GITA Autonomous College, Bhubaneswar

SELF ASSESSMENT REPORT(TIER - I) FOR Electronics & Communication Engineering

Note: To save SAR in PDF Please click on print button and select destination as 'Save as PDF'. PLEASE SELECT LANDSCAPE MODE ☐

Part A : Institutional Information

1 Name and Address of the Institution

GITA Autonomous College, Bhubaneswar,
At - Sustaraghanathpur Po - Madanpur Via - Jatia Bhubaneswar

2 Name and Address of Affiliating University

3 Year of establishment of the Institution:

2004

4 Type of the Institution:

Institute of National Importance	Autonomous
University	Any other(please specify)
Deemed University	

5 Ownership Status:

Central Government	Trust
State Government	Society
Government Aided	Section 25 Company
Self Financing	Any Other (Please Specify)

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

Name of Institutions	Year of Establishment	Programs of Study	Location
Gandhi Institute of Engines	1997	B. Tech., M. Tech., MBA, MI	Gunupur, Odisha

7 Details of all the programs being offered by the Institution under consideration

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
M.Tech in VLSI Design	PG	2023	2023	18	No	18	Not eligible for accreditation	–	–	No	2
M.Tech in Advance Communication Technology	PG	2024	2024	18	No	18	Not eligible for accreditation	–	–	No	2
B.Tech in Electronics and Communication Engineering	UG	2004	2004	60	Yes	60	Applying first time	–	–	Yes	4

Sanctioned Intake for Last Five Years for the B.Tech in Electronics and Communication Engineering

Academic Year	Sanctioned Intake
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	60
2019-20	120

8 Programs to be considered for Accreditation vide this application

S.No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engineering
2	Under Graduate	Engineering & Technology	Electrical Engineering
3	Under Graduate	Engineering & Technology	Electronics & Communication Engineering
4	Under Graduate	Engineering & Technology	Mechanical Engineering
5	Under Graduate	Engineering & Technology	Computer Science and Engineering

9 Total number of employees

A. Regular* Employees (Faculty and Staff)

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	153	154	149	153	142	149
Faculty in Engineering (Female)	55	76	48	55	45	48
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	33	34	33	33	31	33
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	16	17	16	16	16	16
Non-teaching staff (Male)	222	222	222	222	222	222
Non-teaching staff (Female)	94	94	94	94	94	94

B. Contractual* Employees (Faculty and Staff)

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities teaching in engineering Programs (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities teaching in engineering Programs (Female)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (Female)	0	0	0	0	0	0

10 Total number of Engineering students

Engineering and Technology- UG	Shift1	Shift2
Engineering and Technology-PG	Shift1	Shift2
Engineering and Technology- Polytechnic	Shift1	Shift2
MBA	Shift1	Shift2
MCA	Shift1	Shift2

Engineering and Technology- UG Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	1952	1905	1880
Total no. of Girls	2278	1835	1536
Total	4130	3033	3360

Engineering and Technology- PG Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	102	84	65
Total no. of Girls	124	77	52
Total	226	161	117

Engineering and Technology- MBA Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	188	180	208
Total no. of Girls	163	170	166
Total	351	350	386

Engineering and Technology- MCA Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	186	153	150
Total no. of Girls	231	115	122
Total	418	268	272

11 Vision of the Institution

To foster prosperity through technological advancement by promoting education, innovation, and collaborative research, and to emerge as a globally renowned premier technical institution.

12 Mission of the Institution

1. To impart high quality professional education to students worldwide, fostering innovation, technological advancement, discipline, effective communication skills, and strong moral values.
2. To provide a broad-based education that ensures the holistic development of students.
3. To leverage expertise in science, technology, and management to deliver comprehensive training in visualizing, synthesizing, and executing projects.
4. To nurture a spirit of entrepreneurship and innovation among students.
5. To undertake sponsored research and offer consultancy services in industrial, educational, and other relevant domains.
6. To promote healthy practices such as community services, outreach initiatives, and innovative projects for societal benefit.

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

Head of the Institution	
Name	Dr. Mahalaxmi Kumar Road
Designation	Principal
Mobile No.	[illegible]
Email ID	[illegible]

NBA Coordinator, if Designated	
Name	Dr. Kishore Kumar Mishra
Designation	Dean Academics
Mobile No.	[illegible]
Email ID	[illegible]

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	95.01
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	185.00
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	47.40
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	972

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

1.1 State the Vision and Mission of the Department and Institute (5)

Vision of the Institute	To foster prosperity through technological advancement by promoting education, innovation, and collaborative research, and to emerge as a globally renowned premier technical institution.
Mission of the Institute	1. To impart high quality professional education to students worldwide, fostering innovation, technological advancement, discipline, effective communication skills, and strong moral values. 2. To provide a broad-based education that ensures the holistic development of students. 3. To leverage expertise in science, technology, and management to deliver comprehensive training in visualizing, synthesizing, and executing projects. 4. To nurture a spirit of entrepreneurship and innovation among students. 5. To undertake sponsored research and offer consultancy services in industrial, educational, and other relevant domains. 6. To promote healthy practices such as community service, outreach initiatives, and innovation projects for societal benefit.
Vision of the Department	To become a department of national and international repute by applying the latest evolution in the field of electronics and communication, research and development as well as imparting moral values to building engineers, thereby laying a strong foundation for transforming the future.
Mission of the Department	**Mission No.** — **Mission Statements** M1 — 1. To offer quality education so as to enable students to compete and succeed globally. M2 — 2. To provide excellent quality of education, through which creative solutions would be demonstrated as per social requirements. M3 — 3. To offer universal moral and value based education by promoting activities that address societal needs. M4 — 4. To create awareness for adhering to the ethical roots and knowledge creation as well as correspondence. M5 — 5. To impart pragmatic education for becoming a center of excellence leading to the generation and dissemination of knowledge in the field of electronics and communication.

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

PEO No.	Program Educational Objectives Statements
PEO1	1. Our graduates will apply their knowledge and skills to succeed in an electronics and communication engineering career and/or obtain an advanced degree.
PEO2	2. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customers' business objectives and/or productively engage in research.
PEO3	3. Our graduates will function ethically, responsively and will remain informed about all the developments of their professions.
PEO4	4. Our graduates will successfully function in multi-disciplinary teams.
PEO5	5. Our graduates will be able to perform competently in a diversified environment and individually, within a global, societal, and environmental context with ethical and moral behaviour.

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

The Vision and Mission of the Department of Electronics and Communication Engineering are prepared after meeting its consistency with the Vision and Mission of the Institution (GEC Autonomous College). As the interest in both sector, internal stakeholder plays an important role in the overall growth of our Department as well as our Institution, it is important to create the awareness about the Vision and Mission of our Department/Institution among them. To ensure reach each among all the stakeholders, the Vision/Mission of our Institution and Vision/Mission/PEOs of Department of Electronics and Communication Engineering are published and disseminated in the places as listed in a table below.

Particulars	Institution		Department		
	Vision	Mission	Vision	Mission	PEOs
Institution website (https://www.gita.edu.in/gitadept/ECE/min.jsp.hp (https://www.gita.edu.in/gitadept/ECE/min.jsp.html)	√	√	√	√	√
Principal's chamber	√	√			
Institution brochure	√	√			
HOD chamber	√	√	√	√	√
Departmental library	√	√	√	√	√
Department corridor	√	√	√	√	√
Faculty rooms	√	√	√	√	√
Class rooms	√	√	√	√	√
Laboratories	√	√	√	√	√
Seminar hall	√	√	√	√	√
Faculty course file	√	√	√	√	√
Student project diary	√	√	√	√	√

MM 1.1

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

The Department advisory board (DAB) constituted in the department is responsible for defining the Vision, Mission and PEOs of the Department. The Vision and Mission of the Institution is taken as a reference for the preparation of Vision and Mission of the department. In this regard, the DAB convenes the meeting of all the stakeholders regularly and receives suggestions about the Vision/Mission/PEOs from them. The DAB goes through the suggestions from various stakeholders and finalizes the Vision, Mission and PEOs which is in synchronization with the Vision and Mission of the institution. While finalizing the Vision/Mission/PEOs, it is ensured that it meets the requirement for overall growth of the Department and requirement of the society. Then the Vision/Mission/PEOs are widely circulated among various internal and external stakeholders for their awareness.

The Department Advisory Board (DAB) followed the steps listed below while preparing the Vision and Mission of the Department of Electronics and Communication Engineering.

1. The Vision and Mission of the institution is taken as a reference while preparing the Vision and Mission of the Department.
2. Suggestions and Feedback is received from internal as well as external stakeholders by the DAB.
3. Brainstorming on various suggestions and feedbacks received from different stakeholders is done by members of the DAB.
4. The DAB proposes a draft Vision and Mission of the Department and sends to the IQAC after approval from the Head of the Department.
5. The IQAC goes through the proposed Vision and Mission of the Department and suggest the changes if needed. Then the proposed Vision and Mission of the Department is sent to the governing body for final approval.
6. The approved Vision and Mission of the Department is widely circulated for their awareness among all the stakeholders.

The process for defining the Vision and Mission of the department is shown as a flowchart in Fig.1.

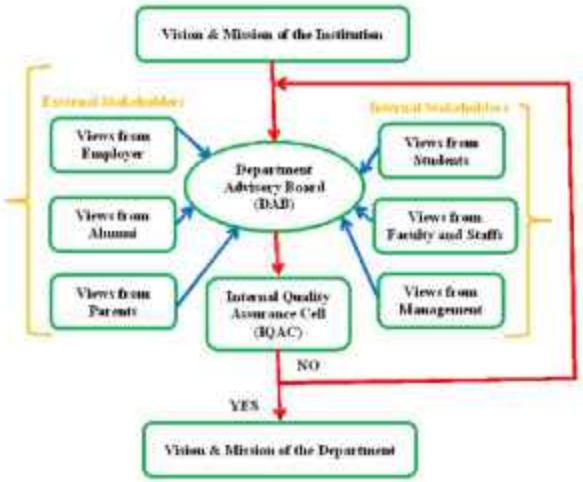


Fig.1.1. The process for defining the Vision and Mission of the Department

The Department Advisory Board (DAB) followed the steps listed below while preparing the Program Educational Objectives (PEOs) of the Department of Electronics and Communication Engineering.

1. The Vision and Mission of the Department as well as Program Outcomes (POs) defined by the National Board of Accreditation (NBA) are taken as a reference while preparing the PEOs of the Department.
2. Suggestions and Feedback is received from internal as well as external stakeholders by the DAB.
3. Brainstorming on various suggestions and feedbacks received from different stakeholders is done by members of the DAB.
4. The DAB proposes draft PEOs of the Department and sends to the IQAC after approval from the Head of the Department.
5. The IQAC goes through the proposed PEOs of the Department and suggest the changes if needed. Then the proposed PEOs of the Department is sent to the governing body for final approval.
6. The approved PEOs of the Department is widely circulated for their awareness among all the stakeholders.

The process for defining the Program Educational Objectives (PEOs) of the department is shown as a flowchart in Fig.2.

Fig.1.2: The process for defining the PEOs of the Department

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

Justification

PEOs	Mission	Justification
PEO 1	M1	Our graduates shall be able to compete internationally through fundamental knowledge and skill.
	M2	With the help of quality education in terms of the basic skill, graduates are able to produce creative solutions for the development of society.
	M3	Society will be benefitted from our graduates through their consciousness of moral values which is realized with the help of fundamental skills and knowledge.
	M4	Basic knowledge and skill of the graduates develop the understanding of both theory and practical of ethical code.
	M5	Graduates will generate and disseminate a new technology with the help of fundamental knowledge and skill.
PEO 2	M1	Graduates would compete globally and meet their objectives with the help of basic principles and practice.
	M2	Our graduates would be able to produce a creative solution by developing the basic principle and skills.
	M3	Graduates will be conscious of universal moral values by meeting the customer's business objectives.
	M4	The professional ethical code will be adhered to by our graduates by engaging through customers objectives.
	M5	With help of basic principles and practice of evaluating related to hardware and software, graduates would generate, and disseminate new ideas in the field of science and technology.
PEO 3	M1	Quality education in terms of responsibility and ethics leads to completing internationally and developing their own profession.
	M2	Responsibility of our graduates would make a creative solution as per the moral of society.
	M3	Ethically fraction shall make more conscious of the universal morals which lead to the development of society.
	M4	Development of profession would adhere to the professional ethical code which would help our graduates for developing the society.
	M5	The development of the profession in our graduates shall be creating knowledge for their excellence in the field of electronics and communication engineering.
PEO 4	M1	Graduates enlighten themselves through excellent education which helps them to do their work in a multidisciplinary environment.
	M2	Students work in a multidisciplinary environment that creates innovative ideas for societal development.
	M3	Working with multidisciplinary would produce a creative solution that will be useful for society.
	M4	Graduates working with multidisciplinary teams would be conscious of the professional ethical code.
	M5	Successfully working with multidisciplinary team would able to generate and disseminate their inner quality pertaining to electronics and communication engineering.
PEO 5	M1	Working in a diversified environment would help our graduates to compete internationally.
	M2	Graduates having ethical and moral behavior would be able to society with respect to the determination of right and wrong.
	M3	Graduates with strong moral values will be able to address needs of the society.
	M4	Working in a diversified environment may enhance the ethical code of our graduates which is necessary for society.
	M5	Graduates working in a diversified environment shall be creating a center of excellence in the field of Electronics and Communication Engineering.

Justification & Rationale:

- **Comprehensive Knowledge & Career Readiness:** The mission statements align substantially with PEO 1 & PEO 2, ensuring students develop strong fundamental knowledge and technical skills required for professional careers or advanced studies.
- **Practical Application & Research Competency:** The emphasis on high-quality education, societal needs, and knowledge dissemination correlates well with PEO 2 & PEO 3, ensuring students can effectively apply theoretical and practical knowledge.
- **Ethical & Social Responsibility:** The mission's emphasis on moral and value-based education aligns with PEO 3, PEO 4, and PEO 5, encouraging ethical behaviour and responsibility in professional environments.
- **Teamwork & Multidisciplinary Approach:** PEO 4 is supported through the mission's vision of holistic development, making graduates competent in working collaboratively across disciplines.
- **Global Competency & Diversity:** The mission statements ensure students are equipped to function successfully in a diversified, globalized professional environment, directly supporting PEO 5.

This mapping confirms that the mission of the Department of Electronics and Communication Engineering fully supports the PEOs, fostering a well-rounded engineering education that prepares its students for success in their careers, research, and society.

PEO Statements	M1	M2	M3	M4	M5
1. Our graduates will apply their knowledge and skills to succeed in an electronics and communication engineering career and/or obtain an advanced degree.	3	3	3	3	3
2. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customers' business objectives and/or productively engage in research.	3	3	2	3	3
3. Our graduates will function ethically, responsively and will remain informed about all the developments of their profession.	3	1	3	3	3
4. Our graduates will successfully function in multi-disciplinary teams.	3	3	3	3	3
5. Our graduates will be able to perform competently in a diversified environment and individually, within a global, societal, and environmental context with ethical and moral behaviour.	3	3	3	1	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

2.1 Program Curriculum (30)

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

Designing the program curriculum for the Department of Electronics and Communication Engineering, GITA Autonomous College, Bhubaneswar follows a structured and systematic approach to align with the guidelines set by different regulatory bodies like AICTE, NBA etc. It is also ensured that the guidelines set by the affiliating university i.e., BPUT, Odisha are also met. The program curriculum is planned in such a manner that, the educational objectives and outcomes are met. The key steps involved in the curriculum design process are:

1. Benchmarking with National and International Standards.

- Refer to AICTE Model Curriculum, UGC guidelines, IIT/NIT Syllabus.
- Align with industry requirements and advancements in technology.

2. Curriculum Framework Development.

- Define credit distribution as per regulatory norms (e.g., AICTE, UGC).
- Categorize courses into core, elective, laboratory, and project-based learning components.
- Incorporate Professional Ethics, Environmental Science, and Soft Skills training.

3. Stakeholder Involvement and Feedback.

- Gather inputs from faculty, students, industry professionals, alumni, and recruiters.
- Conduct workshops, academic advisory board meetings, and industry interactions.

4. Course Content Development

- Design syllabus structure for each course with learning objectives and outcomes.
- Include hands-on training, industry visits, and research-oriented components.

5. Curriculum Review and Approval

- The draft curriculum is reviewed by the Board of Studies (BoS) and modified based on recommendations.The Board of Studies (BOS) discusses the importance of the curriculum in view of industry standards and current trends.
- The minutes of BOS are presented in the Academic Council meeting. Approval from Academic Council and governing bodies of the institution is taken and curriculum is finalized.

6. Implementation and Continuous Improvement

- Introduce Outcome-based Education (OBE) methodology.
- Conduct periodic assessments through Direct and Indirect Assessment Tools.
- Continuous revision based on feedback and emerging trends in ECE.

This structured approach ensures that the ECE program at GITA Autonomous College meets the requirements of different regulatory bodies while maintaining academic excellence and industry relevance.

The BOS of the Department of Electronics and Communication Engineering makes additional efforts to impart knowledge not present in the syllabus by covering it through "Contents Beyond Syllabus". The content beyond syllabus is added by doing proper curriculum gap analysis.

Step-4: Program Assessment Committee (PAC) proposes draft curriculum / co-curricular changes based on the following:

- Department Vision and Mission
- Program Educational Objectives
- Inputs obtained from stakeholders
- Conclusions drawn from analysis of attainment of COs, POs, PSOs
- Guidelines of statutory bodies, such as, AICTE / UGC

Step-5: Conduct Board of Studies (BoS) meeting to finalize the curriculum and syllabi.

Step-6: Submit the curriculum to Academic Council for approval which is finally approved by Board of Governors.

The following figure gives the curriculum gap analysis process used to identify extent of compliance of program curriculum for attaining POs and PSOs.

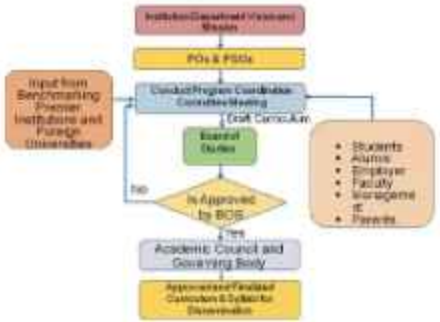


Figure2.1: Process for Curriculum Design

Program Assessment Committee

Program Assessment Committee (PAC) consists of Head of the department and senior faculty members. The course coordinators will recommend changes or revisions in the course content based on results of assessment of COs of the course. This committee coordinates the direct and indirect attainments of each course based on feedback from the course coordinators to revise the course content. The PAC monitors the day-to-day activities of the Department. The roles and responsibilities of PAC are as follows:

Monitoring the achievements of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs).

Coordinating with students for the achievement of POs, PSOs and PEOs.

Interacting with stakeholders regarding the improvement of POs, PSOs and PEOs.

Evaluating program effectiveness and proposing necessary changes.

Preparing periodic reports on program activities, progress, status or other special reports.

Motivating the faculty and students to interact with the outside world i.e., participate in seminars, workshops, conferences, developing projects / working models and engaging in research activities.

Department Advisory Board

The Department Advisory Board (DAB) is formed with the goal of creating a bridge between industry and academics considering the latest requirements of the industry and incorporating necessary components in the curriculum. This committee also guides PAC regarding overall development of the department. DAB is comprised of HoD, senior faculty members, Alumni, Parent, Industry and Academic experts. The roles and responsibilities of DAB are as follows:

- Finalize all academic activities of the department and forwarding to the IQAC by analyzing the report of the PAC and monitoring the progress of the program.
- Discuss current and future issues related to programs as per the guidelines.
- Develop and recommend new or revised program goals and objectives.
- Review the feedback given by various stake holders and course coordinators. Board of Studies Board of Studies (BoS) takes up planning of the curriculum and the implementation of syllabi. BoS comprises of Head of the Department as Chairman, Industry & Academia experts and Senior faculty members of the department.

The roles and responsibilities of the BoS are as follows

- Preparation of curriculum and syllabi for various courses
- Review and update the syllabi from time to time
- Propose methodologies for innovative teaching and evaluation techniques
- Coordinate teaching, research and extension activities in the department.

Academic Council

Academic Council scrutinizes and approves the proposals of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications. Academic Council recommends proposals of new study programmes to the Governing Body for final approval.

Board of Governors

The function of Board of Governors is to decide on the overall development of the Institute which includes infrastructure, resource allocation, welfare measures, institute scholarship, medals, prizes and certificates on the recommendations of academic council and approval of new programs for the institute.

3.1.2 Structure of the Curriculum (5)

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	
1	24ST[illegible]01	Engineering Mathematics-I	3	1	0	4	3	0	3
2	24ST[illegible]02	Engineering Chemistry	3	1	0	4	3	0	3
3	24ST[illegible]03	Basic Electronics Engineering	3	1	0	4	3	0	3
4	24ST[illegible]04	Functional English	2	0	0	2	2	0	2
5	24ST[illegible]05	Programming for Problem Solving using C	3	1	0	4	3	0	3
6	24ST[illegible]06	Engineering Chemistry Lab	0	0	2	2	0	1	1
7	24ST[illegible]07	Basic Electronics Engineering Lab	0	0	2	2	0	1	1
8	24ST[illegible]08	Engineering Graphics & Design Lab	0	0	2	2	0	2	2
9	24ST[illegible]09	Functional English Lab	0	0	2	2	0	1	1
10	24ST[illegible]10	Programming for Problem Solving using C Lab	0	0	2	2	0	1	1
11	24ST[illegible]11	Induction Training (10 Days)	0	0	0	0	0	0	0
12	24ST[illegible]12	Engineering Mathematics-II	3	1	0	4	3	0	3
13	24ST[illegible]13	Engineering Physics	3	1	0	4	3	0	3
14	24ST[illegible]14	Basic Electrical Engineering	3	1	0	4	3	0	3
15	24ST[illegible]15	Basics of Civil & Mechanical Engineering	3	1	0	4	3	0	3
16	24ST[illegible]16	OOPs using JAVA	3	1	0	4	3	0	3
17	24ST[illegible]17	Universal Human Values	2	0	0	2	2	0	2
18	24ST[illegible]18	Environmental Science	2	0	0	2	0	0	0
19	24ST[illegible]19	Engineering Physics Lab	0	0	2	2	0	1	1
20	24ST[illegible]20	Basic Electrical Engineering Lab	0	0	2	2	0	1	1
21	24ST[illegible]21	Workshop Practice	0	0	2	2	0	1	1
22	24ST[illegible]22	Business Communication & Life Skill Lab	0	0	2	2	0	1	1
23	24ST[illegible]23	OOPs using JAVA Lab	0	0	2	2	0	1	1
24	24ST[illegible]24	Bone Engineering	3	0	0	3	0	1	1
25	24ST[illegible]25	Engineering Mathematics-III	3	1	0	4	3	0	3
26	24ST[illegible]26	Data Structure using C	3	1	0	4	3	0	3
27	24ST[illegible]27	Organizational Behavior	2	0	0	2	2	0	2
28	24ST[illegible]28	Analog Electronics Circuit	3	1	0	4	3	0	3
29	24ST[illegible]29	Signals and Systems	3	1	0	4	3	0	3
30	24ST[illegible]30	Network Theory	3	1	0	4	3	0	3
31	24ST[illegible]31	Employability Skill-I	4	0	0	4	1	0	1
32	24ST[illegible]32	Constitution of India	2	0	0	2	0	0	0
33	24ST[illegible]33	Analog Electronics Circuit Lab	0	0	2	2	0	1	1
34	24ST[illegible]34	Signals and Systems Lab	0	0	2	2	0	1	1
35	24ST[illegible]35	Data Structure using C Lab	0	0	2	2	0	1	1
36	24ST[illegible]36	Mini Project-I	0	0	2	2	0	1	1
37	24ST[illegible]37	Electromagnetic Theory	3	1	0	4	3	0	3
38	24ST[illegible]38	Engineering Economics and Costing	2	0	0	2	2	0	2
39	24ST[illegible]39	Control Systems Design	3	1	0	4	3	0	3
40	24ST[illegible]40	Digital Signal Processing	3	1	0	4	3	0	3
41	24ST[illegible]41	Microprocessor and Microcontroller	3	1	0	4	3	0	3
42	24ST[illegible]42	Introduction to Machine learning	3	1	0	4	3	0	3
43	24ST[illegible]43	Essence of Indian Knowledge and Tradition	1	0	0	1	0	0	0
44	24ST[illegible]44	Control Systems Design Lab	0	0	2	2	0	1	1
45	24ST[illegible]45	Digital Signal Processing Lab	0	0	2	2	0	1	1
46	24ST[illegible]46	Microprocessor and Microcontroller Lab	0	0	2	2	0	1	1

47	24STECEP[illegible]yability Skill-II	0	0	2	2	0	1	1
48	24STECEP[illegible]Project-I	0	0	2	2	0	1	1
49	24STECET[illegible] Design	3	1	0	4	3	0	3
50	24STECET[illegible]System Engineering	3	1	0	4	3	0	3
51	24STECET[illegible]gen Digital Communication	3	1	0	4	3	0	3
52	24STECET[illegible]ess Communication	3	1	0	4	3	0	3
53	24STECET[illegible]uction to DBMS	3	1	0	4	3	0	3
54	24STECEP[illegible] Design Lab	0	0	2	2	0	1	1
55	24STECEP[illegible]System Engineering Lab	0	0	2	2	0	1	1
56	24STECEP[illegible]gen Digital Communication Lab	0	0	2	2	0	1	1
57	24STECEP[illegible]yability Skill-III	0	0	2	2	0	1	1
58	24STECEP[illegible] Lab II	0	0	2	2	0	1	1
59	24STECEP[illegible]ar internal (p)	0	0	4	4	0	1	1
60	24STECEP[illegible]Project-II	0	0	4	4	0	1	1
61	24STECET[illegible]t of Things	3	1	0	4	3	0	3
62	24STECET[illegible]ness and Antenna Engineering	3	1	0	4	3	0	3
63	24STECET[illegible]ate Networking and Internet Protocol	3	1	0	4	3	0	3
64	24STECET[illegible] Computing	3	1	0	4	3	0	3
65	24STECET[illegible] Image Processing	3	1	0	4	3	0	3
66	24STECET[illegible]ing System	3	0	0	3	3	0	3
67	24STECEP[illegible]t of Things Lab	0	0	2	2	0	1	1
68	24STECEP[illegible]ness and Antenna Engineering Lab	0	0	2	2	0	1	1
69	24STECEP[illegible]yability Skill – IV	0	0	2	2	0	1	1
70	24STECEP[illegible]ard	0	0	4	4	0	1	1
71	24STECEP[illegible]ehensive Viva	0	0	2	2	0	1	1
72	24STECEP[illegible]Project-III	0	0	4	4	0	1	1
73	24STPHST[illegible]Entrepreneurship Development	3	0	0	3	3	0	3
74	24STECET[illegible]Added System & Application	3	0	0	3	3	0	3
75	24STECET[illegible]Science	3	0	0	3	3	0	3
76	24STECET[illegible] Computing	3	0	0	3	3	0	3
77	24STECET[illegible]e sensing and IOS	3	0	0	3	3	0	3
78	24STECEP[illegible]ar internal (p)	0	0	4	4	0	1	1
79	24STECEP[illegible] Project	0	0	6	6	0	3	3
80	24STECEP[illegible]ard II	0	0	4	4	0	1	1
81	24STECEP[illegible]ship	0	0	14	14	0	8	8
82	24STECEP[illegible] Viva	0	0	4	4	0	2	2
83	24STECEP[illegible] Project	0	0	16	16	0	8	8
	Total	125	29	128	274	113	56	171

2.1.3 State the components of the curriculum (5)

Edit Save

Course Components	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	10	2400	11.00

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)

The curriculum for B. Tech. in Electronics and communication Engineering maintains a balance among various categories of courses from Science, Mathematics, Engineering, Humanities and Management, Projects, and Internship components. The syllabus for each course has been designed in compliance with the curriculum for attaining the POs and PSOs defined for the program

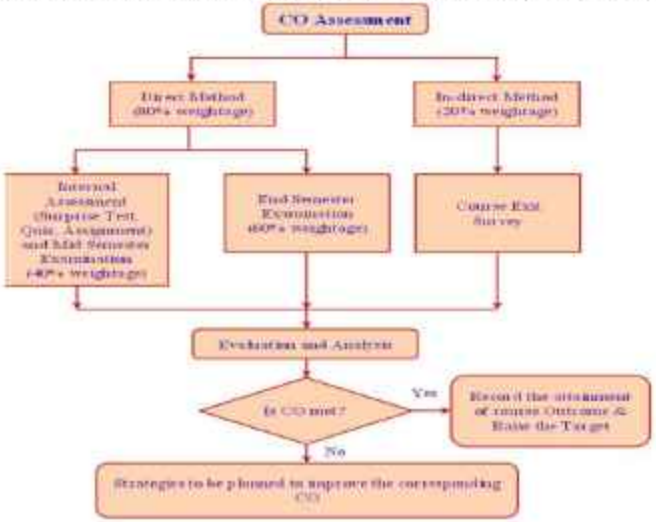


Figure 1.1.4: Procedure to determine the degree of curriculum conformity needed to attain course outcomes

Figure 1.1.4: Procedure to determine the degree of curriculum conformity needed to attain program outcomes and program-specific outcomes

PROGRAM OUTCOMES (POs)

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

PO 2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: 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 public health and safety, and cultural, societal, and environmental considerations.

PO 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.

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: 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.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with the 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.

PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 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 OUTCOME (PSO)

PSO 1: Should be able to understand the concepts of Electronics & Communication Engineering and their semiconductor technology, consumer electronics, embedded system, communication networking.

PSO 2: Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to communication engineering for solving real world problems.

PSO 3: Should have the capability to analyze, comprehend, design & develop electronic ecosystems/system applications and thus demonstrating professional ethics & concern for societal well-being.

Process used to identify extent of compliance of Curriculum for attaining POs and PSOs

Step1. Program curriculum and syllabus is approved by Board of Studies and the assessment of the curriculum and syllabus is done by internal and external members.

Step2. All courses of this program are mapped with the POs and PSOs along with their level of correlation: 1 (low), 2 (medium) and 3 (high).

Step3. It is ensured that all POs/PSOs are adequately covered by the courses being taught and each course is mapped to highly correlated level with at least one PO. It also ensured that all POs/PSOs have high correlation with adequate number of courses.

Step4. In the final curriculum, each of the POs/PSOs is mapped with the courses with good correlation.

Step 5: Feedback from Students, Parents, Recruiters, Industry, and Alumni are taken for indirect assessment. From the direct and indirect assessment, POs and PSOs are calculated.

PROCESS OF GAP ANALYSIS

This institute is affiliated to Biju Patnaik University of Technology (BPUT), Odisha. The course curriculum of Mechanical Engineering departmental has been provided by the university. Following is the process used to identify extent of compliance of university curriculum for attaining the POs and PSOs.

- Identify Course Outcomes for each subject
- Map each Course Outcome with POs and PSOs
- The GAP is analysed on the basis of the CO attainment of individual courses.
- The GAP is discussed in the Departmental Academic Committee (DAC) meeting and the content beyond the syllabus is prepared accordingly to bridge the GAP. These contents are delivered to the students through Tutorial and/or Remedial classes.

Sl. No	Gap	Action Taken	Date-Month-Year	Duration in Hrs.	Resource Person with Designation	% Of students	Relevance to POs, PSOs
1	Applications of IoT and Deep Learning	Guest Lecture	17-01-2024	8	Dr. M.K. Nath, Asso. Professor (NIT Puducherry)	100	PO1, PO2, PO5, PO9, PO12, PSO1, PSO2

	3	Electronics and Measuring Instruments	Guest Lecturer	09-11-2023	12	Er. Gobaj Panda, OPTCL	100	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
	4	PCB designing and simulation	Additional Class	11-11-2023 to 14-03-2024	8	Er. Biswajit Nayak, PNT service	100	PO1, PO2, PO3, PO5, PO12, PSO1, PSO2
		Art of Living	Additional Class	03-04-2024	4	Dr. Sushrata Dash, Associate Professor	100	PO6, PO7, PO8, PSO3
		SAMSYS.FLUENT	Additional Class	20-11-2023 to 25-11-2023	12	Prof. M.K. Rout, Principal	100	PO1, PO2, PO5, PO6, PO12, PSO1, PSO2
5		PYTHON	Additional Class	03-02-2022 to 09-02-2022	20	Prof.T.P Panigrahi	100	PO1,PO5,PO7

3.2 Teaching-Learning Processes (15)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning. (1)

Adherence to Academic Calendar:

The college calendar of events is derived from the BPUT university calendar, tailored to the specific needs of the department. Before the semester commences, faculty members responsible for teaching a subject prepare a lesson plan that outlines the course objectives and outcomes. This lesson plan is then approved by the Head of the Department (HoD) and made accessible to students. Additionally, it is published on the college website for transparency. The progress of syllabus coverage is meticulously tracked in the academic file, ensuring alignment with the lesson plan. The HoD closely monitors this process to verify that the syllabus is completed as per the plan.

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha)

Ref. GITA/BPUT/2021/ Date:05.11.2021

NOTIFICATION

LIST OF HOLIDAYS OF W.E.F. 08.11.2021 TO 31.12.2021 FOR THE YEAR 2021

(For the session of Even Sem A.Y.)

Sl.No.	Date	Day of the week	Name of the Festival/Occasion/Leave Days	No. of days
1.	08.11.2021	Monday	Bhai Tika/ Govardhan Puja	01
2.	19.11.2021	Friday	Prakruti Parikrama	01
3.	20.11.2021	Saturday	Sasthi Puja	01
4.	24.11.2021	Wednesday	Kumara Purnima / Kartik Purnima	01
5.	25.11.2021	Thursday	Maha Shivaratri-II	01
6.	26.11.2021	Friday	Holi	01
7.	27.11.2021	Saturday	Holi	01
8.	29.11.2021	Monday	Holi Leave	01
9.	30.11.2021	Tuesday	Holi Leave	01
10.	01.12.2021	Wednesday	Eid-ul-Zuha	01
11.	04.12.2021	Saturday	Raja Sankranti	01
12.	13.12.2021	Monday	Akhanda Saptami	01
13.	23.12.2021	Thursday	Christmas Eve	01
14.	24.12.2021	Friday	Christmas Day	01
15.	28.12.2021 to 31.12.2021	Tuesday to Wednesday	Dasara Leave to Annual Function	04
16.	01.01.2022	Saturday	Diwali	01
17.	02.01.2022	Sunday	Bhai Phonta	01
18.	03.01.2022	Monday	Chhat Puja	01
Total				26

Holi & Vacation Holidays falling on Sundays.

Principal
GITA Autonomous College, Bhubaneswar

ACADEMIC CALENDAR FOR THE SESSION 2021-2022

Odd Semester Activities	1st Semester	3rd Semester	5th Semester	7th Semester
Date of starting of instruction	07.10.2021 – 03.11.2021	17.01.2022 – 12.02.2022	11.10.2022	06.09.2022
Registration without fine	04.10.2021 – 08.10.2021	14.01.2022 – 18.01.2022	11.01.2022	11.01.2022 – 14.01.2022
Registration with fine of Rs 100/-	09.10.2021 – 13.10.2021	19.01.2022 – 21.01.2022	12.01.2022 – 13.01.2022	15.01.2022 – 17.01.2022
Teaching commences	07.10.2021 (A) – 11.10.2021	17.01.2022 – 19.01.2022	14.01.2022 – 15.01.2022	17.01.2022 – 21.01.2022
Class Test I	25.10.2021 – 29.10.2021	07.02.2022 – 11.02.2022	17.02.2022	14.02.2022 – 16.02.2022
Display of marks of Class Test I	01.11.2021	09.02.2022	21.02.2022	28.02.2022
Class test II	06.12.2021 – 10.12.2021	14.03.2022 – 18.03.2022	14.03.2022	04.04.2022 – 06.04.2022
Display of marks of Class Test II	13.12.2021	23.03.2022	31.03.2022	08.04.2022
Last date of uploading internal marks	17.12.2021	27.03.2022	13.04.2022	13.04.2022
Date of issuing of Hall Tickets	18.12.2021	28.03.2022	13.04.2022	13.04.2022
Date of conduct of Sem Examination	20.12.2021 (A) – 31.12.2021	04.04.2022 – 16.04.2022	14.04.2022 – 25.04.2022	18.04.2022 – 30.04.2022
Examination Break	11.04.2022	21.04.2022	11.04.2022	04.05.2022
Date of commencement of Classes for next Even Semester 2022-23	11.04.2022	21.04.2022	11.04.2022	04.05.2022
Date of publication of CGPA	05.01.2022	15.04.2022	25.04.2022	16.05.2022

Even Semester Activities	2nd Semester	4th Semester	6th Semester	8th Semester
Date of starting of instruction	08.03.2022 to 28.03.2022	19.04.2022 to 30.04.2022	08.04.2022 to 30.04.2022	25.05.2022 to 31.05.2022
Registration without fine	29.03.2022 to 31.03.2022	01.05.2022 to 03.05.2022	02.05.2022 to 03.05.2022	24.04.2022 to 26.04.2022
Registration with fine of Rs 100/-	01.04.2022 to 04.04.2022	04.05.2022 to 06.05.2022	04.05.2022 to 06.05.2022	27.04.2022 to 29.04.2022
Teaching commences	04.04.2022 to 06.04.2022	09.05.2022 to 11.05.2022	09.05.2022 to 11.05.2022	02.05.2022 to 04.05.2022
Class Test I	25.04.2022 to 29.04.2022	04.06.2022 to 08.06.2022	06.06.2022 to 10.06.2022	13.06.2022 to 17.06.2022
Display of marks of Class Test I	05.05.2022 to 07.05.2022	14.06.2022 to 16.06.2022	16.06.2022 to 18.06.2022	23.06.2022 to 25.06.2022
Class test II	23.05.2022 to 27.05.2022	02.07.2022 to 06.07.2022	04.07.2022 to 08.07.2022	11.07.2022 to 15.07.2022
Display marks of Class Test II	31.05.2022	09.07.2022	11.07.2022	18.07.2022
Last date of uploading internal marks	03.06.2022	13.07.2022	15.07.2022	22.07.2022 to 25.07.2022
Date of issuing of Hall Tickets	03.06.2022	13.07.2022 to 14.07.2022	15.07.2022	25.07.2022 to 26.07.2022
Examination Starts	06.06.2022	15.07.2022	18.07.2022	27.07.2022
Date of conduct of Sem Examination	06.06.2022 to 18.06.2022	15.07.2022 to 27.07.2022	18.07.2022 to 30.07.2022	27.07.2022 to 06.08.2022
Examination Break	-	-	-	-
Date of commencement of Classes for next Odd Semester 2021-22	21.06.2022 to 28.06.2022	01.08.2022 to 13.08.2022	01.08.2022 to 13.08.2022	
Date of publication of CGPA	28.06.2022 to 30.06.2022	13.08.2022 to 15.08.2022	13.08.2022 to 15.08.2022	10.08.2022 to 12.08.2022

Maintenance of Course files

[illegible]

Course File Content

[illegible]

For each course a course file is prepared by the concerned faculty. The course file consists of following items.

SL. NO	Items	Descriptions
1	Teaching plan	Teaching plans for each and every course are prepared by the faculty. Whole Syllabus is divided into 4 units and adequate amount of lectures as per the teaching hours prescribed by the university
2	Course Objectives	It provides an overall direction for the course. It should guide the development of specific learning outcomes. It emphasizes what students will gain rather than what the instructor will do. These are defined for each course in line with the PGs.
3	Lesson plan	A lesson plan is a structured guide that helps an instructor effectively deliver a lecture while ensuring that students meet learning objectives. Lesson plans are prepared by each lecture in the teaching plan by the faculty before the commencement of the semester and it is duly approved after careful examination by the Head of the Department and made available to the students. Lesson plan includes details about the topic, objectives, teaching methods, activities, and assessment strategies. It includes Course Title, Course Code, Lecture Number, Semester & Year.
4	Question Banks	Question banks are prepared for each topic in the course based on the course objectives and considering the nature of the university question papers. The previous question papers of University are also maintained in the course file.
5	Assignment questions	Unit and test question papers along with key solutions are included in the course files

GITA strictly follows the university schedule for examination including class tests and semester exams so that results are published at right time

Use of various instructional methods and pedagogical initiatives:

- Content Discussion

  The faculty use chalk, white board and some board, audio/video visual aids in teaching. Students are also encouraged to actually interact during the lecture hours by getting the doubts clarified on the spot. Faculty using models, charts for color active teaching

- **Real life examples**
- **Group Discussions**

  Faculties are using SMART class room for group discussion for any recent topic related to their curriculum.

- **Encouraging Bright students**

  Students are rewarded by cash prizes for achieving top position in semester exam and 100% attendance in class.

- **Assisting Weak students**

  Faculties are taking extra classes during evening hour for the clarification of doubt. Seminar and workshops are as arranged time to time for the encouragement of students.

- **Smart Rooms**

  Faculties are using SMART class room to interactive session. Projector is used for demonstration video (NPTEL), audio of classes.

- **Computer assisted learning**

  The College has required number of computers, printers, LCD projectors, application software's and system software's. These are effectively used for teaching. The students are also encouraged to develop software's for the solution of the assignments and tutorials. Many final year projects are completed through the use of software.

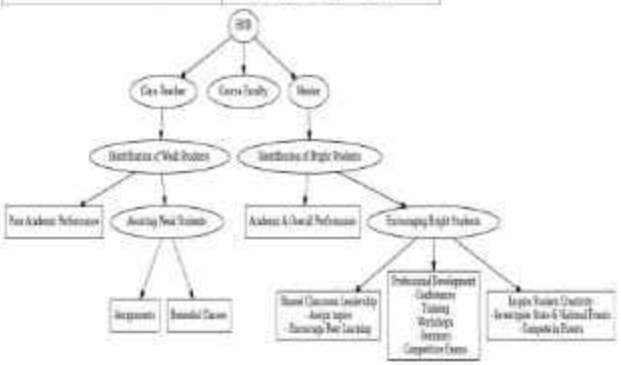
- **Study Tour**

  Students visit many industries like OPTCL SDLC Unit, STPI BHUBANESWAR, PPL, BSNL Airport, to gain real life Experiences.

Methodologies to support weak students and encourage bright students

Weak Students	
Identification criteria	Action taken
Students scoring less than 50% of marks in internal assessment	Students Counselor (proctor) follows their progress regularly advising students about attending classes, making up classes missed and getting additional help. Intimating the parents to counsel their wards. Conduction of remedial classes.
Diploma students who entered late into the main stream due to admission process	Conduction of bridger remedial classes.

Students who failed in semester exam	Conduction of extra classes to those who failed in previous semester subjects
Bright Students	
Identification criteria	**Action taken**
Students scoring more than 75% of marks in internal assessment as well as previous semester examination.	Students are felicitated in the annual function with highest percentage of marks in semester examination and having 100% of attendance. Reimbursement of registration fees, fundamental workshop, seminar etc.



Weak Students

- Extra Classes
- Credit clearing classes
- Group discussion
- Video Lectures
- Simulation Video
- Extra Practical Experiments

Bright Students:

- Letter of Appreciation
- Cash Prizes
- Free Registration for Attending Workshop and seminars

Quality of classroom teaching:

The faculty uses the following cutting-edge teaching strategies:

- Both students and instructors have access to computers for instruction and learning, as well as the internet.
- For efficient instruction, faculty members are utilizing resources such as NPTEL and online resources.
- LCDs, smart boards, and other devices are utilized in education.
- Online availability of various journals

Product of Experiments

Curriculum department 2 to 3 laboratory courses are scheduled from 1st to 7th semester. Students carry out more than the required number of experiments, beyond the minimum specified by the university. All laboratory have excellent facilities, both hardware and software based. For the experiments instructive manuals in detailed are provided. The observations are checked and verified by faculty and record books are maintained systematically. Two faculty members and one instructor are assigned for each practical class.

Continuous Assessment in laboratory:

Continuous assessment system is also implemented for assessment of laboratory work after each experiment. The assessment is done on the basis of submission of laboratory records, understanding of the experiment through oral vice voce questions and participation in performing the experiment. through oral vice voce questions and participation in performing the experiment.

Student feedback of teaching learning process and actions taken

At the end semester , all students are required to fill a feedback form appraising the faculty using a scale of 5 (high) through 1(low) . Format attached.

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Students Feedback Form

Over Student,

Your feedback is valuable in enhancing the quality of teaching and learning. Please take a few minutes to fill out this form sincerely. Your responses will remain confidential.

Section A: General Information

1. Name (Optional): _____
2. Roll Number (Optional): _____
3. Semester: _____
4. Course Name: _____
5. Course Instructor: _____
6. Academic Year: _____

Section B: Course and Instructor Evaluation

Please rate the following aspects on a scale of 1 to 5, where 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Sl. No.	Evaluation Criteria	1	2	3	4	5

1	Clarity of course objectives and learning outcomes	☐	☐	☐	☐	☐
2	Effectiveness of teaching methodology	☐	☐	☐	☐	☐
3	Instructors knowledge and command over the subject	☐	☐	☐	☐	☐
4	Ability to explain concepts with clarity	☐	☐	☐	☐	☐
5	Encouragement of student participation and discussion	☐	☐	☐	☐	☐
6	Use of real-world examples and applications	☐	☐	☐	☐	☐
7	Availability of course materials (notes, references, etc.)	☐	☐	☐	☐	☐
8	Effectiveness of assignments and evaluations	☐	☐	☐	☐	☐
9	Approachability and support from the instructor	☐	☐	☐	☐	☐
10	Overall effectiveness of the course	☐	☐	☐	☐	☐

Section C: Suggestions for Improvement

1. What did you like the most about this course?

2. What improvements would you suggest for the course content or teaching methods?

3. Would you recommend any additional topics or resources for future students?

4. Any other comments or feedback

Thank you for your valuable feedback! Your input will help us improve the quality of education.

Dean Academics
SITA Autonomous College, Bhubaneswar

	Name of the faculty	Subject	% of responses
1	Dr. DILIP KUMAR SATAPATHY	Mathematics	90%
2	Dr. PARIJADHA KUMAR LAHA	CLOUD COMPUTING	70%
3	Dr. SAMITA PATRA	Physics	90%
4	Dr. SUBHRANA PRADHAN	ENGLISH	85%
5	Dr. PAITHIGANATH ITAS	ACCOUNTANCY	90%
6	Dr. CHANDRA SEKHAR MISHRA	CHEMISTRY	80%
7	Dr. AMIT KHANTAL	ECONOMICS	90%
8	Dr. PARIJADHA KUMAR HOTA	ABC	82%
9	Dr. SRI ATA BARU	BANGLA	90%
10	Dr. ANUPAMA KUMARI SETH	BIOLOGY	90%
11	Dr. PRABEEN PRAKARTA PRADHAN	Environmental Engineering (Civil)	90%
12	Dr. SUDAN PANKAJ DAS	ENGLISH	80%
13	Mr. ANIRBAN DUTTA	Physics	90%
14	Ms. ROHATI NAYAK	ECONOMICS	85%
15	Mr. LAURENCE BISWOI	ECONOMICS	90%
16	Ms. LOPA NAYAK	ENGLISH	80%
17	Ms. PRITA NARAYAN SETH	Bengali	90%

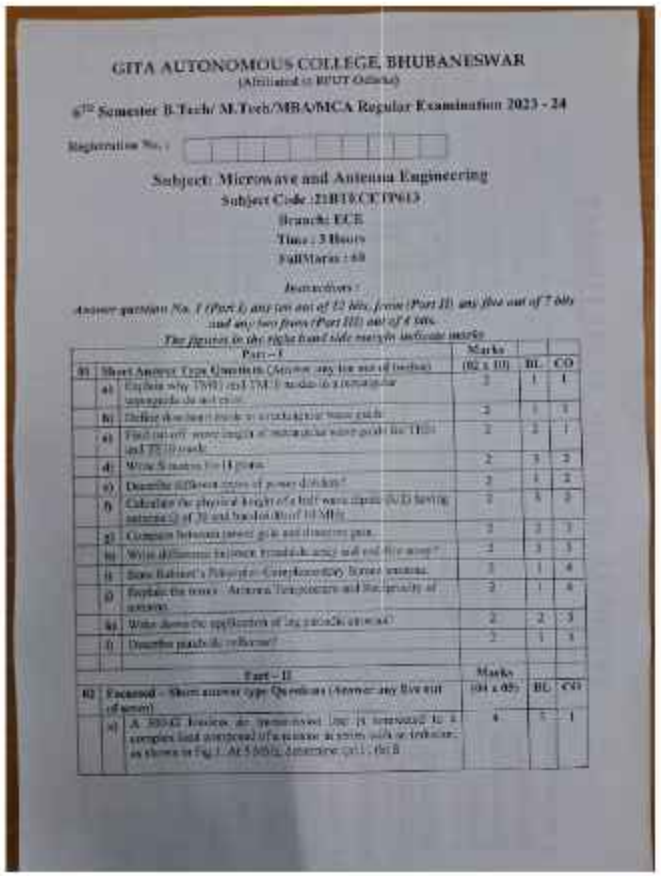
2.2.1 Quality of end semester examination, internal semester question papers, assignments and evaluation (75)

Process of internal semester question paper setting, evaluation and effective process implementation:

Setting of question:

The Controller of Examination invites from each of question for external examination. They finalize the exam set after independent subject expert evaluates the questions. The questions are made in three groups 1) Short Type Questions 2) Focused Short Type Questions 3) Long Type Question. Generally Long question have two to three sub parts and problematic questions.

Evidence of CO's coverage in End term tests



GITA AUTONOMOUS COLLEGE, BHUBANESWAR

(Affiliated to BPUT Odisha)

6TH Semester B.Tech/ M.Tech/MBA/MCA Regular Examination 2023 - 24

Registration No. :

Subject: Microwave and Antenna Engineering

Subject Code :21BTECET613

Branch: ECE

Time : 3 Hours

FullMarks : 60

Instructions :

Answer question No. 1 (Part I) any ten out of 12 bits, from (Part II) any five out of 7 bits and any two from (Part III) out of 4 bits.

The figures in the right hand side margin indicate marks.

		Part – I	Marks (02 x 10)	BL	CO
01		Short Answer Type Questions (Answer any ten out of twelve)			
	a)	Explain why TWT and TMT modes is considered appropriate as mentioned	2	1	1
	b)	Define slow wave mode in a rectangular wave guide	2	1	1
	c)	Find out the wave length of rectangular wave guide for TE10 and TE 20 mode	2	2	1
	d)	Write S matrix for H plane	2	3	2
	e)	Describe different types of power dividers?	2	1	2
	f)	Calculate the physical length of a half wave dipole (λ/2) having antenna Q of 20 and bandwidth of 10 MHz	2	3	2
	g)	Compare between power gain and directive gain	2	2	3
	h)	Write difference between broadside array and end fire array?	2	3	3
	i)	State Balmert's Principle (Complementary Screen) antenna.	2	1	4
	j)	Explain the terms : Antenna Temperature and Brightness of antenna	2	1	4
	k)	Write down the application of log periodic antenna?	2	2	3
	l)	Describe parabolic reflector?	2	1	3
		Part – II	Marks (05 x 05)	BL	CO
02		Focused – Short answer type Questions (Answer any five out of seven)			
	a)	A 300 Ω feeder is connected to a complex load comprised of resistance in series with a reactance as shown in Fig 1. At 5 MHz, determine (a) L, (b) S	5	5	1

Fig1

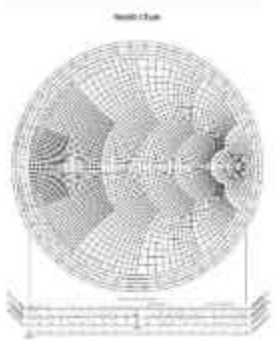
	b)	What is a circular wave guide? Write three applications of a circular wave guide.	4	2	1
	c)	A circular wave guide has a radius of 3 cms and is used to a resonator for TM011 mode at 10 GHz by placing two perfectly conducting plates at its two ends. Determine the distance between the two end points (refer Table 1).	4	2	2
	d)	Derive the relationship between Characteristic Impedance and Reflection coefficient.	4	2	2
	e)	Define gain of an antenna. Mention the relationship between gain and aperture of an antenna.	4	1	3
	f)	Explain directivity and its relation with half power beam width.	4	2	4
	g)	Explain different types of horn antenna. The aperture dimensions of a pyramidal horn are 12x8 cm and operating at a frequency of 10 GHz. Find the beam width and directivity.	4	2	5
		Part – III	**Marks**		
		Long Answer type Questions (Answer any two out of four)	**(10 x 2)**	**BL**	**CO**
03	a)	A 50-Ω feeder transmission line is terminated in a load with impedance 0.5 - 0.5 [illegible]. Find: (a) the reflection coefficient at the load. (b) the standing wave ratio on the line. (c) the input impedance.	6	2	1
	b)	Write Maxwell Equation in time domain and frequency domain.	4	1	
04	a)	An air filled rectangular wave guide of inside dimensions 7x3 cm operates in TE_{10} mode. a. Find the cutoff frequency. b. Determine the bottom wave length at 5.5 GHz. c. Determine the characteristics of the guide at the same frequency.	8	3	2
	b)	Define Q factor.	2	1	2
05	a)	A magnetic field strength of 5μA/m is required at a point at 8 mm, which is 2 km from an antenna in air. Neglecting ohmic losses, how much power must the antenna transmit? If it (a) A terminal pole of length λ/2.5 (b) A half-wave dipole	5	2	3
	b)	Find the dimensions effective area of a half wave dipole operating at 50 MHz. How much power is received with an incident plane wave of strength 2 mW/m?	5	3	4

(b)	a)	Discuss the construction and design of a sagittal antenna	5	2	4
	b)	Design a 3 element Yagi-Uda antenna to operate at a frequency of 200 MHz	5	3	5

NB : BL – Bloom Level 1, 2, 3, CO – Course Outcome, PO – Program Outcome, PSO – Program Specific Outcome

Table1. for P'_{mn} values for TE_{mn} modes in circular wave guide

m/n	m=1	m=2	m=3
n=0	3.832	7.016	10.173
n=1	1.841	5.331	8.536
n=2	3.054	6.706	9.969
n=3	4.201	8.015	11.346



End Sem Questions :

Questions	CO's/ PO's
Q1 a,b,c,d,e,f,g,h,i,j,k,l	CO1,CO2,CO3,CO4,CO5,PO2,PO3,PO4,PO5
Q2 a, b, c, d, e, f, g, h, i, j	CO1,CO2,CO3,CO4,CO5,PO2,PO3,PO4,PO5
Q3. a, b	CO1, PO3,PO4,PO5,PO6

Q4. a, b	CO2, PO3,PO4,PO5
Q5. a, b	CO3, PO3,PO4,PO5,PO7
Q6. a, b	CO4,CO5, PO3,PO4,PO5

Evidence of COs coverage in mid term tests

Third Semester: Signal and System

Admission Batch: 2023 Branch:ECE

Question	Course Outcomes
1.a,b,c,d,e,f,g,h,i,j	CO1, CO1,CO1,CO2, CO2, CO2,CO2 CO3CO3,CO3
2.a,b,c,d,e	CO1,CO1,,CO2, CO2 CO3
3.a,b	CO1,CO1
4.a,b	CO2,CO2
5.a,b	CO3, CO3

Assignment question sample:

MIDTERM QUESTION SAMPLE:

*BTL - Bloom's Taxonomy Level, *CO- Course Outcome

----------*ALL THE BEST*----------

3.3.3 Quality of student projects (25)

Edit Answer

Identification of projects and allocation methodology to Faculty

Step 1: Project Selection Process

1. Align project topics with the department's mission, vision, and program outcomes.
2. Faculty members provide guidance on various project fields.
3. Display the list of previous projects on the notice board to prevent repetition and encourage enhancements.

Step 2: Faculty Allocation and Project Coordinator Assignment

4. Display a faculty expertise list along with the name of the project coordinator responsible for project management.
5. Students from groups (maximum of 5 members) and submit an application to the project coordinator, specifying:
   - Group members' names
   - Preferred project area

Step 3: Student-Guide Assignment

6. The project coordinator compiles a list of student groups.
7. In consultation with the Head of the Department (HOD), the project coordinator assigns faculty guides based on expertise and student preferences.

Step 4: Project Execution Support

8. Faculty encourages students to pursue real-house projects and provides the necessary software and hardware support.

Step 5: Participation in Exhibitions & Publications

9. Students are encouraged to participate in project exhibitions to showcase their innovations.
10. Faculty motivates students to publish their project work in reputed journals/conferences.

Step 6: Process of monitoring and evaluation

Step-1: Students are asked to conduct a literature survey and prepare a report

Step-2: Presentation on literature survey carried along with working principles and specifications (if any)

Step-3: Student applies for sanction through the proper channel

Step-4: Prepare the full working project and test it through the corresponding guide within time before the date of evaluation

Step-5: Invite external(s) (two) from other universities

Step-6: Appear the evaluation before external for final assessment

- Project students should meet the respective guides weekly once and be asked to explain the progress they have done in their project that week.
- They should submit a weekly project progress report weekly once and get approved by the respective guide.
- The project guides will evaluate the progress of each student.
- The project guide will observe each student in the track and rates them each in the right way.
- The following committee members are responsible for making the regulations for evaluation and for the complete evaluation process.
- Prof. Tapas Kumar Patra, Dept of Electronics and Instrumentation, CUTM, Bhubaneswar(External)
- Prof. . Dilip Kumar Nayak(HOD Dept. of ECE)
  - Prof. P.P. Pradhan(project coordinator)
  - Prof.Pot.Dalai(Internal)
  - Prof. S.Mishra(Internal)

Distribution of marks for project

Sl.no.	Performance indicator	Marks(external)	Marks(internal)
1	Understanding Relevance,scope and dimension of the project	5	5
2	Relation with nature application	5	5
3	Methodology	5	5
4	Quality of analysis and results	5	5
5	Interpretation and conclusion	10	10
6	Report	10	10
7	Defense	10	10

PROJECT DETAILS

Sl No	Name of the project		PSOs	POs
1	Health Monitoring System using Fingerprint display & Atmega Microcontroller	Debapriya Soumyaranjan Samal, Satyakant Sahoo , Swaraj Rout, Sunanda Padamayati, Rajat Kumar Sharma	PSO1, PSO3	2,3,4,5,7,12
2	Arduino and IoT based smart car parking system	Ashirbad Mahapatra, Subhakanta Pangrahi , Mir Fayazuddin , Bhabha Behera Soubhagya Kumar Samal, Dibya Ranjan Das	PSO1, PSO3	2,3,4,5,7,12
3	Traffic Management and Prediction using IoT	Sunny Kumar Ayushman Kumar Satyakeed , Bibi Raj Abhijit Das	PSO1, PSO3	2,3,4,5,7,12
4	Smart Energy Meter	Abhilipsa Purnas Sneh Singh , Basudeb Behera Prasad Mahanty, Rishi Kumar Sah	PSO1, PSO3	2,3,4,5,7,12

5	Line Follower Robot	Akanksha Raj Raushan Kumar Ankit kumar Nayak Rakesh Kumar	PSO1, PSO2	2,3,4,6,7,12
6	Face Recognition Attendance system	Abhay Kumar Gautam Ashutosh Pandey Amit Kumar Avinash Agnihotri	PSO1, PSO3	1,2,3,4,5,10,11
7	Automated Waste Incl Detection system	AMLAN KIRAN SAHU ANISHA ROUTRAY ANJALI KUMARI AAYUSH SINHA BIBEKANANDA JENA	PSO1, PSO2	1,2,3,4,5,10,11
8	Detection of Smart Alcohol System Intended for CAR.	BIGHNARAJ DAS DHANANJAY KUMAR SETH GAURAV KUMAR SINGH GOURAV KUMAR HOTA HIMANSU SAHOO	PSO1, PSO2	1,2,3,4,5,10,11
9	Vehicle Number Plate Detection Using MATLAB	M GOURAV KUMAR NEERAJ KUMAR NIHARIKA MISHRA PRALIPSA NAYAK PRANAB ROUT	PSO1, PSO2	1,2,3,4,5,10,11
10	Automatic Certificate Generation Using MATLAB	MD ARIF SMRUTI RANJAN SWAIN SNEHASIS HJI SRISTY KUMARI SUBHAJIT PAHARI	PSO1, PSO2	1,2,3,4,5,10,11
11	GETvAlyst- An Smart IoT enable	Anisuman Mishra Pintu Kumar Subhashree Panda Priyanka priyadarshini Jena Nerve Sahar	PSO1, PSO3	1,2,3,4,5,10,11
12	Ultrasonic based obstacle avoidance car with fire extinguisher	Subhra Snehal Raut Gaurav Sharma Dhiraj Pinturaj Prusty Ravinder Singh	PSO1, PSO2	3,3,4,5,8,10
13	Automation irrigation System	Rahul Kumar Rahul Kundu Anupam Jena Sandeep Yadav Nitish Kumar Suraj Kumar Mishra	PSO1, PSO2	2,3,4,5,8,10
14	Smart Petrol Card	Siddhi Nishanth Sonvat Deddha Mishra Mrityunjay Mahato Lipsa Barik Prabhansh Raj	PSO1, PSO3	2,3,4,5,8,10
15	Rubiks Cube Solver	Raj Raj Singh Shivendu Barik Biswajit Biswal Soumitra Behera Anil Ashirvadh Badajena Dipti Ranjan Behera	PSO1, PSO2	1,2,3,4,5,10,11
16	Using MATLAB to Measure the Diameter of an Object within an Image	ABHIJIT PAREJA ABHISHEK ANAND ABHISHEK DAS ABHISHEK KUMAR PRASAD	PSO1, PSO2	2,3,4,5,7,12
17	Hand Gesture Recognition	BIBHAYA KUMAR DASH CHANDAN LAL THAKUR CHANDAN JENA CHANDRA PRERNA D.MOHAN KUMAR	PSO1, PSO2	2,3,4,5,7,12
18	Basic operation of image processing using MATLAB	DEEPAK KUMAR MAHAK DEEPAK KUMAR PRADHAN DEVI PRASAD SWAIN GYDHULI RUTUPARNA JITENDRA BEHERA	PSO1, PSO3	1,2,3,4,5,10,11

19	Crop Monitoring System	AMLAN KIRAN SAHU ARPITA ROUTRAY ANJALI KUMARI AYUSH SINHA BIBEKANANDA JENA	PSO1, PSO2	2.3,4,5,8,10
20	Humanoid for hospital	ADEEB AHMAD SIDDIQUI AJIT KUMAR PANDA AKASH KUMAR NAYAK ALOK KUMAR SAHU BIDHUN SANJIPAO WANGKHAR	PSO1, PSO2	2,3,4,5,8,10
21	Facial expression recognition	DEEPAK KUMAR NAYAK DEEPAK KUMAR PRADHAN DEVI PRASAD SWAIN GODHULI RUTUPARNA JITENDRA BEHERA	PSO1, PSO2	2,3,4,5,8,10
22	Iot based home automation	Dilip kumar L Meena Amisha barar, rakhee dash, aditya kanar	PSO1, PSO2	2,3,4,5,8,12
23	Sentiment and depression analysis Using machine learning	Suray Kumar Ayushman Kumar Satyashed Rita Ray Abhijit Das	PSO1, PSO2	2,3,4,5,7,12
24	Design of re configurable MIMO antenna for cognitive radio application	Anusree Meena Pintu Kumar Tatikondrao Pamila Priyanka priyakeerthi Jena Nawa Nebiat	PSO1, PSO2	1,2,3,4,5,10,11
25	Air Quality Monitoring System	BIMAL KUMAR BEHERA BISWAYA KUMAR DASH CHANCHAL THAKUR CHANDAN JENA CHANDINI PRERNA	PSO1, PSO2	2,3,4,5,7,12
26	Automated Car Parking Indicator System	DEVI PRASAD SWAIN GODHULI RUTUPARNA JITENDRA BEHERA PRITAM PADHARI RAJAT KUMAR SHARMA	PSO1, PSO2	2,3,4,5,7,12
27	Detection of Abandoned Objects in Crowded Environments	DEEPAK KUMAR PRADHAN DEVI PRASAD SWAIN GODHULI RUTUPARNA JITENDRA BEHERA PRITAM PADHARI	PSO1, PSO2	2,3,4,5,7,12
28	Smart Blind stick	Anjali kumari Aditya Behera, Ashutosh Mohapatra, Pratigya Nayak,Ranit singh	PSO1, PSO2	2,3,4,5,7,12
29	Earthquake Detection	Dilip kumar L Meena Amisha barar, rakhee dash, aditya kanar	PSO1, PSO2	2,3,4,5,7,12
30	IoT based Bike Energy Meter	Abhijeet Pandit Swati Singh Saroj Kumar Behera Prasad Mahanty Rahul Kumar Sah	PSO1, PSO2	2,3,4,5,7,12

2.3.4 Initiatives related to industry interaction (10)

Industry specific laboratories :

To meet industry requirements and prepare ECE students for real-world challenges, several specialized laboratories have been established. These labs provide hands-on, industry-oriented training using the latest technologies and tools. Some key industry-supported labs for ECE include

- **VLSI Design Lab** – Focused on designing and simulating complex circuits, microcontrollers, and FPGA programming.
- **Internet of Things Lab** – Provides hands-on experience with IoT devices, sensor networks, and wireless communication protocols.
- **Digital Signal Processing Lab** – Equipped to train students in digital signal processing (DSP) techniques and real-time applications by MATLAB
- **Microprocessor and Microcontroller Lab** – Dedicated to circuit design, implementation, and testing using industry-relevant hardware

Industry involvement in the program design and Curriculum :

MOU's are done with different industries in emphasize on Internship, student training, and faculty training etc. The list of MOUs signed with different industries are mentioned below.

Sl. No.	Company Name	Purpose
01	Garuda Aerospace Pvt. Ltd.	Internship, Student Training, Faculty Development
02	Rotary Automation Pvt. Ltd.	Internship, Student Training, Faculty Development
03	ULTRON Technology Pvt. Ltd.	Internship, Student Training, Faculty Development
04	Accelerons Pvt. Ltd.	Internship, Student Training, Faculty Development

Impact analysis of industry-institute interaction and action taken

- New innovative ideas are born for project work
- Skills or abilities of students improved.
- Knowledge of various aspects of skills was developed
- The confidence level of the students was boosted in campus interview
- Improved team work spirit
- Implementation and deployment of the project for social benefits
- Document preparation and presentation
- More tendencies to showcase their project work in project exhibitions were observed.

Industrial Visit

Sl. No.	Year	Industry visit Details	Date of Visit
1	2023-24	[illegible]	7-03-24
2	2017-18	[illegible]	[illegible]
3	2022-2023	[illegible]	[illegible]

Workshop Every academic year, the department organize programs to give students practical experience in a particular field. Students can learn and experience the newest technology through these workshops.

HACKATHON: The Department of Electronics and communication Engineering participated in the internal Smart India Hackathon-2024 on Dt. 03.09.2024 and 04.09.2024. Seventy-five teams submitted and showcased their creative concepts in this competition. Short teams were selected from among these 08 teams to submit their concepts on the SIH portal.

2.2.4 Initiatives related to industry interaction/summer training (10)

Additionally, our students want to industrial training facilities and engaged in practical exercises using a range of technologically advanced equipment.
During their summer break, students are encouraged to enroll in internship programs. Faculty members provide guidelines, recommendations, internship scope, and contact information. In addition to faculty, the training department assists students by connecting them with industry professionals, supplying recommendation letters, and providing other required assistance. Alumni who are currently employed in the fields are frequently contacted by the alumni coordinator, who asks them to supply the required instructions and assistance for their juniors' internship. The list of students who completed an internship and industrial summer training is shown in the following table.

Year -2024

Regd.No.	Name	Internship details
2101287505	ABHAY KUMAR SHARMA	C++ & Data structure, internship station:ONLINE
2101287505	ABHIJIT DAS	PLC and weighting system , TATA STEEL, JAMSHEDPUR
2101287504	ABHILIPSA PANDA	PYTHON,GTTC,BBSR
2101287505	AKANKSHA RAJ	TELECOMM AND EXCHANGE SYSTEM, MECON
2101287506	AMIT KUMAR	Operational and Technical process in IT Dept,TATA POWER JAMSHEDPUR
2101287507	ANISH APOORVA	Web development,At Division,ASTESONLINE
2101287509	ASHRSAD MOHAPATRA	E&I - PDTI,INF, NACO,Angul
2101287510	ASHUTOSH PANDEY	PLC Designing,SIEMENS ,Jharkhand
2101287511	ANISH KUMAR TIWARI	Server name&Model,Lucent PBX, SAIL,BOKARO
2101287512	AYUSHMAN KUMAR	Web development,At Division,ASTESONLINE
2101287513	BARNARANI BEHERA	JAVA,CORE,GTTC,BHUBNESWAR
2101287513	DESAPRIYA SOUNYARANJAN SAMAL	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR
2101287514	BIBYA RANJAN DASH	AI and Cloud Computing
2101287517	MIR KHAZIUDDIN	Artificial Intelligence and Machine Learning,GTTC,BBSR
2101287518	PRASAD MOHANTY	Air and Flue gas system,NTPC
2101287518	RAVEESH KUMAR	Server name&Model,Lucent PBX, SAIL,BOKARO
2101287520	RAJSHAN KUMAR	East Central Railway, Hajipur
2101287521	RISHI KUMAR SAH	AI and Cloud Computing
2101287522	RITIK RAJ	Fintons Data Prodigy Infotech, ONLINE
2101287524	SATYASHEEL	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR
2101287526	SOUBHAGYA KUMAR SAMAL	Innovation in HALCO SMELTER PLANT,ANGUL
2101287527	SUSHAKANTA PANIGRAHI	Operation of smelter pour plant,HALCO
2101287532	UMANTA GADANAYAK	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR
2101287535	VIJAY KUMAR	Vocational Training of Mukeshwar Nevin, NTPC, Bhagalpur
2101287538	VIPIYAKAVIT SAHOO	AWS Cloud, WEAT Cell,KIOTE
2101287539	SWARAJ ROUT	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR
2101287539	ANTI SINGH	PYTHON,Cadsoft
2101287004	JITENDRA BEHERA	PYTHON,LOGAC
2101287505	PRITAM PADHIARI	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR
2101287551	RAJAT KUMAR SHARANA	CNS in AAI, AIRPORTS AUTHORITY OF INDIA,BBSR

year-2023

Regd.No.	NAME	COMPANY NAME
2001287494	Anusuya Mishra	OCTANE SERVICE PVT LTD
2001287478	Pintu Kumar	STEMROBO TECHNOLOGY
2121287104	Sashashree Parida	InternPe
2121287102	Priyanka priyadarsini Jena	STEMROBO TECHNOLOGY
2121287100	Nikun Nahar	OCTANE SERVICE PVT LTD
2121287101	Priyana Patra	Sylfex Techno Solution
2001287500	Sashes Gadtiak Pital	InternPe
2001287477	Gaurav Shankar	InternPe
2001287496	Akruti	InternPe
2001287502	Pritisree Prusty	OCTANE SERVICE PVT LTD
2121287103	Rajaniay Singh	InternPe
2001287493	Rahul Kumar	Sylfex Techno Solution
2001287494	Rahul Verma	Johnson Controls
2001287499	Anupam Jena	InternPe
2001287481	Sandeep Yadav	OASIS INFOBYTE
2001287512	Nitish Kumar	Skyfella Tech
2001287501	Sanjukumar Mishra	Devagi Software Pvt. Ltd.
2001287499	Sneha Mohanty	InternPe
2001287482	Sanuti Sridatha Mishra	InternPe
2001287490	Mrityunjay Mahato	InternPe
2001287498	Liwa Bara	InternPe
2001287492	Prathmesh Raj	InternPe
2001287496	Ritu Raj Singh	Sylfex Techno Solution
2001287503	Sikuvendu Sethi	OCTANE SERVICE PVT LTD
2001287479	Biswajit Biswal	Sylfex Techno Solution
2001287485	Sameenu Behera	OCTANE SERVICE PVT LTD
2001281495	Asit Abhishek Behera	Sylfex Techno Solution
2001287488	Dipti Ranjan Behera	Sylfex Techno Solution

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Define the Program specific outcomes

PSO1	Should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of semiconductor technology, consumer electronics, embedded system, communications, networking and other relevant areas.
PSO2	Should have an ability to apply technical knowledge and usage of relevant hardware & software tools related to Electronics & Communication engineering for solving real world problems.
PSO3	Should have the capability to analyze, entrepreneur, design & develop electronics subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (PS)

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

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

Course Name :	C2 04	Course Year :	2021-2022

Course Name	Statements
C2 04.1	Students will understand the importance of BJT biasing for stable circuit operation and learn methods to ensure bias stability.
C2 04.2	Students will gain detailed knowledge of the construction, working principles,applications of different types of Field Effect Transistors (JFET and MOSFET) and students will gain foundational knowledge of CMOS technology and its role in the design of microprocessor, high-speed integrated circuits.
C2 04.3	Students will gain detailed knowledge of small signal models for BJTs and JFETs, enabling them to analyze, design efficient amplifier circuits and students will analyze the impact of load resistance (RL) and source resistance (RS) on amplifier performance, including gain and frequency response.
C2 04.4	Students will learn the ideal characteristics of operational amplifiers and compare them with practical op-amp behavior for various applications and Students will design and analyze differential and instrumentation amplifiers for high-precision measurement systems.
C2 04.5	Students will understand the operation and design principles of crystal oscillators, appreciating their high frequency stability in communication systems and Students will enhance their problem-solving abilities by analyzing circuit stability and performance issues in feedback and oscillator circuits.

Course Name :	C2 05	Course Year :	2021-2022

Course Name	Statements
C2 05.1	Become familiar with various number systems, codes and Boolean algebra.
C2 05.2	Design and analyze combinational logic circuits.
C2 05.3	Design & analyze various sequential logic circuits and be familiar with counter design.
C2 05.4	Design, analyze and implement memory array using sequential network for digital logic & investigate performance of CMOS based logic circuits in modern VLSI technology.
C2 05.5	Simulate and synthesize various digital circuits using VHDL in various standard tools such as Altex, Mentor Graphics etc., Familiarization with FPGA.

Course Name :	C3 01	Course Year :	2022-2023

Course Name	Statements
C3 01.1	Understand different VLSI design styles (full-custom, semi-custom, and programmable logic) and their trade-offs in real-world applications. Students will comprehend the importance of hierarchy in VLSI design, helping them structure large-scale digital designs effectively.
C3 01.2	Learn how to analyze, interpret the current-voltage characteristics of MOSFETs and will understand the challenges, techniques related to MOSFET scaling, including small-geometry effects in modern transistor design and apply this knowledge to circuit design and performance evaluation.
C3 01.3	develop a deep understanding of MOS inverter circuits, including their design, operation, and significance in digital logic design.
C3 01.4	Develops a comprehensive understanding of design principles for high-speed CMOS logic circuits.
C3 01.5	Gain knowledge of pass transistor logic , CMOS transmission gate logic, design of memory cells , fault types and fault models which enable them to design efficient logic circuits.

Course Name :	C3 03	Course Year :	2022-2023

Course Name	Statements
C3 03.1	Analyze baseband signals in time domain and in frequency domain.
C3 03.2	Compare and contrast various analog and digital modulation and demodulation techniques.
C3 03.3	Evaluate the performance of modulation and demodulation techniques in various transmission environments.
C3 03.4	Explain the importance of synchronization in communication systems.
C3 03.5	Able to understand modern communication systems.

Course Name :	C4 01	Course Year :	2023-2024

Course Name	Statements
C4 03.1	Describe the fundamentals of a building block of a typical embedded system.
C4 03.2	Explain the quality of the hardware in embedded systems and the co-design approach from the hardware and software development.
C4 03.3	Explain the elements of embedded hardware and their design principles and development steps.
C4 03.4	Understand the evolution and operating system and the value of RTOS based on embedded system design.
C4 03.5	Integrate best and managed embedded system development lifecycle (EDLC).

Course Name :	C4 12	Course Year :	2023-2024

Course Name	Statements
C4 12.1	After the completion of the course student should be able to services & mechanisms for effective counter measures.
C4 12.2	Describe different concepts and terms used in Remote Sensing and its data.
C4 12.3	Understand the Data conversion and Processing in different coordinate systems of GIS interface.
C4 12.4	Evaluate the accuracy of Data and implementing a GIS.
C4 12.5	Understand the applicability of RS and GIS for various applications.

Course Articulation Matrix

1 . course name : C204

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	Students w	3	3	2	3	2	-	-	-	-	-	-	-
C204.2	Students w	3	3	3	3	2	-	-	-	-	-	-	-
C204.3	Students w	3	3	3	3	2	-	-	-	-	-	-	-
C204.4	Students w	3	3	3	3	2	-	-	-	-	-	-	1
C204.5	Students w	3	3	3	3	3	-	-	-	-	-	-	1
Average		3.00	3.00	2.80	3.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00

2 . course name : C205

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	Become fa	3	3	3	3	3	1	-	-	-	-	-	-
C205.2	Design and	3	3	3	3	3	1	-	-	-	-	-	-
C205.3	Design & si	3	3	3	3	3	1	-	-	-	-	-	-
C205.4	Design, an	3	3	3	3	3	1	-	-	-	-	-	-
C205.5	Simulate w	3	3	3	3	3	1	-	-	3	-	-	-
Average		3.00	3.00	3.00	3.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00

3 . course name : C301

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	Understand	3	3	3	3	3	-	2	-	1	3	2	3
C301.2	Learn how	3	3	3	3	2	-	-	-	1	1	1	1
C301.3	describe a c	3	3	3	2	2	-	-	-	1	1	1	1
C301.4	Develop a	3	3	3	3	3	-	1	-	1	3	3	3
C301.5	Gain knowl	3	3	3	3	3	-	-	-	1	3	3	3
Average		3.00	3.00	3.00	2.40	2.60	0.00	1.00	0.00	1.00	1.00	1.80	2.00

4 . course name : C303

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	Analyze ba	3	3	1	-	1	-	-	-	-	-	-	1
C303.2	Compare a	3	3	1	-	1	-	-	-	-	-	-	1
C303.3	Evaluate th	3	3	1	-	1	-	-	-	-	-	-	1
C303.4	Explain the	3	3	1	2	3	-	-	-	-	-	-	-
C303.5	Able to anal	3	3	3	3	3	-	-	-	-	-	-	-
Average		3.00	3.00	1.40	1.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.80

5 . course name : C403

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	Describe th	1	1	1	-	1	-	-	-	-	-	2	3
C403.2	Explain the	3	3	3	-	1	-	2	-	-	1	2	3
C403.3	Explain the	1	2	1	-	1	-	1	-	-	-	1	1
C403.4	Understand	2	1	1	-	2	1	-	-	-	-	2	3
C403.5	Integrate te	3	3	3	-	3	1	1	-	-	3	3	3
Average		1.80	1.80	1.80	0.00	1.60	0.40	0.60	0.00	0.00	0.60	2.20	2.40

6 . course name : C412

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	After the su	2	-	2	2	3	1	-	1	2	2	-	1
C412.2	Describe di	3	-	2	2	3	2	-	1	3	3	-	1
C412.3	Understand	1	-	3	-	3	1	-	2	3	3	-	3
C412.4	Evaluate th	3	-	3	3	3	2	-	1	3	3	-	3
C412.5	Understand	2	-	1	2	3	1	-	2	2	3	-	3
Average		2.40	0.00	2.80	2.50	3.00	1.40	0.00	1.40	2.80	3.00	0.00	1.80

1 . Course Name : C204

Course	PSO1	PSO2	PSO3
C204.1	2	-	-
C204.2	2	-	-
C204.3	3	-	-
C204.4	3	-	1
C204.5	3	-	1
Average	2,60	0,00	1,00

2 . Course Name : C205

Course	PSO1	PSO2	PSO3
C205.1	3	2	-
C205.2	3	1	-
C205.3	3	1	-
C205.4	3	1	-
C205.5	3	1	-
Average	3,00	1,20	0,00

3 . Course Name : C301

Course	PSO1	PSO2	PSO3
C301.1	3	2	3
C301.2	3	3	3
C301.3	3	3	3
C301.4	3	2	2
C301.5	3	3	3
Average	3,00	2,60	2,80

4 . Course Name : C303

Course	PSO1	PSO2	PSO3
C303.1	1	3	1
C303.2	3	2	1
C303.3	2	2	1
C303.4	2	2	2
C303.5	2	2	2
Average	2,00	2,20	1,40

5 . Course Name : C403

Course	PSO1	PSO2	PSO3
C403.1	1	-	2
C403.2	2	1	2
C403.3	1	1	2
C403.4	1	1	2
C403.5	2	1	2
Average	1,60	1,00	2,00

6 . Course Name : C412

Course	PSO1	PSO2	PSO3
C412.1	3	1	2
C412.2	3	2	3
C412.3	3	3	3
C412.4	3	2	2
C412.5	3	3	3
Average	3,00	2,20	2,60

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Engineerin	1.6	2.4	2.2	1.8	1.25	1.4	1.6	1.8	1	1	0
Engineerin	2.2	2	1	1	1.4	1.6	1	1	0	0	0
Basic elec	1.4	2.4	2.2	1.8	1.25	1.4	0	0	0	1	1.6
Basics of	1.2	1.6	2	2.2	1	1.4	1	2.8	2.2	1	1.6
Communica	2	1.8	2.8	2.2	2.6	1.8	1.4	2.4	2.4	1.8	1.6
Engineerin	2.2	2	1	1	1.4	1.6	2.6	1	2	2.4	1.6
Engineerin	2.4	1.8	1.4	1	0	0	0	0	0	0	0
Basic Ele	2.40	1.40	2	2.00	2.60	0	0	2	0	0	0
Basics of	2.6	1.2	0	1.6	2.6	2.4	2.2	2.2	1	1	2.2
Engineerin	2.4	2	2.8	2.4	2	0	1.6	2.4	2.4	2.2	0
Programm	2.6	2.8	2.2	2.2	2.4	1	2	2.2	2.2	2.6	2
Electronic	2	2	2.2	1.4	1.2	1	1	2	2.8	1.8	2
Engineerin	2.4	2.4	1.8	2.4	2.2	1.6	0	0	0	0	0
Data struc	2.4	2.4	2	2.4	1	1.2	0	0	0	0	0
Organisati	2	2	2	2.8	2.8	1	1	1	1	1	1
Analog El	2	2	2.6	2.8	2.6	0	0	0	0	0	0
Digital Sy	2	2	2	2	2.4	1	0	0	0	0	0
Universal	2.6	2	2.2	1.8	1.4	0	2.8	2.2	1.8	1.4	1.6
Environm	1	0	0	0	0	0	0	0	2	0	1
Analog El	2	2.8	2.2	2	2.4	0	0	0	0	0	0
Digital Sy	2	2	2.8	2	2.6	1	0	0	0	0	0
Data Stru	2	2	2.75	2	0	1.25	0	0	0	0	0
Employabil	2	1	2	2	1	1	0	0	0	0	0
Electronic	2	2.8	1.6	1.8	1.8	0	0	0	0	0	0
Engineerin	2	2	2	2.8	2.8	1	1	1	1	1	1
Microproc	2.6	2.8	1.8	1.8	1	1	0	0	0	0	0
Analog a	2	2.8	1.6	1.8	1.8	0	0	0	0	0	0
Wireless I	2	2.8	2.2	2.2	2.2	2	0	0	0	0	0
Introductio	2	2.6	2.2	1.8	1	1.6	0	0	0	0	0
Essence o	2.2	2	1	1	1.4	0	0	0	0	0	1.6
Digital VLS	1.6	2.25	2.6	2.25	2.25	1	1	2	2	0	1
Control Sy	2	2.8	1.6	1.8	1.8	0	0	0	0	0	0
MINI PRO	2.4	2.8	1.8	1.8	1	1	0	0	0	0	0
Industrial e	2	2.8	2.8	2.8	2.6	1.2	0	2	0	0	0
Microwave	2	2.8	1.6	1.8	1.8	0	0	0	0	0	0
Python Pr	2	2.8	2.8	2	2.6	1.6	0	0	0	0	0
Computer	2.2	2.4	2.8	2.4	1.8	0	2	2	1.7	2	0
Mobile Co	2.28	2.40	2.60	2.40	1.80	0	2.67	2.33	1.75	2.2	0
Operating	2.6	2.8	2.8	1.8	0.6	0.6	0	0	0	0	0
Employabil	2.6	2.1	2.2	2.8	1	1	0	0	0	0	0
Internet O	1.6	1.8	1.4	1.8	1	1	0	0	0	0	0
Microwave	1.6	1.8	1.8	1	1	0	0	0	0	0	0
Seminar	2.5	2.1	2.2	2.8	1	1	2.4	2	2.2	2.2	0
Grand Viv	2.6	2.2	2.4	2	0.2	0	0	2.2	0	2.4	0
Embedded	1.6	1.8	1.6	2.6	1.4	0.4	0.6	0	0	0.6	2.2
Data Scie	2.6	2.8	1.8	1.8	1	1	0	0	0	0	0
Cloud Co	3.0	2.4	2.2	1.8	0	0	2.2	1.6	0	1.4	0
Remote S	2.4	0	2.0	2.8	2.0	1.4	0	1.4	2.8	3.0	0
Entrepren	2.4	0	2.6	1.8	1.8	2.6	1.6	2.6	1.8	1	2.4
Technical	2.4	2.1	2.2	2	0.2	0.4	0.7	1.4	2.2	0	0
Minor Pro	2.2	2.2	2.4	2.8	0.2	0	2.0	2.4	2.4	2.2	0
Industrial	2.2	2.1	2.4	2.8	0.6	0	0	2.2	2.2	2.0	0
Sustainabl	2.1	2.2	2.8	2.8	0.5	0	0	2.2	2.2	2.0	0
Seminar –	2.2	0	2.4	2.2	0.6	0	0	2.2	2.2	2.0	0
Internship	2.0	2.2	2.4	2.2	1	0	0	2	2	0	0
Grand Viv	2.6	2.2	2.1	2.6	1	0	0	2.2	0	2.4	0
Major Pro	2.2	2.2	2.4	2.2	1	0	2.0	2.4	2.4	2.2	0
Digital VLS	2.00	2.80	2.8	2.40	2.60	0	1.5	0	1.80	1.60	1.6
Employabil	2.2	2.2	2.6	1	2	2.6	0	0	0	2.6	2.6
Basic Ele	2.4	2	2	2	1	2.6	2	1	2.2	2.6	2.6
Basic Civi	2	2.6	2.6	2.2	2.4	0	0	0	1	1	0

Engineeri	2.4	2.4	2.8	3	2	1	1	2.8	2.8	2.4	2.2
English Lo	3	2	2.4	2.4	1	2.8	2.4	2.8	2.8	2.8	3
Engineeri	3	2	2.4	2.4	0	0	0	0	0	0	0
Bsc Elect	3	2.4	2.8	2.8	2.2	1	0	0	0	2	2.4
Basic Mic	2.2	2.4	2	1	2.2	3	2.8	2.2	2.8	2.4	3
Workshop	2.8	2.8	2.2	2.2	1	0	0	2.8	2.4	2.4	2.8
Programm	2.4	3	3	2.2	0	1	1	2.2	2.4	0	0
Microprop	2.6	2.8	1.8	1.8	1	1	0	0	0	0	0
Digital Sig	2.8	2	1.75	1.8	2.2	2	0	0	0	0	0
Digital Sig	2.6	1.4	1.8	1.8	1.8	2	0	0	0	0	0
Introduction	2.6	2.4	2.8	1.8	1	0	0	0	0	0	0
OCPS us	2.8	2.4	2.8	1.8	1	0	0	0	0	0	0
Intelligent	2.4	2.8	1.8	1.8	1	1	0	0	0	0	0
Mini Proje	2.4	2.8	1.8	1.8	1	1	0	0	0	0	0
Summer t	2.2	0	2.4	2.8	0.8	0	0	2.2	2.2	2.0	0
Analog an	1.6	1.4	1.4	1.4	1	1	0	0	0	0	0
Employer	0	0	0	0	0	2.8	2.4	2.8	1.8	1	2.8

Course	PSO1	PSO2	PSO3
Analog an	1.8	2.2	1.4
Analog an	1.8	1	0
Analog Ele	3	1.8	1.8
Analog Ele	2.6	0	1
Basic Cmt	1.6	2	2.2
Basic Elec	2.88	2.40	0
Basic Elec	2.6	2.4	0
Basic elec	2.2	2.4	2
Basic Elec	3	2.8	2
Basics of	1.6	1.8	2.2
Basics of	2.8	1	2
Basics of	0	1.4	2.2
Business	2.8	1	2
Cloud Co	2.6	2.4	2.8
Commune	1.8	2.4	2.2
Computer	2.3	1.8	2
Constitute	1.2	1.8	1.2
Control S	1.8	2.2	1.4
Data Scie	1.6	1.6	0.8
Data sinu	1	0	1
Data Stru	3	0	3
Digital Sig	2.2	1.2	2.4
Digital Sig	2.2	1.2	0.2
Digital Sy	3	1	0
Digital Sy	3	1.75	1.75
Digital VLI	3	2.8	3
Digital VLI	0	1	2
Electronic	1.8	2.2	1.4
Embedde	1.6	0.8	2
Employer	3	1	2.8
Employer	3	1	2.4
Employer	3	1	2.4
Employer	2.25	0	0
Engineeri	1.4	1.4	1.8
Engineeri	3	1.8	2
Engineeri	2.8	2.8	0
Engineeri	1.8	2.2	1
Engineeri	1.4	2	1
Engineeri	2.2	2.8	1
Engineeri	1.2	1.2	0
Engineeri	2.8	1.8	0
Engineeri	0	0	0
Engineeri	0	0	0

English Lu	2.6	2.8	3
Entrepren	0	1.8	3.8
Environm	0	2	1.8
Essence r	3	0	0
Grand Ma	2	0.8	1.8
Industrial	2.2	0.8	1.8
Intelligen	1.8	1.8	1.8
Internet of	2.6	1	1
Internet C	1.8	1	0
Internship	3.0	0.8	1.8
Introduction	1.91	1.41	1
Introducti	3	1	2.4
Major Pro	2.0	0.8	1.8
Microprop	1.8	1.8	3.8
Microproc	1.8	1.8	1.8
Microwave	1.8	1	0
Microwave	1.8	2.2	1.4
MINI FRU	3.0	0.8	1.8
Mini Proj	1.8	1.8	1.8
Minor Pro	2.0	0.8	1.8
Mobile Co	2.48	2.00	1.4
OOPs/Jav	3	1	2.4
Operating	2.2	2.2	3.8
Organizat	2.8	2.8	3
Programs	1.4	2.6	2.2
Programs	1.8	2.2	1
Python Fr	2.6	1	1
Remote S	2.6	2.2	2.8
Seminar	1.8	0.8	1.8
Seminar -	2.2	0.8	1.8
Summer	2.2	0.8	1.8
Summer I	3.0	0.8	1.8
Technical	1	0	1
Universal	2.6	2.8	3
Wireless I	1.8	2.2	1.4
Workshop	2.6	2	3

3.2 Attainment of Course Outcomes (75)

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

- In line with the course objectives, the curriculum has been methodically designed by the institution and is being strictly followed. The teaching-learning process has been structured accordingly. In addition to traditional blackboard teaching, we incorporate PowerPoint presentations and demonstrations using various physical models to emphasize the practical aspects of the subjects.
- Students are also provided opportunities to visit project sites and industries to enhance their skills. Continuous evaluation is carried out through assignments, quiz, surprise test, mid-term examination, seminars, laboratory assessments, and project work. Students are regularly informed of their performance to help them identify areas for improvement.
- Additionally, students are given opportunities and platforms to pursue and enhance their interests beyond academics. It has been observed that many students excel in their chosen fields of interest, demonstrating notable progress and success.
- Feedback is regularly collected from students, parents, alumni, employers, industry experts, and academic professionals to identify potential modifications for improving the achievement of the desired course outcomes. The departments advisory committee, along with the institute advisory body, is also consulted for their advice, comments, and suggestions. Additionally, the opinions and feedback of re organizations and companies visiting the campus for placements are given significant consideration in this process.
- Taking into account the complexity and weightage of the subjects, the Departmental Advisory Committee, in consultation with the Institute Advisory Committee, has established targets for the attainment of POs, PSOs, and PEOs. In cases where the targets are not met, necessary remedial measures are implemented as outlined in subsequent sections. When the targets are achieved, new and higher targ continuous improvement.

Assessment Pattern			
	Assessment Type		**Assessment Tool**
Theory	**Direct Attainment**		1. (Internal Examination-1(QUIZ, ASSIGNMENT, SURPRISE TEST) Quiz: 5 Marks Assignment: 5 Marks Surprise test: 5 Marks --- Total: 15 Marks 2. Mid- semester exam (Internal Examination-2) Short Answer Type Questions; Focused type, Long type based on question wise CO's Mapping: 25 Marks **Total: 15+25= 40 Marks**
			End Semester Examination: 60 Marks (External Exam)
	Indirect Attainment		**Course Exit Survey, Alumni Survey, Employer Feedback, Parents Feedback**
	Computation of Direct CO attainment in the Course		
	40% of Internal Examination attainment + 60 % of End Semester Exam attainment		
	Computation of OverallCO attainment in the Course:		
	80 % of Direct CO attainment + 20 % of Indirect CO attainment		
LAB		**Direct Attainment**	**Assessment Tool** (planning and execution of Experiment, interpretation of the Results, Report writing and Viva voce)
		Indirect Attainment	Course Exit Survey, Alumni Survey, Employer Feedback, Parents Feedback
	Computation of OverallCO attainment in the Course:		
	80 % of Direct CO attainment + 20 % of Indirect CO attainment		
Project		**Direct Attainment** (external assessment 80% weightage and 20% internal assessment)	**Assessment Tool** (Project execution and Presentation, Viva-Voce and Report writing)

Description of Attainment Level for Direct Assessment		
Assessment Methods	**Attainment Levels**	
Internal assessment surprise + Quiz + Assignment+ Mid sem	**Level 1**	50 to 59% of the students secure 70 % or more marks
	Level 2	60 to 69% of the students secure70% or more marks
	Level 3	>=70% of the students secure 70% or more marks
External Assessment (End semester exam)	**Level 1**	50 to 59% of the students secure 50 % or more marks
	Level 2	60 to 69% of the students secure 60% or more marks
	Level 3	>=70% of the students secure 60% or more marks
Course exit survey measures the student responses as a 5-point scale (Poor (Rate-1), Average (Rate-2), Good (Rate-3), Very Good (Rate-4) and Excellent (Rate-5)		

Below Table shows the description of attainment level for indirect assessment

Level	Description
Level 1	50 to 59% of the students have given poor or average in CO attainment
Level 2	60 to 69% of the students have given poor or average in CO attainment
Level 3	>=70% of the students have given poor or average in CO attainment

In case the required target is not achieved, the causes are identified corrective measures are taken in future years.

CO Assessment processes for Seminar

Seminar-1 & seminar-2 (2nos) are conducted for each student in the 6th and 7th semester respectively. A group of faculty members including HOD of the department are assigned for the seminar. Out of the faculty members one member is the coordinator of seminar. Seminar topic is chosen by the student from the emerging technical areas. The Department scrutinize the topics and declare the final schedule

The guides of different groups advised them to submit the synopsis. The internal assessment marks are given on the basis of presentation of the seminar, seminar report and the interaction during the seminar presentation.

Course Outcome Assessment processes for Minor Project :

The course outcome evaluation process for electrical engineering Minor projects involves setting clear project objectives that are aligned with specific course outcomes. The process integrates ongoing assessment and cumulative evaluation throughout the project development. Which includes

1.Regular progress reviews

2.Design reviews

3.Technical documentation

4. Final presentations and evaluation of a working prototype.

Teamwork and communication skills are emphasized as key elements. Evaluations are conducted by faculty members, but there is also the possibility of involving external evaluators to ensure a thorough assessment of students ability to apply theoretical knowledge to real-world engineering challenges.

Feedback of Course Exit Survey:

IMS Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha. Approved by AICTE, Accredited by NAAC)

Department of Electronics and Communication Engineering
Course Exit Survey – Mobile Computing

Dear Students,

Thank you for participating in this Course Exit Survey for Mobile Computing. Your feedback is essential for us to improve the teaching and learning experience. Kindly take a few minutes to complete this survey. Your responses will remain confidential and will be used for academic enhancement purposes.

Section A: General Information

1. **Name (Optional):** _____
2. **Roll Number (Optional):** _____
3. **Semester:** _____
4. **Course Instructor:** _____
5. **Academic Year:** _____

Section B: Course Outcomes (COs) Assessment

Please rate how well the course has helped you achieve the following outcomes on a scale of 1 to 5, where 1 = Poor and 5 = Excellent.

Sl. No.	Course Outcomes (COs)	1	2	3	4	5
1	Students will develop the ability to compare and contrast different wireless communication technologies, including PCS, GSM, GPRS, and WLANs.	☐	☐	☐	☐	☐
2	Students will able to evaluate the evolution from WLL to 3G in the context of improving wireless communication.	☐	☐	☐	☐	☐
3	Students will able to Prepare for careers in satellite communication industries and related fields, including satellite design, network operations, and global telecommunications.	☐	☐	☐	☐	☐
4	Students will explore emerging trends in wireless enterprise networks, including advancements in Bluetooth technology, pervasive computing, and adaptive web application architectures.	☐	☐	☐	☐	☐
5	Students will look a foundation for pursuing careers in mobile network design, wireless communication, and internet technologies.	☐	☐	☐	☐	☐

Section C: Course Effectiveness

Please rate the following aspects of the course on a scale of 1 to 5, where 1 = Poor and 5 = Excellent.

Sl. No.	Course Attributes	1	2	3	4	5
1	Clarity of course objectives and learning outcomes	☐	☐	☐	☐	☐
2	Effectiveness of teaching methodology	☐	☐	☐	☐	☐
3	Availability and usefulness of course materials	☐	☐	☐	☐	☐
4	Relevance of course content to practical applications	☐	☐	☐	☐	☐
5	Effectiveness of lab/tutorial sessions (if applicable)	☐	☐	☐	☐	☐
6	Use of real-world examples and problem-solving approaches	☐	☐	☐	☐	☐
7	Opportunities for interaction and doubt clarification	☐	☐	☐	☐	☐

Section D: Suggestions for Improvement

1. What did you like the most about the Mobile Computing course?

2. What improvements would you suggest for the course content, teaching methods, or assessment techniques?

3. Would you recommend any additional topics to be covered in future offerings of this course?

4. Any additional comments

Thank you for your time and valuable feedback! Your input will help us improve the quality of education.

Course Instructor
Department of Electronics and communication Engineering
GITA Autonomous College, Bhubaneswar

5.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (CO)

CO
Attainment
Goal

SIKSHA 'O' Anusandhan (Deemed to be University), Bhubaneswar (Affiliated to BPUT, Odisha)

Department of ELECTRONICS and COMMUNICATION ENGINEERING

Course Assessment

Course Name: Mobile Computing
Faculty Name: PRATYASHA MISRA
Course Code: 20BTECEPE610

Session: 2022-23
Semester: 4Th Semester
Branch: ECE

| | | | | Internal Examination-1 (Weightage=5) | | | | | | | | | | | | Internal Examination-2 (Weightage=25) | | | | | | | | | | | |

| | | |

2	2007001	2001287485	3	3	2	3	3
3	2007002	2001287486	2	3	3	2	3
4	2007003	2001287487	3	3	3	3	3
5	2007004	2001287475	3	1	3	3	1
6	2007005	2001287488	3	3	3	3	3
7	2007006	2001287477	3	3	3	3	3
8	2007008	2001287489	3	3	3	3	3
9	2007009	2001287490	3	3	3	3	3
10	2007011	2001287491	3	3	1	3	3
11	2007012	2001287502	3	3	3	3	1
12	2007013	2001287476	3	3	3	3	3
13	2007014	2001287479	3	3	3	3	3
14	2007015	2001287493	3	3	3	1	3
15	2007016	2001287503	3	3	3	3	3
16	2007017	2001287494	3	3	3	3	3
17	2007018	2001287495	3	3	1	3	3
18	2007020	2001287496	3	3	3	1	3
19	2007021	2001287481	3	3	3	3	3
20	2007022	2001287497	3	3	3	1	3
21	2007023	2001287498	3	3	3	3	1
22	2007024	2001287503	1	3	3	3	3
23	2007025	2001287482	3	3	3	3	3
24	2007026	2001287483	3	3	3	3	3
25	2007027	2001287499	3	3	3	3	3
26	2007028	2001287500	3	3	3	3	3
27	2007029	2001287484	3	3	3	3	3
28	2007030	2001287501	3	3	3	3	1
29	2007031	2021287111	3	3	3	3	3
30	2007032	2021287113	3	3	3	3	3
31	2007033	2021287115	3	3	3	1	3
32	2007034	2021287117	1	3	3	3	3
33	2007035	2021287119	3	3	3	3	3
34	2007036	2021287121	3	3	3	3	3
35	2007037	2021287123	3	3	3	3	3
36	2007038	2021287125	3	3	3	3	3
37	2007039	2021287127	3	3	3	3	3
38	2007040	2021287129	3	3	1	3	1
39	2007041	2021287131	3	3	3	2	3
40	2007042	2021287133	3	3	3	3	3
41	2007043	2021287135	3	3	3	3	3
42	2007044	2021287137	3	3	3	3	3
43	2007045	2021287139	3	3	3	3	3
44	2007046	2021287141	3	3	3	3	3
45	2007047	2021287143	3	3	3	3	3
46	2007048	2021287145	3	3	3	3	3
47	2007049	2021287147	3	3	3	3	3
48	2007050	2021287149	3	3	3	3	3
49	2007051	2021287151	3	3	1	3	3
50	2007052	2021287153	3	3	3	3	3
51	2007053	2021287155	3	3	3	3	3
52	2107L01	2121287100	3	3	3	3	3
53	2107L02	2121287101	3	3	3	3	3
54	2107L03	2121287104	3	3	3	3	3
55	2107L04	2121287103	3	3	3	3	1
56	2107L05	2121287102	3	3	3	3	3
		Average	2.71	2.79	2.83	2.68	2.91
		Overall Average	2.78				
		Rate-5	3.00				
		Rate-4	3.00				
		Rate-3	2.00				
		Rate-2	1.00				
		Rate-1	0.00				

Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage 5	%	4	%	3	%	2	%	1	%	Average CO %	CO Attainment
		Total number of students participated in Course Exit Survey									75		
CO1	Rate yourself based on your ability to Describe the concept of PCS and GSM. Rate yourself based on your ability To study the examples PCS and GSM. WLAN, GPRS. Rate yourself based on your ability to Analyse the idea about WAP, 3G, 3.5, 3rd Generation Rate yourself based on your ability to Analyse the Concept of Global Mobile Satellite Systems	59	52.68	10	13.33	4	5.33	2	2.67	1	1.33	67.33	2.70
CO2		33	44.67	13	17.33	5	6.67	2	2.67	1	1.33	65.67	2.60
CO3		33	44.00	12	16.00	7	21.33	2	2.67	2	2.67	64.00	2.46
CO4		54	48.00	14	18.67	6	8.00	1	1.33	1	1.33	69.67	2.77

CO5	Rate yourself based on your entity to Understand the 25 Concept of Bluetooth VPYL CDMA	46.67	13	17.33	4	5.33	2	2.67	2	2.67	65.33	2.53			

	Direct					Indirect					Final				
CO No.	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
CO Attainment															

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	39	10	4	2	1	56
CO2	39	13	5	2	1	56
CO3	34	12	7	2	2	54
CO4	34	14	5	1	1	55
CO5	39	13	4	2	2	56

PO and PSO attainments.

Course Name: Mobile Computing

Course Code: 3SBTECFTPE610

CO No.	Course Outcomes	Highest Cognitive Level	POs	PSOs
CO1	Describe the concept of PCS and GSM.	K4	1, 2, 3, 4, 5, 6, 12	1, 2, 3
CO2	To study the concepts PCS and GSM, WLAN, GPRS.	K4	1, 2, 3, 4, 5, 6, 12	1, 2, 3
CO3	Intro about WAP, WLL, IMT-2000	K3	1, 2, 3, 4, 5, 6, 12	1, 2, 3
CO4	Concept of Global Mobile Satellite Systems	K3	1, 2, 3, 4, 5, 6, 12	1, 2, 3
CO5	Concept of Bluetooth, VPN, CDMA	K3	1, 2, 3, 4	1, 2, 3

CO No.	CO Mapping with PO												CO-PSO Mapping		
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	3	1					3			2	2	3
CO2	3	3	3	3	1				1	1			2	2	3
CO3	3	2	3	1	3		3	2	1	3		1	3	1	3
CO4	2	1	3	3	2		3	3	3	2		3	2	2	2
CO5	1	3	3	2	2		2	2	2	3		3	2	2	2
AVERAGE	2.33	2.43	2.83	2.40	1.80		2.67	2.33	1.75	2.2		2.33	2.40	2.00	2.6

3-High 2-Medium 1-Low

Here in the table, 3 corresponds to a high correlation, 2 corresponds to a medium correlation, and 1 corresponds to a low correlation between CO and PO/PSO.

	PO Attainment												PSO Attainment		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average PO Mapping (M)	2.33	2.43	2.83	2.40	1.80		2.67	2.33	1.75	2.33		2.33	2.40	2.00	2.60
PO Attainment	1.85	2.32	2.16	2.32	1.51		2.24	1.96	1.47	1.85		1.96	2.32	1.68	2.18

CO Attainment

Sl. No.	COs Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	2.43	2.71	2.49
2	CO2	2.32	2.79	2.41
3	CO3	2.88	2.83	2.41
4	CO4	2.89	2.68	2.67
5	CO5	2.65	2.81	2.64
			Average	2.52

CO No.	CO Mapping with PO												CO-PSO Mapping		
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	3	1					1			1	1	1
CO2	3	3	3	3	1				1	1					
CO3	3	2	2	1	3		3	2	1	3		1		1	1
CO4	2	1	3	3	2		3	3	3	2		3	2		3
CO5	1	3	3	2	2		2	1	2	3		3	3	3	3
PO Attainment	2.49	2.41	2.52	2.53	2.53		2.57	2.57	2.64	2.56		2.62	2.63	2.56	2.8

PO1 Attainment = (2.49*3+2.41*3+2.41*3+2.57*3+2.64*1)/(3+3+3+3+1)

Attainments of course outcomes of all subjects

ATTAINMENTS OF COS FOR ALL SUBJECTS

SL.NO	Course Name	Course code	Attainment level targeted achieves	Attainment level
1.	Engineering mathematics-I	C101	2.2	1.84
2.	Engineering chemistry	C102	2	2.1
3.	Basic electronics Engineering	C103	2.2	2.13
4.	Basics of Civil Engineering	C104	2.0	1.9
5.	Communicative English	C105	2.1	2.24

6.	Engineering mathematics-II	C112	2.0	3.12
7.	Engineering physics	C113	1.6	1.86
8.	Basic Electrical Engineering	C114	2.2	1.34
9.	Basics of Mechanical Engineering	C115	1.6	1.34
10.	Engineering Mechanics	C121	1.6	2
11.	Programming for problem solving using C	C117	1.7	1.86
12.	Business Communication and life skill	C118	2.0	2.1
13.	Engineering Mathematics-III	C301	2.2	3.69
14.	Data structure using C	C302	2.0	2.1
15.	Organizational Behaviour	C303	1.33,1.0	
16.	Analog Electronics Circuit	C304	1.6	2.1
17.	Digital System Design	C305	1.6	3.69
18.	Universal Human Value	C306	1.0	2.16
19.	Environmental Science	C307	2.0	2.69
20.	Analog Electronics Circuit Lab	C308	1.0	2.16
21.	Digital System Design Lab	C309	0.6	2.1
22.	Data Structure using C lab	C310	1.6	2.12
23.	Employability Skills	C311	1.1	2.14
24.	Electromagnetic Theory	C312	2.3	2.16
25.	Engineering economics and costing	C313	2.0	2.1
26.	Microprocessor and Microcontroller	C314	2.0	2.14
27.	Digital Signal Processing	C315	1.6	2.1
28.	Introduction to Machine Learning	C316	1.6	2.1
29.	OOPs(Java/python)	C317	1.7	2.69
30.	Constitution of India	C320	1.6	2.16
31.	Microprocessors and Microcontroller Lab	C323	1.7	2.14
32.	Digital Signal Processing Lab	C324	1.6	2.1
33.	Intelligent Computing Lab	C325	1.6	2.12
34.	Mini Project-I	C327	1.9	2.16
35.	Employability Skill-II	C326	1.6	2.1
36.	Digital VLSI Design	C301	2.2	3.61
37.	Control System Engineering	C302	2.2	2.1
38.	Analog and Digital Communication	C303	2.0	2.16
39.	Wireless Communication	C306	1.6	2.64
40.	Introduction to Database Management System	C305	1.7	2.1
41.	Essence of Indian Knowledge and Tradition	C310	1.6	2.16
42.	Digital VLSI Lab	C311	1.7	2.16
43.	Control System And Engineering Lab	C312	1.7	2.64
44.	Analog and Digital Communication Lab	C313	1.6	2.1
45.	Employability Skill -III	C314	1.9	2.16
46.	Summer Internship	C315	1.6	2.1

47	MINI PROJECT II	C316	1.6	3.16
48	Internet of Things	C317	1.6	3.64
49	Microwave and Antenna Engineering	C318	2.3	3.24
50	Python For Data Science	C319	1.7	1.88
51	Computer Network And Internet Protocol	C321	1.6	3.66
52	Mobile Computing	C323	2.4	3.51
53	Operating System	C327	2.0	2.2
54	Employability Skills IV	C331	1.6	3.66
55	Internet Of Things Lab	C329	1.6	3.69
56	Microwave And Antenna Engineering Lab	C330	1.6	3.14
57	Seminar I	C332	1.1	3.16
58	Grand Viva	C333	2	3.42
59	Embedded System and applications	C401	1.8	2.0
60	Data Science	C406	1.6	3.16
61	Cloud Computing	C409	1.6	3.62
62	Remote Sensing and GIS	C412	1.6	1.94
63	Entrepreneurship Development	C401	2.0	2.42
64	Technical Writing Essential for Research	C416	1.6	2.16
65	Minor Project - II	C414	1.8	2.2
66	Industrial Lecture and visit	C413	1.7	2.18
67	Summer Internship	C418	1.6	3.12
68	Seminar-II	C417	1.0	3.12
69	Internship	C419	1.7	2.12
70	Grand Viva	C420	1.6	2.14
71	major project	C421	2.0	2.22

3.3 Attainment of Program Outcomes and Program Specific Outcomes (70)

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

The assessment of Programme Outcomes and Programme Specific Outcomes are done by analysing the Performance Index, the student Exit Survey, statistics of Employer's Feedback, statistics of Alumni Feedback, parent's feedback and the Employability Index. Apart from the above attributes, faculty publications and research activities are also considered as an indirect method of assessing the quality of course delivery and participation of students with faculty members. The feedback check attributes are carefully designed to arrive at assessing the attainment of each programme outcome specified by the department which is in turn in line with the graduate attributes specified by the National Board of Accreditation.

The institution's academic council ensures that the above mentioned assessments are carried out at the end of each academic year so that the results of attainment of POs are discussed with institution's advisory committee. Based on the institution's advisory committee recommendations, necessary changes and improvements if any are made to redefine the POs for the next academic session for achieving better academic standards. The various feedback formats such as alumni feedback, employer's feedback and outgoing student's feedback are furnished below:

Alumni Feedback Form for Assessment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs)

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Alumni Feedback Form for Assessment of Program Outcomes (POs),Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs)

Dear Alumnus/ Alumna,

We highly value your feedback as it helps us ensure and improve the quality of our academic programs. Kindly take a few minutes to fill out this form to evaluate the Program Outcomes (POs) and Program Specific Outcomes (PSOs) you have achieved during your study at GITA Autonomous College, Bhubaneswar. Your responses will be kept confidential and used solely for academic improvement.

Name: _____
Batch (Year of Graduation): _____
Program Studied (B.Tech/M.Tech/MBA etc.): _____
Current Organization & Designation: _____
Email ID: _____
Contact Number: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Outcome (PO)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.
4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues relevant to engineering.
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.
10.	Communication: Ability to communicate effectively in professional and social contexts.
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.
12.	Lifelong Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program Specific Outcomes (PSOs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)
1.	Should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of semiconductor technology, consumer electronics, embedded system, communication networking and other relevant areas.
2.	Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to Electronics & Communication engineering for solving real world problems.
3.	Should have the capability to analyze, comprehend, design & develop electronic subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.

Assessment of Program Educational Objectives (PEOs)

Please rate the following Program Educational Objectives (PEOs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Educational Objectives (PEO)
1.	Our graduates will apply their knowledge and skills to succeed in an electronics and communication engineering career and/or obtain an advanced degree.
2.	Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customers' business objectives and/or productively engage in research.
3.	Our graduates will function ethically, responsively and will remain informed about all the developments of their profession.
4.	Our graduates will successfully function in multi-disciplinary teams.
5.	Our graduates will be able to perform competently in a diversified environment and individually, within a global, societal, and environmental context with ethical and moral behaviour.

Additional Feedback:

1. How has your education at GITA Autonomous College, Bhubaneswar contributed to your professional growth?

2. What improvements would you suggest in the curriculum to better prepare future graduates?

3. Would you be willing to contribute to guest lectures, mentorship, or industry collaborations? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us improve and enhance the learning experience for future students.

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

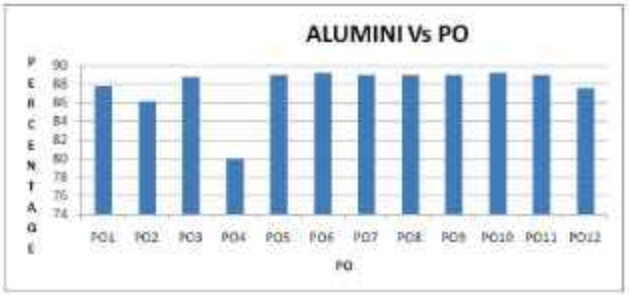
Analysis of Alumni feedback for the attainment of the POs
ALUMNI FEEDBACK ANALYSIS ECE (2018-2022)

SI.No.	Name of the Alumni	Graduate attributes from PO1 to PO12											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	ASHLAKSH DUBEDY	5	4	3	5	4	4	4	3	3	4	4	3
2	ADYASHA BARA	5	4	4	5	5	4	4	4	3	3	4	4

3	AJEYKUMARPANIGRAHY	5	5	5	4	4	4	4	4	4	4	5	5	
4	AMITKUNDU	5	4	5	5	5	5	5	5	5	5	4	5	
5	ARPITAAMBASTHA	5	5	5	4	4	5	4	4	4	4	5	4	
6	AYUSHKUMAR	5	5	4	5	4	4	4	4	4	4	4	5	
7	BHOOBHIMISTRY	5	5	5	4	4	5	5	5	5	5	5	4	
8	BISWAJITSAHU	5	4	4	4	4	4	4	5	5	5	4	4	
9	DAMODARSAHOO	5	4	5	5	4	5	5	5	5	4	4	5	
10	DATTATRAYASAMAL	5	5	5	5	4	5	5	5	5	4	4	5	
11	DEEPAKKUMARPATHY	5	4	4	5	4	5	5	5	5	5	5	5	
12	GULSHANKUMARMALLICK	5	5	5	5	4	4	4	4	4	5	5	5	
13	ITISHACHOWDHURY	4	5	5	5	4	4	5	5	4	5	5	5	
14	JAIPARJANAL	5	5	4	5	4	5	5	5	5	5	5	4	
15	KUMARAMRISHKUJUR	5	4	5	5	5	4	5	5	5	5	4	4	
16	MOHAMMEDSHAMBUZ-HAQUE	5	5	5	4	4	4	4	4	4	4	4	5	
	TOTAL	208	203	201	213	201	209	208	211	209	213	211	209	
	PERCENTAGE	86.1991	87.2473	86.7584	89.8946	91.3014	93.5185	78.3774	73.3402	73	73.7836	73.3402	80.918 6	

ALUMNI FEEDBACK ANALYSIS ECE (2019-2023)

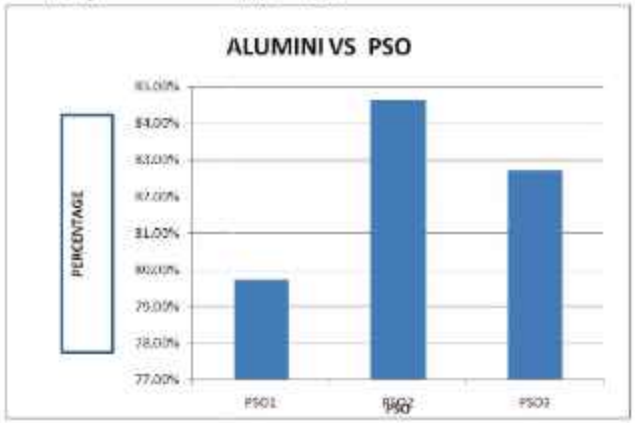
SL No	Name of the Alumni	Graduate attributes from PO1 to PO12											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	ABHISHEK KUMAR	5	5	5	4	5	4	5	5	5	5	5	5
2	ADITSANDILYA	5	5	5	4	4	5	5	5	5	5	4	4
3	ADITYAPRAGADICHEMBHAPU	5	5	5	4	5	4	5	5	5	5	5	5
4	AKASHKUMARPARIDA	4	5	5	4	4	5	4	5	4	5	4	5
5	ANIRUDH MEHTA	5	5	5	4	5	5	4	4	5	5	4	5
6	ANKITSAMAL	4	5	5	4	4	5	5	5	5	5	5	4
7	ASHUTOSHDASH	5	5	5	4	5	4	5	5	5	5	5	5
8	AYUSHKUMAR	5	5	5	4	4	4	5	5	5	5	5	5
9	BALMUKUNDKUMAR	4	5	5	4	5	5	5	5	5	5	5	5
10	BIDHUPRAGAGPATRA	5	5	5	4	4	5	4	4	5	5	5	5
11	BISWAJITPATTANAYAK	5	5	5	4	5	5	5	5	5	5	4	4
12	DEBASISHSAHOO	4	5	5	4	4	4	5	5	5	5	4	5
13	DEEPAKPOUL	5	5	5	4	5	5	5	5	5	5	4	5
14	DEEPUKUMAR	4	5	5	4	4	4	5	5	5	5	4	5
15	FAIZANSAYEED	5	5	4	4	5	5	4	5	5	5	4	5
	TOTAL	373	388	377	340	376	379	378	376	378	379	376	372
	Percentage	87.7647	86.1179	88.7059	80	88.4412	89.1765	88.9413	88.4412	88.9413	89.1765	88.4412	87.529 4



ALUMNI FEEDBACK ANALYSIS ECE (2019-2023)

SL No	Name of the Alumni	Graduate attributes from PSO1 to PSO3		
		PSO1	PSO2	PSO3
1	ABHILASH DWIBEDY	5	5	4
2	ADITAPANIGRAHI	5	4	4
3	AJEYKUMARPANIGRAHY	4	5	5
4	AMITKUNDU	4	5	4
5	ARPITAAMBASTHA	5	4	4
6	AYUSHKUMAR	5	5	4
7	BHOOBHIMISTRY	5	4	4
8	BISWAJITSAHU	5	5	4
9	DAMODARSAHOO	5	4	4
10	DATTATRAYASAMAL	4	5	4
11	DEEPAKKUMARPATHY	4	4	4

12	BULBONKUMARMALLICK	5	5	4
13	ITISHACHOWDHURY	4	4	4
	TOTAL	266	317	304
	Percentage	79.72%	84.83%	82.75%



Analysis of Alumni feedback for the attainment of the PSOs

ALUMNI FEEDBACK ANALYSIS ECE (2019-2023)

Sl No	Name of the Alumni	Graduate attributes from PSO1 to PSO3		
		PSO1	PSO2	PSO3
1	ABHISHEK KUMAR	5	5	4
2	ADITIBANERJEE	4	5	4
3	ADITYAPRASADCHOWDHARY	4	4	4
4	AKASHKUMARPARIDA	4	5	4
5	AMRUDH MEHTA	4	5	4
6	ANKITSAMAL	4	4	4
7	ASHUTOSHOKEH	4	5	4
8	AYUSHKUMAR	4	5	4
9	BALMUKUNDKUMAR	5	4	4
10	BISHNUPRASADKHTIK	5	5	4
11	BISWAJITPATTANAYAK	5	5	4
12	DEBASISHSAHOO	4	5	4
13	DEEPAKROUL	5	5	4
14	DEEPUKUMAR	5	5	4
15	FAIZANSAYEED	5	4	4
TOTAL			304	307	340
PERCENTAGE			71.09	66.19	80

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Employer Feedback Form for Assessment of Program Outcomes (POs) and Program-Specific Outcomes (PSOs)

Dear Employer,

We sincerely appreciate your time in providing valuable feedback regarding our graduates employed in your organization. Your insights will help us assess and enhance the quality of our academic programs. Kindly take a few minutes to complete this form. Your responses will be kept confidential and used solely for academic improvement.

Name of the Organization: _____
Employer's Name & Designation: _____
Contact Number: _____
Email ID: _____
Number of GITA Autonomous College Graduates Employed in Your Organization: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your experience with our graduates, using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Outcome (PO)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.

4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues relevant to engineering.
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.
10.	Communication: Ability to communicate effectively in professional and social contexts.
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.
12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program-Specific Outcomes (PSOs)based on your experience with our graduates, using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)
1.	should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of semiconductor technology, consumer electronics, embedded system, communication networking and other relevant areas.
2.	Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to Electronics & Communication engineering for solving real world problems.
3.	Should have the capability to analyze, comprehend, design & develop electronic subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.

Additional Feedback

1. How well do our graduates meet your expectations in terms of technical and professional skills?

2. What improvements would you suggest in our curriculum to better align with industry requirements?

3. Would you be interested in collaborating with us for guest lectures, internships, or industry projects? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us enhance the learning experience for future graduates.

Signature: _____
Date: _____
GITA Autonomous College,Bhubaneswar

Analysis of Employer feedback for the attainment of the POs
EMPLOYER FEEDBACK ANALYSIS ECE (2018-2022)

Sl.No	Name of the Employer	Graduate attributes from PO1 to PO12											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	Spherwell	5	5	5	5	4	5	4	4	5	5	5	5
2	Mphasis	5	4	4	4	4	4	4	4	5	5	5	5
3	College Lit(Jdl	4	4	4	4	4	4	4	4	4	4	4	4
4	WIPRO Ltd.	5	5	5	5	5	5	5	5	5	5	5	5
5	Maventic	4	4	5	5	5	5	5	5	5	5	5	5
6	OmanGains Financial India Pvt. Ltd.	4	4	4	4	4	4	5	5	4	4	4	4
7	Utpreh (Data Analyst)	5	5	5	4	4	4	5	5	5	5	5	4
8	Infinite Computer Solutions	4	4	4	4	4	5	5	5	5	5	5	4
9	College Lit(Jdl	5	5	5	4	4	4	4	4	4	5	5	5
10	CitrusTech, Golletara	4	5	5	4	4	5	5	4	4	5	5	4
11	Unschool	4	4	5	5	5	5	5	4	5	5	4	4
12	Quest (Base)	5	4	4	4	4	4	4	4	5	5	5	5
13	Utpreh (software)	4	4	4	4	4	5	5	5	5	5	5	4
14	Cellebera	4	4	4	4	4	5	5	5	5	5	5	4
15	Flexpress	4	4	4	4	4	4	4	4	4	4	4	4
16	Infosys	5	5	5	4	4	4	4	4	4	5	5	5
17	TCS	4	5	5	4	4	5	5	4	4	5	5	4
18	Tech Wellness	4	4	5	5	5	5	5	5	5	5	4	4
19	ESSPL	5	5	5	5	4	4	4	4	4	5	5	5
20	Hack with Info	5	4	4	4	4	4	4	4	5	5	5	5
21	Capgemini	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL		99	99	101	93	96	99	96	93	98	103	99	93
PERCENTAGE		88.57142857	87.61904762	90.4762	88.4762	85.81	88.571	90.47619	85.57143	88.47619	96.19048	94.28571	88.5714 2

EMPLOYER FEEDBACK ANALYSIS ECE (2019-2023)

Sl. No	Name of the Employer	Graduate attributes from PO1 to PO12											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

1	Urjanet (Itron)	5	4	5	4	5	4	5	5	4	5	4	4		
2	Infinite Computer Solutions	5	5	5	4	5	4	5	5	5	5	5	5		
3	RAMTeCH	5	5	4	5	5	5	4	5	5	5	5	4		
4	Manikaran Power Ltd.	4	5	3	4	5	4	5	5	4	5	5	5		
5	TCS Ninja	5	4	5	5	5	5	4	4	5	4	5	5		
6	Cologix Ltd.	5	5	4	5	4	5	5	5	5	5	4	4		
7	CSM Technologies	5	5	5	5	4	5	5	4	5	5	5	5		
8	HEXAWARE TECHNOLOGIES	5	5	4	4	5	5	5	5	5	5	5	5		
9	JSW	5	4	4	4	5	5	5	5	5	5	5	5		
10	Capgemini	4	5	4	5	4	5	5	5	5	5	5	5		
11	Continental	5	4	5	5	5	4	4	5	4	5	5	5		
12	Kronos	5	5	5	4	5	5	5	5	5	5	4	4		
13	Web-Fosters	5	5	5	5	4	5	5	4	5	5	5	5		
14	Marvelor	5	5	4	4	5	5	5	5	5	5	5	5		
15	Mediakind	5	4	5	5	5	5	4	5	5	5	5	5		
	TOTAL		73	68	70	71	74	73	74	75	75	77	77	79	
	PERCENTAGE		97.33	90	93	91.25	92.5	93.75	95	93.75	93.75	96.25	96.25	99	

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Parents Feedback Form for Assessment of Program Outcomes (POs) and Program Specific Outcomes (PSOs)

Dear Parent/Guardian,

Your valuable feedback is crucial in assessing and improving the quality of our academic programs. Kindly take a few minutes to fill out this form to help us evaluate the Program Outcomes (POs) and Program Specific Outcomes (PSOs) of our students. Your responses will be kept confidential and used solely for academic enhancement.

Student's Name: _____
Year of Study (e.g., 1st, 2nd, 3rd, 4th): _____
Parent/Guardian Name: _____
Contact Number: _____
Email ID: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your observations of your child's academic and professional growth at GITA Autonomous College, Bhubaneswar using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Outcome (PO)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.
4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues relevant to engineering.
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.
10.	Communication: Ability to communicate effectively in professional and social contexts.
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.
12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program Specific Outcomes (PSOs) based on your observations of your child's academic and professional growth at GITA Autonomous College, Bhubaneswar using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)
1.	should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of semiconductor technology, consumer electronics, embedded system, communication networking and other relevant areas.
2.	Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to Electronics & Communication engineering for solving real world problems.
3.	Should have the capability to analyze, comprehend, design & develop electronic subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.

Additional Feedback

1. How do you perceive the impact of our academic programs on your child's personal and professional development?

2. What improvements would you suggest in our curriculum to better prepare students for their careers?

3. Would you be interested in participating in alumni-college interaction programs? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us improve the learning experience for our students.

Signature: _____
Date: _____
GITA Autonomous College ,Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Student Satisfaction Survey (SSS)

Dear Student,

Your feedback is valuable in assessing the quality of education and facilities provided in the institution. Kindly take a few minutes to complete this survey. Your responses will be kept confidential and used for academic improvement.

Student Name (Optional): _____
Batch (Year of Graduation): _____
Email ID: _____

Section 1: Teaching-Learning and Academic Environment

Please rate the following aspects on a scale of 1 to 5:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Parameters
1.	The syllabus is well-structured and relevant to the industry.
2.	The faculty members are knowledgeable and provide effective teaching.
3.	Course materials, resources, and references are adequate and useful.
4.	Availability of faculty members for guidance and mentoring.
5.	Effectiveness of practical sessions and laboratory facilities.
6.	Exposure to latest technologies, tools, and programming languages.
7.	Encouragement for research, innovation, and project-based learning.
8.	Use of modern teaching aids (Smart Classrooms, ICT tools, etc.).
9.	Opportunities for industrial training, internships, and workshops.
10.	Quality of assessments and fairness of grading.

Section 2: Infrastructure and Learning Resources

Sl. No.	Parameters
1.	Availability and accessibility of library resources (books, e-resources, etc.).
2.	Functionality and accessibility of computing facilities and laboratories.
3.	Internet and Wi-Fi availability for academic purposes.
4.	Classroom environment, seating, lighting, and overall cleanliness.
5.	Sports, extracurricular activities, and recreational facilities.

Section 3: Career Readiness and Placement Support

Sl. No.	Parameters
1.	Effectiveness of placement and career guidance programs.
2.	Industry collaborations, MoUs, and expert lectures.
3.	Opportunities for higher studies and competitive exam preparation.
4.	Alumni interactions and networking support.
5.	Entrepreneurship and startup encouragement.

Section 4: Overall Satisfaction and Suggestions

1. How satisfied are you with the overall learning experience at GITA Autonomous College? (1 to 5) _____

2. What do you like the most about the program?

3. What improvements would you suggest for better learning outcomes?

4. Any additional comments or feedback

Thank you for your valuable feedback! Your responses will help us improve the quality of education and enhance the student experience.

Signature: _____
Date: _____
GITA Autonomous College ,Bhubaneswar

5.2.2 Provide results of evaluation of each PO & PSO (R)

PO Attainment

Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Engineering	2.47	2.47	2.47	2.47	2.46	1.94	0	0	0	0	0
Basic elect	2.47	2.48	2.47	2.48	0	0	2.77	2.46	0	0	2.47
Basics of C	2.47	2.48	2.48	2.48	2.45	0	2.77	2.46	0	2.48	2.47
Communicu	2.47	2.44	2.44	2.46	2.48	0	2.77	2.47	0	2.46	2.47
Engineering	2.48	2.48	2.48	2.50	2.48	2.47	2.77	2.46	2.47	2.47	2.47
Engineering	2.48	2.48	2.48	2.37	0	0	0	0	0	0	0
Basics of st	2.48	2.44	2.48	2.50	0	0	0	0	0	2.49	2.48
Engineering	2.47	2.47	2.48	2.50	2.46	0	0	0	2.46	2.48	2.48
Programma	2.48	2.47	2.48	2.50	2.48	2.46	2.47	2.46	2.48	2.48	2.48
Business I	2.48	2.47	2.48	2.50	0	2.46	2.47	2.48	0	0	2.48
Engineering	1.95	1.79	1.75	1.80	1.95	0	1.95	1.95	1.94	2.01	0
Data structu	1.98	1.94	1.15	1.10	1.79	1	2.01	2.21	2.24	2.14	0
Organizatio	1.98	1.74	1.78	1.80	1.94	0	2.04	2.00	1.97	1.97	PO11
Analog Ele	1.72	1.75	2.01	1.81	1.96	0	2.03	2.06	1.80	1.97	0
Digital Syst	1.62	1.79	2.11	1.80	1.99	1	2.00	2.21	2.05	2.06	1
Universal H	1.92	2.01	2.23	1.94	1.74	0	1.97	2.24	1.95	1.95	0
Environme	1.94	2.02	2.24	2.23	1.75	0	1.99	2.20	1.84	1.83	0
Analog Ele	1.98	1.98	1.94	2.04	1.70	0	2.01	2.27	1.99	1.84	0
Digital Syst	2.01	2.22	2.24	2.25	2.21	1	2.03	1.95	2.21	1.95	0
Data Struct	1.93	1.91	1.72	1.84	1.79	0	2.03	2.21	1.80	1.84	1
Employabilit	1.58	1.58	1.68	1.75	1.97	0	2.22	2.23	2.14	2.10	0
Microproce	2.22	1.91	1.98	1.79	2.23	1	2.25	1.80	1.82	1.91	0
Basic Electr	2.01	2.20	2.01	2.09	1.93	1	1.98	1.90	2.09	2.09	0
Electromag	1.98	1.71	1.92	1.94	1.93	1	1.91	2.06	2.04	2.00	1
Engineering	1.94	2.07	1.98	2.09	1.72	1	2.00	2.21	2.03	2.14	0
Analog and	1.98	1.78	1.99	1.94	1.74	1	1.93	1.99	1.97	1.94	1
Wireless C	1.93	1.97	1.94	1.78	1.75	1	1.7	1.95	1.86	2.02	1
Introductor	1.98	1.97	1.98	1.77	1.96	1	1.71	1.75	1.74	1.91	0
Exercise of	1.98	2.18	1.90	1.93	2.05	1	1.95	2.06	2.09	2.11	0
Digital VLSI	1.72	1.91	2.08	1.93	1.96	1	2.24	1.97	1.47	1.91	0
Control Sys	1.98	2.01	1.93	1.94	1.99	1	1.98	2.05	2.09	2.20	1
MINI PROJ	1.72	1.93	1.97	1.71	1.93	0	1.95	1.89	1.84	1.93	0
Internet of t	1.98	2.04	1.78	1.96	1.99	0	2.21	2.26	1.96	1.97	1
Microwave	1.93	2.05	2.13	1.97	1.91	0	1.94	1.95	1.90	1.89	0
Python For	1.93	2.08	2.14	1.94	1.97	0	1.93	1.99	1.97	2.09	0
Computer N	1.99	2.18	2.18	2.08	1.99	0	1.97	1.95	1.89	2.07	1
Mobile Cor	1.95	2.02	2.18	2.02	1.91	0	2.24	1.95	1.47	1.92	0
Operating S	1.98	1.78	1.93	1.93	1.75	0	1.71	1.73	1.74	1.91	0
Employabilit	1.58	1.72	1.58	1.95	1.78	0	1.78	1.75	1.80	1.94	0
Internet Of	2.04	1.78	1.98	1.89	1.93	0	1.96	2.02	2.01	2.03	1
Microwave	2.06	1.98	1.97	1.71	1.95	0	1.95	2.05	2.09	2.11	0
Seminar- I	2.18	1.93	2.13	1.78	1.99	0	1.96	2.12	2.10	2.19	1
Grand Viva	1.98	1.97	2.03	1.95	1.98	0	2.01	2.10	1.98	2.03	1
Embedded	2.09	2.09	2.24	2.21	1.99	0	2.29	2.25	1.96	1.97	0
Cloud Com	1.93	1.93	2.02	2.03	2.05	1	2.03	2.24	2.25	1.94	0
Remote Su	1.92	1.99	2.04	2.09	1.94	1	1.96	1.97	1.94	1.74	0
Entrepreneu	1.98	1.71	2.08	1.94	1.97	0	2.10	2.03	2.11	1.91	0
Technical st	1.73	1.91	2.08	1.93	1.96	1	1.97	1.97	1.94	1.95	1
Minor Proje	1.73	1.98	2.11	1.95	1.97	1	2.13	2.15	2.04	1.97	1
Industrial Li	1.78	1.97	1.97	1.77	1.74	1	1.79	1.78	1.80	1.92	0
Summer Int	1.78	1.93	1.94	1.93	1.78	1	1.93	1.91	1.89	1.74	0
Seminar-II	1.74	1.94	1.78	1.93	1.91	1	1.79	1.91	1.95	1.95	1
Internship I	1.74	1.94	1.78	1.93	1.91	1	1.79	1.91	1.92	1.92	0
Grand Viva	1.78	1.91	1.94	1.93	1.93	1	1.78	1.93	1.74	1.93	1
Major Proje	1.93	2.01	1.92	1.94	1.99	1	2.03	2.04	2.15	1.97	0
Digital VLSI	1.93	1.93	1.93	1.97	1.93	1	1.91	1.93	1.94	1.93	1
Engineering	1.93	1.93	2.01	2.11	2.10	1	2.09	2.24	2.12	2.20	0
Employabilit	2.25	2.4	2.32	2.03	0	0	0	0	0	0	0
Basic Electr	2.6	2.93	2.67	2.36	0	2.05	2.11	2.50	0	0	0
Basic Civil I	2.24	2.48	2.11	2.05	2.45	2.45	0	0	0	0	2.25

Engineering	2.58	2.34	2.15	2.04	2.07	2.36	2.25	2.29	2.11	0	0
English Lea	2.47	2.38	2.50	1.04	2.50	0	0	2.11	2.40	2.25	2.11
Engineering	2.2	0.0	2.11	2.03	0	0	0	0	0	0	0
Bee Electri	2.38	2.05	2.50	2.04	2.4	2.25	0	0	0	0	2.38
Basic Mech	2.6	2.57	2.24	2.47	0	0	2.46	2.11	2.34	2.2	2.25
Workshop I	2.4	2.0	2.2	2.48	2.1	2.4	1.96	2.4	2.11	2.48	2.48
Programmi	2.52	2.55	2.45	2.47	2.11	0	0	2.11	2.45	2.48	1.95
Microproce	1.68	2.12	2.02	1.67	1.62	1	1.77	2.22	2.13	1.76	0
Digital Elec	1.84	1.79	1.89	2.10	2.14	1	1.97	1.77	2.09	2.12	0
Digital Sign	1.74	1.62	1.91	1.73	1.85	1	2.31	2.05	2.14	2.10	1
Introductor	1.74	1.68	1.62	1.90	2.04	1	2.14	2.01	2.20	1.91	1
OOPS usin	1.51	1.34	1.68	2.05	2.17	1	2.11	1.72	1.89	2.12	0
Intelligence	1.68	1.62	1.72	1.75	1.91	1	2.11	2.22	1.82	1.72	0
Mini Project	1.95	1.68	1.91	1.89	1.85	1	2.02	2.14	2.0	1.83	1
Summer Int	1.62	1.85	2.15	1.79	1.69	1	1.84	1.87	2.22	2.23	0
Analog and	1.73	1.89	2.11	1.94	1.95	1	1.47	1.46	1.47	1.90	1
Employabili	1.81	1.72	1.94	1.85	1.75	1	2.03	2.15	2.21	2.10	0

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Alumni Sur	2.6	2.4	2.3	2.2	2.65	1.85	1.75	1.95	2.1	2.2	2.4
Employer S	2.4	2.6	2.4	2.6	2.45	2.01	1.8	1.85	1.95	1.83	2.2
Exit Survey	2.4	2.38	2.2	2.1	1.89	2.2	1.85	1.85	1.89	2.01	2.1
Parent Feed	2.6	2.4	2.5	2.0	2.3	1.8	2.01	1.85	1.75	2.1	2.4

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
InDirect Attainment	2.5	2.44	2.3	2.39	2.31	1.96	1.88	1.76	1.92	2.06	2.28
Direct Attainment	1.97	2.01	2.05	2.03	1.88	1.27	2.09	2.04	2.08	2.02	1.86

PSO Attainment

Course	PSO1	PSO2	PSO3
Microprocessor and Mi	2.52	2.15	2.26
Wireless Communicati	2.15	2.21	2.15
Internet of Things (CS1	2.52	2.42	2.24
Remote Sensing And C	2.48	2.13	1.72
Engineering mathemat	2.46	2.47	2.49
Engineering chemistry	2.58	2.48	2.49
Basic electronics Engi	2.53	0	2.48
Basics of Civil Enginee	2.47	2.48	2.48
Communicative Englisl	2.47	2.49	2.48
Engineering mathemat	2.48	2.53	2.48
Engineering physics (C	0	0	0
Basics of Mechanical E	2.47	2.48	2.47
Engineering Mechanics	2.47	2.48	2.48
Programming for proble	2.49	2.48	2.47
Business Communicati	2.48	2.48	0
Engineering Mathemat	2.1	1.9	1.9
Data structure using C	1.8	1.8	1.7
Organizational Behavi	1.9	1.8	1.8
Analog Electronics Circ	2.23	2.1	1.71
Digital System Design	1.87	1.73	1.76
Universal Human Valu	1.74	1.72	1.76
Environmental Science	1.81	1.83	2.04
Analog Electronics Circ	2.01	2.23	2.05
Digital System Design	1.83	1.85	1.75
Data Structure using C	1.74	1.79	2.07
Employability Skill-II (C2	1.83	1.85	2.04
Electromagnetic Theor	1.89	1.79	1.91
Engineering economics	1.89	1.89	2.09
Digital Signal Process	1.87	1.71	1.78
Introduction to Machine	1.85	1.89	1.78
OOPs Using Java (CS1	2.05	2.1	2.04
Constitution of India (C	1.83	1.85	1.95
Microprocessors and M	1.89	1.71	2.09
Digital Signal Processir	1.85	1.85	2.09

Intelligent Computing L	1.83	1.83	1.68
Mini Project-I (C227)	2.04	2.08	1.88
Employability Skill-III (C	2.02	1.77	1.82
Control System Engine	1.91	1.98	0.29
Analog and Digital Cov	1.89	1.70	1.83
Analog and Digital Cov	1.89	1.79	1.67
Client Computing (C40	2.19	1.86	2.17
Computer Network Acc	1.71	2.03	2.13
Control System And D	1.73	1.88	1.88
Data Science (C408)	2.05	2.07	2.2
Digital VLSI Lab (C311	1.89	1.78	1.78
Embedded System Ar	2.03	2.10	2.19
Employability Skill-III	1.88	1.81	2.1
Employability Skill-IV (I	1.67	1.73	1.80
Entrepreneurship Cove	1.89	1.88	1.89
Essence of Indian Kno	1.83	1.83	1.75
Grand Viva (C470)	2.02	2.01	2.05
Industrial Lectors and I	2.05	2.02	2.03
Internet of Things	1.85	1.85	1.78
Internet Of Things Lab	1.88	1.88	1.99
Internship (C419)	2.03	2.03	2.03
Introduction to Database	1.91	1.81	1.71
Major Project (C421)	2.05	2.02	2.03
Microwave And Antenn	2.01	2.14	2.03
Microwave and Antenn	2.01	1.89	1.73
MINI PROJECT II (C3	1.85	1.83	1.85
Mini Project – II (C41	2.01	2.02	2.01
Mobile Computing (C3	2.02	1.88	2.18
Operating System (C3	1.94	1.89	1.76
Python For Data Scien	1.74	2.11	1.88
Seminar-1 (C302)	1.89	1.88	2.08
Seminar-II (C417)	2.01	2.02	2.04
Summer Internship (I)	2.09	1.91	1.85
Summer Internship-II (I	2.02	2.04	2.08
Technical Writing Essa	2.01	2.08	2.1
Digital VLSI Design (C	2.41	2.09	2.41
Engineering Chemistry	3	3	2.6
Basic Electronics Engi	3	2.2	2.25
Basic Civil Engineering	3	2	2.00
Engineering Graphics I	3	1.9	2.2
English Language Lab	3	1.7	2.8
Engineering Physics Lo	2.89	2	2.25
Basic Electrical Engine	2.25	2.50	2.40
Basics of Mechanical I	2	2.2	2.45
Workshop	1.8	2.1	2.2
Programming for Probl	2.39	2	2.11

PSO Attainment Indirect

Survey	PSO1	PSO2	PSO3
Exit Survey	2.1	1.82	2.1
Parent Feedback Surv	1.8	1.8	2.01
Alumni Survey	2.4	2.1	2.25
Employer Survey	2.1	2.8	2.25

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.08	1.99	2.05
InDirect Attainment	2.42	2.14	2.15

4 STUDENTS PERFORMANCE (100)

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of the program(I3)	60	60	60	60	60	120	120
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 (M1)	52	51	51	56	51	71	71
Number of students admitted in 2nd year in the same batch via lateral entry (I2)	0	5	0	4	5	14	5
Separate division students, if applicable (I1')	0	0	0	0	0	0	0
Total number of students admitted in the programme(I1 + I2 + I1')	52	56	57	54	56	85	76

Table 4.2

Year of entry	Total No of students admitted in the program (I1 + I2 + I1')	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means semester/ year of study)			
		1 year	2 year	3 year	
2024-25 (CAY)	52				
2023-24 (CAYm1)	56	45			
2022-23 (CAYm2)	57	43	47		
2021-22 (CAYm3)	54	43	47	44	
2020-21 (LYG)	56	47	46	46	45
2019-20 (LYGm1)	85	64	76	73	68
2018-19 (LYGm2)	74	69	72	69	52

Table 4.3

Year of entry	Total No of students admitted in the program (I1' + I2 + I1')	Number of students who have successfully graduated in stipulated period of study (Total of with Backlog + without Backlog)			
		1 year	2 year	3 year	
2024-25 (CAY)	52				
2023-24 (CAYm1)	56	51			
2022-23 (CAYm2)	57	51	57		
2021-22 (CAYm3)	54	50	54	54	
2020-21 (LYG)	56	51	56	56	50
2019-20 (LYGm1)	85	71	85	85	85
2018-19 (LYGm2)	74	71	74	74	74

4.1 Enrolment Ratio (20)

	I1 (From Table 4.1)	M1 (From Table 4.1)	Enrolment Ratio (M1/I1)*100
2024-25 (CAY)	60	52	86.67
2023-24 (CAYm1)	60	51	85.00
2022-23 (CAYm2)	60	51	85.00

Average [(ER1 + ER2 + ER3) / 3] : 85.56

Provisional : 16.30

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

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

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYG-m1 (2019-20)	Latest Year of Graduation minus 2 LYG-m2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	90.00	85.00	74.00
Y Number of students who have graduated without backlogs in the stipulated period	40.00	68.00	57.00
Success Index [W = Y / X]	0.80	0.81	0.77

Average SI [(W1 + W2 + W3) / 3] : 0.80

Assessment (VS * Average SI) : 12.00

4.2.2 Success rate in stipulated period (5)

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYG-m1 (2019-20)	Latest Year of Graduation minus 2 LYG-m2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	90.00	85.00	74.00
Y Number of students who have graduated in the stipulated period	90.00	85.00	74.00
Success Index [W = Y / X]	0.80	1.00	1.00

Average SI [(W1 + W2 + W3) / 3] : 0.93

Assessment (S * Average SI) : 4.67

Note : If 100% students clear without any backlog then also total metric 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	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	8.32	8.24	8.17
Total number of successful students (Y)	57.00	54.00	56.00
Total number of students appeared in the examination (Z)	57.00	54.00	56.00
API [X * (Y/Z)]	8.32	8.24	8.17

Average API [(AP1 + AP2 + AP3)/3] : 8.24

Assessment [AverageAPI] : 8.24

4.4 Placement, Higher Studies and Entrepreneurship (30)

Item	CWYrs1(2023-24)	CWYrs2(2022-23)	CWYrs3(2021-22)
Total No. of Final Year Students(N)	59.00	85.00	74.00
No of students placed in the companies or government sector(S)	41.00	64.00	55.00
No of students permitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	6.00	13.00	9.00
No of students turned entrepreneur in engineering/technology (Z)	3.00	2.00	4.00
Placement Index [(X / Y+Z)/N]	0.83	0.82	0.82

Average Placement [(P1 + P2 + P3)/3] : 0.82

Assessment [50 * Average Placement] : 27.75

Program Name : Electronics & Communication Engineering
Assessment Year : 2023-24 (CAYrel1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Shivali	2001287496	Arcadia	45348 10/12/2024
2	BIMAL KUMAR BEHERA	2001287136	Arcadia	45347 10/12/2024
3	BISWAYA KUMAR DASH	2001287137	Arcadia	45348 10/12/2024
4	CHANDHAL THAKUR	2001287138	Arcadia	45348 10/12/2024
5	CHANDAN JENA	2001287141	Arcadia	45350 10/12/2024
6	CHANDINI PRERNA	2001287143	Arcadia	45351 10/12/2024
7	Anuanan Mishra	2001287485	ARF Design Pvt. Ltd.	ARF/HR/133/13-MAR-2024
8	Asif Abhishek Sadajeev	2001287487	ARF Design Pvt. Ltd.	ARF/HR/143/13-MAR-2024
9	Digbinayan Behera	2001287486	ARF Design Pvt. Ltd.	ARF/HR/141/13-MAR-2024
10	Gaurav Shankar	2001287477	ARF Design Pvt. Ltd.	ARF/HR/142/13-MAR-2024
11	Lipsa Priyadarshini Barik	2001287489	ARF Design Pvt. Ltd.	ARF/HR/143/13-MAR-2024
12	Prathamesh Raj	2001287492	ASP OL Media	ASP-OL/6765862/11/DEC/24
13	Prasana Patra	2121287101	ASP OL Media	ASP-OL/6765863/11/DEC/24
14	Priyanka Priyadarshini Jena	2121287102	ASP OL Media	ASP-OL/6765864/11/DEC/24
15	Rajanay Singh	2121287103	ASP OL Media	ASP-OL/6765865/11/DEC/24
16	Ritu Raj Singh	2001287490	ASP OL Media	ASP-OL/6765866/11/DEC/24
17	Sandeep Kumar Yadav	2001287491	ASP OL Media	ASP-OL/6765867/11/DEC/24
18	SHUVENDU BARIK	2001287503	ASP OL Media	ASP-OL/6765868/11/DEC/24
19	ABHIJIT MISTRY	2001287111	ASP OL Media	ASP-OL/6765869/11/DEC/24
20	ABHIJIT PARIDA	2001287113	ASP OL Media	ASP-OL/6765870/11/DEC/24
21	ABHISHEK ANAND	2001287115	ASP OL Media	ASP-OL/6765871/11/DEC/24
22	ABHISHEK DAS	2001287117	ASP OL Media	ASP-OL/6765872/11/DEC/24
23	Abhijay Mohata	2001287490	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5209/9/4/2024
24	Nitish Kumar	2001287012	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5209/9/4/2024
25	Nanus Nehati	2121287100	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5210/9/4/2024
26	Sumanau Behera	2001287483	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5211/9/4/2024
27	Sudha Mohanty	2001287488	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5212/9/4/2024
28	Subhashree Panda	2121287104	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5213/9/4/2024
29	Subhra Sarthak Rout	2001287500	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5214/9/4/2024
30	Suraj Kumar Mishra	2001287501	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5215/9/4/2024
31	D. MOHAN KUMAR	2001287146	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5216/9/4/2024
32	DEEPAK KUMAR NAYAK	2001287147	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5217/9/4/2024
33	DEEPAK KUMAR PRADHAN	2001287149	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5218/9/4/2024
34	DEVI PRASAD SWAIN	2001287151	Cofoge Ltd.	SSB-HR/DEL/HI/9011/5219/9/4/2024
35	Rahul Kumar	2001287493	ESAF Small Finance	ESAF/HR/12-05-2023/1101
36	GODHULI RUTUPARNA	2001287153	ESAF Small Finance	ESAF/HR/12-05-2023/1102
37	Biswajit Biswal	2001287470	Hitachi (Layam Group)	HLG/HR/HR/202409/93
38	Pritiswa Prusty	2001287502	Hitachi (Layam Group)	HLG/HR/HR/202409/90
39	Pritu Kumar	2001287476	Hitachi (Layam Group)	HLG/HR/HR/202409/91
40	Rahul Kundu	2001287484	Hitachi (Layam Group)	HLG/HR/HR/202409/92
41	Sreeji Snigdha Mishra	2001287482	8 Abhishek Solutions	SA/HR/HR/202408/08/09/24

Assessment Year : 2023-23 (CAYrel2)

S.No	Student Name	Enrollment No	Employer Name	Appointment No
1	Ayush Kumar Sharma	2021257031	College Ltd.	17592145
2	Satya Ranjan Lenin	19012574 46	College Ltd.	17592146
3	Akhilesh Kumar	19012574 03	College Ltd.	17592147
4	Rohan Kumar	19012574 23	College Ltd.	17592148
5	Neeraj Kumar	19012574 29	College Ltd.	17592149
6	Aditi Banerjee	19012574 04	Lipsnet	LN/765499/16-Sep-23
7	V Sai Sandalp	19012574 02	Lipsnet	LN/765500/16-Sep-23
8	Rohit Kumar Ojha	19012574 49	Lipsnet	LN/765501/16-Sep-23
9	Ananyasanjaya Behera	19012574 96	Lipsnet	LN/765502/16-Sep-23
10	Sandeep Pradhan	19012574 65	Lipsnet	LN/765503/16-Sep-23
11	Ranjan Kumar Sanal	19012574 37	Lipsnet	LN/765504/16-Sep-23
12	Bimalit Pattanayak	19012574 13	Lipsnet	LN/765505/16-Sep-23
13	Debasish Sahoo	19012574 14	Lipsnet	LN/765506/16-Sep-23
14	Deepak Raut	19012574 15	Lipsnet	LN/765507/16-Sep-23
15	Anirudh Mehta	19012574 01	Infinite Computer Solutions	ECSL/Employee/123188R/59158/August 7, 2023
16	Harsh Mandal	19012574 22	Infinite Computer Solutions	ECSL/Employee/123189R/59160/August 7, 2023
17	Jyotirmayee Sahoo	19012574 06	Infinite Computer Solutions	ECSL/Employee/123189R/59160/August 7, 2023
18	Deepak Kumar	19012574 16	Infinite Computer Solutions	ECSL/Employee/123188R/59157/August 7, 2023
19	Akash Kumar Panda	19012574 08	Infinite Computer Solutions	ECSL/Employee/123188R/59156/August 7, 2023
20	Pritish Injeeti	19012574 17	Capgemini	8259661/468570, 08/14/2022
21	P Vanitha	19012574 36	Capgemini	8259661/468571, 08/14/2022
22	Pappu Kumar Das	19012574 33	Capgemini	8259661/468572, 08/14/2022
23	Rahul Verma	19012574 06	Capgemini	8259661/468573, 08/14/2022
24	Sobeauddin Ahmed Khan	19012574 44	Capgemini	8259661/468574, 08/14/2022
25	Shikha Kumari	19012574 47	Capgemini	8259661/468575, 08/14/2022
26	Shivani Shekhar	19012574 48	TCS Ninja	TCS/N/GT/2023/765623/KOLKATA/ 11-07-23
27	Ayush Kumar	19012574 16	TCS Ninja	TCS/N/GT/2023/765623/KOLKATA/ 11-07-23
28	Amit Sanal	19012574 08	RAMTeCH	RAMTeCH/INDIC/OD/230100
29	Bishnu Prasad Patra	19012574 12	RAMTeCH	RAMTeCH/INDIC/OD/230101
30	Kalpana Chhotia	19012574 21	RAMTeCH	RAMTeCH/INDIC/OD/230102
31	Payal Mohanty	19012574 33	RAMTeCH	RAMTeCH/INDIC/OD/230103
32	Mahendrani Kumari	19012574 11	RAMTeCH	RAMTeCH/INDIC/OD/230104
33	Poryata Mohanty	19012574 24	MobileMax	MM/INT/-PID/23/407888 Jun/7/2023
34	Ravi Raj	19012574 46	MobileMax	MM/INT/-PID/23/407890 Jun/7/2023
35	Malvika Madhvi	19012574 08	HEXAWARE TECHNOLOGIES	HEXTECH/N/23/23-4788/14.22 AUG/2023
36	Manish Kumar	19012574 20	Capgemini	8259661/468676/08/14/2022
37	Naveen Kumar	19012574 28	JSW	JSW/HR/18321705
38	Ramesh Kumar	19012574 96	JSW	JSW/HR/18321706
39	Prabhat Kanaa	19012574 34	Koolkast	Koolkast/HR/2214184
40	Subhamoy Chatterjee	20212573 92	Koolkast	Koolkast/HR/2214185
41	Gayatri Prangya Rath	19012574 45	Infinite Computer Solutions	ECSL/Employee/123188R/59159/August 7, 2023
42	Ranjan Kumar Sahoo	19012574 43	Infinite Computer Solutions	ECSL/Employee/123188R/59280/August 7, 2023
43	Raja Ramesh	19012574 41	Manikaran Power Ltd.	MPL/HR/ 2022/109
44	Ramesh Kumar	19012574 05	Maxmile	2204687752
45	Ramesh Panda	19012574 98	Web Posters	WP/HR/2204485203/101
46	SATYABRAT NAYAK	20212573 94	Web Posters	WP/HR/2204485203/102
47	SARBASHREE HALDAR	20212573 21	Web Posters	WP/HR/2204485203/103
48	SAMADARSHI PRAJNASHISHU DWARI	20212573 98	Web Posters	WP/HR/2204485203/104
49	S SUHANYA	20212573 85	Web Posters	WP/HR/2204485203/105
50	SABYASACHI SAHU	20212573 96	Web Posters	WP/HR/2204485203/106
51	SASMITA PRAHARAJ	20212573 92	Web Posters	WP/HR/2204485203/107
52	NEWTON DAS	19012575 18	Maxmile	2204687753
53	PINAKI SAHOO	19012575 58	Maxmile	2204687754
54	PRAGYAN MOHAPATRA	19012575 56	Maxmile	2204687755
55	PRAMITA PADHY	19012577 24	Maxmile	2204687756
56	SHARIKA KESHRI	19012577 02	Maxmile	2204687757
57	SATYA PRAKESH KOKA	20212573 03	CSM Technologies	CSM/545346.27/1241
58	SANTOSH BEHERA	20212573 56	CSM Technologies	CSM/545346.27/1242
59	SAJAN JYOTI SAHOO	20212573 97	CSM Technologies	CSM/545346.27/1243
60	NIKHIL KUMAR SINGH	19012573 54	CSM Technologies	CSM/545346.27/1244
61	PIYUSH KAR	19012578 22	Continental	65562369-13/06/23
62	PRAMOD RAGHAVAIYYA	19012576 96	Continental	65562370-13/06/23
63	RAJASHREE DEHURY	19012577 58	Continental	65562310(1-13/06/23
64	SAMIR KUMAR BAG	20212575 99	Continental	65562310(-13/06/23

Assessment Year : 2021-22 (CAY+1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ASHLESH DWIVEDY	1801297692	Spikenet	SW/879065/14-Jan-22
2	ADYASHA MAHA	1801297614	Spikenet	SW/879058/14-Jan-22
3	DAMODAR SAHOO	1801297690	Spikenet	SW/879061/14-Jan-22
4	DEEPAK KUMAR PATHY	1801297693	Spikenet	SW/879062/14-Jan-22
5	GULSHAN KUMAR MALLICK	1801297710	Spikenet	SW/879063/14-Jan-22
6	AJIT KUMAR PANIGRAHY	1801297616	Mphasis	MPHTH_CD2022-1738
7	JAFAR JAMAL	1801297110	Mphasis	MPHTH_CD2022-1737
8	PRINCE KUMAR	1801297182	Spikenet	SW/879064/14-Jan-22
9	RITESH KUMAR	1801297146	Mphasis	MPHTH_CD2022-1736
10	PRATAP KUMAR DALAI	1801297126	Mphasis	MPHTH_CD2022-1735
11	AMIT KUNDU	1801297027	College Link	ESS-HR/DEU-E9001/4180
12	KUMAR ABHISHEK JENA	1801297129	College Link	ESS-HR/DEU-E9001/4181
13	SHAH KAMRUL AREFIN	1801297134	College Link	ESS-HR/DEU-E9001/4182
14	SORABH KUMAR	1801297255	College Link	ESS-HR/DEU-E9001/4183
15	PRITVEER SINGH	1801297239	College Link	ESS-HR/DEU-E9001/4184
16	B KANDARPNA DAS	1801297047	College Link	ESS-HR/DEU-E9001/4185
17	ARPITA AMBASTHA	1801297051	Mphasis	MPHTH_CD2022-1740
18	BINDOMI MISTRY	1801297073	Mphasis	MPHTH_CD2022-1741
19	RASHI RANI	1801297283	Mphasis	MPHTH_CD2022-1742
20	AFJISH KUMAR	1801297064	WIPRO Ltd.	HR/WD55 20011022
21	RAHUL DHEETRI	1801297154	WIPRO Ltd.	HR/WD57 20011022
22	SOURAV KUMAR	1801297299	WIPRO Ltd.	HR/WD58 20011022
23	SUNIL KUMAR PANDA	1801297281	College Link	ESS-HR/DEU-E9001/4186
24	SUSHMITA	1801297285	ESSPL	ESSPL/HR/2022/501
25	SWAGATIKA NAYAK	1801297282	ESSPL	ESSPL/HR/2022/502
26	NILOTPALA JENA	1801297666	ESSPL	ESSPL/HR/2022/503
27	DATTATRAYA SAMAL	1801297695	Urjanet	UN/795711/15-Aug-22
28	GYANARANJAN JENA	1801297696	Urjanet	UN/795712/15-Aug-22
29	BISWAJIT SAHU	1801297580	DreamGains Financial India Pvt. Ltd.	DGFI-HR/946780/17-Jan-22
30	SHANKAR CHAKRABORTY	1801297239	DreamGains Financial India Pvt. Ltd.	DGFI-HR/946781/17-Jan-22
31	TRISHA CHOWDHURY	1801297117	Infinix Computer Solutions	ICSL/Employee/1290/BR/50185/August 27, 2022
32	URVASHI KUMARI	1801297301	Infinix Computer Solutions	ICSL/Employee/1290/BR/50186/August 27, 2022
33	MOHAMMED ZAHABUL HAQUE	1801297149	Collabera	Collabera/HR/2022/759
34	SHOUVIK MONDAL	1801297239	Wipro Ltd.	HR/WD55 20011022
35	PUMELA CHANDA	1801297212	Hexaware	HEXA/8797/06/16-JAN-22
36	PAVAN MISHRA	1801297184	Unichool	UNS/HR/2022/0441
37	SOUMYARANJAN MOHANTA	1801297205	Tech Mahindra	TM/HR/2022/0226
38	VISHAL KUMAR	1801297313	Capgemini	6259662/1486678, 08/1/2022
39	ASHLEY MISTRY	1801297368	Capgemini	6259662/1486671, 08/1/2022
40	ASHLEY PARIDA	1801297391	Capgemini	6259662/1486672, 08/1/2022
41	ASHUTOSH ANAND	1801297373	Capgemini	6259662/1486673, 08/1/2022
42	ASHUTOSH DAS	1801297399	Capgemini	6259662/1486674, 08/1/2022
43	ASHUTOSH KUMAR PRASAD	1801297397	Capgemini	6259662/1486675, 08/1/2022
44	ASWAS NAYAK	1801297409	Capgemini	6259662/1486676, 08/1/2022
45	ATEEB AHMAD SIDDIQUI	1801297421	Capgemini	6259662/1486677, 08/1/2022
46	AJIT KUMAR PANDA	1801297433	College Link	ESS-HR/DEU-E9001/4187
47	AKASH KUMAR NAYAK	1801297445	College Link	ESS-HR/DEU-E9001/4188
48	ALOK KUMAR SAHU	1801297457	College Link	ESS-HR/DEU-E9001/4189
49	BIBHAN SANJIPAD MANOHAR	1801297469	College Link	ESS-HR/DEU-E9001/4200
50	BIKASH RANJAN HOTA	1801297481	College Link	ESS-HR/DEU-E9001/4201
51	BIMAL KUMAR BEHERA	1801297493	Mphasis	MPHTH_CD2022-1743
52	BISWAYA KUMAR DASH	1801297505	Mphasis	MPHTH_CD2022-1744
53	CHANCHAL THAKUR	1801297517	Mphasis	MPHTH_CD2022-1745
54	CHANDAN JENA	1801297529	Mphasis	MPHTH_CD2022-1746
55	CHANDNI PRERNA	1801297541	Mphasis	MPHTH_CD2022-1747

4.5 Professional Activities (20)

4.3.1 Professional societies/chapters and organizing engineering events (1)

The students of the ECE department actively participate in various nationally recognized professional societies. With the department's full support, they organize a range of technical and non-technical events, including seminars, industrial talks, coding competitions, and more. Some of the events organized by the students are listed below.

SL No	Professional Society
1	IETE
2	IEONDIA
3	IETE

Organizing Engineering Events in CAYm1(2023-24)

SL No	Date	Event Name	Resource Person
1	10.04.2024	Seminar talk on python	Ranjan Kumar Das(pythonsoft LLP)
2.	09.02.2024	Arudino Programming training	Er. Rakshan Kumar(ALTRON)
3.	13.01.2024	Seminar talk on photoelectronics	Dr(prof)Abinash Panda
4.	12.12.23to 13.12.23	competition program on robotics	Prof(Dr) kalipraswas pwain(TRIDENT ENG COLLEGE)
5	06.09.23 TO 07.09.23	INTERNAL SMART INDIA HACKATHON ORGANISED BY ECE DEPARTMENT	

Organizing Engineering Events in CAYm1(2022-23):

1.	03.04.2023	Training on PCB Design	Er.Biswajit Nayak
2	09.02.2023	Seminar talk on Fabrication of MOSFET	Dr(Prof) Soumya ranjan Samal
3	09.01.2023	Training on MATLAB Programming	DR. PANKAJ KU. PRUSTY(SOA UNIVERSITY)
4	14.12.22	Robotics competition	DR.TARAPRASSAN DASH(SOA UNIVERSITY)
5	12.09.22	Seminar Talk on Machine learning	Dr. Santosh behera

Organizing Engineering Events in CAYm1(2021-22):

1.	13.05.22	Seminar talk on VHDL Programming	Dr. Biswaranjan Barik
2	07.02.22	Online trainning on python	Er Ranjan Das
3	21.12.21	Online matlab programming training	DR. TARAPRASSAN DASH
4	06.10.21	Online technical quiz competition	

competition program of ROBOTICS dated on 12.12.23to 13.12.23

Seminar talk on python on dated 16.04.2024

Seminar Talk of Machine learning on dated 12.09.22 by Dr. Santosh Behera

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

Technical Magazine

Year	Title of Magazine	Chief Editor	Editors	Publisher	Frequency
	SANDHYARAG	Dr (prof) Prasantha Kumar Soul (PRINCIPAL)	Dr. Sagri Mahanty	GITA AUTONOMOUS COLLEGE	HALF YEARLY
	WALL MAGAZINE	SUJIT KHANDAI	SIMRAN RAY	Dept of ECE, GITA,BBSR	QUATERLY
2023-24	DORZAA	Prof.(Dr.) DILIP KUMAR NAYAK	PROF. SUBHADRA PRADHAN	Vidhyut, Dept of ECE, GITA,BBSR	Yearly
			PROF. SARITA MISHRA		
2022-23	DORZAA	Prof.(Dr.) G.PALAI	PROF. SUBHADRA PRADHAN	Vidhyut, Dept of ECE, GITA,BBSR	Yearly
			PROF. PARTHA SARATHI DAS		
2021-22	DORZAA	Prof.(Dr.) G.PALAI	PROF. KAUSALYA KUMAR SETHI	Vidhyut, Dept of ECE, GITA,BBSR	Yearly
			PROF. SUBHADRA PRADHAN		

SANDHYARAG

'Sandhyarag' ensembles literature, poetry, paintings, film reviews and many more forms of exhibition and documentation as a platform to nourish the creative senses of our students in pitching their artistic thoughts and new dimensions of looking at the world beyond the vacant realities.

Wall Magazine:

The students of Department of Electronics and Communication Engineering are encouraged to showcase their creativity in the non-technical domains such as Drawing, Poetry, Painting, Photography captured by the student, Stories, Articles on any new invention, etc. Their creative contribution is showcased in the Wall Magazine of Department of Electronics & Communication Engineering.

4.3.2 Participation in extra-curricular events by students of the program of study (10)

Student Achievement(Publications)

Sl. No.	Roll. No.	Regd. No.	Name	Selected Conference	Title	Name of Event	Date	Organised at
1	2007013	2001287479	Rita Kumar	National Seminar	Bridging The Gap: Between Technology And Forest Ecology: An Interdisciplinary Approach To Harvesty Monitoring And Growth Prediction	National Seminar on Electronics Devices, Circuits, and Systems (NSEDCS-2023)	23-24 Sept 2023	Berhampur University, Odisha
2	2007031	2001287465	Anuman Mishra	National Seminar	Bridging The Gap: Between Technology and Forest Ecology: An Interdisciplinary Approach to Harvesty Monitoring and Growth Prediction	National Seminar on Electronics Devices, Circuits, and Systems (NSEDCS-2023)	23-24 Sept 2023	Berhampur University, Odisha
3	2107028	2101287427	Sumakanta Panigrahi	International Conference	IOT based smart car parking system	4th International Conference on Intelligent Computing and advances in communication (ICAC-2024)	13-12-24	SOA, Bhubaneswar
4	1932035	1901287451	Sewan Kumar Satapathy	International Conference	Automated waste fuel detection	4th International Conference on Communication Circuits & Systems (ICCS-2023)	26-28 May 2023	KIIT, Bhubaneswar

Student Achievement(MOOCs)

Sl. No.	Roll. No.	Regd. No.	Student Name	MOOCs	Course	Remarks
1	2007002	2001287496	Anupam Jana	NPTEL	VLSI Design (Electrical Engineering)	Domain Certification
2	2309604	2301287757	Anupam Mohapatra	NPTEL	Digital Circuits	
3	2309605	2301287798	Ashish Kumar Mahanta	NPTEL	Digital Circuits	
4	2309612	2301287765	Chinmay Tripathy	NPTEL	Digital Circuits	Elite Silver (Topper 24%)
5	2309612	2301287765	Chinmay Tripathy	NPTEL	Electronic Systems Design: Hands-On Circuits and PCB Design with CAD Software	Elite Silver
6	2309629	2301287762	Subyavachi Khilar	NPTEL	Digital Circuits	
7	2309637	2301287798	Sourya Ranjan Samantara	NPTEL	Digital Circuits	
8	2309612	2301287765	Chinmay Tripathy	Coursera	Introduction to Digital Transformation Part I	
9	2309612	2301287765	Chinmay Tripathy	Coursera	Get Started with Spreadsheet Applications: Excel	
10	2309612	2301287765	Chinmay Tripathy	Coursera	Introduction to Generative AI	
11	2309612	2301287765	Chinmay Tripathy	Coursera	HTML and CSS: Building a Single-Page Website	
12	2309612	2301287765	Chinmay Tripathy	Coursera	Get Started with Presentation Applications: PowerPoint	
13	2309629	2301287762	Subyavachi Khilar	Coursera	Build a Professional Resume using Canva	
14	2309629	2301287762	Subyavachi Khilar	Coursera	HTML and CSS: Building a Single-Page Website	
15	2309630	2301287763	Sai Arpita Sahoo	Coursera	C for Everyone: Programming Fundamentals	
16	2309630	2301287763	Sai Arpita Sahoo	Coursera	Introduction to Generative AI	
17	2309630	2301287763	Sai Arpita Sahoo	Coursera	Get Started with Presentation Applications: PowerPoint	
18	2309630	2301287763	Sai Arpita Sahoo	Coursera	Programming for Everybody (Getting Started with Python)	

Student Achievement(Technical Events)

Sl. No.	Roll No.	Regd. No.	Name	Event	Position	Name of Event	Date	Organised at
1	22090 19	2201 2817 30	Nhasika Mishra	Tech Quiz	1st	25th ISTE State Level Student Convention	30-31 Aug 2024	Balasore College of Engineering and Technology, Balasore
2	22090 19	2201 2817 30	Nhasika Mishra	Coding Ninjas	2nd	25th ISTE State Level Student Convention	30-31 Aug 2024	Balasore College of Engineering and Technology, Balasore
3	22090 19	2201 2817 30	Nhasika Mishra	Debate	3rd	25th ISTE State Level Student Convention	30-31 Aug 2024	Balasore College of Engineering and Technology, Balasore
4	22090 28	2201 2817 38	S.K.Asif	Rotor Racing	1st	25th ISTE State Level Student Convention	30-31 Aug 2024	Balasore College of Engineering and Technology, Balasore
5	22090 28	2201 2817 38	S.K.Asif	Line Follower Racing	2nd	25th ISTE State Level Student Convention	30-31 Aug 2024	Balasore College of Engineering and Technology, Balasore
6	20070	5200 1387478	Pinku Kumar	Dance Competition	3rd	BPUT Tech Carnival	19th Nov 2023	Nalanda Institute of Technology, Bhubaneswar
7	20070	5200 1387478	Pinku Kumar	Relative Competition	1st	UDAYAN 2K3	23-25th January 2023	Trident Academy of Technology, Bhubaneswar

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Sr. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designation as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)
1	Dilip Kumar Nayak	ADXPN3881F	ME/M. Tech and PhD	28/11/2020	Signal Processing	10	1	0	Professor	03/07/2023	03/07/2023	Regular	Yes
2	Sarita Mitra	APCPM8881G	ME/M. Tech and PhD	13/08/2004	VLSI Design	16	1	0	Professor	13/08/2004	02/12/2013	Regular	Yes
3	Prabodhu Kumar Dalai	AHPPD1285L	ME/M. Tech and PhD	20/04/2015	Optics	11	1	0	Professor	31/08/2017	21/12/2011	Regular	Yes
4	Prakash Kumar Hota	AOWPH4923Q	ME/M. Tech and PhD	6/11/2017	Image Processing	11	0	0	Associate Professor	03/07/2019	01/07/2017	Regular	Yes
5	Subhadra Pradhan	ASLPP6826L	ME/M. Tech and PhD	10/04/2015	Image Processing	4	0	0	Associate Professor	03/07/2019	03/08/2009	Regular	Yes
6	Sritam Basu	ALWPB0950N	ME/M. Tech and PhD	02/04/2019	Communication Engineering	4	0	0	Associate Professor	03/04/2019	25/07/2008	Regular	Yes
7	Chandra Sekhar Mishra	APTPM8972F	ME/M. Tech and PhD	28/11/2022	Optics	10	1	0	Associate Professor	02/01/2025	01/08/2008	Regular	Yes
8	Parthasarathi Das	ANVPD0110D	ME/M. Tech and PhD	01/04/2020	Communication Engineering	3	0	0	Associate Professor	19/07/2020	12/08/2007	Regular	Yes
9	Sujit Khandai	AXGPK0851N	ME/M. Tech and PhD	04/04/2022	Signal Processing	5	0	0	Associate Professor	11/07/2022	03/08/2009	Regular	Yes
10	Yadlalya Kumar Sahu	BGHPS5743H	ME/M. Tech and PhD	19/08/2016	Optics	11	1	0	Associate Professor	03/07/2021	14/08/2011	Regular	Yes
11	Laban Chowdhury	BRHPC9012M	M.E/M.Tech	19/07/2019	Digital System Design	4	0	0	Assistant Professor		04/07/2017	Regular	Yes
12	Prangya Paramita Pradhan	BFXPP5408L	ME/M. Tech and PhD	31/08/2023	Image Processing	6	0	0	Assistant Professor		19/08/2023	Regular	Yes
13	Ipsita Nimaiberik	AYAPN6189K	M.E/M.Tech	09/06/2020	Electronics	3	0	0	Assistant Professor		08/01/2024	Regular	Yes
14	Lipsa Nayak	ANTPA9869L	M.E/M.Tech	09/08/2019	Communication Engineering	5	0	0	Assistant Professor		18/01/2019	Regular	Yes
15	Rajib Kumar Dash	AQCPD8886R	ME/M. Tech and PhD	09/08/2022	Digital System Design	11	0	0	Assistant Professor		02/09/2008	Regular	No
16	Subha Ranjan Dash	AQIPD3288E	ME/M. Tech and PhD	03/04/2023	Internet of Things	8	0	0	Assistant Professor		07/09/2011	Regular	Yes
17	Rahati Swain	HXOPS8229H	M.E/M.Tech	17/05/2021	Communication Engineering	4	0	0	Assistant Professor		09/09/2024	Regular	Yes
18	Anamyaka Kanungo	IZUPK1051H	M.E/M.Tech	19/06/2024	VLSI Design	3	0	0	Assistant Professor		01/07/2024	Regular	Yes
19	Ashirwad Dutta	BDHPD0557Q	M.E/M.Tech	05/02/2016	Antenna Engineering	8	0	0	Assistant Professor		24/08/2013	Regular	Yes
20	Gajanan Patel	AKDPP5481R	ME/M. Tech and PhD	31/08/2013	Optoelectronics	100	8	0	Professor	31/08/2015	01/07/2008	Regular	No
21	Mrutyunjay Rout	BAPR7594K	M.E/M.Tech	03/07/2017	Embedded System	4	0	0	Assistant Professor		04/07/2017	Regular	No
22	Dora Rath	CTYPR5340P	M.E/M.Tech	04/05/2016	VLSI Design	3	0	0	Assistant Professor		09/05/2016	Regular	No
23	Nidha Venkataramanu Sai Vara Prasad	QDWPS4254H	ME/M. Tech and PhD	31/01/2016	Applied Electronics	5	0	0	Assistant Professor		29/03/2016	Regular	No
24	Pankaj Kumar Biswal	AGHPB9040Q	M.E/M.Tech	10/02/2020	Applied Electronics	4	0	0	Assistant Professor		24/07/2020	Regular	No
25	Panchanan Sahoo	HBAPS3550L	M.E/M.Tech	09/02/2021	Optics	2	0	0	Assistant Professor		01/03/2021	Regular	No
26	Priyadarsini Guru	BESPG2859R	M.E/M.Tech	04/02/2021	VLSI Design	4	0	0	Assistant Professor		01/03/2021	Regular	No

5.1 Student-Faculty Ratio (SFR) (33)

UG

No. of UG Programs in the Department: 1

B.Tech in Electronics and Communication Engineering						
Year of Study	CAY (2024-25)		CAYm1 (2023-24)		CAYm2 (2022-23)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	60	5	60	6	60	4
3rd Year	60	5	60	4	60	7
4th Year	60	4	60	5	120	12
Sub-Total	180	15	180	15	240	23
Total	195		195		263	
Grand Total	195		195		263	

PG

No. of PG Programs in the Department: 2

M.Tech in Advance Communication Technology			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	6	6
2nd Year	0	0	0
Total	18	6	6

M.Tech in VLSI Design			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	18	6
2nd Year	18	6	6
Total	36	18	6
Grand Total	54	18	6

SFR

No. of UG Programs in the Department: 1

No. of PG Programs in the Department: 2

Description	CAY(2024-25)		CAYm1 (2023-24)		CAYm2 (2022-23)	
Total No. of Students in the Department(S)	240	Sum total of all (UG+PG) students	213	Sum total of all (UG+PG) students	251	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	18	F1	18	F2	19	F3
Student Faculty Ratio(SFR)	13.33	SFR1=S/F1	13.84	SFR2=S/F2	13.21	SFR3=S/F3
Average SFR	13.66	SFR=(SFR1+SFR2+SFR3)/3				

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

Note: All the faculty whether regular or contractual (except Part-Time) will be considered. The contractual faculty (doing salary 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 DVV 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(2024-25)	18	0
CAYm1(2023-24)	18	0
CAYm2(2022-23)	19	0

Average SFR for three assessment years : 13.66

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20)

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	1.00	5.00	2.00	7.00	6.00	8.00
CAYm1(2023-24)	1.00	5.00	2.00	7.00	7.00	4.00
CAYm2(2022-23)	1.00	5.00	2.00	6.00	6.00	10.00
Average Numbers	1.00	5.00	2.00	6.67	7.67	8.00

Centre Ratio Marks [(AF1 / RF1) + (AF2 / RF2) * 0.6) + ((AF3 / RF3) * 0.4)] * 10 : 20.00

6.3 Faculty Qualification (25)

	X	Y	A	PQ = 2 x [(10X + 4Y) / F]
2024-25(CAY)	10	8	12.00	24.00
2023-24(CAYm1)	12	4	11.00	27.27
2022-23(CAYm2)	11	6	13.00	21.85

Average Assessment : 24.38

6.4 Faculty Retention (10)

Description	2023-24 (CAYm1)	2024-25 (CAY)
No.of Faculty Retained	15	14
Total No. of Faculty	13	13
% of Faculty Retained	115	108

Average : 112.00

Assessment Marks : 10.00

6.5 Faculty competencies in correlation to Program Specific Criteria (10)

The faculty competency in correlation to Program Specific Criteria in the department of ECE is measures as per the guidelines of AICTE and other competent bodies. Few of the faculty competencies are mentioned below.

1. Faculties of the department of ECE have varieties of specialization in different thrust areas like VLSI Design, Signal Processing, Optics, Image processing, Communication Engineering, Internet of Things etc.
2. Due to the diversity in technical expertise of the faculties, students are encouraged to take the benefit of that. Students participate and perform in different state/national level competitions such as hackathons, project competitions, technical paper competitions etc.
3. Our faculties have published number of publications in reputed journals, conferences, and book chapters.
4. All the faculties are actively involved in industrial consultancy work.

Fig.5.1: Faculty Competencies in correlation to program specific criteria

Factors listed below are used as parameters in determining the competency level of the faculties.

1. Effective course delivery to students (Teaching skills).
2. Research Publications.
3. Industrial Consultancy.
4. Research grant received in the thrust area.
5. Course developed.
6. Product developed.

	Publications	Patents	Consultancy
CAY (2024-25)	46	07	Rs.6,25,000/-
CAY-1(2023-24)	11	02	Rs.4,20,000/-
CAY-2(2022-23)	22	00	Rs.6,10,000/-

Table 5.1: Research publication and consultancy details

Journal Reviewer:

Sl. No.	Faculty Name	Journal Name
01	Dr. Dilip Kumar Nayak	Journal of Vibration & Control(SAGE Journals), Journal of Optical Communication(De Gruyter).
02	Dr. G.Pete	Optik(Elsevier), Physica B(Elsevier),IJPAP(Springer),Photonics Journal of Poland Academic Science, IRJET(Springer),IEEE Access,Scientific Report(Elsevier), Frontiers of Optoelectronics.
03	Dr. Chandra Sekhar Mishra	Optik(Elsevier).

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

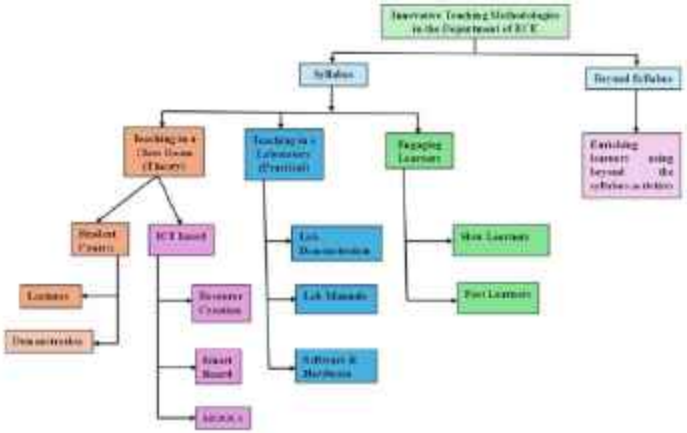


Fig. 5.1: Innovative Teaching Methodologies used in the Department of ECE

Faculty members in the Department of ECE uses different innovative teaching methodologies as shown in Fig.5.1. These innovative teaching methodologies are used in the classroom in addition to the conventional methods like, whiteboard teaching and sharing teaching materials. All the students are encouraged to solve their doubts in the class itself. Smart boards and projectors are extensively used by the faculties to benefit the students. These innovative methods encourage the students to be actively involved in the classrooms. The teachers design the lesson plan and plan learning objectives for better course delivery in the class. Regular assignments are given to the students to keep them engaged with the subject. Surprise Tests, Quizzes are carried out in all the subjects to implement the continuous evaluation process. The students are also helped by learning materials provided by the teachers to them. The learning material contains class notes and revised question papers so that the students are well prepared for the upcoming examination.

1. Both Faculties and Students are motivated to enroll in different MOOCs such as NPTEL, Coursera for increasing their knowledge base and improving skills.
2. Experts from industry and reputed institute have been invited to teach our students in a specialized area.
3. Interactive learning is encouraged through the use of smartboards. Faculty members involve the students in an active learning mode and conduct analytical quiz through online mode (Google forms) and offline mode (Paper and Pen).
4. Students are introduced to simulation-based learning using different tools for better understanding of theoretical concepts.
5. Students are exposed to latest developments in the industry through regular industrial visits.
6. Faculty encourages the use of community websites like GitHub, Open-source Software's while carrying out student projects.
7. Students are encouraged to carry out the research-based projects which lead to the publications.

Faculties are also encouraged to use different ICT tools like LCD Projectors, Smart boards in Teaching and Learning Process. It will help the faculties to represent the content in a more meaningful way.

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

Name of the faculty	Max S Per Faculty		
	2023-24(CAYear1)	2022-23(CAYear2)	2021-22(CAYear3)
Dr. Dilip Kumar Nayak	4.00	3.00	3.00
Dr. Prabodha Kumar Dalai	4.00	4.00	3.00
Dr. Sarita Mota	3.00	4.00	4.00
Dr. Subhadra Pradhan	4.00	3.00	4.00
Dr. Parthasarathi Das	4.00	3.00	4.00
Dr. Chandra Sekhar Mishra	5.00	4.00	4.00
Dr. Sujit Khandai	4.00	3.00	4.00
Dr. Prakash Kumar Hota	4.00	3.00	4.00
Dr. Srikra Basa	4.00	3.00	4.00
Dr. Ballabha Kumar Sethi	4.00	3.00	4.00
Dr. Pragya Paramita Pradhan	4.00	0.00	3.00
Dr. Sudha Ranjan Das	4.00	3.00	4.00
Ms. Ashirwad Dutta	5.00	4.00	4.00
Ms. Rohini Sheik	0.00	0.00	3.00
Mr. Lalan Choudhary	4.00	4.00	5.00
Ms. Lipsa Nayak	4.00	4.00	3.00
Dr. Raja Kumar Dash	0.00	4.00	5.00
Dr. Gopinath Patel	4.00	4.00	3.00
Dr. Mutha Venkateswara Sai Vara Prasad	0.00	4.00	4.00
Mr. Pradeep Kumar Bhoi	0.00	3.00	4.00
Ms. Priyadarshini Guru	0.00	4.00	5.00
Sum	65.00	69.00	74.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	12.00	11.00	11.00
Assessment [5*(Sum / 0.5RF)]	52.50	41.40	35.00

Average assessment over 3 years: 15.00

ILS Research and Development (TS)

Publication in Journals

Author Name	Year of Publication	Title of Research Paper	Journal Name	Publisher	Volume,pp
S. Misra	2025	Low-Frequency Noise Analysis of GSCG Double-Gate MOSFET in the Subthreshold Region (https://scholar.google.com/scholar?oi=bibs&cluster=17644744444533557&btnI=1&hl=en&as_sdt=0,5)	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields	John Wiley & Sons, Inc.	38. 1. 70025
S. Misra	2024	Optimization of microstructured Bori's mode distribution for high speed data transmission (https://link.springer.com/article/10.1007/s12596-024-01961-3)	Journal of Optics	Springer India	1-11
Chandra Sekhar Mishra	2024	Optimization of microstructured Bori's mode distribution for high speed data transmission (https://link.springer.com/article/10.1007/s12596-024-01961-3)	Journal of Optics	Springer India	1-11
Chandra Sekhar Mishra	2024	Bridging The Gap Between Technology and Forest Ecology: An Interdisciplinary Approach to Nursery Monitoring and Growth Prediction	Research Journal of Berhampur University R.J.B.U.	Berhampur University	7. 27-29
D. K. Nayak	2024	Cluster head selection for energy efficiency in wireless sensor networks: A grasshopper optimization approach	Proceedings on Engineering Sciences		
Chandra Sekhar Mishra	2024	Realization of 2D pressure sensor using germanium photonic crystal waveguide via FDTD method (https://pubs.sciepub.com/jaa/8/1/1/realization-of-2d-pressure-sensor-using-germanium-photonic-crystal-waveguide-via-fdtd-method)	Journal of Optoelectronics and Advanced Materials	INOE Publishing House	26. 5-6. 179-188
Chandra Sekhar Mishra	2024	Advancements And Challenges in Image Detection: A Deep Learning Perspective	Journal of Nonlinear Analysis and Optimization		15, 2:368-384
D. K. Nayak	2024	Advancements And Challenges in Image Detection: A Deep Learning Perspective	Journal of Nonlinear Analysis and Optimization		15, 2:368-384
P.S.Das	2024	Advancements And Challenges in Image Detection: A Deep Learning Perspective	Journal of Nonlinear Analysis and Optimization		15, 2:368-384
K.K.Sethi	2024	Advancements And Challenges in Image Detection: A Deep Learning Perspective	Journal of Nonlinear Analysis and Optimization		15, 2:368-384
A. Dutta	2024	Advancements And Challenges in Image Detection: A Deep Learning Perspective	Journal of Nonlinear Analysis and Optimization		15, 2:368-384
D. K. Nayak	2024	Optimization of Sag Structure	Journal of Nonlinear Analysis and Optimization		15, 2, 407-412
K.K. Datta	2024	Optimization of Sag Structure	Journal of Nonlinear Analysis and Optimization		15, 2, 407-412
P.S.Das	2024	Optimization of Sag Structure	Journal of Nonlinear Analysis and Optimization		15, 2, 407-412
P.K.Hota	2024	Optimization of Sag Structure	Journal of Nonlinear Analysis and Optimization		15, 2, 407-412
S. Basu	2024	Optimization of Sag Structure	Journal of Nonlinear Analysis and Optimization		15, 2, 407-412
P.K. Datta	2024	Detection Of Water Content in Biological Tissues using He-Ne Laser and 1d Photonic Waveguide	Journal of Nonlinear Analysis and Optimization		15, 2, 395-400
D. K. Nayak	2024	Detection Of Water Content in Biological Tissues using He-Ne Laser and 1d Photonic Waveguide	Journal of Nonlinear Analysis and Optimization		15, 2, 395-400
P.S.Das	2024	Detection Of Water Content in Biological Tissues using He-Ne Laser and 1d Photonic Waveguide	Journal of Nonlinear Analysis and Optimization		15, 2, 395-400
N.R.Das	2024	Detection Of Water Content in Biological Tissues using He-Ne Laser and 1d Photonic Waveguide	Journal of Nonlinear Analysis and Optimization		15, 2, 395-400

L. Choudhary	2024	Detection Of Water Content in Biological Tissues using Ho-Yag Laser and 1d Photonic Waveguide	Journal of Nonlinear Analysis and Optimization		15, 2, 395-402
P.P Pradhan	2024	Heartbeat and Body Temperature Monitoring of Bedridden Patients Based On Arduino Nano	Journal of Nonlinear Analysis and Optimization		15, 2, 401-406
S.Pradhan	2024	Heartbeat and Body Temperature Monitoring of Bedridden Patients Based On Arduino Nano	Journal of Nonlinear Analysis and Optimization		15, 2, 401-408
S.Wani	2024	Heartbeat and Body Temperature Monitoring of Bedridden Patients Based on Arduino Nano	Journal of Nonlinear Analysis and Optimization		15, 2, 401-409
J.Nimsarkar	2024	Heartbeat and Body Temperature Monitoring of Bedridden Patients Based On Arduino Nano	Journal of Nonlinear Analysis and Optimization		15, 2, 401-409
A.Kanungo	2024	Heartbeat and Body Temperature Monitoring of Bedridden Patients Based on Arduino Nano	Journal of Nonlinear Analysis and Optimization		15, 2, 401-409
R.S.Das	2024	Validation and Enhancement Of A ML Framework For Covid-19 Detection In Adults By Standard Blood Test: Emergency Departments	Journal of Nonlinear Analysis and Optimization		15, 2, 420-425
S.Khanda	2024	Validation and Enhancement Of A ML Framework For Covid-19 Detection In Adults By Standard Blood Test: Emergency Departments	Journal of Nonlinear Analysis and Optimization		15, 2, 420-425
D.A Nayak	2024	Validation and Enhancement Of A ML Framework For Covid-19 Detection In Adults By Standard Blood Test: Emergency Departments	Journal of Nonlinear Analysis and Optimization		15, 2, 420-425
S.R Das	2024	Validation and Enhancement Of A ML Framework For Covid-19 Detection In Adults By Standard Blood Test: Emergency Departments	Journal of Nonlinear Analysis and Optimization		15, 2, 420-425
L.Choudhary	2024	Validation and Enhancement Of A ML Framework For Covid-19 Detection In Adults By Standard Blood Test: Emergency Departments	Journal of Nonlinear Analysis and Optimization		15, 2, 420-425
S.Khanda	2024	Work Place: Study Of Employees In Hospitals Of Bihar	Journal of Nonlinear Analysis and Optimization		15, 2, 426-430
L.Choudhary	2024	Work Place: Study Of Employees In Hospitals Of Bihar	Journal of Nonlinear Analysis and Optimization		15, 2, 426-430
J.Nimsarkar	2024	Work Place: Study Of Employees In Hospitals Of Bihar	Journal of Nonlinear Analysis and Optimization		15, 2, 426-430
A.Kanungo	2024	Work Place: Study Of Employees In Hospitals Of Bihar	Journal of Nonlinear Analysis and Optimization		15, 2, 426-430
L.Nayak	2024	Work Place: Study Of Employees In Hospitals of Bihar	Journal of Nonlinear Analysis and Optimization		15, 2, 426-430
S.Wani	2024	Short Channel Effects: A Major Road Roadblock For Miniaturization Of MOSFETs	Journal of Nonlinear Analysis and Optimization		15, 2, 413-419
P.P Pradhan	2024	Short Channel Effects: A Major Road Roadblock For Miniaturization Of MOSFETs	Journal of Nonlinear Analysis and Optimization		15, 2, 413-413
S.Pradhan	2024	Short Channel Effects: A Major Road Roadblock For Miniaturization Of MOSFETs	Journal of Nonlinear Analysis and Optimization		15, 2, 413-419
R.Swain	2024	Short Channel Effects: A Major Road Roadblock For Miniaturization Of MOSFETs	Journal of Nonlinear Analysis and Optimization		15, 2, 413-413
L.Nayak	2024	Short Channel Effects: A Major Road Roadblock for Miniaturization Of MOSFETs	Journal of Nonlinear Analysis and Optimization		15, 2, 413-416
S.Pradhan	2024	Applying genomic insights and machine learning for accurate wheat grain identification	Journal of Nonlinear Analysis and Optimization		15, 2, 389-394

H.H Pradhan	2024	Applying geometric insights and machine learning for accurate wheat grain identification	Journal of Nonlinear Analysis and Optimization		15, 2, 389-394
S.Misra	2024	Applying geometric insights and machine learning for accurate wheat grain identification	Journal of Nonlinear Analysis and Optimization		15, 2, 389-394
I.Nimaiandu	2024	Applying geometric insights and machine learning for accurate wheat grain identification	Journal of Nonlinear Analysis and Optimization		15, 2, 389-394
A.Kumaran	2024	Applying geometric insights and machine learning for accurate wheat grain identification	Journal of Nonlinear Analysis and Optimization		15, 2, 389-394
Gopinath Palai	2023	A proposal for a Giga Pascal pressure sensor using one-dimensional photonic waveguide at 850/1310/1550 nm signal	Optical and Quantum Electronics	Springer	55(23), pp
S. Misra	2023	Investigation of graded channel effect on Analog/Linearity Parameter Analysis of junction less surrounded gate graded channel MOSFET	SN Applied Sciences	Springer Nature	Vol. 5(364)
S. Misra	2023	Study of DC and analog/RF performances Analysis of short channel curve-sided gate pointerless graded channel gate stack MOSFET	Transactions on Electrical and Electronic Materials	Springer	Vol. 24,pp.546-555
Chandra Sekhar Mishra	2023	The transmittance properties of the one-dimensional gyroidal superconductor photonic crystals (https://www.degruyter.com/docs/contents/10.1515/zna-2023-0178.html)	Zeitschrift für Naturforschung A/A Journal of Physical Sciences)	De Gruyter	78,12, 1153-1161
Chandra Sekhar Mishra	2023	A proposal for a Giga Pascal pressure sensor using one-dimensional photonic waveguide at 850/1310/1550 nm signal	Optical and Quantum Electronics	Springer	55 (1), 33
Gopinath Palai	2023	An Optimized Deep Learning Approach for the Prediction of Social Distance Among Individuals in Public Places During Pandemic	New Generation Computing	Springer	Volume 41, pp.155-164
Gopinath Palai	2023	First principles investigations for structural, electronic, optical and elastic properties of Ag2BaSn (2/3a) 4 chalcogenide in kesterite and stannite phases with theoretical SLME calculations.	Physics B: Condensed Matter	Elsevier	660, 414983
Gopinath Palai	2023	Modeling and performance analysis of ring resonator-based refractive index sensor for hardened water detection	Optical and Quantum Electronics	Springer	55 (363)
Gopinath Palai	2022	Renewable energy source based quality of service (QoS)-aware routing mechanism in cloud networks	Wireless Networks	Springer	28, 1705-1718
Gopinath Palai	2022	A decision support system for surveillance of smart cities via a novel aggregation operator on intuitionistic fuzzy sets	Multimedia Tools and Applications	Springer	81 (10), 22547-22939
Gopinath Palai	2022	Identification of Commonness (n-Cnn) Using a Two-dimensional (2-D) Photonic Crystal Structure (PCS) via the Plane Wave Expansion (PWE) Technique Using a Laser Diode (LD)	Lasers in Engineering		52,pp107-116
Gopinath Palai	2022	Identification of Novel Commonness (n-CnV) Using a Two-Dimensional (2-D) Photonic Crystal (PhC) Structure and Finite Element Method (FEM) Via a Violet Laser Beam	Lasers in Engineering		53 (5-6), 321-331
Gopinath Palai	2022	Design of triangular shaped slotted patch antennas for both wideband and multiband applications	International Journal of Applied Electromagnetics and Mechanics	IOP Press	vol. 68, no. 3, pp. 275-284
Gopinath Palai	2022	A proposal for vacuum ultraviolet torch using stannonic-based photonic crystal film	Indian Journal of Physics	Springer	96 (8), 1813-1819
Gopinath Palai	2022	A sensitive model and gain analysis of Raman-EDFA hybrid amplifier for DWDM system	Optical and Quantum Electronics	Springer	54 (6), 387
Gopinath Palai	2022	Deeply trained wireless body sensor networks for analyzing the symptoms of Parkinson's disease	IEEE Access	IEEE	10, 63403-63421
Gopinath Palai	2022	Investigation of Six Contamination Parameters Via a Two-dimensional (2-D) Photonic Structure (PhC) Using an Infrared (IR) Laser Beam	Lasers in Engineering	Old City Publishing	52
Gopinath Palai	2022	Realization of Optical DEMUX using Machine Learning Model: A Future Paradigm for Optical VLSI Systems	IETE Journal of Research	IETE	1-8
Gopinath Palai	2022	Towards a Highly Sensitive Pressure Sensor Using an Infrared (IR) Laser and a Two-dimensional (2-D) Photonic Crystal Waveguide.	Lasers in Engineering	Old City Publishing	53
Chandra Sekhar Mishra	2022	Towards a Highly Sensitive Pressure Sensor Using an Infrared (IR) Laser and a Two-dimensional (2-D) Photonic Crystal Waveguide.	Lasers in Engineering	Old City Publishing	53
A. Panda	2022	Towards a Highly Sensitive Pressure Sensor Using an Infrared (IR) Laser and a Two-dimensional (2-D) Photonic Crystal Waveguide.	Lasers in Engineering	Old City Publishing	53
Gopinath Palai	2022	Frontal slot loaded compact wearable button antenna for IOT and X-band applications	Wireless Networks	Springer	Volume 28, pp.589-605

Publication in Book Chapter:

Gopinath Patel	2022	Automated Test Case Prioritization Using Machine Learning	Meta Heuristic Techniques in Software Engineering and its Applications	Springer	Conference,Book Series
Gopinath Patel	2022	Energy efficient task allocation and consolidation in multicast cloud network	Wireless Networks	Springer	26 (8), 3348-3366
Gopinath Patel	2022	SMART and reliable HELMET devices For Automobile Applications	Computer Integrated Manufacturing Systems		28 (12), 998-1005

Author Name	Year of Publication	Title of Research Paper	Book Name	Publisher	ee
Chandra Sekhar Mishra	2023	Design and Analysis of L-shape Defect-based 2D Photonic Crystal Waveguide for Optical Interconnect Application with Signal Amplification	Nano electronics Devices: Design, Materials, and Applications Part 1	Bentham Sources	1-25
Gopinath Patel	2023	Understanding of Argon Fluid Sensor Using Single Quantum Well Through KP Model: A Bio-medical Application Using Semiconductor Based Quantum Structure (https://link.springer.com/chapter/10.1007/978-981-19-6530-6_30)	Quantum Computing: A Shift from Bits to Qubits	Springer Nature Singapore	393-409
Chandra Sekhar Mishra	2023	Understanding of Argon Fluid Sensor Using Single Quantum Well Through KP Model: A Bio-medical Application Using Semiconductor Based Quantum Structure (https://link.springer.com/chapter/10.1007/978-981-19-6530-6_30)	Quantum Computing: A Shift from Bits to Qubits	Springer Nature Singapore	393-409
Gopinath Patel	2022	Simulation and Analysis of an Optical Communication System Implementing DCF with Various Pulse Generators (https://link.springer.com/chapter/10.1007/978-981-19-2277-0_19)	Smart and Sustainable Technologies : Rural and Tribal Development Using IoT and Cloud Computing Proceedings of ICSST 2021	Springer Nature Singapore	211-219
S. Misra	2022	Analog/RF Performance Analysis of Dimensional Cylindrical Gate Junctionless Graded Channel MOSFET (https://link.springer.com/chapter/10.1007/978-981-19-6825-5_10)	Advances in Intelligent Computing and Communication Proceedings of ICAC 2021	Springer Nature Singapore	101-108

Publication in Conference:

Author Name	Year of Publication	Title of Research Paper	Conference Name
S.Misra	2024	Performance Analysis of junctionless gate all around MOSFET with gate metal engineering	5th International Communication
D.K.Nayak	2024	Performance Analysis of junctionless gate all around MOSFET with gate metal engineering	5th International Communication
P.P.Pradhan	2024	Performance Analysis of junctionless gate all around MOSFET with gate metal engineering	5th International Communication
S.Misra	2023	Low Frequency Noise Analysis in AlGaN/GaN HEMTs (https://www.ipfs.io/ipfs/bafkreiblbrcuvwnt/10291626)	1st International (CCPIS)
S.Misra	2023	Analytical Volume Inversion Charge density Modeling of SOCG DG MOSFET in the presence of Interfacial Traps (https://www.ipfs.io/ipfs/bafkreiblbrcuvwnt/10291370)	1st International (CCPIS)
S.Misra	2022	Explanatory Data Analysis on Shopping Mall Customers Dataset: A Case Study of Marketing Analysis (https://link.springer.com/chapter/10.1007/978-981-99-5015-7_18)	International Co Engineering
S.Misra	2022	Application of evolutionary techniques for mapping onto network on chip (https://link.springer.com/chapter/10.1007/978-981-19-8469-7_13)	International Co Research and C
Chandra Sekhar Mishra	2022	Realization Of an Accurate Glycosuria Sensor Using Silicon Based 1d (One Dimensional) Photonic Structure	International Co

5.4.2 Sponsored Research (22)

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
IoT based Nursery Manage	3 Years	State Horticulture Departm	2000000.00
			Total Amount(Y): 2000000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)

Cumulative Amount(X + Y + Z) =

5.8.3 Development activities (15)

Year	Name of the Product	
2023-24	Smart Bicycle	
2023-24	Humanoid	
2023-24	Digital Clock	
2023-24	Laboratory Instruction Manual for different laboratories such as NEC Lab, CSD Lab, MFMC Lab, DSP Lab, VLSI Lab etc	

Patent Information

Year	Name of the Faculty	Name of the Patent	Patent Application No.	Date of Filing
2024-25	Dilip Kumar Hayak	A naked eye cancer cells detection system and implementation method with a defect-based 2D photonic crystal structure	202531001822	09/01/2025
2024-25	Chandra Sekhar Mishra	A naked eye cancer cells detection system and implementation method with a defect-based 2D photonic crystal structure	202531001823	09/01/2025
2024-25	Pranjya Parsanta Pradhan	Advanced Anomaly Detection in IoT networks utilizing Deep learning techniques	202431071704	23/09/2024
2024-25	Subhasha Pradhan	Advanced Anomaly Detection in IoT networks utilizing Deep learning techniques	202431071704	23/09/2024

2024-25	Prabeshta Kumar Dalal	Advanced Anomaly Detection in IoT networks utilizing Deep learning techniques	2024101071704	23/08/2024
2024-25	Sarita Misra	Advanced Anomaly Detection in IoT networks utilizing Deep learning techniques	2024101071704	23/08/2024
2024-25	Dilip Kumar Nayak	Advanced Anomaly Detection in IoT networks utilizing Deep learning techniques	2024101071704	23/08/2024
2023-24	Dilip Kumar Nayak	Integrated hardware security module for securing embedded systems in IOT devices	2024101015945	03/02/2024
2023-24	Dilip Kumar Nayak	Implementation and Analysis of an AGI-powered Fuzzy-based Internet of Things health alert system	2024101001215	01/06/2024
2023-24	Sarita Misra	IOT based automated Wheam ion battery pack	2023019462095	10-07-2023

5.3.4 Consultancy (from Industry) (20)

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Photonic bases	12 Months	EPSUM LAB, N	210000.00
Advance mode	12 Months	N-Technology	220000.00
			Total Amount(X): 430000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Antenna Based	10 Months	Projectronics, I	100000.00
Speed control	11 Months	MTPCL, Bhubo	230000.00
			Total Amount(Y): 410000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Study of Nonmetallic Wheam	12 Months	EPSUM Lab, N	220000.00
Designing of Optical Loom	12 Months	OLTRON Tech	215000.00
			Total Amount(Z): 435000.00

Cumulative Amount(X + Y + Z) = 1275000.00

5.5 Faculty Performance Appraisal and Development System (FPADS) (10)

Faculty Performance Appraisal is done for each faculty in which they need to show their innovations and research along with their teaching for their self-development. The objective of this is to make sure all the faculties are well equipped to face changes in technology and develop expertise for effective implementation of curricula. The format of Faculty Performance Appraisal letter is provided in annexure.

Key points for faculty appraisal are:

1. Publication Details.
2. Teaching Lead and its effective delivery.
3. Result Analysis and Actions to improve performance of students.
4. Remedial coaching for slow learners.
5. Question bank generation for the benefit of students.
6. Professional Society Membership.
7. Professional Society Chapter (Student Branch) and the activities.
8. Workshops organized.
9. Workshops/Conferences attended.
10. Design of new laboratory experiments, if any.
11. Additional content covered in addition to regular curriculum.
12. Research work and activities and projects/consultancy to be carried out.
13. Other initiatives for department, college, campus.
14. Industry Interactions and Visits.
15. Placements related efforts.
16. Improvements in Teaching and Learning process and pedagogical innovations.
17. Exposure to research magazines, journals, and articles subscribed by the institution.

Sl. No.	Name of the Faculty	Membership Category	Membership No.	Name of the Society
01	Prof. D.K. Nayak	Senior Member	01167158	IEEE
		Fellow	F2302552	ISTE
		Life Member	LM134883	ISTE
02	Prof. P. K. Dalal	Life member	LM80714	ISTE
03	Prof. G. Palai	Life member	LM2281	Instrumentation Society of India
		Life member	1128	Indian LASER Association
		Life member	L241	Photonic Society of India
		Life member	20151665	Semiconductor Society of India
		Member	AM1000945	AMIE
04	Prof. K. Sethi	Life member	LM80012	ISTE
05	Prof. P.P Pradhan	Life member	LM87843	ISTE
06	Prof. P.B Das	Life member	LM80719	ISTE
		Member	G-044352-3	IE
07	Prof. S.Basu	Life member	LM80718	ISTE
08	Prof. S.Pradhan	Life member	LM80730	ISTE
09	Prof. A.Dutta	Life member	LM80722	ISTE
10	Prof. C.S.Mishra	Life member	LM2209	ISTE
11	Prof. R.K.Dash	Life member	LM80717	ISTE
12	Prof. S. Misra	Life member	LM81916	ISTE
13	Prof. E. Khandal	Life member	LM80681	ISTE
14	Prof. P. K. Hota	Life member	LM134858	ISTE
15	Prof. S. R. Das	Life member	LM135323	ISTE
16	Prof. R. Swain	Life member	LM135321	ISTE
17	Prof. L. Chaudhary	Life member	LM135342	ISTE
18	Prof. L. Nayak	Life member	LM136013	ISTE
19	Prof. I. Nemahendu	Life member	LM136421	ISTE
20	Prof. A. Kanungo	Life member	LM136125	ISTE

NPTEL Certification

Faculties of the Department enrol in different NPTEL courses regularly so that they update their knowledge base regularly and pass the knowledge gained to the students.

Academic Year	Name of the Faculty	Topic	Duration
2024-25	Mr. Ranjan Sahoo, Samsung, Bangalore	VLSI Design Flow and Tools used in Industries	19-08-24 to 31-08-24
2023-24	Mr. Prasant Hota, Dell Technologies, Bangalore	Application of Embedded System in different Industries	18-09-23 to 23-09-23
2023-24	Mr. Biswajit Nayak, PNT Services, Bhubaneswar	PCB Design	05-03-24 to 17-03-24
2022-23	Mr. Raushan Kumar, OLTROX Technology, Bhubaneswar	Programming with Arduino and Raspberry PI	13-03-23 to 25-03-23
2022-23	Dr. Bijit Nayak, Retired Scientist,CSIR-IMMT,Bhubaneswar	VLSI Design using VHDL	05-09-22 to 17-09-22

II FACILITIES AND TECHNICAL SUPPORT (80)

6.1 Adequate and well equipped laboratories, and technical manpower (40)

Sr. No	Name of the Laboratory	Number of students per set (optBatch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Basic Electroni	30	Analog Trainer	28 Hrs.	Ms. Priyadarsi	Lab Demonstr	B.Tech., Diplo
2	Analog Electro	30	Analog Trainer	04 Hrs.	Mr. Manoranjan	Lab Demonstr	Diploma
3	Digital System	30	Digital Trainer	08 Hrs.	Mrs. Mamata T	Lab Demonstr	Diploma
4	Digital Signal P	30	MATLAB Softw	04 Hrs.	Ms. Priyadarsi	Lab Demonstr	B.Tech.
5	Microprocessor	30	Intel 8085 Mot	08 Hrs.	Mrs. Mamata T	Lab Demonstr	Diploma
6	Machine Learni	30	MATLAB Softw	04 Hrs.	Mr. Manoranjan	Lab Demonstr	Diploma
7	VLSI Design La	30	XILINX Softwa	04 Hrs.	Ms. Priyadarsi	Lab Demonstr	B.Tech.
8	Analog and Dig	30	Amplitude Mod	04 Hrs.	Mr. Manoranjan	Lab Demonstr	Diploma
9	Internet of Thi	30	Desktop Comp	04 Hrs.	Mrs. Mamata T	Lab Demonstr	Diploma
10	Microwave and	30	Microwave Tes	04 Hrs.	Mr. Manoranjan	Lab Demonstr	Diploma
11	PCB Design La	30	CNC PCB Rou	04 Hrs.	Mrs. Mamata T	Lab Demonstr	Diploma

6.2 Laboratories maintenance and overall ambiance (10)

Maintenance of laboratory equipment:

1. The annual maintenance of all the equipment is followed for the smooth and regular usage. All the equipment and instruments are maintained in working condition.
2. A register for preventive maintenance as well as breakdown maintenance is maintained for all the Laboratories.
3. Minor repair works are carried out by the technical staff of the department based on available resources and expertise.
4. Major repair works are referred to the respective vendors after following the procedure of the College.
5. A stock register of consumables and non-consumables is maintained in all laboratories.

Overall Ambiance:

1. Department has enough laboratories which are used throughout the year to suit the curriculum requirements and no other source for requirements of the students.
2. Laboratories are well equipped with sufficient equipment and softwares to conduct the experiments.
3. Laboratory manuals (manuals/instructions on Visual, Manual, PLC, PC, and PLC). Different safety procedures, equipment handling instructions along with the details of the experiments are distributed to students in Lab in advance.
4. Lighting systems are very efficient, along with the natural light access, laboratories which receive sunlight are sufficient for certain circumstances for students.
5. All the laboratories are equipped with white Black board, computer, Internet, and other encroaching learning aids.
6. The students and faculty members are always encouraged to utilize these labs to carry out research in their academic research interests. However, the research work is not restricted only to these laboratories.

6.3 Safety measures in laboratories (10)

Sr. No	Laboratory Name	Safety Measures
1	Basic Electronics Engineering Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
2	Analog Electronics Circuit Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in this labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
3	Digital System Design Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in this labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
4	Digital Signal Processing Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. Students must remove their foot wears before entering into the lab. 14. The student m and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
5	Microprocessor and Microcontroller Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
6	Machine Learning Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. Students must remove their foot wears before entering into the lab. 14. The student m and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
7	VLSI Design Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. Students must remove their foot wears before entering into the lab. 14. The student m and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
8	Analog and Digital Communication Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
9	Internet of Things Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. Students must remove their foot wears before entering into the lab. 14. The student m and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
10	Microwave and Antenna Engineering Laboratory	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. Students must remove their foot wears before entering into the lab. 14. The student m and its peripherals attached before using it. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).
11	PCB Design Lab	1. CCTV camera is attached in the laboratory. 2. Fire extinguisher is kept in the laboratory. 3. First aid box is kept in the laboratory. 4. Periodical servicing of all the equipment in the laboratory is done regularly. 5. It is ensured to keep the laboratory clean and organized. 6. General rules of conduct in laboratories are displayed and implemented. 7. Appropriate storage areas are provided in the labor prohibited. 8. Use of pen drives is strictly prohibited. 10. Students are allowed to switch on the trainer kit only after verification of circuit connection by faculty/lab demonstrator. 11. Students are required to sign in a log register kept in the lab. 12. Computers should be shut down properly before leaving the lab. 13. The student must check the trainer kit, computer unit and its peripherals attached bef immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software).

6.4 Project laboratory (20)

Sl. No.	Name of the Facilities	Utilization
1	MATLAB licensed version software and CCP kits (Texas Instruments).	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects. Faculty members also utilize the resources for their research work.
2	Xilinx licensed version software for designing and verifying codes of digital design	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects. Faculty members also utilize the resources for their research work.
3	LabVIEW software	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects. Faculty members also utilize the resources for their research work.
4	HFSS Software for Antenna and Microwave components design	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects. Faculty members also utilize the resources for their research work.
5	KeilMicro Vision Software Tool	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects.
6	PCB Design Lab	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects. Faculty members also utilize the resources for their research work.
7	Project Lab	UG students utilize the facilities for their Mini projects, Minor projects, and Major Projects.

7 CONTINUOUS IMPROVEMENT (75)

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.04	2.08	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: More number of tutorials classes are conducted on the subjects with mathematical content. Action 3: Students are given exposure to NPTEL Videos and other ICT tools to improve their understanding about engineering fundamentals as well as specializations. Action 4: Students are encouraged to enroll for NPTEL courses in their chosen of specialization so that engineering problems.			
PO 2 : Problem Analysis			
PO 2	1.97	2.00	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are motivated to identify and analyze complex engineering problems. Action 3: Students are encouraged to go through different research articles related to the engineering problem and review the related research literature. Action 4: Students are encouraged to communicate and present their research papers in different conferences.			
PO 3 : Design/development of Solutions			
PO 3	1.84	2.00	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are encouraged to enroll for NPTEL courses which will help them design better solutions for complex engineering problems related to public health and safety, cultural, societal, and environmental considerations.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.88	2.00	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: It was observed that the attainment in the subjects like Mathematics, Data Structure, Microwave Engineering, Embedded System, Introduction to Machine Learning etc. was less. Action 3: It was decided to invite external experts to share their research-based knowledge with the students. Action 4: Faculties are also advised to join different faculty development p students can improve their performance.			
PO 5 : Modern Tool Usage			
PO 5	1.78	2.02	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are advised to utilize their time in different laboratories for optimum use of different software tools. Action 3: Students are motivated to use different open-source tools to model different complex engineering activities.			
PO 6 : The Engineer and Society			
PO 6	1.28	1.41	Target level attained.
Action 1: As the target attained, the department is planning to increase the target level next time. Action 2: It was decided to include more case studies in the syllabus involving societal, health, safety, legal and cultural issues so that students will perform better.			
PO 7 : Environment and Sustainability			
PO 7	1.55	1.69	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: It was decided to include more case studies in the syllabus involving social and cultural so that students will perform better.			
PO 8 : Ethics			
PO 8	1.78	1.80	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Activity based learning is introduced in different laboratories.			
PO 9 : Individual and Team Work			
PO 9	1.74	1.86	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are motivated to carry out more interdisciplinary projects. Action 3: Senior students are assigned responsibilities for conducting different competitions among students. This will help the students in developing leadership skills.			
PO 10 : Communication			
PO 10	1.58	2.03	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are encouraged and guided by faculties to present their research work in national/international seminars/conferences. Action 3: This will help the students in improving report writing and presentation skills.			
PO 11 : Project Management and Finance			
PO 11	1.33	1.7	Target level not attained.
Action 1: As the target is not attained, the department has done brainstorming session with concerned stakeholders to identify Gaps – Analyze attainment data, root causes, and benchmark values. Action 2: It was decided to include more case studies in the syllabus related to project management and finance. Action 3: Implement Remedial Actions – Offer bridge courses, skill development programs, and faculty training. External experts are invited to educate students principles and finance. Action 4: Enhance Teaching Methods by using active learning, industry-standard projects, and encourage interdisciplinary approaches.			
PO 12 : Life-long Learning			
PO 12	1.48	2.09	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Syllabus will be regularly updated to meet the need of life-long learning for the students.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of communication technology, consumer electronics, embedded system, communication/ networking and other relevant areas.			
PSO 1	1.88	2.09	Target level attained.
Action : As the target is attained, the department is planning to increase the target level next time. Action 2: Students are given exposure to NPTEL Videos and other ICT tools to improve their understanding about engineering specializations such as embedded systems, communication engineering, networking etc. Action 3: Students are encouraged to enroll for NPTEL courses in domains like embedded systems, communication engineering, networking etc.			
PSO 2 : Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to Electronics & Communication engineering for solving real world problems.			
PSO 2	1.81	2.00	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are advised to optimize their time during different laboratory sessions. Action 3: Students are encouraged to use different open-source software.			
PSO 3 : Should have the capability to analyze, comprehend, design & develop electronic subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.			
PSO 3	1.54	2.07	Target level attained.
Action 1: As the target is attained, the department is planning to increase the target level next time. Action 2: Students are given exposure to NPTEL Videos and other ICT tools to improve their understanding about developing engineering subsystems for societal well-being. Action 3: Students are encouraged to enroll for NPTEL courses so that they will be capable of developing electronic subsystems.			

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

Academic audit is carried out by internal stake holders as well as external stake holders to make sure that there is a continuous improvement in the performance of students as well as faculties. The different processes that are followed in the academic audit process is shown in the Fig.7.1.

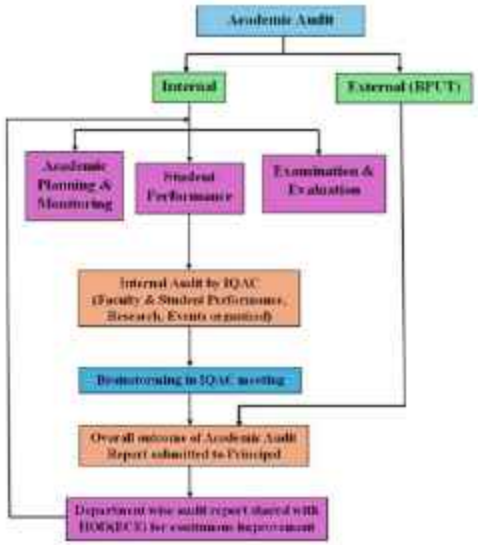


Fig.7.1: Academic Audit process for Department of Electronics & Communication Engineering

External Academic Audit:

Two senior professors are deputed by our affiliating university BPUT to carry out academic audit of all the departments of our institution. After the completion of the academic process, the auditors submit a detailed report to the principal for analysis and further action at our institution end. The Principal goes through the audit report in details and share with the respective HODs for further analysis of the department side. The report from the external auditors as well as suggestions from the Principal is considered and implemented for continuous improvement of the students as well as faculties of the Department of Electronics & Communication Engineering.

Internal Academic Audit:

The Internal Quality Assurance Cell (IQAC) conducts the internal academic audit by evaluating different components such as course file preparation, result analysis of students, research activities of faculties etc. The content of the course file shown below is shared with all the faculty members and is checked by IQAC members regularly. The audit report is discussed in detail in the IQAC meeting and suggestions for further improvement are given.

GITA Autonomous College, Bhubaneswar

Department of Electronics & Communication Engineering

Course File Content

1. Vision & Mission of the Institute
2. Vision & Mission of the Department
3. Program Educational Objectives (PEOs)
4. Program Outcomes (POs)
5. Program Specific Outcomes (PSO)
6. Course Objective and Course Outcomes (COs)
7. CO mapping with POs and PSOs with justification
8. Class Time Table & Faculty Time Table
9. Syllabus
10. Course handouts/ Lesson Plan (include the list of additional topics to meet the outcomes, if required)
11. Attendance register (Yellow file)
12. Assignments (File assignment question papers)
13. Quiz, Surprise Tests, Class tests, Mid Semester Exam, and End semester exam question papers.
14. Lecture notes (Handwritten type)
15. Consolidated attendance statement of students.
16. Sample copies of evaluated answer scripts of class tests, Assignments, Quiz, Surprise Tests, Lab records, and Mid-Semester exams
17. Record of Guest Lecture/Seminar conducted (if any)
18. List of Slow Learners and Advanced Learners
19. Record of Remedial classes for Slow Learners and SWAYAM-NPTEL courses for Advanced Learners.
20. Course exit survey
21. Consolidated semester grades of students.
22. Result analysis.
23. CO attainment (with Gap analysis and action taken for continuous improvement).
24. PO/PSO attainment.

Faculty members go through the academic audit report (internal & external) and take further action so that both the students and faculties have continuous improvement which is essential for the growth of the department as well as institution.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Item	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Total No. of Final Year Students: N	38	65	74
No. of students placed in companies or Government Sector: x	41	64	55
No. of students admitted to higher studies with valid qualifying scores, (GATE or equivalent State or National Level Tests, GRE, GMAT etc.): y	09	12	09
No. of students turned entrepreneur in engineering/technology: z	03	02	04
x+y+z=	52	79	68

7.4 Improvement in the quality of students admitted to the program (20)

Item		2024-25	2023-24	2022-23
National Level Entrance Examination	No of students admitted	92	91	91
JEE(Main)	Opening Score/Rank	96250	92730	1015[illegible]
	Closing Score/Rank	923758	742217	773178
State/ University/ Level Entrance Examination/ Others	No of students admitted	00	00	00
	Opening Score/Rank	00	00	00
	Closing Score/Rank	00	00	00
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	05	06	04
Odisha JEE	Opening Score/Rank	1234	1646	1646
	Closing Score/Rank	2026	2112	3148
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		66.7	68.5	63.8

8 FIRST YEAR ACADEMICS (50)

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Please provide First year faculty information 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 leave(In case Currently Associated is "No")
							CAY	CAYm1	CAYm2			
BIJAYA MISHR	BGCPM9202R	M.SC.(Mathematics) and PhD	02/05/2016	Numerical Analysis	Associate Professor	01/07/2013	100	100	100	Yes	Regular	
RABINDRA PA	AHBPP5102J	M.SC.(Mathematics) and PhD	31/08/2016	Fluid dynamics	Associate Professor	01/01/2014	100	100	100	Yes	Regular	
PRAGNYTUJ	BDBPP7276J	M.Sc. and PhD	29/04/2016	Language and Communication	Associate Professor	04/08/2018	100	100	100	Yes	Regular	
SAROJ KANTI	AGRPM9425C	M.Sc. and PhD	10/10/2016	Language and Communication	Associate Professor	02/08/2019	100	100	100	Yes	Regular	
AMBUJA SAMA	CHSPS5139G	M.Sc. and PhD	10/10/2002	Language and Communication Organic Chemistry	Associate Professor	04/12/2017	100	100	100	Yes	Regular	
ASIMA MISHR	CSUPM7225D	M.SC.(Mathematics) and PhD	11/08/2021	Numerical Analysis	Associate Professor	01/03/2021	100	100	100	Yes	Regular	
BHAVANJU KI	AWDPB8749K	M.Sc. (Physics) and Ph.D.	25/08/2014	Solid State Physics	Associate Professor	28/10/2009	100	100	100	Yes	Regular	
SANTI PRAKA	ALUPB2787M	M.Sc. (Physics) and Ph.D.	30/11/2017	Photonics	Associate Professor	01/02/2008	100	100	100	Yes	Regular	
BIRANCHI NA	AGSPD1008B	M.SC.(Mathematics) and PhD	19/11/2018	Numerical Analysis	Associate Professor	16/08/2006	100	100	100	Yes	Regular	
MANORANJAN	AKLPB1974A	M.SC.(Mathematics) and PhD	09/05/2011	Numerical Analysis	Associate Professor	05/08/2009	100	100	100	Yes	Regular	
RADHAMANI I	AFIPM9054H	M.Sc. and PhD	25/10/2021	Language and Communication	Associate Professor	12/12/2011	100	100	100	Yes	Regular	
RAMESHWAR	CRWPP5102D	M.Sc	09/01/2012	Plasma Physics	Assistant Professor	12/09/2013	100	100	100	Yes	Regular	
RASHMIMALA	BNPP6496D	M.Sc	22/10/2019	Graph Theory	Assistant Professor	01/07/2017	100	100	100	Yes	Regular	
GEETARANI P	AMHPP7984D	M.Sc	30/08/2016	Business Management	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
BIRANCHI NA	CHRPP9017J	M.Sc	17/10/2017	Nano Technology	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
UTKALIKA PU	BNYPP6493J	M.Sc. and PhD	30/05/2020	Language and Communication	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
HALIBKANTA	DGAPP7134K	M.Sc	17/08/2017	Language and Communication	Assistant Professor	04/12/2017	100	100	100	Yes	Regular	
DIPAK KUMAR	AFDPS5471H	M.Sc. and PhD	25/10/2021	Micro Economics	Assistant Professor	04/07/2017	100	100	100	Yes	Regular	
BHABANI SAN	DQZPS7142D	M.Sc. and PhD	25/10/2021	Numerical Analysis	Assistant Professor	02/12/2015	100	100	100	Yes	Regular	
BHARAT CHAN	ASTPC9801C	M.Sc. and PhD	30/10/2010	Physical Chemistry	Assistant Professor	02/11/2012	100	100	100	Yes	Regular	
PINTU DANDA	BJIPD9721H	M.Sc	04/06/2016	Inorganic Chemistry	Assistant Professor	04/08/2018	100	100	100	Yes	Regular	
PRADEEP KUI	ABJPM9141K	M.Sc. and PhD	10/10/2016	Fuzzy Optimization	Assistant Professor	02/12/2013	100	100	100	Yes	Regular	
NILAMBAR TR	AWXPT3945R	M.SC.(Mathematics) and PhD	10/10/2022	Fluid dynamics	Associate Professor	02/10/2023	100	100	0	Yes	Regular	
BHABAJEEBA	FTUPM8700Q	M.E/M.Tech	05/10/2023	ELECTRICAL ENGINEERING	Assistant Professor	06/01/2024	50	0	0	Yes	Regular	
IPSITA MIRA	ATMPM1999L	M.E/M.Tech	19/06/2020	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	07/08/2024	50	0	0	Yes	Regular	
ANANYA KAS	EUPK1203H	M.E/M.Tech	24/06/2024	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	01/07/2024	50	0	0	Yes	Regular	
BIRAJA SHAN	AMWPB0886D	M.SC.(Mathematics) and PhD	14/06/2020	Graph Theory	Associate Professor	11/06/2023	100	100	0	Yes	Regular	
MADHUSMITA	AHPPM7446Q	M.SC.(Mathematics) and PhD	17/07/2020	Fluid dynamics	Associate Professor	08/08/2023	100	100	0	Yes	Regular	
MAITRI MINAF	BFVPM4604K	M.Sc. and PhD	01/09/2020	Industrial Chemistry	Assistant Professor	01/09/2023	100	100	0	Yes	Regular	
SHIFA SHAIK	LPGPS5603A	M.Sc	26/08/2022	Language and Communication	Assistant Professor	01/09/2023	100	100	0	Yes	Regular	
PRITESH MOH	ADEPM2909L	M.Sc. and PhD	26/10/2009	Language and Communication	Professor	01/08/2024	100	0	0	Yes	Regular	
ARPITA ARBO	DJZPD7617N	M.Sc. and PhD	30/06/2019	Numerical Analysis	Professor	02/08/2024	100	0	0	Yes	Regular	
SANKARSAN	BMSPK7455H	M.E/M. Tech and PhD	02/08/2021	IOT Web Technology	Associate Professor	02/08/2019	0	100	100	No	Regular	11/05/2024
MOHAMMED I	BQVPM2041L	ME/M. Tech and PhD	02/05/2022	IoT Machine Learning	Associate Professor	06/12/2021	0	100	100	No	Regular	10/09/2022
SUDHIR KUMA	AHBPP7240H	MA	10/10/2017	Language and Communication	Assistant Professor	01/11/2023	100	100	0	Yes	Regular	
RABINARAYA	BXRPP7442J	M.Sc	27/11/2018	Physical Chemistry	Assistant Professor	04/08/2018	100	100	100	Yes	Regular	
SONALIKA PR	CHJPP5123G	M.Sc	14/06/2018	Language and Communication	Assistant Professor	16/08/2018	100	100	100	Yes	Regular	
PRITESH BHAT	BOPPB6084C	M.Sc. and PhD	30/11/2018	Language and Communication	Assistant Professor	21/10/2019	100	100	100	Yes	Regular	
SADASIVA DA	BPZPD8131G	M.Sc. and PhD	27/10/2020	Language and Communication	Assistant Professor	02/08/2019	100	100	100	Yes	Regular	
LYNGDOLDON	ADRPT4886D	M.Sc. and PhD	22/10/2016	Language and Communication	Assistant Professor	01/12/2021	100	100	100	Yes	Regular	
SABITA BOLE	EDHPB6059H	M.Sc. and PhD	24/10/2018	Language and Communication	Assistant Professor	01/03/2021	100	100	100	Yes	Regular	
SAUMYAKANT	AWCPR2547J	M.Sc. and PhD	22/10/2019	Analytical Chemistry	Assistant Professor	01/03/2021	100	100	100	Yes	Regular	
MAITRI VENK	BEWPS4084H	M.Sc	27/05/2019	Business Management	Assistant Professor	23/02/2018	100	100	100	Yes	Regular	
ROJALINI DEI	GHPPD8753J	M.Sc. and PhD	28/10/2019	Language and Communication	Assistant Professor	02/08/2021	100	100	100	Yes	Regular	
RAJIB KUMAR	ADDPD3868R	M.Sc. and PhD	24/11/2014	Language and Communication	Assistant Professor	28/09/2018	100	100	100	Yes	Regular	

CHENNAVEE I	ADEPD1179A	M.Sc	24/09/2014	Physical Chemistry	Assistant Professor	01/02/2008	100	100	100	Yes	Regular	
SUSHASHREE	APHPB6072H	M.Sc. and PhD	22/11/2008	Numerical Analysis	Assistant Professor	04/08/2004	100	100	100	Yes	Regular	
LAXMIKANTA	AWVPM8040F	M.Sc. and PhD	28/10/2014	Condensed Matter Physics	Assistant Professor	12/12/2011	100	100	100	Yes	Regular	
CHARANDEHE	AFXPS7508C	M.Sc. and PhD	17/10/2007	Language and Communication	Professor	16/08/2018	100	100	100	Yes	Regular	
SARSIJA PRA	AZPPM1908H	M.Sc. and PhD	25/11/2017	Organic Chemistry	Professor	01/08/2005	100	100	100	Yes	Regular	
SARADENDU	ABVPM7564L	M.Sc. and PhD	14/07/2008	Physical Chemistry	Professor	19/12/2011	100	100	100	Yes	Regular	
SARATA CHA	AZVPM8408C	M.Sc. and PhD	01/07/1982	Inorganic Chemistry	Professor	06/08/2008	100	100	100	Yes	Regular	
KEDAR MOHA	AHPPM5070J	M.Sc. and PhD	13/03/2006	Industrial Chemistry	Professor	27/08/2005	100	100	100	Yes	Regular	
KISHORE KUA	AJTPN4380H	M.Sc. and PhD	01/06/2017	Fuzzy Optimization	Professor	09/10/2004	100	100	100	Yes	Regular	
SMITARANI N	ASLPP1088Q	M.Sc. and PhD	29/02/2012	Language and Communication	Professor	28/07/2008	100	100	100	Yes	Regular	
AMARJYOTI K	EHCPM0813H	M.E/M.Tech	09/07/2017	CIVIL ENGINEERING	Assistant Professor	08/10/2017	60	68	60	Yes	Regular	
BISWAJIT SAH	AJLPS0886Q	M.E/M.Tech	06/08/2018	MECHANICAL ENGINEERING	Assistant Professor	06/12/2018	60	60	60	Yes	Regular	
PURNIMA SAH	EFXPS3048C	M.E/M.Tech	10/07/2017	MECHANICAL ENGINEERING	Assistant Professor	07/04/2017	60	59	60	Yes	Regular	
CHIRANJIBI P	CHSPP1673R	M.E/M.Tech	11/07/2018	MECHANICAL ENGINEERING	Assistant Professor	02/07/2018	60	60	60	Yes	Regular	
PRATIK SAHA	IRUPS7190E	M.E/M.Tech	26/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	06/07/2017	50	50	50	Yes	Regular	
TANASA BEJ	AWPPB6456Q	M.E/M.Tech	03/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	03/07/2017	50	50	50	Yes	Regular	
SWAPNARANI	DWPPM7417R	M.E/M.Tech	05/07/2018	ARTIFICIAL INTELLIGENCE	Assistant Professor	06/07/2018	60	60	60	Yes	Regular	
DEEPAK KUM	BQRPM1140D	M.E/M.Tech	01/11/2017	COMPUTER SCIENCE AND ENGINEERING(I DATA SCIENCE	Assistant Professor	01/07/2017	60	58	60	Yes	Regular	
PRIYANKA DU	BDSPD0460F	M.E/M.Tech	28/07/2017	COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	Assistant Professor	06/07/2017	60	60	60	Yes	Regular	
SUSHREE SIK	BAZPM0288F	M.E/M.Tech	27/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	07/07/2017	60	60	60	Yes	Regular	
ANAKSHA BA	BQDPB7237D	M.E/M.Tech	21/07/2017	COMPUTER SCIENCE AND ENGINEERING(IoT	Assistant Professor	01/07/2017	60	58	60	Yes	Regular	
CHINMAYA KU	BPPPP0758K	M.E/M.Tech	03/07/2017	COMPUTER SCIENCE AND ENGINEERING(IOT	Assistant Professor	03/07/2017	60	58	60	Yes	Regular	
BISWAJIT RAY	DOPPR0830G	M.E/M.Tech	04/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	06/07/2017	60	60	60	Yes	Regular	
ARHE ANT CH	EZFPC4208F	M.E/M.Tech	01/07/2018	COMPUTER SCIENCE AND ENGINEERING(DATA SCIENCE	Assistant Professor	01/07/2018	60	58	60	Yes	Regular	
SWADHIN PI	CJRPP5071L	M.E/M.Tech	10/08/2018	CIVIL ENGINEERING	Assistant Professor	07/03/2017	60	58	60	Yes	Regular	
SUDHANSHU	BDRPS3757J	MBA & Ph.D	11/10/2018	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	08/03/2018	50	50	50	Yes	Regular	
TANAYA KUM	AHBPK7771M	MBA & Ph.D	17/10/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	04/07/2017	50	50	50	Yes	Regular	
MONALISA SA	GBUPS7204E	MBA	25/07/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	08/07/2017	50	50	50	Yes	Regular	
DUSMANTA KI	DPVPS5410H	MBA & Ph.D	25/06/2018	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	16/08/2018	50	50	50	Yes	Regular	

Year	Number Of Students(approved intake strength) (N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment
2022-23(CAY-2)	1020	54	19	5
2023-24(CAY-1)	1080	58	19	5
2024-25(CAY)	1200	61	20	5
Average	1100	58	19	5

AverageFYSFR 0.00

Assessment [(0 * 10) / AverageFYSFR] 5.00

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks: 4.00

Institute Marks : 4.00

Year	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)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2022-23	34	19	51	4.00
2023-24	34	19	54	4.00
2024-25	39	21	58	4.00

Average Assessment 4.00

8.3 First Year Academic Performance (10)

Total Marks: 0.00

Institute Marks : 8.40

Academic Performance	CAYear1(2023-24)	CAYear2(2022-23)	CAYear3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	8.40	8.41	8.32
Total Number of successful students(Y)	1125.00	1086.00	902.00
Total Number of students appeared in the examination(Z)	1125.00	1286.00	902.00
API (X*(Y/Z))	8.40	8.41	8.32

Average API((API1+API2+API3)/3) : 8.40

Assessment = Average API : 8.40

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

6.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (1)

Institute Marks: 3.00

- In line with the course objectives, the curriculum has been meticulously designed by the institution and is being strictly followed. The teaching-learning process has been structured accordingly. In addition to traditional blackboard teaching, we incorporate PowerPoint presentations and demonstrations using various physical models to emphasize the practical aspects of the subjects.
- Students are also provided opportunities to visit project sites and industries to enhance their skills. Continuous evaluation is carried out through assignments, quiz, surprise test, midterm examination, seminars, laboratory assessments, and project work. Students are regularly informed of their performance to help them identify areas for improvement.
- Additionally, students are given opportunities and platforms to pursue and enhance their interests beyond academics. It has been observed that many students excel in their chosen fields of interest, demonstrating notable progress and success.
- Feedback is regularly collected from students, parents, alumni, employers, industry experts, and academic professionals to identify potential modifications for improving the achievement of the desired course outcomes. The departments advisory committee, along with the institutes advisory body, is also consulted for their advice, comments, and suggestions. Additionally, the opinions and feedback of recruiters from various organizations and companies visiting the campus for placements are given significant consideration in this process.
- Taking into account the complexity and weightage of the subjects, the Departmental Advisory Committee, in consultation with the Institute Advisory Committee, has established targets for the attainment of POs, PSOs, and PEOs. In cases where the targets are not met, necessary remedial measures are implemented as outlined in subsequent sections. When the targets are achieved, new and higher targets are set to ensure continuous improvement.

Assessment Pattern		
	Assessment Type	**Assessment Tool**
Theory	**Direct Attainment**	1. Internal Examination-1(QUIZ, ASSIGNMENT, SURPRISE TEST) Quiz: 5 Marks Assignment: 5 Marks Surprise test: 5 Marks --- Total: 15 Marks 2. Mid- semester exam (Internal Examination-2) Short Answer Type Questions, Focused type, Long type based on question wise CO's Mapping: 25 Marks : 25 Marks **Total: 15+25= 40 Marks**
		End Semester Examination: 60 Marks (External Exam)
	Indirect Attainment	**Course Exit Survey**
	Computation of Direct CO attainment in the Course **40% of Internal Examination attainment + 60 % of End Semester Exam attainment**	
	Computation of Overall CO attainment in the Course: **80 % of Direct CO attainment + 20 % of Indirect CO attainment**	
LAB	**Direct Attainment**	**Assessment Tool** (planning and execution of Experiment, interpretation of the Results, Report writing and viva voce)
	Indirect Attainment	Course Exit Survey
Computation of Overall CO attainment in the Course: **80 % of Direct CO attainment + 20 % of Indirect CO attainment**		
Project	**Direct Attainment** (external assessment 80% weightage and 20% internal assessment)]	**Assessment Tool** (Project execution and Presentation, Viva-Voce and Report writing)

Description of Attainment Level for Direct Assessment				
Assessment Methods	**Attainment Levels**			
Internal assessment surprise + Quiz + Assignment+ Mid sem	**Level 1**	50 to 59% of the students secure 70 % or more marks		
	Level 2	60 to 69% of the students secure70% or more marks.		
	Level 3	>=70% of the students secure 70% or more marks		
External Assessment (End semester exam)	**Level 1**	50 to 59% of the students secure 50 % or more marks		
	Level 2	60 to 69% of the students secure 60% or more marks		
	Level 3	>=70% of the students secure 60% or more marks		
Course exit survey measures the student responses on a 5-point scale (Poor (Rate-1), Average (Rate-2), Good (Rate-3), Very Good (Rate-4) and Excellent (Rate-5)				

Below Table shows the description of attainment level for indirect assessment

Level	**Description**
Level 1	50 to 59% of the students have given poor or average in CO attainment
Level 2	60 to 69% of the students have given poor or average in CO attainment
Level 3	>=70% of the students have given poor or average in CO attainment

In case the required target is not achieved, the causes are identified corrective measures are taken in future years.

COURSE OUTCOMES OF ALL FIRST YEAR SUBJECTS:

SLNO	Course Name	Course code	CO1	CO2	CO3	CO4	CO5	CO ATTAINMENT
1	Engineering mathematics-I	C101	1.8	1	2	2.1	2.2	1.84
2	Engineering chemistry	C102	1.7	1.8	2.2	2.3	2.5	2.1
3	Basic electronics Engineering	C103	2	2.2	2.3	2.1	2	2.12
4	Basics of Civil Engineering	C104	2.1	1.8	1.7	1.8	2.1	1.8
5	Communicative English	C105	2.3	2.5	2.4	2	2	2.24
6	Engineering chemistry Lab	C106	2.28	2.53	2.35	2.27	2.36	2.33
7	Basic electronics Engineering Lab	C107	2.38	2.5	2.37	2.25	2.4	2.374
8	Basic Civil Engineering Lab	C108	2.11	2.35	2.4	2.5	2.2	2.333
9	Engineering Graphics &Design Lab	C109	2.45	2.34	2.27	2.35	1.84	2.274
10	English Language Lab	C110	2.4	1.84	2.35	2.37	2.4	2.332
11	Engineering mathematics-II	C112	2.1	2.2	2.3	2.4	1.9	2.12
12	Engineering physics	C113	1.8	1.8	2	1.8	2.1	1.84
13	Basic Electrical Engineering	C114	2.1	1.8	1.7	2	2.3	1.94
14	Basics of Mechanical Engineering	C115	2.5	2	1.7	1.8	2.1	1.94
15	Engineering Mechanics	C121	2.4	2.1	2	1.8	1.8	2
16	Programming for problem solving using C	C117	2.1	2	2.3	1.8	1.7	1.98
17	Business Communication and life skill	C118	2	2.1	2.3	2.1	2	2.1
18	Basic Electrical Engineering Lab	C119	2.33	2.45	2.36	2.44	2.64	2.52
19	Basics of Mechanical Engineering Lab	C120	2.38	2.39	2.45	2.53	2.5	2.496
20	Engineering physics Lab		2.33	2.47	2.38	2.4	2.35	2.39
21	Programming for problem solving using C	C122	2.53	2.45	2.47	2.4	2.5	2.49
22	Workshop Practice	C124	2.4	2.5	2.45	2.37	2.47	2.458

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Institute Marks : 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Englis	2.46	2.46	2.47	2.47	2.5	2.11	0	0	0	0	0	2.48
Progra	2.47	2.47	2.47	2.47	2.48	1.54	0	0	0	0	0	0
Basic I	2.47	2.43	2.47	2.42	0	0	2.77	2.45	0	0	2.47	2.46
Basics	2.47	2.46	2.46	2.42	2.48	0	2.77	2.45	0	2.46	2.47	2.48
Comm	2.47	2.44	2.44	2.46	2.48	0	2.77	2.47	0	2.46	2.47	1.46
Englis	2.43	2.46	2.44	2.5	2.48	2.47	2.77	2.45	2.47	2.47	2.47	2.46
Englis	2.46	2.42	2.46	2.37	0	0	0	0	0	0	0	0
Basics	2.45	2.44	2.46	2.5	0	0	0	0	0	2.42	2.46	2.47
Englis	2.51	2.47	2.44	2.5	2.44	0	0	#DIV/	2.44	2.44	2.44	2.47
Progra	2.45	2.47	2.48	2.5	2.48	2.48	2.47	2.46	2.49	2.49	2.48	2.47
Busine	2.42	2.47	2.46	2.5	0	2.48	2.47	2.46	0	0	2.46	2.47
Basic I	2.6	2.9	2.24	2.6	2.67	0	0	0	0	2.47	2.69	2.47
Eng. C	2.25	2.4	2.33	2.5	0	0	0	0	0	0	#DIV/	2.5
Basic I	2.9	2.9	2.67	2.55	0	2.55	2.11	2.9	0	0	0	2.47
Basics	2.34	2.46	2.11	2.55	2.48	2.48	0	0	0	0	2.25	2.38
Englis	2.5	2.34	2.15	2.54	2.37	2.34	2.25	2.25	2.11	0	0	2.2
Englis	2.47	2.85	2.6	1.84	2.5	0	0	2.11	2.4	2.38	2.11	2.47
Eng. F	2.2	2.6	2.11	2.5	0	0	0	0	0	0	0	0
Basics	2.6	2.57	2.34	2.47	0	0	2.48	2.11	2.34	2.2	2.25	2.4
Works	2.4	2.6	2.2	2.48	2.1	2.4	1.85	2.6	2.11	2.49	2.48	2.48
Progra	2.5	2.53	2.42	2.47	2.11	0	0	2.11	2.45	2.48	1.25	2.04
Basic I	2.55	2.53	2.6	2.84	2.4	2.28	0	0	0	0	2.38	2.38

PO Attainment Level

PSOs Attainment:

Course	PSO1	PSO2	PSO3
Englis	2.46	2.47	2.46
Englis	2.5	2.48	2.46
Basic I	2.5	0	2.46
Basics	2.47	2.48	2.46
Comm	2.47	2.48	2.46
Englis	2.46	2.53	2.46
Englis	0	0	0
Basics	2.47	2.48	2.47
Englis	2.47	2.48	2.46
Progra	2.46	2.48	2.47
Busine	2.46	2.48	0
Basic I	2.47	2.38	2.84
Eng. C	0	0	2.5
Basic I	3	2.2	2.25
Works	3	2	2.6
Englis	3	0	2.2
Englis	3	0	2.8
Progra	2.36	2	2.11
Works	1	0	2.2
Basics	2	2.2	2.45
Basic I	2.25	2.38	2.4
Eng. F	2.36	2	2.25

PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	2.46	2.35	2.43
PSO Attainment	2.46	2.35	2.43

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Institute Marks : 10.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.3	2.4	Regularly evaluate course content to ensure alignment with PO1, which typically emphasizes applying engineering knowledge. Incorporate real-world problem-solving design projects, and case studies to strengthen analytical skills. Conduct periodic reviews through stakeholder inputs, including faculty, industry experts, alumni, and students. Use metrics, surveys, and performance metrics to assess student achievements.
Action1: curriculum reviewsn Action 2: numerical basics Action 3: practical projects Action 4: student mentoring Action 5: Extramural assessments			
PO 2 : Problem Analysis			
PO 2	1.89	2.1	These include introducing problem-solving exercises and real-world case studies to enhance analytical and critical thinking skills. Industry-oriented projects and internships provide students with exposure to complex engineering problems, encouraging them to apply theoretical knowledge practically. Collaborative learning sessions and group discussions are conducted to foster teamwork and exchange of ideas. Faculty mentorship ensures personalized guidance to address individual weaknesses. Additionally, continuous assessment through quizzes, assignments, and mock evaluations helps monitor progress and reinforces conceptual understanding to meet the desired outcomes effectively.
Action1: advanced problem solving exercises Action2: study discussions Action3: mentoring sessions Action 4: specialized workshops Action5: focussed assessment enhancements			
PO 3 : Design/development of Solutions			
PO 3	1.83	2.1	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.
Action 1: Students are motivated to include all standard parameters and constraints according to National and International safety norms and to address environmental concerns.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.1	1.8	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.
Action 1: Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level			
PO 5 : Modern Tool Usage			
PO 5	1.3	1.42	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
Action 1: Modern labs are developed to demonstrate the use of Modern tools like MATLAB, PLC, SCADA etc. to specify fulfillment of requirement in engineering applications in new industrial era.			
PO 6 : The Engineer and Society			
PO 6	0.91	0.9	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.
Action1: To understand the safety concerns and social aspects, students visited industry to expand their practical knowledge with the effect of improved practices in engineering.			
PO 7 : Environment and Sustainability			
PO 7	0.9	0.7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
Action 1: Students are encouraged to indulge in projects, in which global and environmental issues are improved, with respect to consumption of energy and utilization of renewable energy resources.			
PO 8 : Ethics			
PO 8	0.81	0.89	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
Action 1: Yoga classes are conducted to improve the moral values, Action 2 : Make via own topics on ethics, business ethics will be written, Student guest lecture may be arranged related to value education.			
PO 9 : Individual and Team Work			
PO 9	1.21	1	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in electrical engineering.
Action 1 : Institute has initiated Program which provides a platform to work on individual as well as a group in the fields of Engineering helps the students to groom the skills like teamship, effective team member.			
PO 10 : Communication			
PO 10	0.91	1	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.
Action 1 : Soft skills training is imparted to students to enhance various aspects of non-curricular/technical talks by group discussions, presentations and new learning outcomes.			
PO 11 : Project Management and Finance			
PO 11	0.8	1	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.
Action 1 : The awareness contest among the student regarding the management principles and managing projects.			
PO 12 : Life-long Learning			
PO 12	1.2	1	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.
Action 1 : Using ICT facilities, such as PPTs, live demonstration of topic imparted using video lectures. Action 2 : Encouraging participation in research activities and skill development programs.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of communication technology, consumer electronics, embedded system, communications/ networking and other relevant areas.			
PSO 1	2.3	2.1	Empower students to become practicing engineers to solve global problem through innovation, sustainability, and technological advancements.
Action 1: Provide industry exposure, research opportunities, hands-on training, interdisciplinary learning, problem-solving projects, mentorship, and global collaborations to enhance skills.			
PSO 2 : Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to Electronics & Communication engineering for solving real world problems.			
PSO 2	1.83	1.9	Enable students to pursue higher studies, collaborative research, and entrepreneurship in a global environment through innovative and interdisciplinary learning.
Action 1: Offer research opportunities, industry collaborations, entrepreneurial training, mentorship programs, skill development workshops.			
PSO 3 : Should have the capability to analyze, comprehend, design & develop electronic subsystems/ systems for a variety of engineering applications and thus demonstrating professional ethics & concern for societal well being.			
PSO 3	1.4	1.6	Empower students to design industry-specific products using network theory, power systems, control systems, and power electronics-based drives for societal needs.
Action 1: Provide hands-on training, industry projects, research opportunities, advanced labs and expert mentorship.			

6.1 Mentoring system to help at individual level (5)

Total Marks: 5.00

Institute Marks : 5.00

The Student-Teacher Mentoring Program pairs faculty with students for personalized academic and career guidance throughout their studies. Mentors offer advice on coursework, projects, and internships, while maintaining student progress records. This program fosters strong student-teacher relationships and improved academic performance. Together, these practices ensure students receive a comprehensive education, faculty are actively engaged in research, and personalized support leads to better student outcomes. The overall result is a well-rounded academic environment that prepares students for real-world challenges while fostering continuous professional development for faculty.

Goal

- To help identify career paths for students and support students personal growth.
- To provide an opportunity for students to learn and practice professional networking skills.
- To equip students with the understanding and tools to make ethical and informed decisions.
- To shape students into confident graduates with excellent leadership, communication, critical thinking, professionalism and other skills important to the transition to the world of work.
- To help students identify and pursue opportunities for employment related to their degrees.
- To provide a framework by which a student can judge the success of his/her learning and assist self-reflection and self-assessment.
- To use achievement standards, learning intentions and success criteria as the main focus of the teaching and learning plan.
- To identify the focus for ongoing teaching, learning and assessment.
- To determine specific strategies to support preferred learning styles, environments or modes, thinking skills, personality traits, and previous experiences.
- To provide students with timely, specific and corrective feedback so that they are able to evaluate their own progress and identify future learning goals.
- To provide comments on student progress to enrich reporting information to parents.
- To plan ongoing communication strategies with parents about student progress.
- To understand his/her professional and ethical responsibility.

The Practice

The institution adopts all possible steps to improve the student teacher mentoring system in the institution

- Each faculty is the mentor of maximum 20 students.
- Frequency of the Meeting: Once in a week as per regular time table.
- Mentors are trustworthy, approachable, supportive, empathetic, positive, non-judgmental and good listeners.
- The mentor is a local guide, educational companion and agent of change for the student.
- Mentors have the skills to observe and provide constructive feedback.
- The mentors continuously monitor, counsel, guide and motivate in all academic matters.
- They help in choice of electives, project, summer training etc.
- Contact parents/guardians if needed, for academic irregularities, negative demeanour, deteriorated attendance etc.
- Advise students in career choices.
- Keep in touch even after their graduation.
- Suggest the HODs for administrative action.
- Maintain a detail progressive record of the student.
- Maintain a record of all discussions with students.
- The HODs Meet all mentors of his/her department at least once a month to review the proper implementation of the system
- The Controller of Academics keeps a daily record of the mentorship proceedings and places it before the Academic Council on a monthly basis.
- The Academic council of the institution after proper examination of the records places it before the Principal with necessary suggestions for the effectiveness of the programme.
- The Principal forwards the proposal to the IQAC for necessary discussions and implementation.

Outcomes: Both students and parents are able to become aware of and realize each other 'needs and problems and make efforts to overcome them. So, students are able to focus on academics. Self based- Mentoring is provided by assigned faculty to guide students to enroll for additional courses and help them to develop skills and behaviors necessary to succeed professionally.

Type of Mentoring : Professional guidance/ Career advancement/ Course work specific/ Lab specific/ Total Development

Number of faculty members : 05 Faculty per Section

Number of students : 20 Nos. of students per mentor

Frequency of Meeting : Weekly

The Institute adopts personal system of interaction with the students for an overall development such as professional guidance, career advancement, etc. In the system each mentor is allotted with 20 students and they meet at least once in a week to share their problems and suggestions. The administrative department is involved in solving the infrastructural problems of the students. The parents are also being taken into confidence are being informed regarding the continuous improvement of their wards.

6.2 Feedback analysis and remedial/corrective measures taken, if any (10)

Total Marks: 0.00

Feedback collected for all courses: YES

Who collects the feedback: Dean, Academics

When feedback is collected: One month after commencement and one month before completion of the Semester

Percentage of students participating: On the day who are present i.e. Approx. 90% of the students.

Process:

The Academic Council of the Institution has set a bench mark of 70% as satisfactory level of feedback and is revised as per need. The sample feedback format is furnished below. The Institution collects the feedback of individual faculty members twice in a semester through the office of the Dean, Academics. The mode of collecting feedback is through on line (e-feedback system) to ensure transparency in the system. The data collected from the feedback is thoroughly analysed by the Dean, Academics and is kept for discussion in the Academic Council of the Institution. After thorough scrutinization and discussion, the Academic Council advises the Departmental Academic Committee to take remedial measures for the faculty members who have achieved less than 70% feedback for further improvement. As a first step, the Department Academic Committee recommends the concerned faculty members to undergo Faculty Development Programme. As a second step for improvement the concerned faculty members are advised to accompany the senior faculty members to the class and take note about the quality of teaching and delivery mode. They are also advised to observe the teaching methodology of senior faculty members to achieve better skills. The faculty member acquiring the highest feedback will be recommended for an advanced increment along with the annual increment. He/She is also encouraged with a letter of appreciation from the head of the institution. The parameters of feedback are determined below.

Corrective Measures:

Year	No. of faculty members acquiring less than 70%feedback	Corrective action taken
2023-24	01	Counselling by DAC
2022-23	01	Counselling by DAC
2021-22	01	Counselling by DAC

Feedback Format:

SITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Department of Mechanical Engineering
Course Exit Survey – Engineering Mechanics

Dear Student,

Thank you for participating in this Course Exit Survey for Engineering Mechanics. Your feedback is essential for us to improve the teaching and learning experience. Kindly take a few minutes to complete this survey. Your responses will remain confidential and will be used for academic enhancement purposes.

Section A: General Information

1. **Name (Optional):** _____
2. **Roll Number (Optional):** _____
3. **Semester:** _____
4. **Course Instructor:** _____
5. **Academic Year:** _____

Section B: Course Outcomes (COs) Assessment

Please rate how well the course has helped you achieve the following outcomes on a scale of 1 to 5, where 1 = Poor and 5 = Excellent.

Sl. No.	Course Outcomes (COs)	1	2	3	4	5
1	To analyze the forces and moments developed in structural members using the principle of equilibrium.	☐	☐	☐	☐	☐
2	To introduce the techniques for analyzing internal member forces acting on trusses and frames.	☐	☐	☐	☐	☐
3	To solve basic problems on centroid, moments of inertia, and the principle of virtual work.	☐	☐	☐	☐	☐
4	To apply Newtons law, D'Alembert's Principle for rectilinear and curvilinear motion.	☐	☐	☐	☐	☐
5	To apply the Kinematics of rotation, Equation of motion of a Rotating rigid body	☐	☐	☐	☐	☐

Section C: Course Effectiveness

Please rate the following aspects of the course on a scale of 1 to 5, where 1 = Poor and 5 = Excellent.

Sl. No.	Course Attributes	1	2	3	4	5
1	Clarity of course objectives and learning outcomes	☐	☐	☐	☐	☐
2	Effectiveness of teaching methodology	☐	☐	☐	☐	☐
3	Availability and usefulness of course materials	☐	☐	☐	☐	☐
4	Relevance of course content to practical applications	☐	☐	☐	☐	☐
5	Effectiveness of tutorial sessions (if applicable)	☐	☐	☐	☐	☐
6	Use of real-world examples and problem-solving approaches	☐	☐	☐	☐	☐
7	Opportunities for interaction and doubt clarification	☐	☐	☐	☐	☐

Section D: Suggestions for Improvement

1. What did you like the most about the Engineering Mechanics course?

2. What improvements would you suggest for the course content, teaching methods, or assessment techniques?

3. Would you recommend any additional topics to be covered in future offerings of this course?

4. Any additional comments:

Thank you for your time and valuable feedback! Your input will help us improve the quality of education.

Course Instructor
Department of Mechanical Engineering
SITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Department of Mechanical Engineering
Program Exit Survey – B.Tech in Mechanical Engineering

Dear Graduating Student,

Congratulations on successfully completing your B.Tech in Mechanical Engineering! As you prepare for the next phase of your journey, we seek your valuable feedback to assess and enhance the quality of our program. Kindly take a few minutes to complete this survey. Your responses will remain confidential and will be used solely for academic improvement purposes.

Section A: General Information

1. Name (Optional): _____
2. Roll Number (Optional): _____
3. Year of Graduation: _____
4. Email (Optional): _____
5. Future Plans (Tick all that apply)

Higher Studies/Employment/Entrepreneurship/Research and Development/Government (PSU, Job/Civil Services/Defence Services/Study Abroad)

Section B: Program Educational Objectives (PEOs)

Please rate how well the program has helped you achieve the following objectives on a scale of 1 to 5, where 1 = Poor and 5 = Excellent.

Sl. No.	Program Educational Objectives	1	2	3	4	5
1		☐	☐	☐	☐	☐
2		☐	☐	☐	☐	☐
3		☐	☐	☐	☐	☐
4		☐	☐	☐	☐	☐
5		☐	☐	☐	☐	☐

Section C: Program Outcomes (POs)

Sl. No.	Program Outcomes (POs)	1	2	3	4	5
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 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, and demonstrate the knowledge of, and need for sustainable development.	☐	☐	☐	☐	☐
8	Ethics: Apply ethical principles and commit to professional ethics and 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.	☐	☐	☐	☐	☐
11	Project management and finance: Demonstrate knowledge and understanding of engineering and management principles and apply them to one's own work.	☐	☐	☐	☐	☐
12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning.	☐	☐	☐	☐	☐

Section D: Program Specific Outcomes (PSOs)

Sl. No.	Program Specific Outcomes (PSOs)	1	2	3	4	5

9		☐	☐	☐	☐	☐
10		☐	☐	☐	☐	☐
11		☐	☐	☐	☐	☐

Section E: Suggestions for Improvement

1. What did you like the most about the B.Tech Mechanical Engineering program?

2. What improvements would you suggest for the curriculum, labs, or faculty support?

3. Would you be interested in staying connected as an alumnus for mentorship, networking, or events?

4. Any additional comments

Thank you for your time and valuable feedback! We wish you great success in your future endeavors.

Head of the Department
Department of Mechanical Engineering
GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Students Feedback Form

Dear Student,

Your feedback is valuable in enhancing the quality of teaching and learning. Please take a few minutes to fill out this form sincerely. Your responses will remain confidential.

Section A: General Information

1. **Name (Optional):** _____
2. **Roll Number: (Optional):** _____
3. **Semester:** _____
4. **Course Name:** _____
5. **Course Instructor:** _____
6. **Academic Year:** _____

Section B: Course and Instructor Evaluation

Please rate the following aspects on a scale of 1 to 5, where: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Sl. No.	Evaluation Criteria	1	2	3	4	5
1	Clarity of course objectives and learning outcomes	☐	☐	☐	☐	☐
2	Effectiveness of teaching methodology	☐	☐	☐	☐	☐
3	Instructor's knowledge and command over the subject	☐	☐	☐	☐	☐
4	Ability to explain concepts with clarity	☐	☐	☐	☐	☐
5	Encouragement of student participation and interaction	☐	☐	☐	☐	☐
6	Use of real-world examples and applications	☐	☐	☐	☐	☐
7	Availability of course materials (notes, references, etc.)	☐	☐	☐	☐	☐
8	Effectiveness of assignments and evaluations	☐	☐	☐	☐	☐
9	Approachability and support from the instructor	☐	☐	☐	☐	☐
10	Overall effectiveness of the course	☐	☐	☐	☐	☐

Section C: Suggestions for Improvement

1. What did you like the most about this course?

2. What improvements would you suggest for the course content or teaching methods?

3. Would you recommend any additional topics or resources for future students?

4. Any other comments or feedback

Thank you for your valuable feedback! Your input will help us improve the quality of education.

Dean Academics
GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha. Approved by AICTE, Accredited by NAAC)

Alumni Feedback Form for Assessment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs)

Dear Alumnus/Alumna,

We highly value your feedback as it helps us assess and improve the quality of our academic programs. Kindly take a few minutes to fill out this form to evaluate the Program Outcomes (POs) and Program Specific Outcomes (PSOs) you have achieved during your study at GITA Autonomous College, Bhubaneswar. Your responses will be kept confidential and used solely for academic improvement.

Name: _____
Batch (Year of Graduation): _____
Program Studied (B.Tech/M.Tech/MBA etc.) _____
Current Organization & Designation: _____
Email ID: _____
Contact Number: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Outcome (PO)	Rating (1 to 5)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.	
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.	
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.	
4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.	
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.	
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues relevant to engineering.	
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.	
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.	
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.	
10.	Communication: Ability to communicate effectively in professional and social contexts.	
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.	
12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.	

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program Specific Outcomes (PSOs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 5)
1.		
2.		
3.		

Assessment of Program Educational Objectives (PEOs)

Please rate the following Program Educational Objectives (PEOs) based on your experience at GITA Autonomous College, Bhubaneswar using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Educational Objectives (PEO)	Rating (1 to 5)
1.	Core Knowledge: Graduates will have a strong foundation in mathematics, sciences, and engineering principles to solve mechanical engineering problems.	
2.	Professional Skills: Graduates will possess technical and managerial skills to analyze, design, and implement solutions in mechanical and interdisciplinary engineering domains.	
3.	Adaptability & Lifelong Learning: Graduates will engage in continuous learning and adapt to evolving technologies through higher education, professional development, and certifications.	
4.	Ethical and Social Responsibility: Graduates will uphold ethical values and contribute responsibly to society and environmental sustainability.	
5.	Leadership & Teamwork: Graduates will demonstrate leadership, teamwork, and effective communication skills in professional and social settings.	

Additional Feedback

1. How has your education at GITA Autonomous College, Bhubaneswar contributed to your professional growth?

2. What improvements would you suggest in the curriculum to better prepare future graduates?

3. Would you be willing to contribute to guest lectures, mentorship, or industry collaborations? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us improve and enhance the learning experience for future students.

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Employer Feedback Form for Assessment of Program Outcomes (POs) and Program-Specific Outcomes (PSOs)

Dear Employer,

We sincerely appreciate your time in providing valuable feedback regarding our graduates employed in your organization. Your insights will help us assess and enhance the quality of our academic programs. Kindly take a few minutes to complete this form. Your responses will be kept confidential and used solely for academic improvement.

Name of the Organization: _____
Employer's Name & Designation: _____
Contact Number: _____
Email ID: _____
Number of GITA Autonomous College Graduates Employed in Your Organization: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your experience with our graduates, using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Outcome (PO)	Rating (1 to 5)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.	
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.	
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.	
4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.	
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.	
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues related to engineering.	
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.	
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.	
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.	
10.	Communication: Ability to communicate effectively in professional and social contexts.	
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.	
12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.	

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program-Specific Outcomes (PSOs) based on your experience with our graduates, using the scale below:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 5)
1.		
2.		
3.		

Additional Feedback

1. How well do our graduates meet your expectations in terms of technical and professional skills?

2. What improvements would you suggest in our curriculum to better align with industry requirements?

3. Would you be interested in collaborating with us for guest lectures, internships, or industry projects? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us enhance the learning experience for future graduates.

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Parents Feedback Form for Assessment of Program Outcomes (POs) and Program-Specific Outcomes (PSOs)

Dear Parent/Guardian,

Your valuable feedback is crucial in assessing and improving the quality of our academic programs. Kindly take a few minutes to fill out this form to help us evaluate the Program Outcomes (POs) and Program Specific Outcomes (PSOs) of our students. Your responses will be kept confidential and used solely for academic enhancement.

Student's Name: _____
Year of Study (e.g., 1st, 2nd, 3rd, 4th): _____
Parent/Guardian Name: _____
Contact Number: _____
Email ID: _____

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your observations of your child's academic and professional growth at GITA Autonomous College, Bhubaneswar using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Outcome (PO)	Rating (1 to 5)
1.	Engineering Knowledge: Application of mathematics, science, and engineering fundamentals to solve complex problems.	
2.	Problem Analysis: Ability to identify, formulate, and analyze engineering problems.	
3.	Design/Development of Solutions: Ability to design solutions for complex engineering problems that meet societal and environmental considerations.	
4.	Conduct Investigations of Complex Problems: Use of research-based knowledge and methods to analyze and interpret data.	
5.	Modern Tool Usage: Ability to use modern engineering and IT tools for complex engineering activities.	
6.	The Engineer and Society: Application of knowledge to assess societal, health, safety, legal, and cultural issues relevant to engineering.	
7.	Environment and Sustainability: Understanding the impact of engineering solutions in a global and sustainable context.	
8.	Ethics: Application of ethical principles and commitment to professional ethics and responsibilities.	
9.	Individual and Team Work: Ability to function effectively as an individual and in diverse teams.	
10.	Communication: Ability to communicate effectively in professional and social contexts.	
11.	Project Management and Finance: Understanding of management and financial principles and their application in engineering projects.	
12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.	

Assessment of Program Specific Outcomes (PSOs)

Please rate the following Program Specific Outcomes (PSOs) based on your observations of your child's academic and professional growth at GITA Autonomous College, Bhubaneswar using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 5)
1.		
2.		
3.		

Additional Feedback

1. How do you perceive the impact of our academic programs on your child's personal and professional development?

2. What improvements would you suggest in our curriculum to better prepare students for their careers?

3. Would you be interested in participating in parent-college interaction programs? (Yes/No)
4. Any other suggestions/comments:

Thank you for your valuable feedback! Your insights will help us improve the learning experience for our students.

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

Institute Marks : 5.00

The institution collects feedback from the existing students regarding teaching quality and other facilities available in the college. The feedback is collected once in a semester by the Dean Academics and after thorough discussion in the FeedbackCommittee of the institution it is forwarded to the concerned departments for improvement with necessary corrective measures.

For instance, if the feedback obtained from existing students about the facilities of transportation, the Committee minutely discusses the problems and finds out suitable corrective measures which are sent to the Transport Manager of the institution forimmediate implementation.

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

Students Satisfaction Survey (SSS)

Dear Student,

Your feedback is valuable in assessing the quality of education and facilities provided in the institution. Kindly take a few minutes to complete this survey. Your responses will be kept confidential and used for academic improvement.

Student Name (Optional): _____
Batch (Year of Graduation): _____
Email ID: _____

Section 1: Teaching-Learning and Academic Environment

Please rate the following aspects on a scale of 1 to 5:

(5 – Excellent, 4 – Very Good, 3 – Good, 2 – Satisfactory, 1 – Needs Improvement)

Sl. No.	Parameters	Rating (1 to 5)
1.	The syllabus is well-structured and relevant to the industry.	
2.	The faculty members are knowledgeable and provide effective teaching.	
3.	Course materials, resources, and references are adequate and useful.	
4.	Availability of faculty members for guidance and mentoring.	
5.	Effectiveness of practical sessions and laboratory facilities.	
6.	Exposure to latest technologies, tools, and programming languages.	
7.	Encouragement for research, innovation, and project-based learning.	
8.	Use of modern teaching aids (Smart Classrooms, ICT tools, etc.).	
9.	Opportunities for industrial training, internships, and workshops.	
10.	Quality of assessments and fairness of grading.	

Section 2: Infrastructure and Learning Resources

Sl. No.	Parameters	Rating (1 to 5)
1.	Availability and accessibility of library resources (books, e-resources, etc.).	
2.	Functionality and accessibility of computing facilities and laboratories.	
3.	Internet and Wi-Fi availability for academic purposes.	
4.	Classroom environment, seating, lighting, and overall cleanliness.	
5.	Sports, extracurricular activities, and recreational facilities.	

Section 3: Career Readiness and Placement Support

Sl. No.	Parameters	Rating (1 to 5)
1.	Effectiveness of placement and career guidance programs.	
2.	Industry collaborations, MoUs, and expert lectures.	
3.	Opportunities for higher studies and competitive exam preparation.	
4.	Alumni interactions and networking support.	
5.	Entrepreneurship and start-up encouragement.	

Section 4: Overall Satisfaction and Suggestions

1. How satisfied are you with the overall learning experience at GITA Autonomous College? (1 to 5): _____

2. What do you like the most about the program?

3. What improvements would you suggest for better learning outcomes?

4. Any additional comments or feedback:

Thank you for your valuable feedback! Your responses will help us improve the quality of education and enhance the student experience.

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

Institute Marks : 5.00

Self-Learning

- Library facility available beyond working hours
- Recorded video lectures of IITs and Reputed university experts through NPTEL and Coursera. Videos are stored in the systems of our department.
- Students are encouraged to study from MOOCs platform such as NPTEL, Classyern, Coursera etc.
- If a student completes 20 credits from the selected subjects centralized from NPTEL courses during his four year studies, he will be awarded B. Tech. with Honours.
- Similarly, If a student completes 20 credits from the selected subjects of any other stream of engineering as realized from NPTEL courses during his four year studies, he will be awarded B. Tech. with Minor in that stream.
- Opportunity to do mini projects during the course has been encouraged.
- Learning and implementing concepts beyond the syllabus / usual as students' interest has been greatly encouraged.
- Adapting to industrial needs through in plant training.
- Acquiring managerial skills and motivation through symposiums conducted annually.
- Participation in activities through Professional bodies and R&D cell.
- Availability of the centralized computer facility with internet even beyond class working hours.

The above facilities have enabled the overall development of our students which is seen with respect to improved placements, University ranks, participation and success in both curricular and co-curricular activities.

AS Career Guidance, Training, Placement (10)

Total Marks: 10.00

Career Guidance:

- Communication received from reputed institutions with respect to higher studies, campus placements, industry interaction with respect to training / internship placements is periodically communicated to the students. Circulars are issued and also details are displayed in department and placement notice boards in addition to dissipation of information through website.
- Counselling is given with respect to higher studies and students are given guidance to enroll in GATE, GRE, GMAT etc. by giving them permission and encouragement.
- [BE] E creative in collaboration with Edtech Company.
- Infosys campus connect program is conducted since last 13 years.
- In house GATE coaching class is conducted for each batch of students.
- In house aptitude building courses (Quantitative Aptitude and Reasoning) are imparted to the students from the beginning of first semester.
- In house programming skill improvement courses (java, Python, C, etc) are imparted to the students from the beginning of first semester.

Training:

The Training and Placement Department of the institution provides all the facilities to the students for career guidance, training, placement and entrepreneurship. The Department has two air conditioned rooms for group discussion practice, five air conditioned chambers for conducting mock personal interviews and one air conditioned auditorium for hosting seminars and talks by eminent personalities. The Training department maintains resource persons for providing professional and industrial training for the students. The Placement department contacts and hosts various companies and industries and convinces them for interaction with the students. The organizational chart of the department is given below with the responsibility of the designated office bearers. The Training is imparted to the students in three levels and due to effective training provided the employability index of the students is increasing consistently year after year.

- Pre-placement training is achieved in the early stages itself by including aptitude as a separate subject in the time table itself.
- With respect to specific training, a well-qualified outside agency is selected and training is imparted over a period of 60 hours covering various aspects such as quantitative ability, reasoning ability, verbal ability, group discussion, personal interview, resume writing, general aptitude test, HR interviews, soft skills, shortcuts to company questions, company specific training, online test and evaluation.

Placement Activities:

- We have full-fledged Placement cell, which monitors the employment opportunities and arranges campus interviews for the final year students.
- We also have MOUs with reputed companies for placement.
- Our Campus recruitment program starts by the beginning of the Pre-Final semester.
- The On Campus recruitment programs mostly continuing till the end of their final semester.
- We have off campus placement through a few select institutes/ universities.
- The effectiveness of the training program is analyzed by the feedback collected from each and every student and the continuous improvement in the placement record.

Infrastructure of Training & Placement Cell of ISTA

Sl.No	Room No	Area	Other Facilities	Remarks
1	Placement Room – 1	800sqMtr	A.C G.D.TableandChairs	Used for conducting GD/Practice and tests duringCampusPlacement Drives
2	Placement Room – 2	55.0sqMtr	A.C G.D.TableandChairs	Used for conducting GD/Practice and tests duringCampusPlacement Drives
3	PlacementOffice	84.200sqMtr.	A.C Sitting Arrangementsfor Office rs	UsedforsittingofOfficers
4	TrainingRoom	1700sqMtr.	A.C. LCD Projector Audio-visualUnit	Used for providing training(Softskill skill and technical) toStudents
5	Smart Room	108 Sq.Mtr	A.C. LCD Projector Audio-visualUnit	Used for providing training(Softskill skill and technical) toStudents
6	Auditorium	250 sq. mtr	A/C. Audio-visual systemwith LCD Projector	Used for holding Seminars,Interaction with inHouseandOutside and PrePlacementTalksbyCompanies
7	Personal InterviewRooms(3	20sqmtrs each	A/C, Interview Tableswith revolving chairs	Used for conducting mockPersonalInterviews duringtraining,and Pl acementDrives
8	Pantry	48 sq. mt	A.C. Dining Hall	Used for Providing qualitativefood during meetings andCampus Placement Drives

9	Rest Room	30 sq. mtr	A.C. double bedded	Used for delegates to take rest at the time of need during Campus Placement Drives

Office bearers with responsibilities:

Sl.No.	Designation	Responsibilities
1	Director Corporate Relations	Heads the dept, takes decisions, monitors activities, reviews performance, recommends measures for improvement
2	Asst. Director Corporate	Meets companies, markets, and convinces them for interaction & range campus placement drives
3	TrainingHead	Arranges resource persons for training, imparts soft skill training
4	SeniorPlacementOfficer	Meets companies, markets and convinces them for interaction, arrange campus placement drives
5	PlacementOfficer	Meets companies, markets and convinces them for interaction, arrange campus placement drives
6	TrainingOfficer	Imparts soft skill training
7	TrainingCoordinator	Coordinates with resource persons (maintains official recorded training)
8	Data Entry Operator	Keeps all types of records, sends database of students to companies, helps in placement activities

The Director, Corporate Relations heads the Training and Placement Department controlling two individual wings under him. He is responsible for managing the department and taking all the decisions that are helpful for the students of the institution. The Training Head arranges the resource persons from various fields to provide effective training to the students. He along with the training officers provide soft skill training to the students. The Training coordinator ordinates with the resource persons for engaging scheduled classes and maintains official records of training. The departmental technical training committee interacts with the Training Head to conduct technical training programmes and as ordinates with the Placement department to know about the breadth and depth of course material required for imparting effective training and also participates in technical training as and when required. The placement record of the institution is persistently increasing year by year.

Institute Marks : 5.00

EDP & EPC Center, an autonomous non-profit body established in 2015, is sponsored by the widely acclaimed GITA Autonomous College, Bhubaneswar, the foremost technological institute in the outskirts of the city of Bhubaneswar in the state of Odisha. To pursue its mission, GITA Autonomous College, Bhubaneswar has sponsored eight faculty coordinators and sixteen student coordinators in a continuous cycle to work in tandem with the center.

The objectives of the Center are:

1. To inculcate an entrepreneurial culture into the minds of young engineering students.
2. To conduct Entrepreneurship Awareness Camps (EAC), Entrepreneurship Development Programmes (EDP), Faculty Development Programmes (FDP) and Skill Development Programmes (SDP).
3. To assist the students to initiate a start up of their own in the form of Product Identification, Market Survey and Tools for Market Research, Preparation of Project Reports, and assist them in getting Technical Feasibility Report.
4. To provide Consultancy and Research Support.

One of the satisfying achievements, however, was conducting Entrepreneurship Awareness Camps for every student pursuing B. Tech from their second year, wherein the first appreciation of entrepreneurship as an alternative but more prudent career for graduate engineers is inculcated in their minds. The Center also helps the students seeking employment to display a spirit of enterprise and ownership during their job interviews and subsequently in their job careers.

MISSION:

To become a catalyst and a prime mover in facilitating emergence of competent first generation entrepreneurs from among the graduating engineers through entrepreneurship education, training, research and institution building.

BELIEFS:

1. Entrepreneurship is a vital tool that facilitates inclusive growth of society.
2. Entrepreneurship education, training and counseling can hasten the emergence of progressive entrepreneurship.
3. Entrepreneurship encourages youth to seek innovation and challenges thus leading to optimal utilization of resources and wealth creation.
4. Increased incidents of entrepreneurship are an indicator of national economic growth.
5. The Nation can be placed on a high growth trajectory by unleashing its enormous growth potential through an entrepreneurship culture.

LIST OF ACTIVITIES OF EDP AND EP CELL:

Sl No.	Date	Activity/Function/Competitions/Venue	Participants/Audience	Speaker/Resource Persons	Photos
1	12th Oct 2021	Selection and interview of aspirant E-leaders for current session	Students of 2nd year & 3rd year. Around 40 students for different areas of events were selected	Prof. N.P Patra	
2	29th Oct 2021	Quiz and Poster Designing Competition.	All together 23 students Participated including both the category	Prof. N.P Patra and all the E- leaders	
3	8th Jan 2022	Promoted work for EAC programme in upcoming months	All E-leaders	Prof. N.P patra Prof. K.K. Mishra	
4	2nd Mar 2022	Confederation of Indian Industry(CII) session on "Doing business in Odisha" at Mayfair Conventional Hall	Five E-leaders of EDP & EPC Centre	Mr. D.G RavinotaRaju, Chairman CII Odisha Mr.Tapan Kumar Chand, Chairman & MD, NALCO Sri Sanjay K Singh, IAS, MD & CEO of OCAC Sri Sanjeev Chopra, secretary, Dept. of Industry & CMD, IPICOL Mr. Sanjay Pattnaik, Vice-Chairman CII, Odisha	
5	11th Mar to 13th March 2022	Entrepreneurship Awareness Camp 2022 (EAC 1)	113 B.tech students registered their names for the programme	Sri S.K. Rath, MSME Sri Gopal Roy, EDII, BBSR Mr.Danielle Mishra, NABARD Prof P.K. Mohanty, GITA Mr.Divyasingh Mishra, DIC	
6	14th Mar 2022	Industry visit for the EAC 1	All the participants of EAC 1 along with branch coordinator and some of the E-leaders	LINGARAJ BISCUITS (P) LTD Parle Biscuits Chandaka, Near Silicon Engg College Bhubaneswar	
7	11th Apr 2022 to 14th Apr 2022	Entrepreneurship Awareness Camp 2022 (EAC 2)	89 B.tech students participated in the programme. This is the solidarity session with issue of certificates of participation.	Chief Guest Sri C.R Patnaik Executive Director- EDII Bhubaneswar Mr.Danielle Mishra, NABARD Sri Sangram Kumar, MSME Sri B.P Panda, EDII Sri K.K. Rath, MSME Sri Gopal Roy, EDII, BBSR	

8	19th Feb 2023	Industry visit for the EAC 2	All the participants of EAC 2 along with branch coordinator and some of the E-leaders	Hindustan Coca Cola Beverages Pvt. Ltd, Manchesvar Industrial Estate, Bhubaneswar, Odisha 751007	
9	12th Aug 2023	Selection and interview of aspirant E-leaders for current session	Students of 2nd year & 3rd year Around 40 students for different areas of events were selected.	Prof. N.P Patro, Prof.(Dr.)K.K Mishra	
10	22nd October 2023	Quiz and Poster Designing Competition on the occasion of 3rd Anniversary of EDP & BPC Centre	All together 48 students Participated including both the category	Prof. N.P Patro and all the E-leaders	
11	18th Dec-30th Dec 2023	EDB Faculty Development Programme at Utkal University	Prof Bayadhar Rout, Asst Professor Evaluation Participated	12 days FDP in Entrepreneurship organised by EDB sponsored by NIITEDM	
12	23rd Jan 2023	Debate competition organised by the EDP & BPC cell.	30 students Participated in the event.	Prof. N.P Patro, Prof.(Dr.)K.K Mishra Prof Bayadhar Rout Prof. Sujit Kisanta Prof. Surya Narayan Mohanty Prof. P.K Mohanty	
13	3rd Feb 2023 to 8th Feb 2023	Entrepreneurship Awareness Camp 2019 (EAC 1)	85 Batch students registered their names for the programme	Prof Baradia Prasad, NEN Sri S.K. Rath, MSME Sri Gopal Roy, EDB, BBSR Mr Damodar Mishra, NABARD Mr Divyasingh Mishra, DIC	
14	9th Feb 2023	Industry visit for the EAC 1	All the participants of EAC 1 along with branch coordinator and some of the E-leaders	In the campus of LINGARAJ BBSC(JTS(P)) LTD Parla Bomulla Charatika, Near Silicon Engg College Bhubaneswar, after the industry visit	
15	23rd Mar 2023	Interactive session on Start Ups at Mayfair Conventional Hall	Five E-leaders of EDP & BPC Centre	Mr Rajan Anandan Vice President, Google, South East Asia	
16	28th Feb to 3rd March 2023	E-week 2023 in GITA Campus	12 groups participated in the competition and at all the end of the program all the participants gave the presentation regarding their business performance	Top performers in the competition were awarded with cash price after the presentation.	
17	31st Mar 2023 to 2nd Apr 2023	Entrepreneurship Awareness Camp 2023 (EAC 2)	80 Batch students registered their names for the programme	Sri S.K. Rath, MSME Sri Gopal Roy, EDB, BBSR Mr Damodar Mishra NABARD Prof P.K. Mohanty, GITA Mr Divyasingh Mishra, DIC	

18	3rd Apr 2023	Industry visit for the EAC 2	All the participants of EAC 2 along with branch coordinator and some of the E-leaders		Photo Session with Sj S N Panda, Chairman, Joy Bharat Masala Group, after the industry visit by the participants of the EAC	
19	18th Aug 2023	Selection and interview of aspirant E- leaders for current session	Students of 2nd year & 3rd year. Around 45 students for different areas of events were selected.		Prof. N.P Patra, Prof. (Dr.)A.K Mishra	
20	18th Oct 2023 to 21th Oct 2023	Entrepreneurship Awareness Camp 2023 (EAC 1)	85 B.Tech students registered their names for the programme		Mr. Dibyasingh Mishra, DIC Mr. Mahendrakgarh, DIT, Mr. Damanar Mishra Nabard Mr. B Panda, EDII, BBSR Mr. Gopal Roy, EDII, BBSR	
21	9th Nov 2023	Workshop on Entrepreneurship Development Skills	90 Students participated in workshop		Mr.Raman Das, IKORA Group, Prof. N.P Patra, Prof. (Dr.)A.K Mishra	
22	12th Dec to 23rd Dec 2023	EDII Faculty Development Programme at Utkal University	Prof Sujit Mandal, Asst Professor Electrical Participated		12 days FDP in Entrepreneurship organised by EDII sponsored by NSTEDB	
23	3rd Jan 2024 to 16th Jan 2024	Faculty Development Program in Entrepreneurship 2024	75 faculties have part in the programme		The FDP was conducted by EDP & BPC Centre GITA, Bhubaneswar in association with EDII in the angle of NSTEDB	

	11th January 2024	Career Counselling organised by EDP &BPC Centre	200 students from all branches took part in the programme.	The programme was coordinated by Prof N.P Patra&Prof.Dr.Manoj Pradhan.	

The Institution provides ample scope for the students to participate in social service activities through various societies. In view of imparting a sense of social responsibility and inculcating ethical values, the institution has an NSS unit which helps the students for social interaction and the details of activities undertaken by the unit are given below. The unit has adopted the nearby villages for social activities. Besides NSS, the institution also has several other societies for the students for co-curricular and extra-curricular activities. The institute has a Literary Society that organizes various competitions such as essay, debate, quiz, creative writing and topics of burning issues of current affairs with a social interest; a Science Society that organizes several projects involving the students and sends them to other venues to participate in science related competitions. The Cultural Society and the Athletic Society of the institution help the students for an all round development in their personalities. The Cultural Society organizes the Annual Cultural Function in which the students of the institution participate in cultural activities exposing their innocent skills and talents in front of a large number of spectators. The Athletic Society provides a great scope for the students of the institution to prove themselves physically and for imbibing sportsmen spirit in themselves. The students of the institution achieved great success in various competitions organized in the institution or outside. The details of the achievements is given below.

Achievements in inter college sports meet (2023-24)

Sl. No	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements
1	Biju Patnaik University, BBSR	16/02/24-20/03/24	Inter university sports meet	Cricket	Runners up trophy & cash
2	CET, BBSR	29/03/24-31/03/24	Engineers Cup- 2K24	Football	Champions Trophy & Cash
3	TITE, BBSR	23/03/24-28/03/24	Summer T-20 cup	Cricket	Champions Trophy & Cash
4	VSSUT, Burla	12/02/24-14/02/24	SUSM-2K24	Football	Runners up trophy & cash
5	FIET, Berhampur	04-03-2024 AT 07.03.2024	Inter college sports meet	volley	Runners up trophy & cash Prize
6	GITA, BBSR	24/02/24-26-02-24	ICMT-2K24	Basket ball	Champions Trophy & Cash
7	OEC, BBSR	04-02-24-11-03-24	ICSM 2024	Cricket	Champion's Trophy & Cash Prize.
8	CVRCE, BBSR	23/02/24-26/02/24	ICSM 2024	volley	Runners up trophy & Cash

Achievements in inter college sports meet (2022-23)

Sl. No	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements
1	Biju Patnaik University, BBSR	16.01.23-20.03-23	Inter university sports meet	Cricket	Runners up trophy & cash
2	CET, BBSR	19/02/23-21/02/23	Engineers Cup- 2K23	Football	Champions Trophy & Cash
3	TITE, BBSR	03/03/23-06/03-23	Summer T-20 cup	Cricket	Champions Trophy & Cash
4	VSSUT, Burla	12/02/23-14/02/23	SUSM-2K23	Volley	Runners up trophy & cash
5	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTSAHAN 2k23	Volley	Runners up trophy & Cash
6	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTSAHAN 2k23	Basket ball	Runners up trophy & Cash
7	NIST, Berhampur	04-03-2023 -07.03.2023	Inter college sports meet	Cricket	Runners up trophy & cash Prize
8	GITA, BBSR	24/02/23-26-02-23	ICMT-2K23	Cricket	Champions Trophy & Cash
9	OEC, BBSR	05-01-23-01-01-23	ICSM 2023	Football	Champion's Trophy & Cash Prize.
10	CVRCE, BBSR	23/02/23-26/02/23	ICSM 2023	Football	Runners up trophy & Cash

Achievements in inter college sports meet (2021-22)

Sl. No	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements
1	Silicon Institute of Technology,BBSR	04-02-22 to 06-02-22	12th ICSM 2022	Volley ball	Champion's Trophy & Cash prize
2	NIST, Berhampur	15-01-22 to 18-02-22	5th VALLIANT CUP-2022	Volley ball	Champion's Trophy & Cash prize
3	RITE, Bhubaneswar	21-02-22 to 23-02-22	ICSM-2022	Cricket	Runners up trophy & Cash prize

4	GITA, Bhubaneswar	17-03-22 to 18-03-22	Dr. MP Memorial KNT-2K22	Cricket	Runners up trophy & Cash prize
5	Birla Global University, BBSR	21-03-22 to -29-03-22	ICSM 2022	Cricket	Runners up trophy & Cash prize
6	ABVP, Odisha	01/04/22-03/04/22	Inter college cricket tournament-2K22	Cricket	Runners up trophy & Cash prize
7	BPUT, Odisha	01/04/22-03/04/22	Pinku Memorial cricket tournament2K22	Cricket	Champions Trophy & Cash prize
8	CET BBSR	14/03/22-17-03/22	Engineers Cup-2K22	Volley ball	Runners up trophy & Cash prize
9	CUTM, BBSR	17-12-21-19-12-21	GITUG-2K21	Cricket	Champion's Trophy & Cash prize
10	VSSUT, Burla	12/02/22-11/02/22	ICSM 2022	Volley	Champions Trophy & Cash prize
11	TITE, BBSR	03/04/22-05/04/2022	Summer T-20 cup	Cricket	Champions Trophy & Cash prize
12	CVRCE, BBSR	12/02/22-11/02/22	ICSM 2022	Football	Champions Trophy & Cash prize
13	OEC, BBSR	03-01-22-06-01-22	ICSM 2022	Football	Runners up trophy & Cash
14	AMIS, BBSR	06-01-22-13-01-22	ICSM 2022	Basket Ball	Runners up trophy & Cash
15	Trident Academy of Technology	22-12-21-24-12-21	Inter college Sports meet-2K21	Cricket	Runners up trophy & Cash prize

Co-Curricular Activities:

(2023-24)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	SASI-MAHA SEKHAR PANDA	C-coding, GIET, BBSR	Aug. 2023	2nd
2	ARJEET CHAKRA	Ship Building, GITA, BBSR	Jan. 2024	2nd
3	RICHIT PATEL	ROBO WAR, CVRCE University, BBSR	Oct. 2023	1st
4	ASHUTOSH MANSARAJ	Paper Presentation, GITA, BBSR	Jan. 2024	3rd
5	BHAWANI SHANKAR PANIGRAHI	KIMCWAZION, GITA, BBSR	Jan. 2024	2nd
6	JACKSON LUGUN	CART Design, KIIT University, BBSR	Nov. 2023	2nd
7	LONESH PRASAD BISHI	Start Up India, GET, BBSR	Dec. 2023	2nd
8	SOUBHAGYA RANJAN JENA	ZIGMO, GIET, Gunupur	Jan. 2024	3rd
9	ADITYA KUMAR PATRA	Technical Paper Presentation, GIET, BBSR	Sept. 2023	3rd
10	ANKIT PRADHAN	C- Coding, KIIT University, BBSR	Aug. 2023	3rd
11	ASISH KUMAR NAYAK	Go-CART, Tilcom, BBSR	Jan. 2024	2nd
12	DURGA MADHAB SAHOO	HACKATHON, SOA University	Sept. 2023	2nd
13	JATIN AMRESH KUMAR SAHOO	Project Fair, GITA, BBSR	Jan. 2024	1st
14	ARUNANGHU MISHRA	Paper Presentation, GIET, BBSR	Nov. 2023	2nd
15	BIDYUT PRADHAN	RMAS, CVRCE University, BBSR	Sept. 2023	3rd

(2022-23)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	BISWAJEET DAS	Pentathalon, CVRC University	Oct. 2022	2nd
2	APYADIPTA NAYAK	Paper Presentation, GET, BBSR	Aug. 2022	2nd
3	DHRUV SINHA	CIRCUITRIX, Silicon, BBSR	Sept. 2022	3rd
4	SUSHANGHU SEKHAR BISWAL	HACKATHON, SOA University	Oct. 2022	3rd
5	MD SAIF	Technical Paper Presentation, KMBB, BBSR	Dec. 2022	2nd
6	TOPHAN PRADHAN	ROBO WARFAIR, VSSUT, Burla	Jan. 2023	1st
7	RAJAN KUMAR KUSHWAHA	Project Fair, GITA, BBSR	Jan. 2023	1st
8	DIPENDRA KUMAR PANDEY	CAD Modelling, GIET, BBSR	Sept. 2022	2nd
9	BIKASH KUMAR NANDI	TECH QUIZ, GITA, BBSR	Oct. 2022	1st
10	MOHAMMED AQUIB JAWED	Ship Building, GITA, BBSR	Jan. 2023	1st
11	KAUSHAL KUMAR	Robotics Competition, GIET, Gunupur	Oct. 2022	2nd
12	RUBESH KUMAR PRADHAN	Treasure Hunt, GITA, BBSR	Jan. 2023	1st

13	MAHESWAR SUDA	Paper Presentation, CET, BBSR	Jan, 2023	1st
14	JYOTIPRAKASH ROUT	C- Coding, KIIT, University	Oct, 2022	3rd
15	MEER HADEEM AS-IRAT	HACKATHON CONDUCTED @ SIT, MEERA	Sept, 2022	1st

(2021-22)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	ABHISHEKH BALIARSINGH	Paper Presentation, CET, BBSR	Aug, 2021	2nd
2	AFRIN BAIG	Ship Building, GITA, BBSR	Jan, 2022	2nd
3	ABHIJIT TRIPATHY	Robotics Competition, IGIT, BBSR	Oct, 2021	3rd
4	BISWAJEET PRADHAN	CAD Modelling, GIET, BBSR	Jan, 2022	3rd
5	BHARATBHUSHAN NARAYANSINGH	HACKATHON, GS I, BBSR	Nov, 2021	2nd
6	DINESH MALLICK	Paper Presentation, CET, BBSR	Nov, 2021	1st
7	GOUTAM PANDA	Robotics Competition, Silicon, BBSR	Dec, 2021	1st
8	MAHESH KUMAR MAHTO	Treasure Hunt, GITA, BBSR	Jan, 2022	2nd
9	ASISH KUMAR SAHU	Project Fair, GIET, Gunupur	Nov, 2021	3rd
10	MD SHEESH SADAN	Paper Presentation, GITA, BBSR	Oct, 2021	2nd
11	MOHIT MRIDUL	C- Coding, KIIT University, BBSR	Jan, 2022	3rd
12	HARSH RAJ	CAD Modelling, CVRCE University	Oct, 2021	2nd
13	PRAJNANA SBHRAM BEHURA	Technical Paper Presentation, GIET, BBSR	Nov, 2021	1st
14	JITENDRA JENA	HACKATHON, SOA University	Dec, 2021	3rd
15	PAVITHRA MUNI	C- Coding, NIT, Rourkela	Sept, 2021	3rd
16	PRANAY GANESH WAR MOHANTY	Paper Presentation, SIET, BBSR	Jan, 2022	2nd
17	MD SHADAB RAZA	Bridge Building, GITA, BBSR	Jan, 2022	3rd
18	KASHINKA KESHAR PATRA	Modelling in CAD, Trident, BBSR	Oct, 2021	2nd

Cultural Activities:

Cultural activities are encouraged in the Institute and a group of faculty members guide, help and conduct activities such as Music, Dance and Drama. Inter departmental literary programmes is conducted every year. Students are actively participating in various Inter-university cultural events. Activities of this kind help the students to revolt their personality. A Cultural Co-Ordinator is coordinating all the cultural activities. Annual Cultural festival organized every year. More than 10 Institutions from all over Odisha participated in these four days' event.

NSS/ Social Activities:

The Institution provides ample scope for the students to participate in social service activities through various societies. In view of imparting a sense of social responsibility and inculcating ethical values, the institution has an NSS unit which helps the students for social interaction and the details of activities undertaken by the unit are given below. The unit has adopted the nearby villages for social activities. Besides NSS, the institution also has several other societies for the students for co-curricular and extra-curricular activities. The institute has a Literary Society that organizes various competitions such as essay, debate, quiz, creative writing and topics of burning issues of current affairs with a social interest; a Science Society that organizes several projects involving the students and sends them to other venues to participate in science related competitions. The Cultural Society and the Athletic Society of the institution help the students for an all-round development in their personalities. The Cultural Society organizes the Annual Cultural Function in which the students of the institution participate in cultural activities exposing their inherent skills and talents in front of many spectators. The Athletic Society provides a great scope for the students of the institution to prove themselves physically and fix in instilling sportsman spirit in themselves. The students of the institution achieved great success in various competitions organized in the institution or outside. The details of the achievements is given below.

Sl. No.	Date	Program Name	Place	Nos. of Students Present
1	27.11.2023	Afforestation and Tree plantation	Chhatabasa	60
2	28.12.2023	Literacy	Kolmalu	60
3	02.01.2024	Programmes of Women & Child Care	Mukanpur	75
4	08.02.2024	AIDs Awareness	Raghunathpur	60
5	18.02.2024	Dental Camp	GITA, Campus	55
6	25.02.2024	Anthrax Campaign	Arkadu, Hirapur	110
7	28.03.2024	Blood Donation Camp	GITA, Campus	102
8	25.03.2024	Afforestation and Tree plantation	Mukanpur	67
9	28.07.2023	Literacy	Raghunathpur	54
10	14.12.2023	Programmes of Women & Child Care	Nrushingajo	78
11	17.06.2022	AIDs Awareness	Arkadu, Hirapur	30
12	07.12.2022	Dental Camp	Arkadu, Hirapur	65
13	09.08.2021	Anthrax Campaign	Kolmalu	40
14	06.12.2021	Blood Donation Camp	Mukanpur	70
15	21.03.2022	Afforestation and Tree plantation	Raghunathpur	65
16	22.08.2021	Operation Dowang	Nrusingha,sadhpur	65
17	21.11.2022	Programmes of Women & Child Care	Arkadu, Hirapur	30
18	13.03.2023	AIDs Awareness	Raghunathpur	75
19	19.10.2022	Dental Camp	Jagarnath	60
20	27.02.2023	AIDS awareness	Jamujhari	15

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) — Total Marks 120.00

10.1 Organization, Governance and Transparency (55) — **Total Marks 55.00**

10.1.1 State the Vision and Mission of the Institute (5) Institute Marks : 5.00

Vision of Institute:

To foster prosperity through technological advancement by promoting education, innovation, and collaborative research, and to emerge as a globally renowned premier technical institution.

Mission of the Institute:

1. To impart high quality professional education to students worldwide, fostering innovation, technological advancement, discipline, effective communication skills, and strong moral values.
2. To provide a broad-based education that ensures the holistic development of students.
3. To leverage expertise in science, technology, and management to deliver comprehensive training in visualizing, synthesizing, and executing projects.
4. To nurture a spirit of entrepreneurship and innovation among students.
5. To undertake sponsored research and offer consultancy services to industrial, educational, and other relevant domains.
6. To promote healthy practices such as community service, outreach initiatives, and innovative projects for societal benefit.

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (7) Institute Marks : 25.00

Strategic Goals and Objectives

Year 1: Strengthening Academic Framework

- Implement Outcome-Based Education (OBE) aligned with NBA requirements.
- Upgrade curriculum with emerging technologies like AI, IoT, and Blockchain.
- Enhance digital learning resources, including MOOCs and virtual labs.
- Establish a Faculty Development Program (FDP) to improve teaching methodologies.
- Implementation of NEP 2020

Year 2: Research and Innovation Enhancement

- Increase research funding and collaborations with reputed institutions.
- Establish a Center of Excellence in areas like Renewable Energy, AI & ML.
- Encourage faculty and students to publish in high-impact journals.
- Strengthen intellectual property (IP) and patent filing support.

Year 3: Industry-Academia Collaboration

- Develop industry-sponsored labs and collaborative projects.
- Establish internship and placement tie-ups with leading industries.
- Introduce mentorship programs with industry experts.
- Organize tech fests, hackathons, and international conferences.
- Establish Centre of Excellence in all departments.

Year 4: Infrastructure and Digital Transformation

- Develop smart classrooms with AI-enabled teaching tools.
- Upgrade research and innovation labs with advanced equipment.
- Implement a robust Learning Management System (LMS) for hybrid learning.
- Enhance campus sustainability with green initiatives and renewable energy sources.

Year 5: Institutional Growth and Global Outreach

- Pursue global collaborations with top universities and research organizations.
- Obtain international accreditations like ABET and QS Rankings.
- Expand interdisciplinary programs and dual-degree options.
- Strengthen alumni engagement for institutional growth and networking.
- Achieve Deemed-to-be-University status.

Implementation Strategies

- Develop a phased implementation plan with clear milestones and timelines.
- Assign dedicated task forces for each strategic objective.
- Provide faculty and staff with training and resources for effective execution.
- Leverage technology and data analytics for real-time decision-making.
- Secure necessary funding through government grants and industry partnerships.

Monitoring and Evaluation

- Establish a Strategic Plan Implementation Committee for regular progress tracking.
- Conduct annual reviews and stakeholder feedback sessions.
- Align key performance indicators (KPIs) with accreditation and ranking frameworks.
- Utilize benchmarking with top institutions to assess performance improvements.
- Publish an annual strategic progress report for transparency and accountability.

10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10) Institute Marks : 10.00

Governing Body

Meetings: Meetings of the Governing Body shall be held at least twice a year.

Functions of the Governing Body.

Subject to the existing provision in the Syndicate of respective college and rules laid down by the state government/parent university, the Governing Body shall:

- Guide the college while fulfilling the objections for which the college has been granted autonomous status.
- Institute scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council.
- Approve new programmes of study leading to degrees and/or diplomas.
- All recruitments of Teaching Faculty/Principal shall be made by the Governing Body/state government as applicable in accordance with the policies laid down by the UGC and State Government from time to time.
- To approve annual budget of the college before submitting the same at the UGC.
- Perform such other functions and institute committees, as may be necessary and deemed fit for the proper development of the college.

1.	Dr. Satya Prasanth Panda	Chairman, GGI, Odisha	Chairman
2.	Dr. Charana Dinraj Panda	Secretary, GGI, Odisha	Member
3.	Dr. Bhanchi Narayan Panda	Vice-Chairman, G/TA Autonomous College, Bhubaneswar	Member
4.	Mrs. Sasanta Manjari Panda	Trustee, VBET, Gurupur	Member
5.	Mrs. Pratima Panda	Trustee, VBET, Gurupur	Member
6.	Dr. L. N. Singh	Head, Department of Physics, Dean (R&C) and Director IQAC, Dr. B.A. Technological University, Maharashtra (UGC Nominee)	Member
7.	Dr. B.B. Pati	Vice Chancellor, VSSUT, Burla, (BPUT, Nominee)	Member
8.	Mr. S. K. Pradhan, OAS (SAS)	Addl. Secy. to Government, Department of Skill Development and Technical Education, Govt. of Odisha (State Govt. Nominee)	Member
9.	Dr. Mana Sonal Mishra	Managing Director, Kendrana Solutions Pvt Ltd	Member
10.	Dr. Prasanta Kumar Raulay	Dean Administration (Staff Representative)	Member
11.	Dr. Kishore Kumar Mishra	Dean Academics (Staff Representative)	Member
12.	Dr. Manmatha Kumar Raul	Principal	Secretary

Academic Council

Meetings: Academic Council shall meet at least twice a year.

Functions of the Academic Council

The Academic Council shall have powers to:

- Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- Make regulations regarding the admission of students to different programmes of study in the college keeping in view the policy of the Government.
- Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- Recommend to the Governing Body proposals for institution of new programmes of study.
- Recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same.
- Advise the Governing Body on suggestions(s) pertaining to academic affairs made by it.
- Perform such other functions as may be assigned by the Governing Body.

S.N	NAME	DESIGNATION	POSITION
1.	Prof. M.K. Raul	Principal	Chairman
2.	Prof. Srikanta Behera	Dean, SRIC, OUTR Bhubaneswar	Member
3.	Prof. Sujit Kumar Khuntia	Director CD, BPUT, Odisha, Rourkela	Member
4.	Dr. Nilanandhab Tripathy	Senior System Analyst, IBM	Member
5.	Prof. Asoobeda Raulay	Professor, Electrical Engineering Department, IIT, Kharagpur	Member
6.	Prof. S. K. Dash	Head, Deptt. Of Mechanical Engineering, IIT, Kharagpur (W.B.)	Member
7.	Mr. Radhakanta Samantara	Vice-President, Infinite Computer Solutions, India	Member
8.	Dr. Srikant Patnaik	Director, IMT Bhubaneswar	Member
9.	Prof. Mrityunjaya Panda	Associate Professor, Utkal University Bhubaneswar	Member
10.	Prof. R.K. Mishra	Retd. Professor Mechanical Engineering, VSSUT, Burla	Member
11.	Prof. S.C. Mishra	Retd. Principal, College of Engineering & Technology, Bhubaneswar	Member
12.	Prof. P.K. Raulay	Dean Admin	Member
13.	Prof. N.P.Patra	PIC (CDPA/IPC)	Member
14.	Prof. Srikanant Patra	Asso. Professor, Dept. BS&H	Member
15.	Prof. T.R. Rangrain	HoD CSE	Member
16.	Prof. P.K. Bal	HoD CSE-DS	Member
17.	Prof. Bijaylaxmi Panda	HoD CST	Member
18.	Prof. P.K. Sin	HoD CSIT	Member
19.	Prof. N.K. Kamila	HoD CSE-AI	Member
20.	Prof. D.K. Nayak	HoD ECE	Member
21.	Prof. S.K. Dash	HoD EE	Member
22.	Prof. S.K. Swain	HoD EEE	Member
23.	Prof. M.K. Pradhan	HoD ME	Member
24.	Prof. Jogjogal Jena	HoD CE	Member
25.	Prof. D.B. Mishra	HoD MCA	Member
26.	Prof. Jaranjan Dash	HoD MBA	Member
27.	Prof. B.P. Mishra	PIC (R&D)	Member

Board of studies:

Meetings: The Board of Studies shall meet at least twice a year.

Functions: The Board of Studies of a Department in the college shall:

- prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council;
- suggest methodologies for innovative teaching and evaluation techniques;
- suggest panel of names to the Academic Council for appointment of examiners;
- and coordinate research, teaching, extension and other academic activities in the department/college.

DEPARTMENT OF CSIT

S.N	NAME	AFFILIATION	POSITION
1	Dr.Pokhraj Kumar Giri	Professor& Head, Dept. of CSIT	Convener
2	Prof. (Dr.) Sanjaananda Mishra	Professor, Dept. of CSE, SIST, Sanang	Member (Academics Expert)
3	Dr. Manas Ranjan Senapati	Assoc. Professor, Head Dept. of IT, VSSUT, Burla	Member (Academics Expert)
4	Mr. Bibekananda Mishra	Senior Consultant Technology I lead (Azure Cloud Architect), Infosys, Bangalore	Member (Industry Expert)
5	Mr. Ashis Kumar Nayak	Software Engineer, Motorola Solutions, Bangalore	Member (Alumni)
6	Prof. (Dr.) Ch.Sanjeev Kumar Dash,	Professor, Dept. of CSE, SFIT, Bhubaneswar	Member (BPUT Nominee)
7	Mr. Debasish Das	Asst. Professor, Dept. of CSIT	Member
8	Mr. Chandrakant Mallick	Asst. Professor, Dept. of CSIT	Member
9	Mr. Subhat Ranjan Das	Asst. Professor, Dept. of CSIT	Member
10	Ms. Lopamudra Das	Asst. Professor, Dept. of CSIT	Member

DEPARTMENT OF ECE

S.N	NAME	AFFILIATION	POSITION
1	Prof.(Dr.) Dilip Kumar Nayak	Head, Dept of ECE	Chairman
2	Prof.(Dr.) Tapas Kumar Patra	Dept. of Electronics and Instrumentation Engg., CUTR, Bhubaneswar	Member
3	Prof.(Dr.) Debasish Mishra	Dept. of Electronics and Communication Engg., VSSUT Burla	Member
4	Prof. Prabodha Kumar Dalai	Assoc. Professor, Dept. of ECE	Member
5	Prof.(Dr.) Sarita Misra	Asst. Professor, Dept. of ECE	Member
6	Prof. Pragya Paramita Pradhan	Asst. Professor, Dept. of ECE	Member
7	Prof. P.S. Das	Asst. Professor, Dept. of ECE	Member
8	Prof.(Dr.) Chandra Sekhar Mishra	Asst. Professor, Dept. of ECE	Member
9	Prof. Sujit Khandai	Asst. Professor, Dept. of ECE	Member

DEPARTMENT OF EEE

S.N	NAME	AFFILIATION	POSITION
1	Dr. S.K. Swain	HoD EEE,	Chairperson
2	Dr. Srikanta Behera	Professor, CUTR, BBSR	Member (Academician)
3	Dr. P.C. Panda	Retd. Professor, IIIT, Kaushik	Member Academician
4	Dr. D.P. Bagarthy	Assoc. Professor, CUTR	Member (University Representative)
5	Sri. Satabjay Das	CEO, KRITITECH, Bhubaneswar	Member (Alumni)
6	Prof. S.K. Acharya	Asst. Professor, Dept. of EEE	Member
7	Prof. D.R. Behera	Asst. Professor, Dept. of EEE	Member(Convener)
8	Prof. S.N. Mohanty	Asst. Professor, Dept. of EEE	Member
9	Prof. S.N. Nayak	Asst. Professor, Dept. of EEE	Member
10	Prof. A. Das	Asst. Professor, Dept. of EEE	Member

Finance Committee:

Meetings: The Finance Committee shall meet at least twice a year.

Functions of the Finance Committee:

The Finance Committee shall act as an advisory body to the Governing Body, to consider:

- Budget estimates relating to the grant received/receivable from UGC and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and
- Audited accounts for the above.

Sl.No.	Name	Designation	Position

1	Dr. M.R. Raul	Principal, GITA Autonomous College, Bhubaneswar	Chairman
2	Dr. P.K. Raurey	Dean Administration (Nominated by Governing Body)	Member
3	Dr. Jaygopal Jena	HOD CE (Nominated by Principal)	Member
4	Smt. Smeetakha Sahoo	Finance Officer of the Affiliating University	Member
5	Mr. R.R. Mishra	Accounts Officer, GITA Autonomous College, Bhubaneswar	Member

Institution Advisory Committee:

The function of the committee is to advise the institution and the Management through the Principal regarding the dynamic changes to be incorporated in the institution for attaining its mission & vision considering the international, national and industrial information along with the performance of the institution. The committee recommends necessary addition or alteration of the teaching learning process, evaluation process & changes to be made in the existing PEOs APOs. The committee also advises about the future action for attaining better output. The committee meets twice in a year to discuss, evaluate and recommend changes, if necessary.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.R.Raul	Principal	Chairman/Convener
2	Prof.(Dr.)K.K.Mishra	Dean Academics	Member
3	Prof.(Dr.)Sukant Kumar Pradhan	Professor & HOD, Department of Comp. Sc & Application, Utkal University	Member External- Academic
4	Er.Nilamadhaba Tripathy	Senior Systems Analyst, BIN	Member External - Industry
5	Prof.(Dr.)S.K.Patra	Professor, HOD,ECE,NIT Rourkela	Member External- Academic
6	Mr.Mahesh Govind Mishra	CEO,NEHMAN Solution Pvt. Ltd	Member External - Industry
7	Prof.(Dr.)Somnath Mishra	Retd. Principal, NIT Rourkela	Member External- Academic
8	Mr.A.Bhattacharya	CGM in charge, HOD Design,RSP Rourkela	Member External – Industry
9	Prof.(Dr.)Arabinda Raurey	Professor,EE,IIT Kharagpur	Member External- Academic
10	Dr.Nidhi Mahar	CEO,UTech Enterprises Ltd	Member External – Industry
11	Prof.(Dr.)C.P.Bagarty	Professor & HOD,EE Dept,CET Bhubaneswar	Member External- Academic
12	Er.H.K.Mishra	Supdt.Engineer CESCO	Member External – Industry

Feedback Committee:

The committee looks in to the feedback collected from the Stake holders - Ongoing Students, Outgoing Students, Alumni, Employer Industries and Parents. Based on the feedback of the above stakeholders, the committee recommends necessary addition or alteration to the academic process, infrastructure, teacher quality, law & order environment, research facility, library & computing facility etc.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.R.Raul	Principal	Chairman
2	Prof.(Dr.)K.K.Mishra	Dean, Academics	Convener
3	Prof.(Dr.)P.K.Raurey	Dean, Administration	Member
4	Prof. M. K. Pradhan	H.O.D.,ME	Member
5	Prof.(Dr.)B.K.Das	H.O.D.,EE	Member
6	Prof.(Dr.)T.Panigrahi	H.O.D.,CSE	Member
7	Prof.(Dr.)S.K.Acharya	H.O.D.,TTE	Member
8	Prof.(Dr.)D.K. Nayak	H.O.D.,EDE	Member
9	Prof.(Dr.) J. G. Jena	H.O.D.,CE	Member
10	Prof. (Dr.) S. R. Mohanty	H.O.D.,HES	Member

Library Committee:

This committee looks in to the proper availability of text books, reference books, e-journals as per the requirement of the students in Central Library and also in the Departmental library. It also sees that the latest national/international magazines & journals are made available to the students & faculty members. On recommendation from all departments, R & D department, Training & Placement cell, Academic Council of the college, the committee fixes the working hours, up gradation of book & journal procurement, e-journal facility etc. The committee recommends required budget for the year/semester to the management through the Principal.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.R.Raul	Principal	Chairman
2	Prof.S.P.Mohanty	Prof.-in-Charge	Member
3	Dr.B.R.Hota	Librarian	Convener
4	Prof. C.K.Nayak	Representative, ME	Member
5	Prof. B. D. Pakray	Representative, EE	Member
6	Prof. S. K. Nayak	Representative, EEE	Member

7	Prof. S. Mishra	Representative, CSE	Member
8	Prof. S. Pradhan	Representative, ECE	Member
9	Prof. R. B. Mishra	Representative, ISE	Member

Purchase Committee:

The function of the committee is to ensure that the allocated funds are properly utilized. The committee intimates the departments & committees (societies) regarding the allocation of funds. The committee periodically looks into the process of procurement& access the qualitative & quantitative aspect of procurement and also ensures proper documentation of purchase of materials, commissioning and functioning.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.K.Rout	Principal	Chairman
2	Prof.(Dr.)P.K.Rautray	Dean, Administration	Convener
3	Prof.(Dr.)K.K.Mishra	Dean, Academics	Member
4	Prof.(Dr.) M. K. Pradhan	Dean Research &Development	Member
5	Prof.(Dr.) S.C.Mohapatra	Dean,StudentWelfare	Member

Research Committee

This section looks after the technical implementation of the creative aspect of students & faculty members. Moreover, this wing also initiates innovative thought process among the hobby societies of the students such as Robotics society. The Research& Development society takes initiative in formation of student's professional society arranging advanced technical seminars, guest lectures and competitions. From old technology involvement & updating state of the art technology implementation is the sole responsibility of the wing.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M. K. Rout	Principal	Chairman
2	Prof.(Dr.) M.K. Pradhan	Dean : R & D	co-chairman
3	Dr.S.K.Dash	Professor	Member
4	Prof. Bijaya Panda	Professor	Member

General Procedure of Recruitment (Appointment Rules):

All posts at the Institute shall normally and, as far as possible, be filled by advertisement. But, the "GB" shall be the exclusive power to decide, either on its own or on the recommendations of the Director Principal, that a particular post be filled by invitation or by promotion from amongst the members of the staff of the Institute.

All appointments on the staff of the Institute shall be made only by the "GB" of the Institute, through its Chairman or authorized by the "GB".

Appointments, with or without grades, in the Institute will be created on Ad-Hoc, Temporary, Regular and Permanent basis by the "GB" as per the requirement of actual manpower, from time to time. The manpower requirement shall be ascertained on the basis of the workable norms prescribed by AICTE or the appropriate authority from time to time. Additional posts may also be created, as required, for the extension of specific projects and or research and development activities.

The appointment of the Director/Principal and all other teaching faculty members shall be made by the "GB" through its Chairman after ratification of his/her appointment by the selection committee constituted in accordance with the provisions of the affiliating university for the purpose. "Services, pending approval of their appointment by the selection committee, the Chairman "GB", may, at his discretion, appoint the Director/Principal and or members of the teaching faculty on a temporary basis, on such terms and conditions he deems fit.

All other appointments shall be made directly by the Chairman of the "GB" on the recommendation of the Director/Principal. The Chairman of the "GB" reserves the exclusive right to review, to accept or not accept, any or all the recommendations made by the Director/Principal in respect of any appointment.

The selection committee will judge the suitability of all the candidates for the position interviewed. Letters of confirmation in service shall only be issued by the Chairman "GB" to the Director/Principal and members of the teaching faculty after their selection has been approved by the duly constituted selection committee.

Every appointment, whatever temporary, probationary, contractual or permanent is subject to a "Certificate of Fitness" issued by a registered medical practitioner approved by the Director Principal. This condition may, however, only be relaxed by the Chairman "GB" at his discretion, in special cases.

Every appointment whether ad-hoc, temporary, contractual or part time will be made for a specific tenure and all such appointments shall become invalid from the date specified in their appointment letter/contract. Such appointments, may however, be extended, subject to a written confirmation of such extension by the Chairman "GB" only for such period(s) as he may deem fit, failing which, no extension shall be considered valid and binding on the Institute.

Candidates selected for interview for a post under the Institute may be paid such travelling allowance as may be authorized by the "GB" from time to time in this behalf.

Every appointment made at the Institute shall be reported to the "GB" at its next meeting.

Career Advancement Scheme (CAS):

i) Lecturer to Lecturer Senior Scale:

First Class M.Tech. and B.Tech. Degrees (or equivalent) in appropriate branch of Engineering with minimum five years good quality teaching experience.

For the faculty in MCA & MBA Departments, AICTE norms shall be followed.

ii) Lecturer (SS) to Lecturer Selection Grade:

Lecturer (SS) with First Class M.Tech. and B.Tech's Degrees in appropriate branch of Engineering with minimum four years of good quality teaching experience as lecturer (SS), is eligible for promotion to Lecturer selection grade.

For the faculty in MCA & MBA Departments, AICTE norms shall be followed.

iii) Promotion to Assistant Professor:

Lecturer (SG/SS) with First Class M.Tech. and B.Tech. Degrees and Ph.D. degree in relevant branch of Engineering with minimum five years of good quality teaching experience in an Engineering Institute as lecturer/lecturer (SS)/lecturer(SG) is eligible for promotion to Assistant Professor.

A lecturer (selection grade) shall be designated as Assistant Professor on acquiring Ph.D. degree in relevant branch of Engineering.

For promotion to Assistant Professor, a full time Ph.D. shall be deemed to have 2 years experience.

For the faculty in MCA Department & MBA, AICTE norms shall be followed.

*iv) Assistant Professor to Professor:***

The candidate (1) must have a Ph.D. (Engineering) degree with a First Class M.Tech. degree in the appropriate branch of engineering/technology, (2) must be an Assistant Professor having at least 10 years of teaching experience out of which 5 years must be as an Assistant Professor (3) must have at least 400 research merit points or equivalent research/academic work to his/her credit.

For the faculty in MCA & MBA Departments, AICTE norms shall be followed.

** A faculty member serving as Assistant Professor may be considered for promotion to the post of Associate Professor if the faculty (1) possesses a Ph.D. (Engineering) degree with a First Class M.Tech. degree in the appropriate branch of engineering/technology, (2)is serving as an Assistant Professor having at least 6 years of teaching experience out of which 3 years must be as an Assistant Professor,(3) has at least 250 research merit points or equivalent research/academic work to his/her credit.

10.1.4 Decentralization in working and grievance redressal mechanisms (5)

Institute Marks : 5.00

Decentralization and delegation of Power:

The Dean Administration looks after the financial requirement for day to day activities of the institution. The Governing Body of the institution has authorized the Principal to approve an amount of Rupees Ten Lakh per month. This amount is spent for the overall management and maintenance of the institution. In addition, all the HODs of engineering departments are authorized to draw an impressed amount of Rupees One Lakh per month to meet the petty expenditure of the department. The HOD of each department proposes the programme into annual expenditure in the form of a detail financial requirement. The annual budget of each department is recommended by the Principal to the Governing Body for approval after a thorough discussion. The Governing Body approves the budget in consultation with the Academic Council of the institution. The budget is approved by the Management one month prior to the commencement of the academic session so that the amount can be utilized as per the requirement to hold the students for effective attainment of the programme objectives. All the purchases by the department are to be carried out as per the approval of the purchase committee of the institution. The impressed amount provided to the HODs is utilized for the emergency requirements like purchase of lab consumables and any other petty purchases. The account statement of each purchases is submitted to the Principal every month. If the impressed amount is consumed, the HODs are authorized to draw rupees ten thousand for the next month in consultation with the Principal. If the expenditure goes beyond the impressed amount, the proposal is to be approved by the competent authority.

Key Positions with Responsibilities:

Sl.No.	NAME	DESIGNATION	RESPONSIBILITIES
1	Prof. (Dr.) M. K. Roul	Principal	Overall management of Academic and Administrative affairs
2	Prof. (Dr.) K. K. Mishra	Dean, Academics & Controller of Examinations	Feedback Committee, Exam. Committee, Time Table Committee, IISM
3	Prof (Dr.) Sarat Chandra Mahapatra	Dean, S. W	Disciplinary Committee, Athletic Committee, Cultural Committee, Student & Staff Welfare, Ethical Committee, Geocentre Cell
4	Prof. (Dr.) M. K. Pradhan	Dean, R&D	Research Activities, Internal & External R&D, EDP Cell
5	Prof. (Dr.) Col. Pradeep Kumar Pandey	Dean, Admin. Placement Head& Head, Grievance Redressal Cell	Budget Committee, Purchase Committee, Training & Placement Cell, HR Department, Grievance Redressal Cell
6	Prof. (Dr.) N.R. Patra	Director, IQAC	Overall Quality assessment and development of the institution.
7	Prof (Dr.) A. S. Dehury	Warden, Boys' Hostels	Administration and Management of Boys' Hostels
8	Prof. (Dr.) Smitarani Patro.	Chairperson, Women Cell	Women Cell and Grievances related to women students and employees
9	Prof. Priya Paul	Warden of Girls' Hostels	Administration of Girls' Hostels

Women's Grievance Cell:

This committee specifically looks in to the Grievances & betterment of the Women (girl students & women employees). This committee guarantees the safety & proper facility & gender equality for women inside the campus. The staff & students can complain to this committee regarding their grievances & the committee will ensure proper remedial action.

S.N.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. ROUL	PRINCIPAL	CHAIRMAN
2	PROF. (DR.) SMITARANI PATRO	ASSO. PROF. (BS & H)	CONVENOR
3	PROF. SUBHADRA PRADHAN	ASST. PROF. (ECE)	MEMBER
4	PROF. (DR.) SUSMITA DASH	ASST. PROF. (ME)	MEMBER
5	PROF. ANURADHA MOHANTA	ASST. PROF. (CSE)	MEMBER
6	PROF. (DR.) CHANDRIKA SAMAL	ASST. PROF. (ME)	MEMBER
7	PROF. PRIYADARSINI PRADHAN	ASST. PROF. (EE)	MEMBER

Grievance Redressal Committee

S.N.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. ROUL	PRINCIPAL	CHAIRMAN
2	PROF. (DR.) SMITARANI PATRO	ASSO. PROF. (BS&H)	CONVENOR
3	PROF. (DR.) PARIMAL GIRI	PROFESSOR & HEAD (CSIT)	MEMBER
4	PROF. (DR.) K.K. MISHRA	DEAN ACADEMICS	MEMBER
5	PROF. (DR) SUSHMITA DASH	ASSO. PROF. (ME)	MEMBER
6	PROF. ANURADHA MOHANTA	ASST. PROF. (CSE)	MEMBER
7	MS. MEENATI MAHARANA	ASST. (EXAM SEC)	MEMBER
8	PROF. P.K. DALAI	ASST. PROF. (ECE)	MEMBER
9	PROF. RIMOSH SAHOO	ASST. PROF. (CF)	MEMBER
10	PROF. (DR.) SHANTANU KUMAR BISWAL	ASST. PROF. (BS&H)	MEMBER
11	PROF. PRIYADARSINI PRADHAN	ASST. PROF. (EE)	MEMBER
12	PROF. ASHOK KUMAR PRADHAN	ASST. PROF. (ME)	MEMBER

SCSIT grievance Committee

S.N.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. ROUL	PRINCIPAL	CHAIRMAN
2	PROF. (DR.) M.K. PRADHAN	PROFESSOR & HEAD (ME)	CONVENOR

3	MR. P.K. DASH	ASST. ADMINISTRATIVE OFFICER	MEMBER
4	PROF. (DR.) KEDAR MOHAPATRA	ASSO. PROF. (BS&H)	MEMBER
5	PROF. AMIT SINGH DEHURY	ASST. PROF. (ME)	MEMBER
6	PROF. RABI NARAYAN ROUT	ASST. PROF. (EE)	MEMBER
7	PROF. CHITARANJAN BEHERA	ASST. PROF. (EEE)	MEMBER
8	MR. BEDAOTUTA BHOI	LAB. ASST. (ME)	MEMBER

Student Grievance Redressal Committee (CSGRC)

SN	NAME	DESIGNATION	POSITION
1.	PROF. (DR.) M.K. ROUL	PRINCIPAL	CHAIRPERSON
2.	PROF. (DR.) M.K. PRADHAN	DEAN (R&D) & HoD ME	CONVENOR-MEMBER
3.	CDR. (DR.) T.K. RAUTRAY	DEAN ADMIN	MEMBER
4.	PROF. (DR.) K.K. MISHRA	DEAN ACADEMICS	MEMBER
5.	PROF. (DR.) N.P. PATRO	DIRECTOR, IQAC	MEMBER
6.	PROF. (DR.) T.P. PANIGRAHI	HoD CSE	MEMBER
7.	PROF. (DR.) D.K.NAYAK	HoD ECE	MEMBER
8.	PROF. (DR.) DEEPTIBALA MISHRA	HoD, MCA	MEMBER
9.	PROF. (DR.) KEDAR MOHAPATRA	1st Yr. Coordinator	MEMBER
10.	PROF. AMIT SINGH DEHURY	Warden of Boys' Hostels	MEMBER
11.	PROF. SHIFA SHAMI	Warden of Girls' Hostels	MEMBER
12.	PROF. SHARMILA PATNAIK	Asst. Professor, MBA	MEMBER
13.	Respective HoD of involved students	HoDs	MEMBER
14.	Respective Proctors of the involved student.	Proctors	MEMBER

ANTI-RAGGING COMMITTEE (2024-25)

S. N.	Name	Designation	Position
1.	Prof. M.K. Roul	Principal	Chairman
2.	Sri Nilaya Kumar Naik	Inspector-In-Charge: Info Valley, Cantonment Bhubaneswar	Member
3.	Sri Nilu Mohapatra, OAS (I)	Tahsildar, Jatni	Member
4.	Mr. Pramod Kumar Samantaray	Local Media, The Sonaj	Member
5.	Cdr. P.K. Rautray	Dean Admin	Member
6.	Prof. S.K. Panigrahi	EoA	Member
7.	Prof. M.K. Pradhan	HoD, ME & Convener Anti-ragging Squad	Convener
8.	Prof. N.P. Patro	PIC (EDP & BPC) & Coordinator IQAC	Member
9.	Prof. B.P. Mishra	PIC (R&D)	Member
10.	Prof. K.K. Mishra	Dean Academics	Member
11.	Prof. T.P. Panigrahi	HoD, CSE	Member
12.	Prof. P.K. Bal	HoD, CSE (AI & AML)	Member
13.	Prof. P.K. Giri	HoD, CSIT	Member
14.	Prof. Bijayalaxmi Panda	HoD, CST	Member
15.	Prof. D.K. Nayak	HoD, ECE	Member
16.	Prof. S.K. Dash	HoD, EE	Member
17.	Prof. S.K. Swain	HoD, EES	Member
18.	Prof. Jaygopal Jena	HoD, CE	Member
19.	Prof. D.B. Mishra	HoD, MCA	Member

20.	Prof. P.K. Suan	HoD, MBA	Member
21.	Prof. Amit Singh Dehury	Warden of Hostels (Boys)	Member
22.	Prof. Disha Shams	Warden of Hostels (Girls)	Member
23.	Mr. Sushanta Upadhyaya	PARENT REPRESENTATIVE	Member
24.	Mr. Ajay Kumar Sahoo		Member
25.	Aitomunya Biswal CSE, 2ND yr	STUDENT REPRESENTATIVE (SENIOR)	Member
26.	Krishna Mahanty CSDS 2ND yr		Member
27.	Kushajit Mohanty ME, 3rd yr.		Member
28.	Harish Kumar Sahoo CSIT	STUDENT REPRESENTATIVE (FRESHER)	Member
29.	Sagarika Upadhyaya, CSE (AI)		Member
30.	Arman Raut, CSE		Member

10.1.5 Delegation of financial powers (5) Institute Marks : 5.00

The Dean Administration looks after the financial requirement for day to day activities of the institution. The Governing Body of the institution has authorized the Principal to approve an amount of Rupees Two Lakh per month. This amount is spent for the overall management and maintenance of the institution. In addition, all the HODs of engineering departments are authorized to draw an impressed amount of Rupees One Lakh per month to meet the party expenditure of the department. The HOD of each department proposes the programme wise annual expenditure in the form of a detail financial requirement. The annual budget of each department is recommended by the Principal to the Governing Body for approval after a thorough discussion. The Governing Body approves the budget in consultation with the Academic Council of the institution. The budget is approved by the Management one month prior to the commencement of the academic session so that the amount can be utilized as per the requirement to help the students for effective attainment of the programme objectives. All the purchases by the department can be be carried out as per the approval of the purchase committee of the institution. The impressed amount provided to the HODs is utilized for the emergency requirements like purchase of lab consumables and any other party purchases. The account statement of such purchases is submitted to the Principal every month. If the impressed amount is consumed, the HODs are authorized to draw rupees ten thousand for the next month in consultation with the Principal. If the expenditure goes beyond the impressed amount, the proposal is to be approved by the competent authority.

Finance Committee:

Meetings: The Finance Committee shall meet at least twice a year.

Functions of the Finance Committee:

The Finance Committee shall act as an advisory body to the Governing Body, to consider:

- Budget estimates relating to the grant recommendations from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and
- Audited accounts for the above.

Sl.No.	Name	Designation	Position
1	Dr. M.K. Raut	Principal, GITA Autonomous College, Bhubaneswar	Chairman
2	Dr. P.K. Rautray	Dean Administration (Nominated by Governing Body)	Member
3	Dr. Jaygopal Jena	HOD CE (Nominated by Principal)	Member
4	Smt. Sasanlekha Sahoo	Finance Officer of the Affiliating University	Member
5	Mr. R.R. Mishra	Accounts Officer, GITA Autonomous College, Bhubaneswar	Member

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks : 5.00

The institution has provided all the necessary information in the website www.gita.edu.in (http://www.gita.edu.in) owned by the institution. All the information provided in the website is in accordance with the Right to Information Act, 2005. The institution also has an Information Call headed by the Dean, Administration. The call provides all the information at the time of need.

The audited Statement of account is displayed in the institution website for the information of all the stakeholders.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (10) Total Marks: 10.00

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) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2023-2024

Total Income: 819884313				Actual expenditure(Rs.) : 671540681			Total No. Of Students: 5154
Fee	Govt.	Grants	Other sources(specify): Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
724007658	0	0	95875755	505464725	166048856	0	130263.21

Table 2 - CFYm1 2022-2023

Total Income: 735568054				Actual expenditure(Rs.) : 746585060			Total No. Of Students: 4715
Fee	Govt.	Grants	Other sources(specify): Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
664823432	0	102199	70618523	569475484	180013982	0	158313.81

Table 3 - CFYm2 2021-2022

Total Income: 625554001				Actual expenditure(Rs.) : 554089424			Total No. Of Students: 4150
Fee	Govt.	Grants	Other sources(specify): Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
548914529	0	4474564	72449568	416938524	137150900	0	133510.70

Table 4 - CFYm3 2020-2021

Total Income: 529582369				Actual expenditure(Rs.) : 540749130			Total No. Of Students: 3680
Fee	Govt.	Grants	Other sources(specify): Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
465466400	3800000	300000	59974033	405977605	134771525	0	146992.87

Name	Budgeted in 2023-2024	Actual Expense in 2023-2024 till	Budgeted in 2022-2023	Actual Expense in 2022-2023 till	Budgeted in 2021-2022	Actual Expense in 2021-2022 till	Budgeted in 2020-2021	Actual Expense in 2020-2021 till
Infrastructure Build-Up	5700000	5225222	6000000	5943586	7500000	7395423	7000000	6738984
Library	1000000	889073	900000	5946900	800000	7500000	600000	5894479
Laboratory equipment	6500000	1454400	6300000	6216570	5700000	5643040	5300000	5225233
Laboratory consumables	4500000	4851680	7500000	2482282	7500000	6943073	7000000	7432571
Training and workshopping visit	4700000	3934580	4000000	3896589	2917000	2917524	2570000	2557059
Maintenance and upkeep	4500000	4486001	3500000	5012502	5000000	5461785	4500000	4351469
R&D	5000000	3739439	5500000	3420967	4200000	1888990	4200000	4051971
Training and Travel	2000000	1527159	1500000	1219113	1500000	1155117	1500000	1481411
Miscellaneous Expenses	3000000	2390794	3000000	1640977	5000000	3983041	1900000	1644530
Others, specify	9000000	7171159	8600000	7893114	6850000	6156990	6600000	6438667
Total	89700000	87154681	77260000	74989590	67350000	66420424	64120000	59978139

10.2.1 Adequacy of budget allocation (5) — Institute Marks : 5.00

The budget is prepared by the individual departments as per their requirement and submitted to the budget committee of the institution for consideration. The HR department of the institution also provides the budget for salary of both teaching and non teaching staff members. After a thorough discussion on the budget, the same is submitted before the Governing Body for approval. As the budget is prepared by the departments as per their requirements, it is evident that the budget allocation to meet the necessary expenditure is adequate.

10.2.2 Utilization of allocated funds (5) — Institute Marks : 5.00

The HODs are responsible for utilization of the funds allocated to their departments. HODs prepare their plans for purchase, maintenance and activities and monitor the execution of the plans. The Principal reviews the funds utilization every month in HODs committee meetings. Utilization of allocated funds during the budget year is thus ensured.

10.2.3 Availability of the audited statements on the institute's website (5) — Institute Marks : 5.00

The audit of the institution is carried out by a distinguished chartered accountant every year and the audited statement is made available in the official website of the institution.

10.3 Program Specific Budget Allocation, Utilization (10) — Total Marks 20.00

Total Income at Institute level: For CFY (CFYm1, CFYm2 & CFYm3)
CFY: (Current Financial Year)
CFYm1 : (Cannot Financial Year minus 1)
CFYm2 : (Cannot Financial Year minus 2) and
CFYm3 : (Cannot Financial Year minus 3)

Table 1 :: CFY 2023-2024

Total Budget: 9378000		Actual expenditure (till ...): 3885370		Total No. Of Students: 219
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3052.000	23 25,000	2516.770	11.88.000	17576.12

Table 2 :: CFYm1 2022-2023

Total Budget: 7230000		Actual expenditure (till ...): 7221411		Total No. Of Students: 219
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
30.00.000	42 30.000	29.20.960	46.01.451	32208.31

Table 3 :: CFYm2 2021-2022

Total Budget: 9650000		Actual expenditure (till ...): 9350000		Total No. Of Students: 249
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
Jet 52.000	6.80.000	90.98.200	4.94.970	29003.53

Table 4 :: CFYm3 2020-2021

Total Budget: 9250000		Actual expenditure (till ...): 9265717		Total No. Of Students: 285
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
Jet 00.000	6.80.000	46.34.700	4.54.017	18997.42

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 (₹)	Budgeted in 2022-2023	Actual Expenses in 2022-2023 (₹)	Budgeted in 2021-2022	Actual Expenses in 2021-2022 (₹)	Budgeted in 2020-2021	Actual Expenses in 2020-2021 (₹)
Laboratory equipment	2500000	2986666	2500000	2433660	4500000	4448660	4200000	4227480
Software	950000	948279	500000	497360	400000	448658	400000	397200
Laboratory consumable	100000	98000	100000	12331	200000	22000	250000	214337
Maintenance and spares	40000	39999	94000	34970	30000	29900	29000	24180
R & D	300000	182000	400000	400000	300000	300000	500000	500000
Training and Travel	200000	160000	100000	50000	100000	100000	100000	100000
Miscellaneous Expenses	0	0	0	0	0	0	0	0
Total	5190000	3923958	7230000	7027161	9530000	4348230	5279000	5273137

10.3.1 Adequacy of budget allocation (10) — Institute Marks : 10.00

The budget is prepared by the individual department as per their requirement and is submitted to the budget committee of the institution for consideration. The HR department of the institution also provides the budget for salary of both teaching and non teaching staff members. After a thorough discussion on the budget, the same is submitted before the Governing Body for approval. As the budget is prepared by the departments as per their requirements, it is evident that the budget allocation to meet the necessary expenditure is adequate.

10.3.2 Utilization of allocated funds (30) — Institute Marks : 30.00

The HODs are responsible for utilization of the funds allocated to their departments. HODs prepare their plans for purchase, maintenance and activities and monitor the execution of the plans. The Principal reviews the funds utilization every month in HOD's committee meetings. Utilization of allocated funds during the budget year is thus ensured.

10.4 Library and Internet (20) — Total Marks 20.00

The resources of available learning resources, including e-resources, is crucial in enhancing the quality of education, promoting self-directed learning, and improving accessibility.

1. Accessibility & Inclusivity

- E-resources enable students and educators to access learning materials anytime, anywhere.
- They support remote learning, bridging geographical and economic gaps.

2. Enhanced Teaching & Learning

- Digital tools such as online lectures, simulations, and interactive content make learning engaging and effective.
- Multimedia content supports diverse learning styles—visual, auditory, and kinesthetic.
- AI-driven platforms like ChatGPT, Meta AI, gamma, etc. assist in personalized learning and doubt resolution.

3. Cost-Effectiveness & Sustainability

- Many e-resources are open access, reducing the cost of purchasing textbooks.
- Digital content minimizes paper usage, contributing to environmental sustainability.

4. Real-time Updates & Global Knowledge

- Unlike printed books, e-resources can be updated frequently, ensuring learners access the latest information.
- Online libraries, journals, and MOOCs provide exposure to global knowledge and expert insights.

5. Skill Development & Research Enhancement

- Platforms like Coursera and NPTEL help students gain industry-relevant skills.
- E-libraries and research databases (e.g., IEEE Xplore, Springer, and Science Direct) aid in academic research and innovation.

6. Assessment & Feedback

- Learning Management Systems (LMS) like Moodle, Google Classroom, and Blackboard enable better tracking of student progress.
- AI-powered assessment tools provide instant feedback, improving learning outcomes.

Accessibility of Learning Resources to Students:

Ensuring that learning resources, including e-resources, are accessible to all students is crucial for equitable education. The students of our institution are getting benefitted from the learning resources in the following ways.

1. Anytime, Anywhere Learning

- E-resources like online textbooks, video lectures, and digital libraries enable students to learn beyond classroom hours.
- Mobile-friendly platforms and cloud-based access ensure flexibility for students who may not have permanent computers.

2. Inclusive Education

- Assistive technologies such as screen readers, text-to-speech tools, and captioned videos help students with disabilities.
- Multi-language resources enable students from diverse linguistic backgrounds to understand concepts better.

3. Cost-Effective Learning

- Open-access journals, free e-books, and MOOCs (e.g., NPTEL, SWAYAM, Coursera) reduce financial barriers.
- Digital libraries eliminate the need for costly physical books, making high-quality education more affordable.

4. Personalized & Self-Paced Learning

- AI-powered tools provide personalized recommendations based on a student's learning progress.
- Interactive platforms like ChatGPT, Gemini, Meta AI, etc. allow students to learn at their own pace.

5. Bridging the Digital Divide

- We ensure that the students have access to devices and internet connectivity.
- Digital literacy programs can help students effectively navigate and utilize online resources.

6. Institutional Support for Accessibility

- We provide LMS platforms that support diverse accessibility features.
- Faculty training on digital resource utilization are carried out to improve student engagement.

Supporting Students for Self-Learning Activities:

Encouraging self-learning is essential for fostering independent thinking, critical analysis, and lifelong learning skills among students. We support students in their self-learning journey in the following ways.

1. Providing Access to Diverse Learning Resources

- **E-libraries & Digital Repositories**: Platforms like NDL, IEEE Xplore, and ScienceDirect provide students with high-quality academic content.
- **Open Educational Resources (OERs)**: Free courses on platforms like SWAYAM, Coursera, help students explore beyond their curriculum.
- **Multimedia Learning**: Video lectures, podcasts, and interactive simulations enhance understanding.

2. Implementing Learning Management Systems (LMS)

- LMS Platforms help students access course materials, assignments, and recorded lectures.
- AI-driven tools recommend personalized learning paths based on students' progress.

3. Encouraging Research & Project-Based Learning

- **Research Support**: We offer guidance on accessing journals, writing research papers, and presenting findings.
- **Innovation Labs & Hackathons**: We provide opportunities for hands-on learning through maker spaces, coding competitions, and case studies.

4. Faculty Mentorship & Peer Learning

- **Mentorship Programs**: Faculty guidance helps students navigate complex topics and projects.
- **Discussion Forums**: Online forums and peer study groups create collaborative learning environments.

5. Digital Literacy & Self-Learning Skills Development

- Conducting workshops on digital tools, search strategies, and critical evaluation of online content.
- Teaching students time management, goal-setting, and self-assessment techniques.

6. Assessment & Recognition of Self-Learning

- Students are encouraged to showcase self-learning projects through portfolios, competitions, and academic credits.
- Students are rewarded for self-initiated learning efforts with certifications, digital badges, or scholarships.

Library Profile

The Library of GITA Autonomous College, established in 2004, is a well-educated and fully computerized resource centre that has steadily expanded to meet the academic and research needs of students and faculty. It offers an extensive collection of books, journals, and literature across various disciplines. The library is an institutional member of NDL, INFLIBNET (E-Shodh Sindhu), and DELNET, granting access to over 200 libraries across 20 states in India and five countries worldwide. Subscriptions to leading eye-end databases such as Science Direct, IEEE Xplore, Springer, and NPTEL course materials provide students with diverse learning resources. Additionally, the Kanakara (e-Library platform offers discovery services, universal search features, and all-campus access through mobile apps. Plagiarism detection services are also available through TURNITIN, promoting academic integrity. With these robust resources and digital services, the library plays a vital role in supporting

academic excellence and research endeavours. The Library at GITA is fully automated with KOHA software, streamlining cataloguing, circulation, acquisition, and OPAC services for seamless resource access and efficient management.

Sl. No.	Particulars	Quantity
1	Carpet Area	29884.5 Sqft.
2	Reading Room	1377.61 Sqft.
3	Reading Room strength	350
4	Total no. of Books (Titles excluding MBA & MCA)	8299
5	Total Number of Books (Volumes excluding MBA & MCA)	43378
6	Total no. of e-Journals	1931
7	Total No. of e-Books	10356
8	Total No. of Nodes for e- Library	46
9	Total no. of Magazines	15
10	Total no. of News Paper	10

Library Services

1. Reference Services
2. Book Bank or Lending Library Service
3. Question Banks (Old Question Papers for References)
4. Overnight Borrowing Facilities for Faculties & Students
5. e-Library Facility
6. Photo Copying, Printing & Spiral Binding Facilities
7. Library Orientation Programme
8. Career Guidance & Counseling for Students

Library Best Practices

1. Library Automation or Computerization through **LIBSYS**
2. Web OPAC (Online Public Access Catalogue)
3. Display of New Arrivals
4. Receives Feedbacks
5. Best Library User Awards

Library Future Plan

1. Implementation of RFID Services
2. Developing Unique Information Centre for Career Development
3. Organising Programmes on Online Information Literacy

10.4.2 Internet (10)

Institute Marks : 10.00

Sl. No.	Particular	Description
1	Name of the Internet provider	Air Tel, Wifi
2	Available bandwidth	1000 mbps
3	Wi-Fi availability	Yes, Whole campus
4	Internet access in labs, classrooms, library and offices of all Departments	Yes
5	Cyber Security measures	Yes, Firewall protected
6	Access Speed	Very Good
7	Availability of internet in exclusive lab	Yes
8	Availability in mini computing labs	Yes
9	Availability in departments and other units	Yes
10	Availability in faculty rooms	Yes
11	Institute's own Email facility to faculty/students	Yes
12	Security/ primary to Email/ Internet users	Yes

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, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and 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. **Lifelong 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.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)
Program should specify 2-4 program specific outcomes.

PSO1	Should be able to understand the concepts of Electronics & Communication Engineering and their applications in the field of communication technology, computer electronics, embedded system, communication networking and other allied fields.
PSO2	Should have a ability to apply technical knowledge and usage of modern tools and software both relevant to Electronics & Communication engineering for solving real world problems.
PSO3	Should have the capacity to analyze, understand, design & develop electronic subsystems/systems for a variety of engineering applications and to understanding professional ethics & concern for mankind and society.

Declaration

The head of the institution needs to make a declaration as per the format given -

- 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 and guidelines in force as on date and the institution will 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, and visit and subsequent to grant of accreditation.

Head of the Institute
Name : Dr. Manmatha Kumar Roul
Designation : Principal
Signature :

Seal of The Institution

Place : Bhubaneswar
Date : 04-05-2025 12:54:53