaik, Dean, School of Electronics Engg	
36.	Dr. Srinivas Patnaik, Dean, School of Biotechnology	
37.	Prof. Biswa Bandita Kar, Dean, School Of Yoga	
38.	Prof. P. K. J. Mohapatra, Head, Department of Public Policy	
39.	Dr. Aswini Kar Principal, KIDS	
40.	Prof. Niyati Das, Principal, KINS	
41.	Academic Head KISS	
42.	Prof. Nirmal Kumar Rout Professor & Director (SRC) School of Electronics Engineering	
43.	Prof. Pradip Kumar Sarkar Professor, School of Law	
44.	Prof. Koustubh Kanti Ray, Professor, School of Management	
45.	Prof. Arun Kumar Ray, Director, Academics	
46.	Prof. Ashok Kumar Sahoo, Director, R & D (Technology)	
47.	Prof. Chinmay Kumar Panigrahi, Director, QA Cell	
48.	Prof. Samaresh Mishra, Director, Student Affairs	
49.	Prof. Benu Gopal Mohapatra, Director, Consultancy Services	
50.	Prof. Suresh Chandra Satapathy, Professor & Dean, R&D, School of Computer Engineering	
51.	Dr. Pramod Kumar Das, Professor, School of Applied Science	
52.	Dr. Ram Chandra Das, Professor, Dept of Psychiatry, Vice Principal, KIMS	
53.	Dr. Shruti Vishal Dev, Professor, KIDS	
54.	Dr. Krishna Padarabinda Tripathy Department of General Medicine, KIMS	
55.	Dr. Amaresh Mishra, Department of General Surgery, KIMS	

56.	Dr. Kabi Kant Samantaray, Department of ENT, KIMS	Associate Professors
57.	Dr. Dayanidhi Meher, Department of Endocrinology, KIMS	
58.	Dr. Tribikram Mohanty, School of Civil Engineering	
59.	Dr. Anita Pati, Dean, International Students Relations, School of Applied Science	
60.	Dr. Arindam Deb, School of Electronics Engineering	
61.	Dr. Visakha Raina, School of Biotechnology	
62.	Dr. Arup Abhinaa Acharya, Dean, School of Computer Engineering	
63.	Dr. Amulya Ratna Swain, Dean, School of Computer Engineering	
64.	Dr. Bhabani Shankar Prasad Mishra, Dean, School of Computer Engineering	
65.	Dr. Debashis Mishra, Department of Orthopedics, KIMS	
66.	Dr. Santosh Das, Department of Neurology, KIMS	Assistant Professors
67.	Prof. Tanmoy Roy Chaudhury, School of Electrical Engineering	
68.	Prof. Rishi Khanna, School of Electronics Engineering	
69.	Dr. Sanket Nayak	Alumni
70.	Ms. Nidhi Singh	
71.	Mr. Dipankan Bandopadhyay	Student
72.	Ms. B. Swetali Subudhi	
73.	Ms. Zikshita Patni	
74.	Prof. Jnyana Ranjan Mohanty, Registrar	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:
- measures for improvement of standards of teaching research and training;
 - institution of Fellowships, Travel Fellowships, Scholarships, Medals, Prizes etc.;
 - to recommend to the Board of Management, the establishment or abolition of departments/centres; and
 - 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.
 - To appoint sub-committees to advise on such specific matters as may be referred to it by the Board of Management;
 - To consider the recommendations of the sub-committees and to take such action as the circumstances of each case may require;
 - 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;
 - To recommend institution of teaching posts (Professors, Associate Professors and Assistant Professors) to the Board of Management; and
 - 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 Dean, School of Civil Engg.	1. Job chart of the functionaries i.e. SOP 2. Capital Assets 3. Personnel Administration Staff Description Service Book, Personal files and PARs Accountability and value addition 4. Office Management Attendance, Disciplinary action & Punctuality Security & Safety arrangement Registers - Cash Book - Bill Register & Drawal Register - Pay Acquittance Register - CL/EL Register Library Workshops & Labs Space Management Transport Management Office infrastructure Financial Management
Prof. Suprava Pattanaik Dean, School of Electronics Engg. Prof. Sarita Nanda Associate Dean, School of Electronics Engg.	
Prof. Bharat Chandra Routara Dean, School of Mechanical Engg. Prof. Nitin Sharma Associate Dean, School of Mechanical Engg.	
Prof. Byamakesh Nayak Dean, School of Electrical Engg	
Prof. Biswajit Sahoo, Director, School of Computer Engg. Prof. Bhabani Shankar Prasad Mishra, Dean 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	

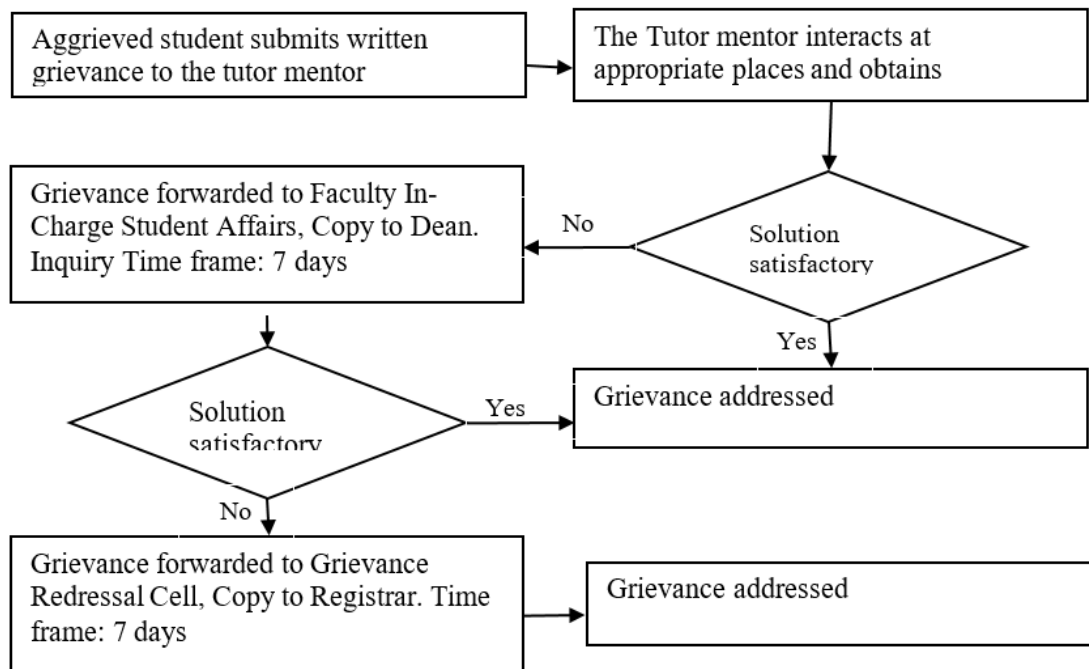
10.1.4.2: The mechanism and composition of grievance redressal cell including Anti Ragging Committee & Grievance Redressal forum for women

Grievance Redressal Cell	Mechanism	Description is given (Section 10.1.4.3 A)
	Composition	List is attached (Table 10.1.4.3)
Anti ragging Committee	Mechanism	Description is given (Section 10.1.4.4 A)
	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. Chamupati, 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)**

TASK	ACTIVITIES	Frequency
Publicity	Students' Orientation meetings	Annually twice
	Parents' meeting	Annually twice
	Mentees' meeting	Monthly once
	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	
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.	Dr. Sanghamitra Patnaik, Associate Professor, School of Law	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 Deemed to be University 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)

Table 1: CFY 2021-2022

Total Income in CFY:				Actual expenditure in CFY (till ...):			Total No. of students in CFY:
13,110,192,997				12,887,072,860			27071
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/ Any other, specify	Expenditure per student
10,321,676,032	-	99,470,484	2,689,046,481	8,563,501,905	4,237,170,169	86,400,785	476,047.17

Table 2: CFY 2020-2021

Total Income in CFY:				Actual expenditure in CFY (till ...):			Total No. of students in CFY:
11,824,872,825				11,441,886,391			27071
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/ Any other, specify	Expenditure per student
9,289,988,494	-	158,908,536	2,375,975,795	7,665,272,143	3,689,296,359	87,317,889	422,662.13

Table 3: CFY 2019-2020

Total Income in CFY:				Actual expenditure in CFY (till ...):			Total No. of students in CFY:
11,987,273,956				11,179,808,806			26024
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/ Any other, specify	Expenditure per student
9,688,277,517	-	250,060,636	2,048,935,803	8,076,983,610	2,857,898,348	244,926,848	429,596.10

Table 4: CFY 2018-2019

Total Income in CFY:				Actual expenditure in CFY (till ...):			Total No. of students in CFY:
11,108,869,700				10,862,572,394			25791

Fee	Govt.	Grant(s)	Other Sources	Recurring including Salaries	Non-recurring	Special Projects/ Any other, specify	Expenditure per student
			(specify)				
9,069,388,423	-	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	
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
Infrast ructur e Built-Up	3,310,700,000	3,214,966,639	2,805,200,000	2,712,182,771	1,738,200,000	1,680,213,522	2,614,900,000	2,566,245,419
Library	187,500,000	167,661,902	191,000,000	113,270,691	152,700,000	149,131,157	144,000,000	141,176,794
Labora tory equip ment	1,124,950,000	946,498,554	1,104,800,000	923,695,581	1,151,800,000	1,088,782,527	711,000,000	688,411,150
Labora tory consu mable s	365,250,000	361,522,577	350,000,000	245,985,223	405,500,000	395,457,887	270,000,000	265,225,724
Teachi ng and non-teachi ng staff salary	3,987,500,000	3,535,017,767	3,513,000,000	3,161,925,920	3,192,500,000	3,135,513,635	2,681,500,000	2,640,281,165
Mainte nance and spares	1,405,400,000	1,072,155,372	772,250,000	644,695,514	708,500,000	675,270,974	685,100,000	677,909,512
R&D	302,100,000	173,794,174	279,660,000	176,805,706	381,625,000	365,343,437	428,650,000	416,880,241
Trainin g and Travel	85,500,000	33,305,898	127,800,000	23,026,570	130,000,000	113,875,918	126,000,000	124,556,813
Miscell aneou s Expen ses	2,500,000	2,491,921	1,800,000	1,671,330	1,500,000	1,447,601	3,000,000	3,027,062
Others Specif y	4,092,800,000	3,379,658,055	3,931,590,000	3,438,627,085	3,969,000,000	3,574,772,147	3,288,650,000	3,338,858,515
	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

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 Income in CFY:		Actual expenditure in CFY (till ...):		Total No. of students in CFY:
334,504,166		332,462,142		763
Non-recurring	Recurring	Non-recurring	Recurring	Expenditure per student
55,267,000	279,237,166	77,108,753	255,353,389	435,730.20

Table 2: CFY 2020-2021

Total Income in CFY:		Actual expenditure in CFY (till ...):		Total No. of students in CFY:
326,178,899		299,466,749		754
Non-recurring	Recurring	Non-recurring	Recurring	Expenditure per student
51,704,000	274,474,899	73,760,677	225,706,072	397,170.75

Table 3: CFY 2019-2020

Total Income in CFY:		Actual expenditure in CFY (till ...):		Total No. of students in CFY:
362,630,648		339,928,622		751
Non-recurring	Recurring	Non-recurring	Recurring	Expenditure per student
49,614,000	313,016,648	76,052,026	263,876,596	452,634.65

Table 4: CFY 2018-2019

Total Income in CFY:		Actual expenditure in CFY (till ...):		Total No. of students in CFY:
352,352,592		330,610,633		759
Non-recurring	Recurring	Non-recurring	Recurring	Expenditure per student
51,617,833	300,734,759	66,902,524	263,708,109	435,587.13

Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3.

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
Laboratory equipment								
Software								
Laboratory consumable								
Maintenance and spares								
R & D								
Training and Travel								
Miscellaneous expenses *								
Total								

Table B.10.3b

*** Items to be mentioned.**

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
Laboratory equipment	55,000,000	48,875,696	55,000,000	48,621,882	58,000,000	55,469,524	42,100,000	41,084,090
Software	-	-	-	-	2,000,000	1,842,275	1,450,000	1,348,490
Laboratory consumables	12,000,000	9,797,262	13,000,000	6,666,200	11,000,000	10,716,909	10,000,000	9,574,649

Maintenance and spares	55,000,000	51,700,771	45,000,000	38,179,733	42,000,000	39,990,453	41,085,000	40,146,711
R&D	25,000,000	22,580,284	50,000,000	22,971,559	60,000,000	47,467,406	55,920,000	54,163,348
Training and Travel	2,500,000	1,728,836	7,500,000	1,241,312	7,000,000	6,138,801	6,880,000	6,714,585
Miscellaneous Expenses	250,000	165,688	250,000	111,127	250,000	96,251	220,000	201,269
Total	149,750,000	134,848,537	170,750,000	117,791,813	180,250,000	161,721,620	157,655,000	153,233,142

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 Deemed to be University 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, Management & Computer Application	Books Title	5137	4021	2895	2355	1335
	Books Volume	1,69,764	1,74,744	1,42,607	1,70,280	1,70,912
	Print Journals	314	408	595	595	571
	Online Journals	43,193+	29,031+	28,195+	28,117+	28,000+

1. Relevance of available learning resources including e-resources

E-Journals & Databases Collections:

- **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.
- **ASME:** 29 e-journals on Mechanical Engineering.
- **ASCE:** 38 e-journals on Civil Engineering.
- **ACM Digital University:** 61+ e-Journals and Magazines, 2537+ Scholarly Materials and Newsletters.
- **ABI Inform Complete:** 4,200+ e-journals and magazines on Business Management and allied subjects.
- **ProQuest Medical Sciences:** 594 e-journals on Health Science.
- **Wiley online Journals:** 12 e-journals from Dental Sc. & 1 e-journal from Architecture.
- **AAPD:** 2 e-journal on Dental Sc. Access available since 1998.
- **Fluoride Research:** 1 e-journal on Dental Sc. Access available since 1968.
- **JCO Online:** 1 e-journal on Dental Sc. Access available since 1967.
- **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).
- **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).
- **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.

- **Hein Online:** 31 e-journals on law and allied subjects.
- **Westlaw India:** 1174 + e-journals available in the database with cases, legislation forms & reports.
- **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.
- **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.
- **INDIASTAT:** Socio-Economic Statistical Information about India.
- **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.
- **ETIG:** Database on Macro-Economic and Sectoral Research.
- **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

- **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

- **Derwent Innovation:** Full text Patents from USA, UK, Australia, WIPO, France, Germany etc.

E-Books

- **E-Brary:** 1,36,268 + e-books
- **Thomson Reuter's E-Book:** 20 UK Books & 63 Indian Books on Law.
- **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 978-0-12-804291-5 The 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.
- **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

- **Web Centric Libsys 10:** Library Automation Software
- **D-Space:** IR Software
- **Turnitin:** Anti-Plagiarism Software
- **EndNote X8:** Citation Management Tool
- **SPSS:** Statistical Analysis Tool
- **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 e-content.
- 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:

- 1Gbps Internet connectivity from NKN (under NMEICT)
- 4 Gbps internet connectivity from Bharti Airtel Ltd.
- 4 Gbps internet connectivity from Powergrid.
- 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	5131	maximum 54Mbps data transfer rate, 802.11a/g radio, external antenna	200
2011-2012	Aruba	93	One 2x2 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 2x2 MIMO and four integrated Omni directional down tilt antennas with 802.11n	450
2013-2014	Aruba	105	Two dual-band 2.4-GHz and 5-GHz radios with 2x2 MIMO and four integrated Omni directional down tilt antennas with 802.11n	500
2015-2016	Aruba	205	Dual-radio, 867Mbps to 5 Ghz with 802.11ac leveraging two spatial MIMO streams	768
2017-2018	Aruba	305	Dual-band down tilt Omni-directional antennas for 3x3 MIMO with maximum antenna gain of 4.7dBi in 2.4GHz and 6.4dBi in 5GHz.	384
2017-2018	Aruba	315	Four integrated dual-band down tilt Omni-directional antennas for 4x4 MIMO with peak antenna gain of 3.6dBi in 2.4 GHz and 6.0dBi in 5 GHz.	128
2019-2020	Aruba	315	Four integrated dual-band down tilt Omni-directional antennas for 4x4 MIMO with peak antenna gain of 3.6dBi in 2.4 GHz and 6.0dBi in 5 GHz.	256

2019-2020	Aruba	515	Four integrated dual-band down tilt Omni-directional antennas for 4x4 MU-MIMO with peak antenna gain	15
2022-2023	Aruba	515	Four integrated dual-band down tilt Omni-directional antennas for 4x4 MIMO with peak antenna gain	320

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

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 LIII 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	Model	Qty	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	2	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

Declaration



Kalinga Institute of Industrial Technology (KIIT)

Deemed to be University

(Established U/S 3 of UGC Act, 1956)

Bhubaneswar, Odisha, India

Ref. KIIT/VC/MA/2023-02

Date 21/02/2023


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**

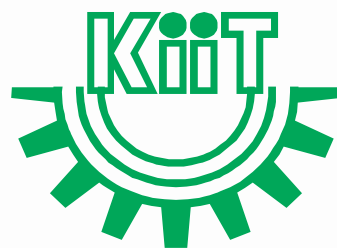
Engineering Graduates will be able to:

1. **Engineering knowledge:** Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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 design and implement electronic circuits, signal processing and communication systems in industry.
2. Ability to carry out research in fields of embedded systems, wireless and high speed communication, and advanced signal processing.
3. Ability to utilize the knowledge in solving practical problems in real life.



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