Part A : Institutional Information

1. Name and Address of the Institution

GITS Autonomous College, Bhubaneswar.
At - Badaraghunathpur Po - Madanpur Via - Janla Bhubaneswar

2. Name and Address of Affiliating University

3. Year of establishment of the Institution:

2006

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 Enginee	1997	B. Tech., M. Tech., MBA, M	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 Production Engineering	PG	2010	2010	18	No	18	Eligible but not applied	--	--	No	2
M.Tech in Thermal Engineering	PG	2010	2010	18	No	18	Eligible but not applied	--	--	No	2
B.Tech in Mechanical Engineering	UG	2006	2006	60	Yes	120	Applying first time	--	--	Yes	4

Sanctioned Intake for Last Five Years for the B.Tech in Mechanical Engineering

Academic Year	Sanctioned Intake
2024-25	120
2023-24	120
2022-23	120
2021-22	120
2020-21	120
2019-20	132

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)	133	154	149	153	145	149
Faculty in Engineering (Female)	55	78	49	55	45	49
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-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	1952	1666	1666
Total no. of Girls	2078	1655	1626
Total	4030	3321	3292

Engineering and Technology- PG Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	102	84	85
Total no. of Girls	134	77	32
Total	236	161	117

Engineering and Technology- MBA Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	138	190	203
Total no. of Girls	163	176	166
Total	301	366	369

Engineering and Technology- MCA Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	188	186	150
Total no. of Girls	231	176	122
Total	419	362	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 service, 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. Manmatha Kumar Paul
Designation	Principal
Mobile no.	8260003506
Email ID	principal@rpa.edu.in

IQAC Coordinator, if Designated

Name	Dr. Vishwa Kumar Mishra
Designation	Dean Academics
Mobile no.	8260003501
Email ID	deanacademics@rpa.edu.in

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	80	80.00
2	PROGRAM CURRICULUM AND TEACHING-LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	88.00
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	200.00
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	71.75
8	FIRST YEAR ACADEMICS	90	87.40
9	STUDENT SUPPORT SYSTEMS	80	80.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	100	100.00
	Total	1000	962

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

1.1 State the Vision and Mission of the Department and Institute (2)

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 innovative projects for societal benefit.
Vision of the Department	"The Mechanical Engineering Department aim as to be recognized globally for outstanding education and research as well as produce well-qualified engineers, who are innovative, entrepreneurial and successful in advanced fields of engineering and research"
Mission of the Department	

Mission No.	Mission Statements
M1	1. Imparting quality education to the students and enhancing their skills to make them globally competitive mechanical engineers.
M2	2. Maintaining vital, state-of-the-art research facilities to be provided to the students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
M3	3. To develop linkages with R&D organizations, enterprises and educational institutions in India and abroad for excellence in teaching, research and consultancy practices.

1.2 State the Program Educational Objectives (PEOs) (2)

PEO No.	Program Educational Objectives Statements
PEO1	To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in engineering field and to pursue research endeavours.
PEO2	To nurture students with good scientific and practical engineering application skills to comprehend, analyse, design and create novel engineering products and provide sustainable solution for complex inter disciplinary problems using modern tools.
PEO3	To train students to successfully function in multi-disciplinary teams, able to communicate well with others to share the ideas, thus establishing the leadership to manage the organization effectively.
PEO4	To prepare students to respond to societal needs through an understanding of the Rural ethos, Indian Culture and plurality of ethnic and religious communities in the country at large.
PEO5	To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (1.0)

The Vision and Mission are widely displayed at the following places:

1. University website ([illegible])
2. Department website ([illegible])
3. Office of HoD, Mechanical
4. Faculty Chambers, Department Corridors
5. Faculty and students log-in page on learning management system (LMS), Department Library
6. Laboratories
7. Facebook page of Department of Mechanical Engineering
8. Curriculum and Syllabus copies
9. Course File Lab manual

The PEOs are displayed in:

1. University website ([illegible])
2. Department website ([illegible])
3. Office of HoD, Mechanical
4. Faculty Chambers, Department Corridors
5. Faculty and students log-in page on learning management system (LMS), Department Library
6. Laboratories
7. Facebook page of Department of Mechanical Engineering Curriculum and Syllabus copies
8. Course File Lab manual
9. The awareness of Vision, Mission and PEOs are created among the internal and external stakeholders through Management review meeting, Governing Body meeting, Faculty Members meeting, Student's orientation workshops
10. Students induction program for Institute's/Parent-teacher meeting
11. Alumni meet
12. Annual placement drive

Extent of awareness of Vision, Mission & PEO among the Stakeholders

Internal Stakeholders

Stakeholders	Purpose
Governing/Management / Council/Board members	Defining growth plan and road map; Providing physical, human and financial resources/formulate related policies
Head/Directors (Faculty and Support Staff)	Implementation/Execution of Policies; Key contributors in developing/implementing growth Plan; Responsible for producing competent graduates/product from the Institution
Students	Product of the Institution and responsible for creating Institute image

External Stakeholders

Stakeholders	Purpose
Employer	Employing graduates and helping in assessment of competence and industry readiness
Industry	Employers as well as participant in curriculum development and Industry Institute activities
Alumni	Able to provide industry practice and to Provide suggestions to Undergraduate program/curriculum
Regulatory/Accreditation authorities	Prescribe norms and standards and ensure quality assurance and Enhancement
Society	Provides strength to overall benefit from Institute perspective

Additionally, dissemination of PEOs to various stakeholders of the program is done in the meetings of faculty members, Academic Council, Board of Studies (BOS), Program Assessment Committee (PAC), Student Council and Department Advisory Board (DAB).

1.1 State the process for defining the Vision and Mission of the Department, and PEOs of the program (1)

Process for defining Vision and Mission of the Department

The department established the vision and mission through a review process involving the stakeholders, the future scopes of the department and the societal requirements.

Step 1: Vision and Mission of the Institution are taken as the guiding base.

Step 2: The Program Assessment Committee (PAC) collects data on current and future trends related to the programs being run by the Department and prepares a draft Vision / Mission statement.

Step 3: The draft statement is circulated among all stakeholders: students, alumni, employees, industry, management, parents and professional bodies for suggestions.

Step 4: The views are analysed and reviewed to check the consistency with the vision and mission of the Institution as a whole.

Step 5: After brainstorming session involving all the stakeholders, Departmental Advisory Board (DAB) finalises the Vision & Mission statements.

Step 6: PAC endorses the final set vision and mission statements and submits to the HOD with a copy to Dean Academics and Principal office.

Program Assessment Committee (PAC) comprises the following members:

- Head of the Department - Chairperson
- Program Chair (PC) – Coordinator for PAC
- Professors, Associate Professors & Assistant Professors in the department associated with the program

Student Council (SC) comprises the following members:

- Head of the Department – Chairperson
- Program Chair (PC) – Coordinator for SAC
- Students – Two students from each year

Departmental Advisory Board (DAB) comprises of the following members:

- Head of the Department - Chairperson
- Program Chairs (PC)- coordinators
- Division Chairs (DCs)- members
- External Academicians – 3
- Industry Experts – 3
- Students from each batch - 3
- Alumni – 3

Figure 1.4a Institute vision and mission

Process for defining PEOs of the Department

PEOs are formulated / reviewed through a consultative process involving the stakeholders including students, alumni, industry, employers, faculty and staff members. The PEOs are reviewed through the following process steps.

Step 1: Program outcomes defined by NBA as well as Vision and Mission of the Department are taken as the basic guide for consultation with various stakeholders.

Step 2: PAC collects the inputs from all stake holders and prepares draft PEOs, which is circulated among all stake holders for suggestions.

Step 3: PAC collates the views and presents the same to the Departmental Advisory Board (DAB).

Step 4: The HOD presents the PEOs to the Board of Studies (BOS) and submit the final version to the academic council for approval.

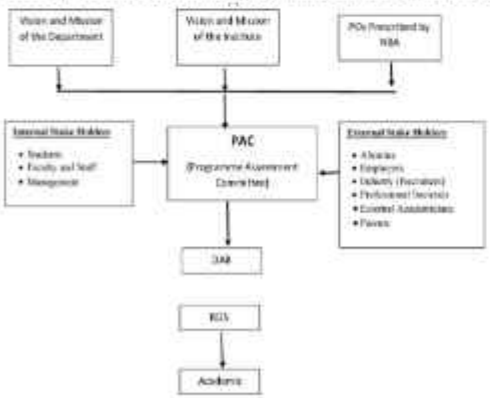


Figure 1.4b Process of defining PEO

1.2 Establish consistency of PEOs with Mission of the Department (1)

MISSION of Department:

MISSION1: Imparting quality education to the students and enhancing their skills to make them globally competitive mechanical engineers.

MISSION2: Maintaining vital, state-of-the-art research facilities to be provided to the students and faculty with opportunities to create, integrate, apply and disseminate knowledge.

MISSION3: To develop linkages with R&D organizations, enterprises and educational institutions in India and abroad for excellence in teaching, research and consultancy practices.

PEO of Department:

PEO1: To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in engineering field and to pursue research endeavours.

PEO2: To nurture students with good scientific and practical engineering application skills to comprehend, analyze, design and create novel engineering products and provide sustainable solution for complex interdisciplinary problems using modern tools.

PEO3: To train students to successfully function in multi- disciplinary teams, able to communicate well with others to share the ideas, thus establishing the leadership to manage the organization effectively.

PEO4: To prepare students to respond to societal needs through an understanding of the Rural ethos, Indian Culture and plurality of ethnic and religious communities in the country at large.

PEO5: To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.

Correlation between PEO's and mission of the department

PEO / MISSION	MI	M2	M3
PEO1	3	3	3
PEO2	3	3	3
PEO3	3	3	3
PEO4	-	-	3
PEO5	3	3	3

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

Consistency/ justification of co-relation parameters of the above matrix

PEO / MISSION		MISSION1	MISSION2	MISSION3
		Imparting quality education to the students and enhancing their skills to make them globally competitive mechanical engineers.	Maintaining vital, state-of-the-art research facilities to be provided to the students and faculty with opportunities to create, integrate, apply and disseminate knowledge.	To develop linkages with R&D organizations, enterprises and educational institut India and abroad for excellence in teaching, research and consultancy practices.
PEO1	To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in engineering field and to pursue research endeavours.	High	High	High
PEO2	To nurture students with good scientific and practical engineering application skills to comprehend, analyze, design and create novel engineering products and provide sustainable solution for complex interdisciplinary problems using modern tools.	High	High	High
PEO3	To train students to successfully function in multi- disciplinary teams, able to communicate well with others to share the ideas, thus establishing the leadership to manage the organization effectively.	Medium	Medium	High
PEO4	To prepare students to respond to societal needs through an understanding of the Rural ethos, Indian Culture and plurality of ethnic and religious communities in the country at large.	Low	Low	High
PEO5	To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.	High	High	High

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

PEO Statements	MI	M2	M3
To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in engineering field and to pursue research endeavours.	3	3	3
To nurture students with good scientific and practical engineering application skills to comprehend, analyse, design and create novel engineering products and provide sustainable solution for complex inter disciplinary problems using modern tools.	3	3	3
To train students to successfully function in multi-disciplinary teams, able to communicate well with others to share the ideas, thus establishing the leadership to manage the organization effectively.	3	3	3
To prepare students to respond to societal needs through an understanding of the Rural ethos, Indian Culture and plurality of ethnic and religious communities in the country at large.	-	-	3
To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.	3	3	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

2.1 Program Curriculum (30)

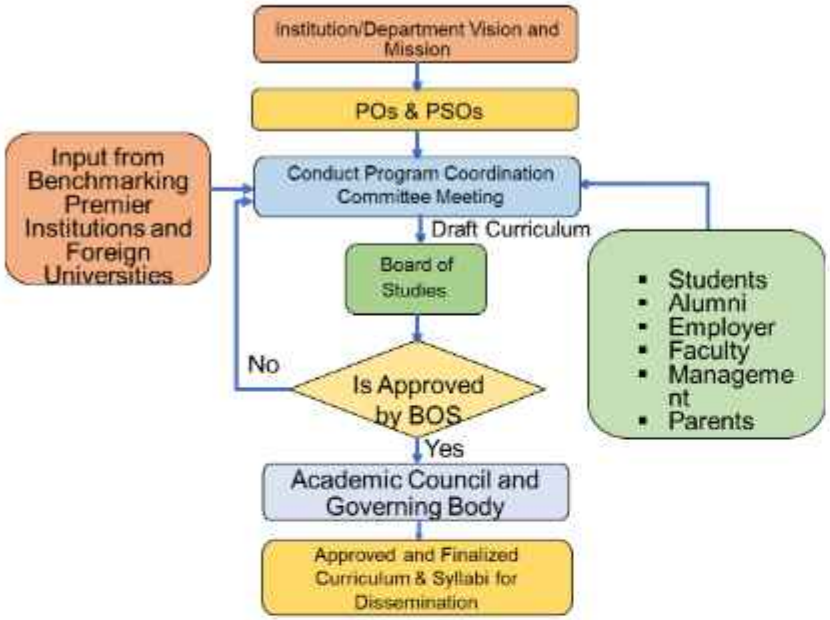
2.1.1 Does the process for designing the program curriculum (12)

Describe the structure of the curriculum

As per the guidelines, the B. Tech. program is of four years and each year is divided into two semesters - Autumn semester (July to December) and Spring semester (January to June). The number of teaching weeks for each semester is fifteen to eighteen with a minimum of 90 teaching days excluding the period of examination.

The curriculum has the balance in the composition of Basic Science Courses, Engineering Science Courses, Humanities and Social Science Courses, Program Core, Discipline Specific Electives, Generic Elective, Skill Enhancement Elective, Basic Life skills and Project Work. The feedback from the internal stake holders (Students, Faculty) and external stake holders (Industry experts, Parents, and with the other reputed universities) have been received. The following is the process used to identify extent of compliance of curriculum for attaining the POs and PSOs.

- Identify Course Outcomes for each subject
- Map each Course Outcome with POs and PSOs
- Based on (i) CO-POs PSOs mapping, Map subject with POs and PSOs
- Categorize entire Curriculum into Core Courses, Science & Humanities, Programming, Inter Disciplinary, Projects / Lab Practices Map each category with POs and PSOs



2.1.2 Structure of the Curriculum (2)

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	s101	Engineering Mathematics I	3	1	0	4	3	0	3
2	s102	Engineering Physics	3	1	0	4	3	0	3
3	s103	Basic Electrical Engineering	3	1	0	4	3	0	3
4	s104	Basic Mechanical Engineering	3	1	0	4	3	0	3
5	s105	Programming for problem solving using C	3	1	0	4	3	0	3
6	s106	Functional English	2	0	0	2	2	0	2
7	s107	Physics Lab	0	0	2	2	0	1	1
8	s108	Basic Electrical Engg. Lab	0	0	2	2	0	1	1
9	s109	Basic Mechanical Engg. Lab	0	0	2	2	0	1	1
10	s110	Workshop	0	0	2	2	0	1	1
11	s111	Programming for Problem Solving using C Lab	0	0	2	2	0	1	1
12	s112	Functional English lab	0	0	2	2	0	1	1
13	s113	Induction Training	0	0	4	4	0	0	0
14	s201	Engineering Mathematics II	3	1	0	4	3	0	3
15	s202	Engineering Chemistry	3	1	0	4	3	0	3
16	s203	Basic Electronics Engineering	3	1	0	4	3	0	3
17	s204	Basic Civil Engineering	3	1	0	4	3	0	3
18	s205	Programming for problem solving using PYTHON	3	1	0	4	3	0	3
19	s206	Business Communication and Ha Skills	3	0	0	3	3	0	3
20	s207	Chemistry Lab	0	0	2	2	0	1	1
21	s208	Basic Electronics Engg. Lab	0	0	2	2	0	1	1
22	s209	Basic Civil Engineering Lab	0	0	2	2	0	1	1
23	s210	Engineering Graphics & Design Lab	0	0	2	2	0	1	1
24	s211	Programming for problem solving using PYTHON Lab	0	0	2	2	0	2	2
25	s212	NSS/ NCC / Yoga	0	0	0	0	0	0	0
26	s213	SUMMER INTERNSHIP TRAINING for 30 Days	0	0	15	15	0	0	0
27	s301	Data Structure using C	3	1	0	4	3	0	3
28	s302	Operation Research	3	1	0	4	3	0	3
29	s303	Engineering Materials	3	1	0	4	3	0	3
30	s304	Thermodynamics	3	1	0	4	3	0	3
31	s305	Basic Manufacturing Processes	3	1	0	4	3	0	3
32	s306	Employability Skill-I	1	1	0	2	1	0	1
33	s307	Environment Science	2	0	0	2	0	0	0
34	s308	Basic Manufacturing Practices Laboratory	0	0	2	2	0	1	1
35	s309	Machine Drawing	0	0	2	2	0	1	1
36	s310	Data Structure using C Lab	0	0	2	2	0	1	1
37	s311	Industrial Management	2	0	0	2	2	0	2
38	s401	Engineering Mathematics-III	3	1	0	4	3	0	3
39	s402	Applied Thermodynamics	3	1	0	4	3	0	3
40	s403	Fluid Mechanics	3	1	0	4	3	0	3
41	s404	Strength of Materials	3	1	0	4	3	0	3
42	s405	Employability Skill-II	1	1	0	2	1	0	1
43	s406	Universal Human Values	2	0	0	2	2	0	2
44	s407	Engineering Economics and Costing	3	1	0	3	3	0	3
45	s408	Constitution of India	2	0	0	2	0	0	0
46	s409	Applied Thermodynamics Laboratory	0	0	2	2	0	1	1
47	s410	Material Testing Laboratory	0	0	2	2	0	1	1
48	s411	Skill Project (Computational Project at HCAM Lab, Small Household or common man Usable Project	0	0	2	2	0	2	2
49	s501	Internal Combustion Engine and Gas Turbine	3	1	0	4	3	0	3
50	s502	Manufacturing Science and Technology	3	1	0	4	3	0	3
51	s503	Machine Dynamics	3	1	0	4	3	0	3

52	5504	Professional Elective-1 (Industrial Engg)	3	1	0	4	3	0	3
53	5505	Disaster Management	3	1	0	4	3	0	3
54	5506	Employability Skill-3	1	1	0	2	1	0	1
55	5507	I. C. Engine Laboratory	0	0	2	2	0	1	1
56	5508	Master Certificate Course or Equivalent Course	0	0	4	4	0	4	4
57	6601	Machine Design	3	1	0	4	3	0	3
58	6602	Machine Dynamics-II	3	1	0	4	3	0	3
59	6603	Professional Elective-2 (Power Plant Engineering)	3	1	0	4	3	0	3
60	6604	Professional Elective-3 Product Design and Production Tooling(PDPT)	3	1	0	4	3	0	3
61	6605	Professional Elective-4 Advanced Mechanics of Solid	3	1	0	4	3	0	3
62	6606	Employability Skill-4	1	1	2	4	1	0	1
63	6607	Essence of Indian Knowledge Tradition	2	0	0	2	0	0	0
64	6608	Design Lab	0	0	4	4	0	1	1
65	6609	Machine Dynamics Laboratory	0	0	2	2	0	1	1
66	6610	SEMINAR	0	0	2	2	0	2	2
67	6611	Soft Computing Laboratory (ANSYS, METLAB, PYTHON)	0	0	2	2	0	1	1
68	7701	Heat Transfer	3	1	0	4	3	0	3
69	7702	Professional Elective-5 (Hydraulic Machines& Flow Measurement)	3	1	0	4	3	0	3
70	7703	Professional Elective-6 (ROBOTICS)	3	1	0	4	3	0	3
71	7704	Industrial Safety Engineering	3	1	0	4	3	0	3
72	7705	Entrepreneurship Development	3	1	0	4	3	0	3
73	7706	Heat Transfer Laboratory	0	0	2	2	0	1	1
74	7707	Fluid Mechanics &Hydraulic Machines Laboratory	0	0	2	2	0	1	1
75	7708	Internship Presentation& Evaluation	0	0	2	2	0	1	1
76	7709	Minor Project	0	0	2	2	0	1	1
77	7710	GRAND VIVA	0	0	4	4	0	2	2
78	8801	INDUSTRIAL INTERNSHIP (MINIMUM REQUIREMENTS THREE MONTHS	0	0	16	16	0	8	8
79	8802	Major Project	0	0	16	16	0	8	8
80	8803	Comprehensive Viva (Internship & Course Subject)	0	0	4	4	0	2	2
		Total	133	41	116	268	113	53	169

2.1.3 State the components of the curriculum (5)

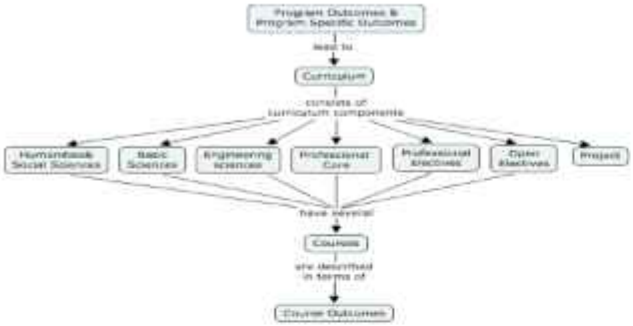
Course Components	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	13.99	36.00	23.30

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)

Describe the structure of the curriculum

The curriculum has the balance in the completion of Basic Science Courses, Engineering Science Courses, Humanities and Social Science Courses, Program Core, Discipline Specific Electives, Generic Electives, Skill Enhancement Electives, Basic Life skills and Project Work. The feedback from the internal stake holders (Students, Faculty) and external stake holders (Industry experts, Parents, and with the other reputed universities) has been received. The following is the process used to identify extent of compliance of curriculum for attaining the POs and PSOs.

- Identify Course Outcomes for each subject
- Map each Course Outcome with POs and PSOs
- Based on all CO-POs PSOs mapping, Map subject with POs and PSOs
- Categorize entire Curriculum into Core Courses, Science & Humanities, Programming, Inter Disciplinary Projects / Lab Practices Map each category with POs and PSOs.



1. Curriculum Framework

The B.Tech. program is a four-year course divided into

autumn Semester (July – December)

Spring Semester (January – June)

Each semester consists of ~15 to ~18 teaching weeks, ensuring a minimum of 90 teaching days (excluding examination periods).

2. Curriculum Components

The curriculum integrates various subjects categorized into:

Category	Purpose
Basic Science Courses	Strengthen fundamental scientific principles
Engineering Science Courses	Develop foundational engineering knowledge
Humanities & Social Science Courses	Enhance soft skills and ethical awareness
Program Core Courses	Provide domain-specific technical knowledge
Discipline-Specific Electives	Allow specialization within the discipline
Generic Electives	Broaden interdisciplinary exposure
Skill Enhancement Electives	Improve industry-relevant skills
Basic Life Skills	Focus on personal and professional development
Project Work	Encourage research and innovation

3. Mapping Process for POs & PSOs

To ensure curriculum compliance with learning outcomes, the institution follows this process:

Define Course Outcomes (COs) for each subject.

Map COs with relevant POs and PSOs (e.g., technical, analytical, and ethical skills).

Categorize subjects into:

a. Core Courses

b. Science & Humanities

c. Programming

d. Interdisciplinary

e. Projects / Lab Practices

Analyze gaps in curriculum delivery through stakeholder feedback

Implement corrective actions such as guest lectures, additional classes, and industry training

Process Used to Identify Extent of Compliance of Curriculum for Attaining POs and PSOs:

Step 1: Program curriculum and syllabus are approved by the Board of Studies, with assessment conducted by internal and external members.

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

Step 3: It is ensured that all POs/PSOs are adequately covered by the courses being taught and that each course is mapped to a high correlation level with at least one PO. Additionally, all POs/PSOs have high correlation with an adequate number of courses.

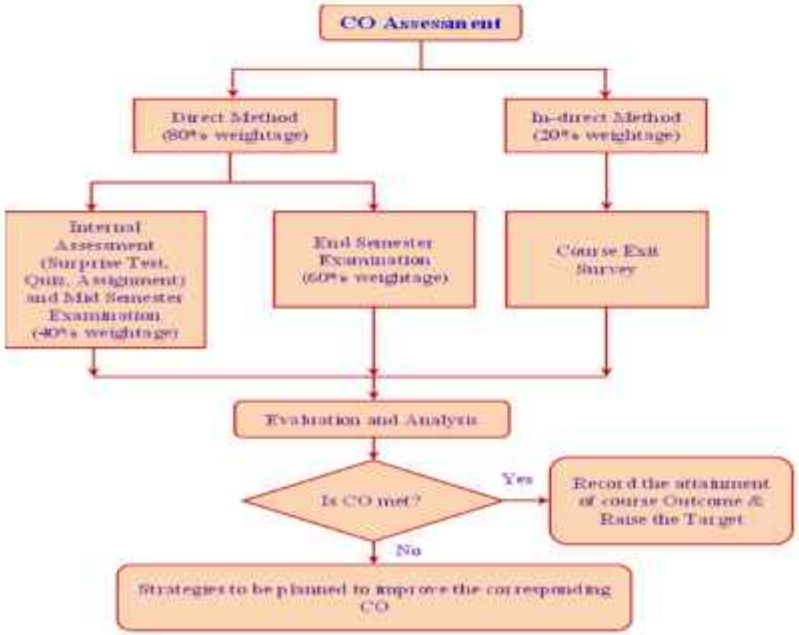
Step 4: In the final curriculum, each of the POs/PSOs is mapped with the courses with good correlation.

Step 5: Feedback from students, parents, recruiters, industry, and alumni is taken for indirect assessment. From the direct and indirect assessment, POs and PSOs are calculated.

Process of Gap Analysis:

This Institute is affiliated with Biju Patnaik University of Technology (BPUT), Odisha. The course curriculum of the Mechanical Engineering department is provided by the university. The following process is used to identify the extent of compliance of the university curriculum for attaining the POs and PSOs:

1. Identify Course Outcomes for each subject.
2. Map each Course Outcome with POs and PSOs.
3. Analyze the gap based on the Course Outcome attainment of individual courses.
4. Discuss the identified gap in the Departmental Academic Committee (DAC) meeting and prepare content beyond the syllabus to bridge the gap.
5. Deliver additional content to students through tutorial and/or remedial classes.



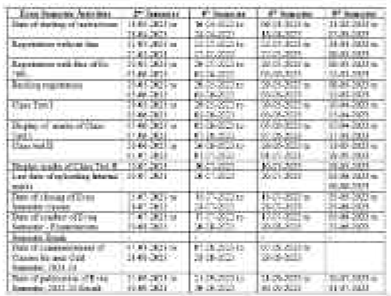
Adherence to Academic Calendar:

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


ACADEMIC CALENDAR FOR THE SESSION 2022-2023

Odd Semester Activities


Even Semester Activities

Maintenance of Course Files


Course File Content

Department Teaching Learning Process

- Department follows the academic calendar provided by the parent University. It consists of the activities planned for the semester which includes internal test dates, laboratory and end examination schedules etc.
- Subject allotment is done well in advance for the staff members to prepare lesson plans, course plan, soft and/or hard copies of the lecture notes.

- E-learning facility (using NPTEL based Lecture CD, MOOCS) is made available for self development of the students.
- Experiments in the laboratories are conducted as per the university guidelines. Some discussions are made beyond syllabus relevant to the course. Laboratory manuals explaining the details of the experiment are available with the course teacher and are given to students during the semester.
- The faculty of department adopts various innovative Teaching & Learning methodologies to create the best learning environment for student.
- These methodologies include traditional chalk & talk methods, presentations, video lecturing, collaborative learning methods are used where every concept is explained with real-world illustrations, design and problematic aspects.
- Faculties are now oriented towards Outcome based Education (OBE) and are actively uplifting the OBE to cater the learning needs of students by innovative ways.
- Lecture Session duration is 60 minutes. Laboratory duration is 120 minutes. Assignments are given to students for their better performance.
- Invited talks and seminars on the current trends are done regularly from the industry persons and/or academia.
- Tutorial/Remedial classes are conducted to bridge the curriculum GAP as well as to support the slow learners based on their performance in external exams and after the first Internals. Motivating and guiding students for higher studies and university ranks.
- Industrial visits are conducted to reduce the gap between industry and institute. Workshops are organized to help the students to understand concepts beyond curriculum.
- Mentoring sessions are conducted to provide guidance to students towards achieving professional fulfilment and assessment of his/her academic progress as well as personal growth. One-to-one discussion, interaction between Professors and students has increased confidence levels of the students.
- Identification of bright and weak students. Motivate the weak students to attend tutorials and help them solve more problems. Encourage the bright students to attend more workshops and technical talks.

Use of various instructional methods and pedagogical initiatives:

Members of faculty in the department prepare subject handouts containing list of formulae, question bank comprising previous question papers and teaching with the aid of smart classrooms, LCD projectors i.e., ICT Facilities; live demonstration of the subject contents is shown in the laboratory.

Methodologies to support weak students and encourage bright students:

- Bright and Weak students are identified based on their performance in the CIE assessments.
- To improve performance of the weak students by conducting special coaching classes and counseling sessions are carried out.
- The students are encouraged to present the technical papers in seminars, conferences and publish their papers in journals. They are also encouraged to become university rank holder and to write competitive exams like GATE, GRE, CAT, GMAT, TOEFL, IELTS, etc., for pursuing higher studies.
- To inculcate the self-learning process, students are made to be members in professional societies. Even the weak students can uplift his morale towards learning by participating in the different events conducted by the professional bodies.
- Special training courses i.e., CuTTI, ProE and UNIX/S were conducted to the interested students.

Initiatives and Implementation details of Encouraging Bright Students:

- Sudge Sudge Institute of Technology, always had the culture of encouraging bright students by providing them necessary guidance and moral support.
- Class Toppers are awarded every year.
- The bright students are identified based on their overall performance and their orientation towards academics.
- Encouraged to attend conferences, workshops.
- Encouraged to take up innovative projects and apply for funding.
- Encouraged to participate in various competitions.
- The bright students having high academic track records are encouraged by faculties to achieve university ranks, also encouraged to take up competitive examinations like GATE, GRE etc.
- The bright students having orientation to research are encouraged by faculties to publish their work in their work in National & International Conferences& Journals.

Initiatives and Implementation details of Assisting Weak Students:

- The department has a well-defined process of monitoring, guiding, and assisting slow learners (weak students).
- Care is taken by the faculties in monitoring the performance of slow learners, the students' deviations from studies is observed by the respective mentors and corrective measures are taken.
- The faculties also go a step ahead and have periodic interaction with the parents about the performance of slow learners.
- Co-ordination and responsibility from both parents and faculty will create a positive mind set and will help to overcome the inactivities and hurdles faced by the slow learners.
- Every parent is informed about marks and the attendance of their respective candidate.
- Additional coaching is given to slow learners through Remedial classes and study materials are provided to them.
- A special counseling and tutorial classes are conducted by the faculty for those students who have failed in any subject.

Quality of classroom teaching:

- Conducive learning ambiences in the classrooms are maintained through comfort seating arrangements, good ventilation with proper lighting.
- The faculty members go to the classrooms on time; revise the previous class contents first and then ask questions from the previous day portions. Later may continue the new sessions.
- Smart classrooms are utilized to improve the teaching learning process.

Conduct of experiments:

- All lab manuals are prepared well before the commencement of the semester as prescribed by the Institute.
- Each class is divided into two groups and the two groups are sent to two separate laboratories. In further they are divided into small groups, not more than four students.
- Each group will do the experiments separately in order to make them understand and conduct the laboratory experiment and to get individual attention from the faculty.
- The students record the experiments' values in their observation after completing the task and calculations, the students submit the same for evaluation.
- The total number of experiments in the laboratory course is divided into two cycles (Cycle 1 and Cycle 2). This process of dividing the experiments into two groups is practiced for making the teaching learning process more effective.

Continuous assessment in the laboratory:

- After completion of first set of exercises (Cycle 1), students' knowledge in the experiments is tested and Model viva-voce is also be conducted.
- Based on their practical outcome, the weaker students are identified, and a special session is conducted after the Cycle 1.
- Model Lab Exam: A model lab exam of 3 hours duration is conducted after the completion of the exercises to assess the ability of a student performance.
- University Examination: The end semester practical examination is conducted for 3-hour duration.

Mini Project:

- The Objective of the Mini project is to estimate the ability of the student in transforming the theoretical knowledge studied so far into application of mechanical engineering. This will enable the students to gain experience in organization and implementation of a small project and thus acquire the necessary confidence to carry out main project in the final year.
- In this practical course, each group consisting of three/four members is expected to design and develop practical solutions to real life problems related to industry, institutions and research.
- At the end of the seventh semester, the students will select the topics for the mini project and a review will be conducted by the department for the topic acceptance.
- The review panel consists of two to three faculty members from different areas of interest. After the acceptance of the topic, each batch will be assigned a guide based on their area of interest.
- A committee consisting of minimum three faculty members will perform the internal assessment of the mini project. In addition to this, some laboratory experiments are also done in the lab.
- Daily performance & Mini Project evaluation: A set of 3-4 students, comprise a mini project group. The mini project work done by the group is evaluated based on various reviews and daily performance. The evaluation of the Mini project goes through four phases: batch, first, second and final review.

The evaluation is based upon the following factors:

20% - Demonstration of mini project

20% - Practical test conducted with mini project

20% - Viva voce

10% - Project report

Student feedback of teaching learning process and action taken:

- A team of senior faculty members and class teacher conduct the class committee meeting after a month of commencement of every semester, minimum of two class committee meetings are conducted in every semester.
- In the class committee meeting, the student's representatives freely express the opinion about the course and subject handling faculty members will not be in the committee. If the students feel any inconvenience of the subjects and the faculty members, the Head of the Department will take the necessary corrective measures.
- The feedback forms are filled by the students for each course collected through online by Internal Quality Assurance Cell (IQAC) at the end of every semester.
- The IQAC will consolidate and review the feedback through the senior professors, the faculties those who earned excellent feedback are appreciated and a review is conducted for the lower performed faculties.
- Elite clubs are formed consisting of five students from each section. Principal and the Deans collect feedback from the elite club members.

Collaborative learning:

- Groups comprising of a maximum of five to six students are formed in each class. One from the group is designated as the group leader.
- Each group may be assigned tasks by the faculty and a report on the activity is provided by the respective group leader.
- Oral assessment on the report is done by the faculty to analyze the expected outcome from the activity.
- The tasks assigned could be a minimum of three in each semester as decided by the faculty member.
- The focus of the tasks is on learning new technologies, enhance the knowledge on a particular topic, studying new tools to be in pace with the industry, doing some mini projects, etc.
- Additional experiments could be assigned to each group in lab sessions.
- Faculty encourages each group to disseminate the knowledge they have gathered to others.
- Students are encouraged to develop their products for the benefit of society.

Group Discussion:

Group Discussions is an excellent strategy for enhancing student motivation, listening, intellectual agility and encouraging democratic habits. It creates opportunities for students to practice and to sharpen a number of skills including the ability to articulate and defend positions, consider different points of view, and enlist and evaluate evidence. The group discussions are promoted in the theory and lab classes.

Assignments:

The purpose of the writing assignments is to help each student develop research and communication skills, as they obtain the necessary information literacy skills to complete the engineering curriculum. Writing assignments is a flexible means of demonstrating learning as well as a method of exploring ones thinking to stimulate learning.

Subject and its Associated Laboratory

Sl. No	COURSE	ASSOCIATED LABORATORY
SEMESTER – I		
1	Engineering Physics	Physics Lab
2	Basic Electrical & Electronic Engineering	Basic Electrical Engg. Lab
3	Basic Mechanical Engineering	Basic Mechanical Engg. Lab
4	Workshop Practice	Workshop

5	Programming for Problem Solving using C	Programming for Problem Solving using C Lab
6	Functional English	Functional English lab
SEMESTER – II		
7	Engineering Chemistry	Chemistry Lab
8	Basic Electrical & Electronic Engineering	Basic Electronics Engg. Lab
9	Basic Civil Engineering	Basic Civil Engineering Lab
10	Basic Engg Drawing & Computer Graphics	Engineering Graphics & Design Lab
11	Programming for problem solving using PYTHON	Programming for problem solving using PYTHON Lab
SEMESTER – III		
6	Basic Manufacturing Practices	Basic Manufacturing Practices Laboratory
9	Machine Drawing	Machine Drawing /Graphics CAD Lab
10	Data structure using C	Data Structure Using C Lab
SEMESTER – IV		
13	Applied Thermodynamics	Applied Thermodynamics Laboratory
14	Strength of Material	Material Testing Laboratory
12	Skill Project	Skill Project (Computational Project at mCAM Lab, Small Household or common man Usable Project)
SEMESTER – V		
15	I C Engine	I. C. Engine Laboratory
16		Vapor Certificate Course or Equivalent Course
SEMESTER – VI		
22	Machine Design	Design Lab
23	Machine Dynamics	Machine Dynamics Laboratory
22	Soft Computing	Soft Computing Laboratory(UNIVS, NETLAB, PYTHON)
SEMESTER – VII & IX		
27	Heat Transfer	Heat Transfer Laboratory
29	Fluid Mechanics and Hydraulic Machines	Fluid Mechanics &Hydraulic Machines Laboratory
28	Internship	Internship Presentation& Evaluation
30	Project	Project

Scope for self-learning:

- Value added lab sessions beyond syllabus are conducted to expose the students to software / hardware trends not included in their curriculum.
- Hobby lab enables students to do something on their own, test them known by doing discussions, brainstorming and problem solving focused on outputs of learning and academic careers.
- Professional skill development courses are arranged.
- Do it yourself.
- Engaged to work in industries during vacation and have industrial training.
- Language lab facilities provided – This enables students to prepare TOFEL, GRE, CAT examinations. In-house SUITE coaching is provided by the department to each batch.
- Industrial visits arranged by the Departments.
- Technical talks.
- Students are encouraged to learn from MOOCs courses such as: NPTEL, SWAYAM, COURSERA etc.

GENERATION OF SELF-LEARNING FACILITIES AND MOTIVATION:

- For lab courses, the lab manuals are issued, and certificates given based on a test at the end of the session. Internet facilities are provided.
- Wi-Fi zone enables the students to use the facility any time, even beyond college hours! Browsing center open for 24 Hrs. a day.
- Students motivated by sending them to write research papers and present papers in conferences. College bears the expenditure.
- Learning material are put on the 'intranet' – students are encouraged to do exercises.
- Labs are open to students beyond the working hours to conduct experiment for their project works.
- Encouraging students to put innovation on web.

AVAILABILITY OF LEARNING BEYOND SYLLABUS CONTENTS AND PROMOTION:

- Intranet facility provides learning of subjects not necessarily in the curriculum.
- Problem solving techniques.
- Social service field work offers self-learning opportunities to students.
- Literature on professional ethics, personality development, and even English literature are put on the Intranet.
- Many e-learning materials, journal and magazine are subscribed and made available to the student at the Institute Library to help the students. Inculcating the habit of self-learning. Moreover, provision of Internet in the hostels also helps the students to learn beyond what is taught in the classroom.
- Students are encouraged to use the self-learning materials in the Institute.
- In addition to this NPTEL, VLAB and SWAYAM MOOCs and different software are available for student reference.
- The biggest resource for self-learning is obviously the college library. The college library, not only possesses plenty of books to meet the students' syllabus- oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge. The library also possesses a number of magazines and periodicals related to different branches of science and technology which the students may readily access.
- The library also subscribes to a host of online and printed journals, which are also made readily available to the students.
- The library also includes a computer room with Internet access which is often used by students to access various forms of e-materials for their self- development.
- Students are encouraged to visit NPTEL lectures, browse different Internet sites to increase their knowledge base about the subject.

2.3.2 Quality of end semester examination, Internal semester question papers, assignments and evaluation (12)

Quality of Internal semester Question papers, Assignments and Evaluation

- Internal semester question papers are prepared considering the standards of GATE, PSU entrance, JU, ISAT and other institutions.
- Assignments are given to the students in such a fashion that they have to solve the problem themselves by self-learning methods.

Evaluation methods are predefined, which is as follows:

Assessments		Frequency(Num)	Theory Courses (%)	Practical Courses (%)	Project Courses (%)
Written Examination	Mid sem	1	20		
	Assignment	2	5	-	-
	Surprise Test	1	5	-	-
	Quiz test	1	5		
	End Semester	1	60		
Practical Examination (Experiments, Practical Records and Viva-Voce) records and	Organization of experiments	1 / Exp.			
	Experiment (work) planning and execution	1 / Exp.		20	
	Results and Interpretation	1 / Exp.		30	
	Report	1 / Exp.		20	
	Understanding on the theory related viva-voce to experiment	1 / Exp.		30	
Project Examination	UP & DP				10
	PLIC				10
	Methodology				10
	Oil & P				10
	I & C				20
	Report				20
	Defence				20

Question Papers:

- While setting the question paper all pre-local unit-wisely exam papers are taken into consideration.
- According to level of toughness the questions are prepared (viz. analyzing the problems, implementation of modern tools, formulating the problems etc.), which is termed as Bloom's Taxonomy. The questions are mainly prepared based on the Course Outcomes.

GITA AUTONOMOUS COLLEGE, BHUBANESWAR

(Affiliated to BPUT, Odisha)

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

Registration No. :

Subject: Machine Design

Subject Code: 21GTMCTPC08

Branch: Mechanical Engineering

Time: 3 Hours

Full Marks: 60

Instructions:

Answer question No. 1 (Part I) any ten out of 10 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			
Q1	Short Answer Type Questions (Answer any ten out of twelve)	(02 x 10)	BL	CO	PO & PSO
	a) What are the different types of theories of failure.		1	1	2,3
	b) Explain the term stress concentration factor.		2	2	2,3
	c) What is a key and what it is used for?		1	4	2
	d) What are the applications of flexible coupling?		2	4	2
	e) Define pitch of a rivet.		1	3	1,2,3
	f) What is a knuckle joint and where it is used?		2	3	2,3
	g) Define bearing characteristic number.		1	5	2,3
	h) Define factor of safety. What are the factors considered for selection factor of safety.		1	1	2,3
	i) What the different steps of design?		1	1	2,3
	j) What is the significance of COF?		1	2	2,3
	k) What is equivalent static load of a roller bearing?		2	5	2,3
	l) Show the graphical representation of maximum shear stress theory.		1	3	2,3
	Part – II	Marks			
Q2	Focussed – Short answer type Questions (Answer any five out of seven)	(07 x 05)	BL	CO	PO & PSO
	a) Briefly explain the different types of design.		2	1	2,3
	b) Diamond riveting used for structural joints, exhibits Uniform strength at all sections. Justify.				

	c)	Explain the working principle of hydrodynamic lubricating sliding contact bearing.		3	2	2,3
	d)	A steel rod is subjected to a reversed axial load of ±60 kN. Find the diameter of the rod for a factor of safety of 2. The material has an ultimate tensile strength of 1070 N/Pa and yield strength of 8×10 N/Pa. The endurance limit in reversed bending may be assumed to be one-half of the ultimate tensile strength. Other correction factors may be taken as follows: For axial loading = 0.7; For machined surface = 0.8; For size = 0.85; For stress concentration = 1.0		3	3	2,3
	e)	Briefly explain any three theories of failure. Give their graphical representation.		3	2	2,3
	f)	A stepped shaft has maximum diameter 45 mm and minimum diameter 30 mm. The fillet radius is 6 mm. If the shaft is subjected to an axial load of 10 kN, find the maximum stress induced, taking stress concentration into account.		3	3	2,3
	g)	Design the rectangular key for a shaft of 50 mm diameter. The shearing and crushing stresses for the key material are 42 N/Pa and 70 N/Pa.		3	4	2,3
		Part – III	Marks			
		Long Answer type Questions (Answer any two out of four)	(10 x 2)	BL	CO	PO & PSO
03	a)	Design a triple riveted, zig-zag, butt joint with two unequal cover plates, for the longitudinal seam of an air tank of 1m diameter, and subjected to an internal pressure of 1.2N/mm². The plates and rivets are made of the same material, with permissible stresses 80N/Pa in tension, 120N/Pa in crushing, and 60N/Pa in shear. The efficiency of the joint should not be less than 80%.	10	3	3	3
04	a)	Design a knuckle joint to withstand an axial load of 72kN. The eye end and fork end pin of the joint are made of mild steel having permissible stress of 75N/Pa in tension,60N/Pa in shear and 130N/Pa in crushing. Give a neat dimensional sketch of the joint.	10	3	3	3
05	a)	Design a journal bearing for a centrifugal pump from the following data: Load on the journal = 20000 N; Speed of the journal = 900 rpm; Type of oil is SAE 10, for which the absolute viscosity at 55°C = 0.017 kg/m-s; Ambient temperature of oil = 12.5°C; Maximum bearing pressure for the pump = 1.2 N/mm². Calculate also mass of the lubricating oil required for artificial cooling, if rise of temperature of oil is limited to 10°C. Heat dissipation coefficient = 1232 W/m²°C.	10	3	3	3
06	a)	Design a CI protective flange coupling to connect two shafts in order to transmit 7.5kW at 720 rpm. The permissible shear stress and crushing stress for shaft, bolt and key material may be assumed as 30 N/Pa and 60 N/Pa respectively. The permissible shear stress for CI is 12 N/Pa. Draw the sketch of the coupling.	10	3	4	3

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

Assignments:

- Assignment problems and submission dates are provided by the respective faculty members.
- Assignment questions are prepared using Bloom's Taxonomy process in relation with COs.

3.3.3 Quality of student projects (20)

Quality of student projects (20)

To start with, HoD issues a circular to all the faculty members of the department to provide the list of projects to be given to the students at the end of even semester. The same is being notified to the students by the way of addressing in the classroom by the project coordinator, besides putting a notice in the notice board of the department. Students are also encouraged to come up with the idea of their own for doing the project. The same is presented to the project review committee. After the careful examination of the idea presented by the student/team, guides may be allocated to the students by project coordinator.

- Students are briefed about the objectives, outcomes & specific outcomes of the projects and steps to be followed.
- Selection of area in which students are interested to do the project.
- Literature survey
- Identification of Project
- Allotment of Project
- Manufacturing / Prototype making/Mathematical Modelling/ Experimentation
- Collection of Data
- Analysis of Data
- Conclusion of the Project
- Future scope of work

Identification and allocation of Projects:

- The project work has two phases. In first phase the students are encouraged to identify the project based on their interested field and students also encouraged to do the interdisciplinary projects. The students also encouraged to choose industrial problems based on the previous inplant training of the concerned industries.
- The guides are allocated based on their specialization or interest by the project coordinator and Head of the department.
- During the first phase (Identification of Project), students collect the literature (previous work related to the area), consolidate the work plan and budget by continuous evaluation through the reviews. Similarly, the industrial projects also planned and scheduled.
- In the second phase, students complete their project work and submit the project report as per the first phase plan. It could be evaluated by the reviews in proper intervals, at least three reviews must be attended by the students.
- The good quality project works are encouraged to present/ publish in the national/ international conferences and journals.

Types and relevance of the projects and their contribution towards attainment of POs and PSOs:

Based upon the functional area of the projects, they are categorized as follows:

- Application oriented
- Design and manufacturing
- Product and process development
- Material Science
- Solution to the industrial problems

After categorizing the projects, they are mapped with POs and PSOs and the attainments are assessed based on the following:

- Depth in fundamentals
- Clarity in problem analysis
- Methodology adopted
- Modern tool usage
- Impact on societal needs as useful products/processes
- Future scope of the work
- Novelty of work
- Teamwork
- Presentation and documentation
- Cost effectiveness and project management
- Employability

Process to assess individual and team performance:

The performance of the individual team member of the project is assessed at the time of presentation in reviews by considering the following criterions:

- Communication
- Confidence in the project work
- Attainment of individual scope of work
- Overall contribution for the project accomplishment
- Innovation and Novelty of the project works

The performance of the project team is assessed by considering the following criterions:

- Knowledge of the other members contribution towards the project
- Coordination in consolidating work
- Time management

List of student Projects (2023-24)

Sl. No.	Year	Project Title	Project Guide	Name of Student
1	2023-24	Design & fabrication of solar water purifier	Dr.J. & Dehury Ms. Shrutí Sinha Mr. Chandan Kumar Jena	Alok Kumar Rakesh Amit Kumar Singh Anshujit Mohanty Debidatta Maharana Gourab Behera
2	2023-24	Design of floor cleaning robot	Dr Chandrakanta nayak Biswajit Sahoo Smruti Rekha Samal	Rakesh Kumar Sahoo Pratyush Kumar Sai Chandan Biswal Satyasina Pal Umakant Prasad Behera Sandhya Priyadarsini Subhendu Kumar Nanda Sujaya Kumar Sahoo Prabuddha Jena Sibi Kumar Meher
3	2023-24	Climate change robot	Prof Sibakanta Sahu Mr JonalyaDibyajyoti Mr.Jagannath Nayak	Manash Ranjan Jena Urjan Rakesh M. Varun Ch Mohan Kumar Priyashree R. Sahoo Lalog Nayak Samir Kumar Mohapatra Shaik Zaki Amin Snehashish Samal Biswakanta Mishra Ranjan Kumar Panda D. Rama Krishna

4	2023-24	Installation and commissioning of solar power plant for electrification of class room	Dr M. K. Pradhan Mr. SubratoChoudhury	Satyajeet Patra Saurabh K. Dwivedi Shreya Naik Somya Subham Sahoo Subrata Pradhan Swagnik Sagar Barai Tanishq Barik Naman Kumar
5	2023-24	Performance and emission analysis of variable compression engine fuelled with alternative fuels	Dr C. K. Nayak Mr. Sangram Behera	Abhijit Panda Abhimanyu Jha Abhinandan Kumar Abhishek Bisoi Abinash Sahoo Amaresh Prasad Behera Akanksha Mansingh Amit Kumar Mandi Amit Sagar Nayak
6	2023-24	Dynamics of 2-phase flow through sudden changes in cross-sectional areas using CFD.	Prof. (Dr) M K Roul Ms. Seetal Mohanty Mr. Manas Ranjan Rout	Anita Behera Aparajita Samal Biswaranjan Parida Biswaranjan Sahu Debabrata Swain Debashish Dalai Deepak Mohapatra Digambar Pani Dulari Murmu
7	2023-24	Design & development of a solar water pump	Dr. S. Panigrahi Dr. C. Samal	Gopal Kumar Ray Gourab Goswami Jayant Kumar Jnanaranjan Acharya Kona Lalitah Lipsa Priyambada Manish Mohanty Manoranjan Xalxo Monika Kumar
8	2023-24	Design & development of a solar grass cutter	Dr C. K. Nayak Prof. P. P. Swain	Narendra Behera Pallavi Patra Prabhudatta Mishra Prakash Mahato Prasant Kumar Sahu Pratik Anand Priyadarshi Biplab Kumar Purnima Sahoo Rahul Mahanta
			Ashok Kumar Pradhan Sobha Rout Mr Chiranjibi Patra	Basudeva Pattra Jyotishankar Das Sambit Kumar Mohapatra Dinesh Kumar Tarai Asif Akhtar Himanshu Kumar Sujit Kumar Meher Pritam Ballav Sahoo Swarna Jyoti
		Design and fabrication of portable bench vice	Satyajit sahu Dr.ManojKrRoutray Dr. Debasmita Panigrahi	Ashutosh Satapathy Prabuddha Jena Sudhendu Kumar Nanda Jamunash Satapathy Unjana Rakesh Biswakanta Mishra
			Mr Subham Patra Ms. Purnima Sahoo	Lucky Nayak Ranjan Kumar Panda Chitsaranjan Mohan Kumar Chinmaya Kar Snehasish Samal Soumya Ranjan Behera M Varun

List Of student Projects (2022-23)

Sl. No	Year	Project Title	Project Guide	Name Of students

1	2022-23	Design & fabrication of tender coconut cutting machine	Dr.J.S.Dehury Ms. Simmi Sinha Mr. Chandan Kumar Jena	Anshuman Behera Arnab Bhattacharya Aryan Ayush Dash Biswajit Pradhan Biswaraj Nayak Krushna Chandra Parija Praveen Kumar Mohanta
2	2022-23	Design and characterization of fatigue testing machine	Prof P. K. Jena Dr.ManojKrRoutray Dr. Debasmita Panigrahi	Purushottam Singh Rohan Kumar Rout Rounak Mishra Satyaranjan Sahu Saurabh Kumar Thakur Soumya Ranjan Rout Subhendu Naik Subhajit Jena Sudhanshu Sekhar Behera Sumit Samantara Surya Prakash Sahoo Swagnik Sourav Panda
3	2022-23	Design and fabrication of electrical vehicle (e – rickshaw)	Prof Satyajit Sahu Mr Sidhant Patro Ms. Purnima Sahoo	Vedansh Gupta Shashikant Kumar Verma Samir Jilhar Somesh Jha Ummandan Samal
4	2022-23	Installation and commissioning of solar power plant for electrification of class room.	Dr M. K. Pradhan Mr. SubrataChowdhury	Jimutanshu Giri Anil Kumar Marin Ankita Dash Anshudhar Rout Anushree Das Arjun Kumar Arya Kumar R. Nayak Arya Kumar Sahoo Ashish Ranjan Avisanti Bal Avigna Priyadarshini Avinash Pradhan
5	2022-23	Performance and emission analysis of variable compression engine fuelled with alternative fuels	Dr. C. K. Nayak Simi sinha	Baishnavi Patel Bibhushree Bariksingh Bidhya Kumar Satapathy Bikash Kampa Bikash Kumar Sahoo Bishnu Prakash Ojha Biswa Sundar Nayak Bimal Satapathy Br Dibyajyoti Sethi
6	2022-23	Dynamics of 2-phase flow through sudden changes in cross- sectional areas using CFD.	Ashok Kumar Pradhan Satya Rout Mr Chiranjibi Patra	Chandrakant Naik Chandrakant Sahoo Chinmaya Behura Debangal Behera Debasis Rout Debendra Prasad Sethi Devi Prasad Behera Dibyam Dipam Sahoo Dilip Kumar Dusmanta Sahu Gayatri Sahoo
7	2022-23	Design & development of a solar water pump	Dr. S Panigrahi Dr. C. Samal	Gopal Krushna Panda Gopal Krushna Patra Gyanajit Samntua Gyandeep Acharya Himananda Behera Hitesmoti Patel Hitesh Kumar Patel Jyoti Prakash Pradhan Jyotiranjan Nayak Kalpita Mishra

6	2020-22	Design & development of a solar grass cutter	Dr C. K. Nayak Prof. R. P. Swain Dr sushmita dash	Kishan Kumar Raut Krishnaram Jinni Pal Kundan Soren Linkun Behera Manas Ranjan Sahoo Mithlesh Kumar Monalisa Samal Mukul Kumar Navneet Kumar
			Sabita Raut Smruti Rekha Samal	Niharika Sahoo Nishant Kanoongo Nishant Kumar Jena Om Prakash Mahali Pratiksha Das Pravash Samal Praveen Toppo Prince Kumar

List Of student Projects (2021-22)

Sl. No.	Year	Project Title	Project Guide	Name Of Students
1	2021-22	Design and development of Helical	Prof. (Dr.) M.K. Rout Mr. SubrataChoudhury	Abhay Kumar Ashutosh Guru Chandan Kumar Sahoo Chandan Rout Debasish Behera Dinesh Kumar Mallick Hardik Hota Jyoti Prasad Samal Kanishtu Ram
2	2021-22	Hand operated reciprocating Water Pump	Dr. S.P.Mishra & Dr. S. Nayak	Krishna Kumar Sahoo Nirmalin Swain Nirmalya Tarai Prayaga Raj Pradhan Ritesh Kumar Satpathy Shantanu Kumar Pal Shubasish Sela Subhajit Sagar Pradhan Sumit Swain Syed Junaid Vikash Ranjan Yashobanta Sindhani Abhijit Panda
3	2021-22	Design and fabrication of three axis pneumatic Trailer	Dr. S Panigrahi Dr. C. Samal	Abhimanyu Sha Abhinandan Kumar Abhishek Bisoi Abinash Sahoo Akankshya Mansingh Amit Kumar Mandi Amit Sagar Nayak Anita Behera Aparajita Samal Biswaranjan Panda Biswaranjan Sahu Debabrata Swain Debashish Dalai
4	2021-22	Design and fabrication of wast heat recovery from refrigeration system	Prof. Chandrika Samal Ashok kumar pradhan	Deepak Mohapatra Digambar Pani Dulari Murmu Gopal Kumar Roy Gourab Goswami Jayant Kumar Jnanaranjan Acharya Kona Jaffah Lipsa Priyambada Manish Mohanty Manoranjan Kisku Monis Kumar Narendra Behera

6	2021-22	Natural convection heat transfer from extended surfaces by using CFD.	Prof. (Dr.) M.K. Raut Mr. Chandan Kumar Jena Smruti Rekha Samal	Pallavi Patra Prabhudatta Mishra Prakash Mahato Prasant Kumar Sahu Pratim Anand Priyadarshi Biplab Kumar Purnima Sahoo Rahul Mahanta Rajesh Kumar Pradhan Rajkumar Mallick Rakesh Ranjan Dash Ranjit Kumar
7	2021-22	Automatic Fish cutting and cleaning Machine	Prof. Sibakanta Sahoo Mr Chiranjeeb Sahoo	Ritural Neog Samarjeet Barik Sanchayan Pati Sani Kumar Santosh Kumar Jena Sasmita Das Satyabrata Sahu Satyajit Mohapatra Saurav ranjan Mahapatra Shilpa Behera Sidhanth Sankar Baliarsingh
8	2021-22	Manufacturing and Study of Polymer Laminate Composite using Areca Fiber	Prof. P.K. Mohanty& Dr. S. Dash	Soman Biswal Soumit Kumar Rath Sourav Sahu Sri Krishna Mahato Subhasree Sahoo Sunny Shekhar Sinha Sushree Sefali Mishra Vikash Kumar Jaiswal Santosh Kumar Sahoo
9	2021-22	Design and Development of a Portable type of Hydraulic Bending Machine	Dr C. K. Nayak Prof. R.P. Swain Dr sushmita dash	Sagar Kanungo Alok Pradhan Sanket Kumar Nayak Shankar Gouda Bhola Nath Pandey Biswajit Dalai Rajesh Kumar Behera Rakesh Kumar Panda
10	2021-22	Design and Development of a Biogas plant using Kitchen Waste	Dr. S. K. Patra Ms. Sasmita Mohanty	Subhajit Pal Jitendra Pradhan Milan Sahu Somanath Malik Debasmita Malik Suman Mohapatra Ankit Ranjan Gupta Jogi Singh

3.2.4 Initiatives related to Industry Interaction (10)

Initiatives related to Industry Interaction:

To strengthen interaction with industries and to keep our students updated with the latest trends in Mechanical Engineering, the Department has implemented following initiatives:

1. One departmental coordinator from Mechanical engineering department always keeps contacts with the Training & Placement Office of this Institute regularly. Special lecture on thrust area by experts from industries are conducted for exposing the industrial needs to the students.
2. Students are permitted to take training at various industries.
3. All students undertake summer/winter vacation training in industries which is mandatory.
4. Industrial Visits along with the faculty members are arranged to bridge the gap between theoretical concepts and practical implications of the same.

Department entered an MoU with number of Industries and Central Training Institutes, for Advanced Manufacturing and material testing for the benefit of benefit of the mechanical engineering students.

List of MoU Signed since last Three Year:

Sl. No.	Organization	Purpose	Period	Date
1.	UCI-SKU CONFEDERATION, SRI KRISHNADEVARAYA UNIVERSITY CAMPUS, ANANTAPUR	Student exchange Programme	[illegible]	[illegible]
2.	MEGA INTERNATIONAL MARITIME ACADEMY LTD, SASKATCHEWAN, CANADA	To carry common research interest activities, enter long-term collaboration for student training, quality post-graduation research	[illegible]	[illegible]
3.	LINGARAJ BISCUITS PRIVATE LIMITED, Bhubaneswar	Student can trained as Junior /Middle level personnel as different technical subjects and create awareness towards Industrial safety, repair and maintenance	[illegible]	[illegible]
4.	KEMPPI INDIA PRIVATE LIMITED, Bhubaneswar	Student can take training in Advanced Welding Lab. Teacher/Lab. Demonstrator can be trained in KEMPPI, Chenai Plant	[illegible]	[illegible]
5.	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY, Bhubaneswar	Student/Faculty can use the equipment's pertaining to Polymer testing for their project work. Student can go for field training to CIPET to learn composite fabrication, plastic molding	[illegible]	[illegible]
6.	CENTRAL TOOL ROOM TRAINING CENTRE, Bhubaneswar	Student/Faculty can use the precession machines in machining shop and welding shop for their project work	[illegible]	[illegible]
7.	CENTRAL TOOL ROOM & TRAINING CENTRE, Bhubaneswar	Collaboration for advanced CNC machining and CAD/CAM software training for students	[illegible]	[illegible]
8.	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), Bhubaneswar	Faculty and students can access high-end industrial automation and robotics lab for skill enhancement	[illegible]	[illegible]

STUDENTS AT COCA COLA PVT. LTD.

STUDENTS AT CTTC, BHUBANESWAR

STUDENTS AT IFFCO, PARADEEP

STUDENTS AT TATA STEEL

STUDENTS AT NILACHAL ISPAT NIGAM LIMITED

STUDENTS AT NAV BHARAT STEEL

STUDENTS AT NALCO

Initiatives related to Industry Internship/Summer Training:

- All the students are taken into industrial tour with respect to his/her field of study.
- Students are encouraged to take internship for which the college renders support and his/her to upgrades their knowledge.
- All the students who go for such internships exhibit enhanced skills, do related project, and invariably find employment in similar industries.

Initiatives:

The implant training coordinator encourages undergoing in-plant training or internship, in their pre-final year vacations. This will enable the students:

- To gain hands-on experience in implementing whatever they have learned in their curriculum.
- To train themselves on the state-of-the-art equipments and standards used by the industries.
- To present themselves as complete professionals when they go for placements.

Arranging for In-plant training / Internship:

- Students will choose a domain that they come across in their academic and find the industries available on that domain which provides training.
- Students will then approach the department for getting approval.
- The college will issue the necessary documents like a bonafide certificate and request letter to the concerned industry. After the consent of the industry the students will attend the training program in the respective industries.

Impact Analysis of Industrial Training:

- Assessment will be based on type of industry, objectives, number of students participated, relevant area of training, documented visit report.
- Analysing the likely impacts of the training on the performance of the student through detailed interaction with students.

Student Feedback on Initiative:

- Feedback is obtained from the students regarding the training.
- Taking necessary actions about the feedback given by the students who underwent training.

List of Internship

Roll No.	Regd No.	Name	Internship	Name Of Industry
2010001	2001387921	Alok Kumar Parasar	Internship	Hansa Vahan India Pvt Ltd
2010002	2001387922	Amaresh Prasad Behera	Internship	Om Tatbros Pvt. Ltd, Bhilwal
2010003	2001387923	Ankit Kumar Singh	Internship	Odisha Mining Corporation, Kalagani
2010004	2001387924	Anshuli Mohanty	Internship	Om Tatbros Pvt. Ltd,Bhilwal
2010005	2001387931	Ashwini Kumar Badaik	Internship	Tata Cummins
2010006	2001387925	Chandan Biswal	Internship	Crc Bhubaneswar
2010007	2001387926	Debidatta Maharana	Internship	Maa Sponge Iron Limited
2010008	2001387925	Gourab Barda	Internship	Diesel Loco Shed , Kurla
2010010	2001387926	Jayashree Samal	Internship	Adani Renewables
2010011	2001387927	Jyoti Prakash Swain	Internship	Adani Renewables
2010012	2001387927	Kashab Chandra Panda	Internship	Hml, Duburi
2010073	2001387945	Rahul Maharana	Internship	Hml, Duburi
2010048	2001387960	Gyanaranjan Panda	Internship	Hml, Duburi
2110049	2101387922	Pallavi Pani	Internship	Hml, Duburi
2110050	2101387926	Prabhudatta Mishra	Internship	Om Tatbros Pvt. Ltd,Bhilwal
2110051	2101387927	Prakash Mahato	Internship	Adani Solar
2110052	2101387955	Prasant Kumar Sahu	Internship	Crc Bhubaneswar
2110053	2101387929	Pratim Anand	Internship	Jindal Steel And Power
2110054	2101387960	Priyadarshi Biplab Kumar	Internship	Maa Sponge Iron Limited
2110055	2101387961	Purnima Sahoo	Internship	Hal Koraput
2110056	2101387962	Rahul Maharana	Internship	Crc Bhubaneswar
2110057	2101387963	Rajesh Kumar Pradhan	Internship	Crc Bhubaneswar
2110058	2101387964	Rajsekhar Mallick	Internship	Crc Bhubaneswar
2110059	2101387965	Rakesh Ranjan Dash	Internship	Accord India Limited, Lucknow
2110060	2101387966	Ranvir Kumar	Internship	Hal ,Koraput
2110061	2101387967	Rituraj Naag	Internship	Crc Bhubaneswar
2110062	2101387968	Samarjeet Barik	Internship	Crc Bhubaneswar
2110063	2101387969	Sanchayan Pal	Internship	Crc , Bhubaneswar
2110064	2101387970	Sarit Kumar	Internship	Diesel Loco Shed , Kurla
2110065	2101387971	Samrat Kumar Jena	Internship	Diesel Loco Shed , Kurla
2110066	2101387972	Sasmita Das	Internship	Diesel Loco Shed , Kurla
2110067	2101387973	Satyabrata Sahu	Internship	Diesel Loco Shed , Kurla

2110268	210128 75	Satyajit Mohapatra	Internship	Windcare Pvt Ltd
2110269	210128 75	Saurav ranjan Mohapatra	Internship	Diesel Loco Shed , Kurla
2110270	210128 76	Shilpa Behera	Internship	Jindal Steel and Power
2110271	210128 77	Sidharth Sankar Sallandingh	Internship	Ctc Bhubaneswar
2110272	210128 78	Soman Biswal	Internship	Jindal Steel and Power
2110273	210128 78	Soumit Kumar Rath	Internship	Hal , Koraput
2110274	210128 80	Sourav Sahu	Internship	Orissa Mining Corporation, Kalliapani
2110275	210128 81	Sri Krishna Mahato	Internship	CH Tattoos Pvt. Ltd Bhinval
2110276	210128 80	Subhasree Sahoo	Internship	Ctc Bhubaneswar
2110277	210128 83	Sunny Shekhar Sinha	Internship	Hanss Vahan India Pvt Ltd
2110278	210128 84	Sushree Satali Mishra	Internship	Maj Spong Iron Limited
2110279	210128 85	Vikash Kumar Jaiswal	Internship	Diesel Loco Shed , Kurla
2110280	210128 86	Santosh Kumar Sahoo	Internship	Windcare Pvt Ltd
2010001	220128 81	Samrat Roy Choudhury	Internship	Diesel Loco Shed , Kurla
2010002	220128 82	Satyam Kanungo	Internship	Jindal Steel and Power
2010003	220128 82	Alok Pradhan	Internship	Ctc Bhubaneswar
2010004	220128 83	Sanket Kumar Nayak	Internship	Jindal Steel and Power
2010005	220128 84	Shankar Gouda	Internship	Hal , Koraput
2010006	220128 05	Bhola Nath Pandey	Internship	Orissa Mining Corporation, Kalliapani
2010007	220128 33	Biswajit Dalei	Internship	CH Tattoos Pvt. Ltd Bhinval
2010008	220128 29	Rajesh Kumar Behera	Internship	Ctc Bhubaneswar
2010009	220128 80	Rakesh Kumar Parida	Internship	Hanss Vahan India Pvt Ltd
2010010	220128 47	Subhajit Pal	Internship	Maj Spong Iron Limited
2010011	220128 67	Jitendra Pradhan	Internship	Ctc Bhubaneswar
2010012	220128 36	Milan Sahu	Internship	Maj Spong Iron Limited
2010013	220128 66	Sonaram Malik	Internship	Diesel Loco Shed , Kurla
2010014	220128 36	Debasish Malik	Internship	Windcare Pvt Ltd
2010015	220128 33	Liman Mohapatra	Internship	Diesel Loco Shed , Kurla
2010016	220128 65	Shiv Ranjan Gupta	Internship	Jindal Steel and Power
2010017	220128 34	Jod Singh	Internship	Ctc Bhubaneswar

2 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Define the Program specific outcomes

PSO1	To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.
PSO2	To enable the students to take up career in industries or to pursue higher studies in mechanical and interdisciplinary programs.
PSO3	To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.

2.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)

No. of Core Courses : 9	C3 : 1	C3 : 3	C4 : 3

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

Course Name :	C3 11	Course Year :	2021-2022

Course Name	Statements
C3 11.1	Apply the principles of solid mechanics, to determine the behaviour of components for applied load
C3 11.2	Compute the shear force and bending moment for different types of beams with various load condition and sketch the SF and BM diagram.
C3 11.3	Calculate the strain energy, stress distribution & deformation in spring and shaft.
C3 11.4	Use the appropriate method to determine slope and beam deflection for different beam sections.
C3 11.5	Solve the problem in principal planes & stresses using analytical& graphical method and determine the different types of stresses in-volved in thick cylinders & thin cylinders.

Course Name :	C3 12	Course Year :	2021-2022

Course Name	Statements
C3 12.1	Express the mechanism of tooth profile, interference and undercutting.
C3 12.2	Evaluate the gyroscopic effect in engineering systems and incorporate stabilization in it.
C3 12.3	Demonstrate the dynamics of different types of governor and express different important governor technologies.
C3 12.4	Implement the concept of balancing in unbalanced engineering systems to balance it and be able to analyse and design cam and follower mechanisms for a given motion or a given input output motion or force relationship
C3 12.5	Develop a sense and apply the knowledge about basics of vibration and critical speeds with respect to machine dynamics in engineering systems.

Course Name :	C3 13	Course Year :	2021-2022

Course Name	Statements
C3 13.1	Apply the principle of solid mechanics to design machine member under variable loading.
C3 13.2	Calculate the diameter of shafts based on strength, rigidity and design various types of coupling based on application.
C3 13.3	Calculate the diameter of shafts based on strength, rigidity and design various types of coupling based on application.
C3 13.4	Calculate the design parameter for energy storage element and engine components.
C3 13.5	Calculate the design parameters of various types of bearings.

Course Name :	C3 14	Course Year :	2021-2022

Course Name	Statements
C3 14.1	Explain the principle of refrigeration, cycles, properties, and its environment effects.
C3 14.2	Explain vapour compression systems and different processes, equipment.
C3 14.3	Explain vapour compression systems and different processes, equipment.
C3 14.4	Discuss psychometric properties and processes, and air conditioning process.
C3 14.5	Estimate cooling load factor, winter and summer air conditioning load and human comfort condition.

Course Name :	C4 21	Course Year :	2021-2022

Course Name	Statements
C4 21.1	Analyse steady & unsteady heat transfer in composite systems with & without heat generation and extended surfaces.
C4 21.2	Calculate free and forced convection heat transfer in external and internal flows.
C4 21.3	Describe film wise & drop wise condensation, pool & flow boiling and analyse heat exchanger using LMTD and NTU approaches.
C4 21.4	Analyse radiation heat transfer between surfaces using shape factor algebra.
C4 21.5	Analyse diffusion,convection,mass transfer,occurring in different applications.

Course Name :	C4 22	Course Year :	2021-2022

Course Name	Statements
C4 22.1	Differentiate between Entrepreneur and Intrapreneur and appraise the importance of entrepreneurship in economic growth.
C4 22.2	Justify the need, objectives of Entrepreneurship Development Programs.
C4 22.3	Appraise the steps involved in setting up a business and business project reports.
C4 22.4	Justify the need of financing and accounting.
C4 22.5	Examine the government policy and assistance for the entrepreneur.

Course Articulation Matrix

1. course name : C311

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	Apply the p	3	3	3	3	3	-	-	-	3	-	-	3
C311.2	Compute th	3	3	3	3	3	-	-	-	3	-	-	3
C311.3	Calculate th	3	3	3	3	3	-	-	-	3	-	-	3
C311.4	Use the ap	3	3	3	3	3	-	-	-	3	-	-	3
C311.5	Solve the p	3	3	3	3	3	-	-	-	3	-	-	3
Average		3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00

2. course name : C303

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	Express the	3	3	3	3	3	-	-	-	-	-	-	3
C303.2	Evaluate th	3	3	3	3	3	-	-	-	-	-	-	3
C303.3	Demonstra	3	3	3	3	3	-	-	-	-	-	-	3
C303.4	Implement	3	3	3	3	3	-	-	-	-	-	-	3
C303.5	Develop a r	3	3	3	3	3	-	-	-	-	-	-	3
Average		3.40	3.40	3.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.40

3. course name : C309

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	Apply the p	3	3	3	3	3	3	-	-	-	-	-	3
C309.2	Calculate th	3	3	3	3	3	3	-	-	-	-	-	3
C309.3	Calculate th	3	3	3	3	3	3	-	-	-	-	-	3
C309.4	Calculate th	3	3	3	3	3	3	-	-	-	-	-	3
C309.5	Calculate th	3	3	3	3	3	3	-	-	-	-	-	3
Average		3.00	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	3.00

4. course name : C310

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	Explain the	3	3	-	3	-	3	-	-	3	-	-	3
C310.2	Explain op	3	3	-	3	-	3	-	-	3	-	-	3
C310.3	Explain op	3	3	-	3	-	3	-	-	3	-	-	3
C310.4	Discuss pa	3	3	-	3	-	3	-	-	3	-	-	3
C310.5	Estimate o	3	3	-	3	-	3	-	-	3	-	-	3
Average		3.00	3.00	0.00	3.00	0.00	3.00	0.00	0.00	3.00	0.00	0.00	3.00

5. course name : C101

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	Analyse ba	3	3	3	3	1	-	-	-	-	-	-	3
C101.2	Calculate fl	3	3	3	3	3	-	-	-	-	-	-	3
C101.3	Describe fl	3	3	3	3	1	-	-	-	-	-	-	3
C101.4	Analyse ba	3	3	3	3	1	-	-	-	-	-	-	3
C101.5	Analyse dif	3	3	3	2	3	-	-	-	-	-	-	3
Average		3.00	3.00	3.00	2.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	3.00

6. course name : C102

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	Differentiat	3	3	3	3	1	3	3	-	3	-	-	3
C102.2	Justify the	3	3	3	3	3	3	3	-	1	-	-	3
C102.3	Appraise th	3	3	3	3	1	3	1	-	1	-	-	3
C102.4	Justify the	3	3	3	3	3	3	1	-	1	-	-	3
C102.5	Examine th	3	3	3	3	3	3	1	-	2	-	-	3
Average		3.00	3.00	3.00	3.00	2.20	3.00	1.80	0.00	1.60	0.00	0.00	3.00

1. Course Name : C211

Course	PSO1	PSO2	PSO3
C211.1	3	3	-
C211.2	3	3	-
C211.3	3	3	-
C211.4	3	3	-
C211.5	3	3	-
Average	3.00	3.00	0.00

2. Course Name : C202

Course	PSO1	PSO2	PSO3
C202.1	3	3	-
C202.2	3	3	-
C202.3	3	3	-
C202.4	3	3	-
C202.5	3	3	-
Average	3.00	3.00	0.00

3. Course Name : C206

Course	PSO1	PSO2	PSO3
C206.1	3	3	-
C206.2	3	3	-
C206.3	3	3	-
C206.4	3	3	-
C206.5	3	3	-
Average	3.00	3.00	0.00

4. Course Name : C210

Course	PSO1	PSO2	PSO3
C210.1	3	3	-
C210.2	3	3	-
C210.3	3	3	-
C210.4	3	3	-
C210.5	3	3	-
Average	3.00	3.00	0.00

5. Course Name : C101

Course	PSO1	PSO2	PSO3
C101.1	3	3	-
C101.2	3	3	-
C101.3	3	3	-
C101.4	3	3	-
C101.5	3	3	-
Average	3.00	3.00	0.00

6. Course Name : C102

Course	PSO1	PSO2	PSO3
C102.1	-	3	3
C102.2	-	3	3
C102.3	-	3	3
C102.4	-	3	3
C102.5	-	3	3
Average	0.00	3.00	3.00

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21BTT02	2.2	1	2.4	2.2	1.8	0	0	0	0	0	3.0	1.8
21BTT03	2.6	2.0	2.2	3	1.4	0	0	0	0	0	0	2.2
21BTT04	2.6	2.6	2.4	2.2	3	0	0	0	0	0	0	2
21BTT05	2.6	2.6	2.6	2.4	2.4	0	1.2	0	0	0	0	2.6
21BTT07	1.2	1	2.2	1.4	2.6	0	0	0	0	0	1.6	2.4
21BTT08	1.2	1.2	2.2	1.2	2.2	2.2	1.2	0	2.2	0	0	0
21BTT09	2.2	0	0	0	0	0	0	0	0	0	0	0
21BTT10	0	2.6	1.6	2.6	0	0	0	0	0	0	0	0
21BTT11	0	0	0	0	0	0	0	0	0	0	0	0
21BTT12	0	0	0	0	0	1	1	0	0	0	0	0
21BTT13	1	0	1	0	0	0	0	0	0	0	0	0
21BTT14	1	0	0	0	0	1	0	0	1	1	0	0
21BTT15	0	0	0	0	0	0	0	0	0	0	0	0
21BTT16	0	0	0	0	0	0	0	0	0	0	0	0
21BTT17	0	1	0	2.2	2.2	0	0	0	0	0	2.6	0
21BTT18	2.6	2.6	2.6	0	2.2	0	0	0	0	0	2.2	0
21BTT19	2.6	2.6	2.2	0	2.2	0	0	0	0	0	0	2.6
21BTT20	1.6	2.2	2.2	2.6	2.6	1	0	1.6	1	1.6	0	2.2
21BTT21	1	0	0	0	0	2.2	0	1	1.6	1.2	0	2.6
21BTT22	0	0	0	0	0	0	0	0	0	0	0	0
21BTT23	2.6	2.2	2.6	2.6	2.2	0	0	0	0	0	0	2.6
21BTT24	2.1	2.6	1.6	2.2	1.6	0	0	0	0	0	0	2.6
21BTT25	0	0	0	2.6	0	0	0	0	0	0	0	0
21BTT26	0	0	0	0	0	0	0	0	1	0	0	0
21BTT27	1.6	1.6	1.6	2.2	1.6	1.6	2.2	0	0	0	2.6	2.6
21BTT28	0	0	0	0	0	2.6	2.6	0	2.6	2.2	1.6	0
21BTT29	2.6	2.6	2.2	2.6	1.6	0	0	0	0	0	0	2.6
21BTT30	2.2	2.2	2.6	2.6	1.6	0	0	0	0	0	0	2.6
21BTT31	2.4	2.4	2.4	2.6	0	0	0	0	0	0	0	2.4
21BTT32	1.6	2.2	2.2	2.2	0	0	0	0	0	0	0	2.2
21BTT33	2.2	2.2	2.2	2.2	0	0	0	0	0	0	0	2.4
21BTT34	0	0	0	0	0	0	0	0	0	0	0	0
21BTT35	2.6	2.6	2.6	2.6	2.2	0	0	0	0	0	0	2.6
21BTT36	2.4	2.4	2.4	2.4	1.6	0	0	0	0	0	0	2.4
21BTT37	2.4	2.4	2.4	2.6	1.6	0	0	0	0	0	0	2.6
21BTT38	2.2	2.2	2	2	0	2	0	0	2.4	0	0	0
21BTT39	2.2	1.6	1.6	0	2.2	0	0	0	2.2	0	0	2.4
21BTT40	0	0	0	0	0	2.6	2.2	0	1.6	2.6	0	2.6
21BTT41	0	0	2.4	0	1.6	0	0	0	0	0	0	2.4
21BTT42	2.2	2.2	2.2	1.6	2.2	0	0	0	0	0	0	2.4
21BTT43	2.2	1.6	2.6	1.6	2.6	0	0	0	0	0	0	2.6
21BTT44	1.6	1.2	2.2	2.2	2.6	1.2	1.4	0	0	0	0	2.6
21BTT45	2.4	2.4	2.4	0	1.6	0	1.4	0	1.4	0	0	2.6
21BTT46	1.6	2.6	2.6	2.6	2.6	1.6	1.2	0	2.6	2.4	1.2	1.6
21BTT47	2.4	2.6	2.4	2.6	2.6	1.6	2.4	0	2.6	1.6	1.2	1.2
21BTT48	2.6	2.4	2.2	2.4	2.2	1.6	1.4	0	2.6	2.4	1.2	1.6
21BTT49	2.6	2.4	2.4	2.4	2.2	1.2	2.2	0	0	2.2	1.2	1.6
21BTT50	2.2	1.6	1.2	1.4	0	1.2	0	1.2	2.2	2.4	1.2	2.2
21BTT51	0	0	0	0	1.2	2.2	0	0	1.6	0	0	2.6
21BTT52	0	0	0	0	0	2.6	0	0	2.2	1.6	0	2.4
21BTT53	1.4	1.2	2.2	2.2	2.4	2.4	2.6	1.4	2.6	2.4	1.2	1.6
21BTT54	2.2	2.2	1.6	1.4	1.2	0	0	0	2.2	1.2	1.6	1.6
21BTT55	2.2	2.4	1.2	1.4	1.2	2.2	1.2	2.2	2.6	1.2	2.1	2.2
21BTT56	1.6	1.6	2.2	1.6	2.6	1.6	1.2	0	2.4	1.2	1.2	1.2
21BTT57	1.6	1.6	2.2	2.2	2.4	1.6	0	0	1.6	1.2	1.2	2.2
21BTT58	0	0	0	0	0	1.6	2.6	1.4	2.2	1.2	0	2.2
21BTT59	2.2	1.2	1.6	1.2	1.4	1.4	1.2	0	2.4	PO10	1.2	1.6
21BTT60	2.2	1.2	2.6	1.6	2.2	1.2	0	0	2.2	1.2	1.2	1.6
21BTT61	1.6	1.6	1.2	2.2	2.2	1.2	0	0	2.2	1.4	0	1.6
21BTT62	2.2	1.6	2	2.2	0	2.2	0	1.2	1.4	2.6	1.2	2.4
21BTT63	1.6	1.6	1.4	1.4	1.2	1.2	1.2	0	1.6	1.2	1.2	2.2
21BTT64	2.2	1.2	2	1.2	1.4	1.2	0	2.2	1.2	1.4	2.2	PO11
21BTT65	2.6	2.2	2.6	1.6	2.2	1.2	1.6	1.2	0	2.2	2.6	2.6
21BTT66	0	2.4	1.6	2.6	2.2	1.4	1.2	1.2	2.6	2.4	2.2	2.6
21BTT67	1.6	1.2	1.2	1.6	1.6	1.2	2.2	0	2.2	2.2	2	2.2
21BTT68	0	2.6	2.6	2.6	2.6	1.6	1.2	1.2	2.6	2.4	1.6	2.6
21BTT69	2.6	1.6	1.4	2.2	0	1.2	1.4	1.2	2.2	2.4	2.6	2.6

21BTMEF	2.2	2.4	2.6	2.4	1.8	1.2	2.4	2	2.6	1.2	1.4	2.2
21BTMEF	2.2	1.6	1.2	2.2	2.2	1.2	2	2	2.6	1.4	2	1.8
21BTMEF	1.2	0	2	2	1.8	1.2	1.2	2.2	1.8	2	1.2	2.4
21BTPES	1.6	1.8	1.2	2.2	1.6	2	2	2	2.2	1.2	2	1.6
21BTMEF	2.4	1.8	1.4	2	1.2	0	1.2	1.8	2.2	2.6	2	2.8
21BTMEF	2.2	1.8	1.8	1.4	1.2	0	2	0	1.8	2.2	0	1.8
21BTMEF	1.8	1.4	1.6	1.2	1.2	2	2	2	1.6	1.8	2	1.8
21BTMEF	2.8	1.4	1.2	1.4	1.2	1.4	1.2	1.2	1.2	2.8	1.4	2.8
21BTMEF	2.8	2.6	2.6	2.4	1.8	1.2	1.8	2	2.6	1.8	2.6	2.4
21BTMEF	2.8	1.4	2	1.2	2	1.4	2	1.8	0	2.8	1.2	2.4
21BTMEF	2.8	2.4	2.6	2.4	2.4	1.8	1.2	1.2	2.6	2.8	2.4	2.4
21BTMEF	2.8	2.8	2.8	2.8	2.6	2	1.4	1.2	2.6	2.8	2.6	PO12
21BTMEF	2.8	1.2	2	2	0	1.2	2	1.4	0	2.8	1.2	2.8

Course	PSO1	PSO2	PSO3
21BTMEF	2.24	2.13	2.24
21BTMEF	1.13	2.03	1.39
21BTMEF	1.16	2.03	2.24
21BTMEF	2.03	2.66	1.80
21BTMEF	2.13	2.24	1.66
21BTMEF	2.24	2.03	2.0
21BTMEF	1.66	1.34	1.80
21BTMEF	1.80	2.03	2.60
21BTMEF	2.03	2.24	2.0
21BTMEF	2.66	2.60	1.66
21BTMEF	1.66	2.03	1.80
21BTMEF	2.03	2.24	2.0
21BTMEF	2.13	1.66	2.13
21BTMEF	2.03	2.13	1.43
21BTMEF	1.34	1.34	2.03
21BTMEF	2.03	1.80	2.24
21BTMEF	2.24	1.66	2.60
21BTMEF	1.33	2.03	1.66
21BTMEF	1.66	1.34	2.24
21BTMEF	1.66	1.03	2.03
21BTMEF	1.34	1.34	1.40
21BTMET	1.66	1.30	0
21BTMET	1.44	1.03	1.21
21BTMET	1.66	1.39	0
21BTMET	2.13	2.13	0
21BTMET	1.80	1.66	0
21BTMET	2.13	1.66	0
21BTMET	2.03	1.66	0
21BTMET	1.66	2.13	0
21BTMET	1.30	2.13	1.66
21BTMET	1.66	2.24	0
21BTMET	2.27	1.66	0
21BTMET	2.24	2.03	0
21BTMET	2.13	1.66	0
21BTMET	1.79	2.43	0
21BTMET	1.66	1.66	0
21BTMET	1.66	1.80	0
21BTMET	2.24	1.66	0
21BTMET	2.03	1.66	1.13
21BTMET	1.80	1.84	0
21BTMET	1.79	1.66	0
21BTMET	2.21	1.24	0
21BTPES	1.8	1.4	1.8
21BTPES	1.2	1.10	1.16
21BTPES	2.24	1.24	1.12
21BTPES	2.03	2.13	0
21BTPES	1.13	1.14	2.24
21BTPES	0	0	1.8
21BTPES	1.39	1.43	1.13
21BTPES	1.13	1.14	2.03
21BTPES	2.13	2.03	2.24
21BTPES	0	0	1.13
21BTPES	0	0	1.16
21BTPES	1.39	1.33	1.44

21BTP43	0	0	2.2
21BTP47	0	0	1.8
21BTP47	0	0	1.33
21BTP53	1.11	1.56	0
21BTP53	1.44	1.33	0
21BTP53	1.44	1.56	0
21BTP53	2.22	2.12	0
21BTP53	1.33	2.12	1.33
21BTP53	1.33	2.12	1.12
21BTP53	2.33	2.12	0
21BTP53	1.33	2.22	0
21BTP53	1.73	1.44	0
21BTP53	1.33	1.33	0
21BTP53	2.12	2.33	0
21BTP53	2.56	2.11	0
21BTP53	1.56	1.34	0
21BTP53	2.12	1.56	0
21BTP43	0	0	2.2
21BTP43	2.34	2.29	0
21BTP43	0	2.12	1.56
21BTP43	0	2.21	2.34
21BTP43	2.21	2.22	1.56
21BTP47	0	1.56	1.34
21BTP47	0	2.12	2.12
21BTP47	0	1.12	2.12

2.2 Attainment of Course Outcomes (Y2)

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

Assessment Pattern	
Assessment Type	Assessment Tool
Direct Assessment	1. Mid-Sem Examination (25 Marks) 2. Quiz: 5 marks 3. Assignment: 5 Marks 4. Surprise Test: 5 Total Internal Assessment = 40 Marks
	End Semester Examination: 60 Marks
Indirect Assessment	Course End Semester Feedback

Composition of Direct CO assessment in the Course:
40% of Internal Examination assessment + 60 % of End Semester Exam assessment

Composition of Overall CO assessment in the Course:
88 % of Direct CO assessment + 20 % of Indirect CO assessment

CO Assessment Target Levels

Direct Assessment

Assessment Methods	Attainment Levels	
1. Mid-Sem Exam: 25 Marks 2. Quiz:05 Marks 3. Assignment:05 Marks 4. Surprise Test: 05 Marks	Threshold Value: For Quiz (2) +Assignment (2) + Surprise Test (2) + Mid-Sem Exam(12): 60% of total mark i.e. ≥ 15 Marks	
	Level 1	60 – 70 % of students scoring more than 6 marks in Quiz + Assignment
	Level 2	60 – 80 % of students scoring more than 6 marks in Quiz + Assignment
	Level 3	>= 80 % of students scoring more than 6 marks in Quiz + Assignment
MID Exam: Internal Exam (CO Based) = 15	For Internal Exam (15): Question wise threshold value is 60 % of respective question marks i.e., (0.6*3 = 2 Marks)	
	Level 1	60 – 70 % of students scoring more than 2 marks question CO wise (60% of 3 marks is 2) out of the maximum 3 marks
	Level 2	60 – 80 % of students scoring more than 2 marks question CO wise (60% of 3 marks is 2) out of the maximum 3 marks
	Level 3	>= 80 % of students scoring more than 2 marks question CO wise (60% of 3 marks is 2) out of the maximum 3 marks
End Semester Exam (CE)	Level 1	More Than 20 % of student scoring more than 70 %marks in End Exam (70 % of 100 mar is more than 70marks in End Exam)
	Level 2	More Than 60 % of student scoring more than 70 %marks in End Exam (70 % of 100 mar is more than 70marks in End Exam)
	Level 3	More Than 70 % of student scoring more than 70 %marks in End Exam (70 % of 100 mar is more than 70marks in End Exam)

Indirect Assessment

At the end of the course CO wise feedback is taken from the student. The student put level 1, level 2 or level 3 as per their understanding of that particular CO.

After collecting the feedback from the students, the CO attainment is calculated from the formula mentioned below:

Attainment of COs in a course = ((Level 1 x Number of student opted) + (Level 2 x Number of student opted) +(Level 3x Number of student opted)) /Total Number of students

Overall CO Attainment

The overall CO attainment is calculated by considering 80% of CO form direct attainment and 10% of CO form indirect attainment for a particular subject.

Overall CO =(0.8*DA) + (0.1*IDA)

Outcome Based Education (Implementation Framework):

1. Define Outcomes: PEOs, POs, PSOs, and COs.

2. Design Curriculum: Align courses with outcomes.
3. Deliver Instruction: Use active learning methods.
4. Assess Outcomes: Continuous evaluation through exams, projects, etc.
5. Evaluate and Improve: Use feedback for continuous improvement.
Assessment and Evaluation in OBE:

Tools:

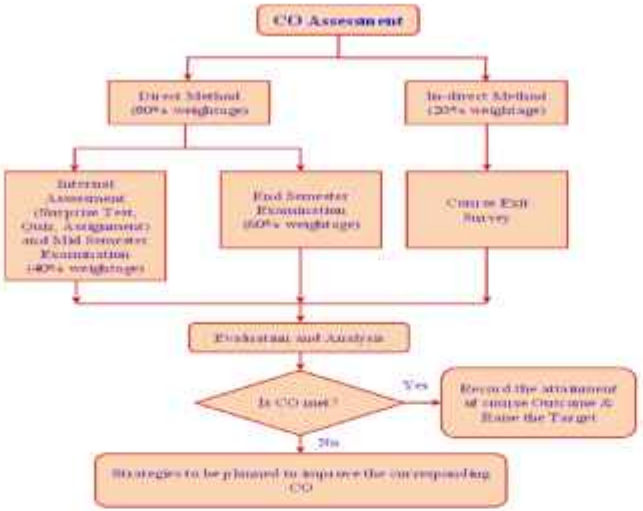
- Direct assessment: Exams, assignments, projects, presentations.
- Indirect assessment: Surveys, feedback, alumni reporting.

Rubrics: Clear criteria for measuring outcomes and setting target levels for attainment.

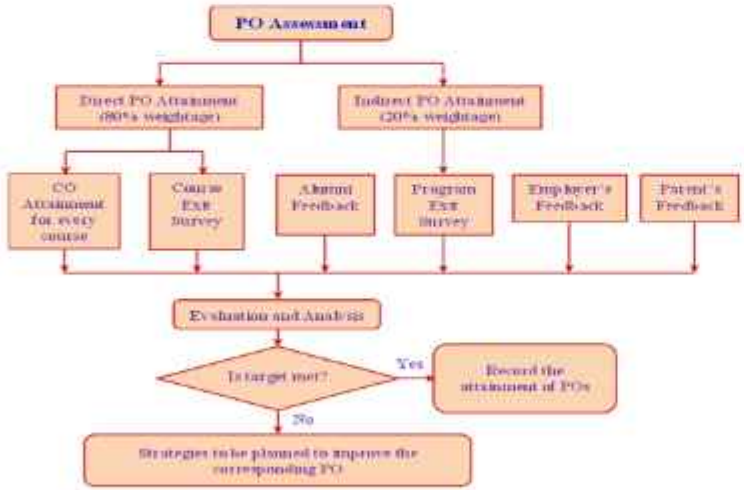
Continuous Improvement: Use assessment data to refine curriculum and teaching methods.

The various assessment tools to measure the student learning and the course outcomes can be described by the following diagrammatical representations:

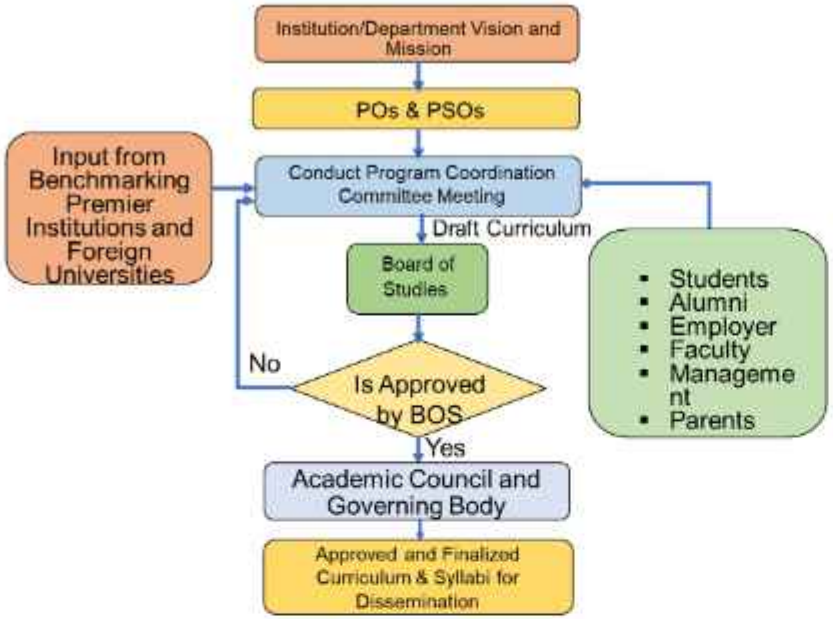
Attainment of Course Outcome



Attainment of Program Outcome



Curriculum and Syllabi



2.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (60

CO attainment Sheet:

GITA Autonomous College, Bhubaneswar (Affiliated to BPUT, Odisha)

Department of Mechanical Engineering

Course Assessment

Course Name: Machine Dynamics-II

Faculty Name: Prof. Amit Singh Dehury

Course Code: [illegible]

Session: 2022-23

Semester: 6th Semester

B.Tech Mechanical Engineering

Internal Examination-1: Surprise Test (Weightage=5); Quiz (Weightage=5); Assignment (Weightage=5)

Internal Examination-2 (Weightage=20): Mid Semester (Students have to answer any eight from Q.1, any three from Q.2 and any two from Part-II)

Attainment from Internal Exam

End Semester Exam

S.No	REGD. NO	Name	Surprise Test 1–10, TOTAL	Quiz 1–10, TOTAL	Assignment 1–5, TOTAL	Mid Semester 1a–1j, 2a–2f, 3a–3b, TOTAL	CO1	CO2	CO3	CO4	CO5	CO1_Attainment	CO2_Attainment	CO3_Attainment	CO4_Attainment	CO5_Attainment	External GRADE	Equivalent Mark	Passed
		Maximum Marks	[illegible]	[illegible]	[illegible]	[illegible]	12	8	7.5	3	3	19.83	8.1	8.4	2.1	2.1			
		CO	[illegible]	[illegible]	[illegible]	[illegible]													
1	[illegible]	ALOK KUMAR PARIDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
2	[illegible]	AMARESH PRASAD BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
3	[illegible]	ANKIT ARNAV SINGH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
4	[illegible]	ANSHUJIT MOHANTY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
5	[illegible]	ASHWINI KUMAR SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
6	[illegible]	CHANDAN BISWAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
7	[illegible]	DEBADATTA MAHARANA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
8	[illegible]	GOURAB SENDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
9	[illegible]	JAYASHREE SAHAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
10	[illegible]	JYOTI PRAKASH SWAIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
11	[illegible]	KESHAB CHANDRA PARIDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
12	[illegible]	KRITIK KUMAR PURUSHAT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
13	[illegible]	KUNAL PATRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
14	[illegible]	MANAS JENA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
15	[illegible]	MD IRSHAD ALAM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	8	73
16	[illegible]	MOHIT KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
17	[illegible]	NAMIT MIRAJ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
18	[illegible]	NITYASHREE RANJAN SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
19	[illegible]	OM PRAKASH DAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
20	[illegible]	PRADIPTA KUMAR SEJ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
21	[illegible]	PRATYUSH KUMAR BAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
22	[illegible]	PRASANJAN JAGATI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
23	[illegible]	PRIYABRATA SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
24	[illegible]	RAKESH KUMAR SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
25	[illegible]	RAKESH SETHY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
26	[illegible]	SAPTADAL PAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
27	[illegible]	SATYAJEET PATRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
28	[illegible]	SAURABH KUMAR DWIVEDI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
29	[illegible]	SHADAB NAIK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	8	73
30	[illegible]	SONIYA SUBHAM SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	8	73
31	[illegible]	SUBRATA PRADHAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
32	[illegible]	SWAPNA SAGAR BARAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
33	[illegible]	TANDRAJIT BARIK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
34	[illegible]	NAMAN KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
35	[illegible]	ABHIJIT PANDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
36	[illegible]	ABHIMANYU SAH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
37	[illegible]	ABHINANDAN KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	8	73
38	[illegible]	ABHISHEK BISOI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
39	[illegible]	ABINASH SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
40	[illegible]	AKANKSHYA MANSINGH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
41	[illegible]	AMIT KUMAR MARNDI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
42	[illegible]	[Image] AMIT SAGAR NAYAK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
43	[illegible]	AMITA BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	O	10	65
44	[illegible]	ARAPRITA SAMAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
45	[illegible]	BISWARANJAN PARIDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
46	[illegible]	BISWARANJAN SAHU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
47	[illegible]	DEBABRATA SWAIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
48	[illegible]	DEBASHISH DALAI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
49	[illegible]	DEEPAK MOHAPATRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
50	[illegible]	DIPANWITA PANI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
51	[illegible]	DULARI MURMU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65
52	[illegible]	GOPAL KUMAR ROY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	73
53	[illegible]	GOURAB GOSWAMI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E	9	65

Sl No	Regd No	Name	Question-wise marks and totals
54	[illegible]	JAYANT KUMAR	[illegible]
55	[illegible]	JAYA RANJAN MOHAPATRA	[illegible]
56	[illegible]	KONA [illegible]	[illegible]
57	[illegible]	[illegible] LIPSA PRIYADARSHINI	[illegible]
58	[illegible]	MANISH MOHANTY	[illegible]
59	[illegible]	MANOJ RANJAN MISHRA	[illegible]
60	[illegible]	MUNNA KUMAR	[illegible]
61	[illegible]	NARENDRA BEHERA	[illegible]
62	[illegible]	PALLAVI PATRO	[illegible]
63	[illegible]	PRABHUDATTA MISHRA	[illegible]
64	[illegible]	PRAKASH MAHATO	[illegible]
65	[illegible]	PRASANT KUMAR SAHU	[illegible]
66	[illegible]	PRATIK ANAND	[illegible]
67	[illegible]	PRIYADARSHI BIPLAB KUMAR	[illegible]
68	[illegible]	PURNIMA SAHOO	[illegible]
69	[illegible]	RAHUL MOHANTA	[illegible]
70	[illegible]	RAJESH KUMAR PRADHAN	[illegible]
71	[illegible]	[illegible]	[illegible]
72	[illegible]	JYOTIRANJAN DAS	[illegible]
73	[illegible]	SAMBIT KUMAR MOHAPATRA	[illegible]
74	[illegible]	DINESH KUMAR [illegible]	[illegible]
75	[illegible]	ASIF AKHTAR	[illegible]
76	[illegible]	HIMANSHU KUMAR	[illegible]
77	[illegible]	SUJIT KUMAR MEHER	[illegible]
78	[illegible]	RUPESH BALLAV SAHOO	[illegible]
79	[illegible]	[illegible]	[illegible]
80	[illegible]	SOUMYA KUMAR SAHU	[illegible]
81	[illegible]	PRABUDDHA JENA	[illegible]
82	[illegible]	SUBHENDU KUMAR NANDA	[illegible]
83	[illegible]	ASHUTOSH SATAPATHY	[illegible]
84	[illegible]	URJANA RAKESH	[illegible]
85	[illegible]	D RAMA KRISHNA	[illegible]
86	[illegible]	[illegible] MISHRA	[illegible]
87	[illegible]	[illegible] MOHAN KUMAR	[illegible]
88	[illegible]	[illegible]	[illegible]
89	[illegible]	LOLUP NAYAK	[illegible]
90	[illegible]	RANJAN KUMAR PARIDA	[illegible]
91	[illegible]	SANDHYA PRIYADARSHI	[illegible]
92	[illegible]	[illegible]	[illegible]
93	[illegible]	[illegible]	[illegible]
94	[illegible]	SOUMYA RANJAN BEHERA	[illegible]
95	[illegible]	M VARUN	[illegible]
Average Mark			[illegible]
Last 3 Years Average = 70% (Target)			[illegible]
Students Scored Above Target mark			[illegible]
No. of Students Attempted the Question			[illegible]
% Students Scored Above Target Mark			[illegible]
Attainment Level			[illegible]

Attainment of CO	Internal	External	Overall Attainment (Direct)
CO1	[illegible]	[illegible]	[illegible]
CO2	[illegible]	[illegible]	[illegible]
CO3	[illegible]	[illegible]	[illegible]
CO4	[illegible]	[illegible]	[illegible]
CO5	[illegible]	[illegible]	[illegible]

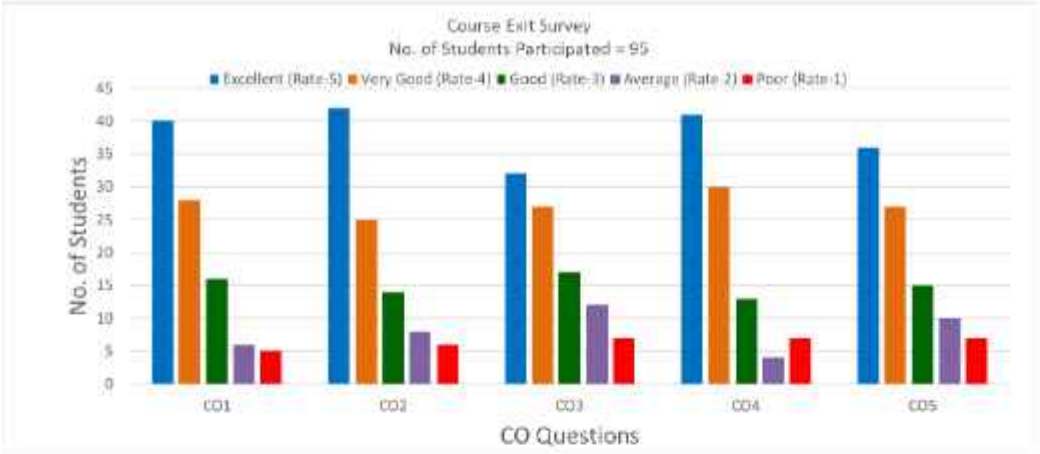
CO attainment Indirect

Sl No	Regd No	CO1	CO2	CO3	CO4	CO5
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

25	[illegible]	3	3	0	3	3
26	[illegible]	3	3	3	3	0
27	[illegible]	3	3	3	3	3
28	[illegible]	3	3	3	3	1
29	[illegible]	3	3	2	3	3
30	[illegible]	2	3	3	3	3
31	[illegible]	3	3	3	3	3
32	[illegible]	1	3	3	3	3
33	[illegible]	3	3	3	3	3
34	[illegible]	3	3	3	3	3
35	[illegible]	3	3	3	3	3
36	[illegible]	2	2	1	3	2
37	[illegible]	3	3	3	3	3
38	[illegible]	3	3	2	3	2
39	[illegible]	3	3	3	3	3
40	[illegible]	3	3	3	3	3
41	[illegible]	3	3	3	3	3
42	[illegible]	2	3	2	3	3
43	[illegible]	3	3	3	3	3
44	[illegible]	3	3	3	3	3
45	[illegible]	3	0	2	3	3
46	[illegible]	3	3	3	3	3
47	[illegible]	3	3	2	3	2
48	[illegible]	2	3	2	3	3
49	[illegible]	3	3	3	3	3
50	[illegible]	3	3	3	3	3
51	[illegible]	0	3	2	3	3
52	[illegible]	3	3	3	3	3
53	[illegible]	3	3	2	3	3
54	[illegible]	3	2	2	3	3
55	[illegible]	3	3	1	3	0
56	[illegible]	3	3	3	3	3
57	[illegible]	3	3	3	3	3
58	[illegible]	3	3	1	3	2
59	[illegible]	3	3	2	3	2
60	[illegible]	2	1	2	3	3
61	[illegible]	3	1	3	3	3
62	[illegible]	3	3	3	3	3
63	[illegible]	3	3	3	3	0
64	[illegible]	3	1	3	3	3
65	[illegible]	3	3	3	3	3
66	[illegible]	2	3	3	3	1
67	[illegible]	3	3	3	3	3
68	[illegible]	3	3	3	3	3
69	[illegible]	2	3	3	3	3
70	[illegible]	3	3	2	3	3
71	[illegible]	3	3	2	3	3
72	[illegible]	2	3	1	3	3
73	[illegible]	3	3	3	3	3
74	[illegible]	3	3	3	3	3
75	[illegible]	2	3	3	3	1
76	[illegible]	3	1	3	3	3
77	[illegible]	3	1	2	3	3
78	[illegible]	2	2	2	3	3
79	[illegible]	3	3	3	3	0
80	[illegible]	3	1	3	3	3
81	[illegible]	3	3	2	3	3
82	[illegible]	3	3	3	3	1
83	[illegible]	3	3	2	3	3
84	[illegible]	2	2	2	3	3
85	[illegible]	3	3	3	3	3
86	[illegible]	3	3	0	3	3
87	[illegible]	3	3	3	3	3
88	[illegible]	3	3	1	3	3
89	[illegible]	3	3	2	3	3
90	[illegible]	2	3	2	3	3
91	[illegible]	3	3	3	3	1
92	[illegible]	3	2	3	3	3
93	[illegible]	2	3	3	3	3
94	[illegible]	3	3	2	3	3
95	[illegible]	3	3	3	3	3
	Average	2.79	2.65	2.48	2.91	2.91
	Overall Average	2.66				
	Rate-5	0.00				
	Rate-4	0.00				
	Rate-3	0.00				
	Rate-2	1.00				
	Rate-1	0.00				

Summary of Course Exit Survey

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	40	28	16	8	3	95
CO2	40	26	14	6	9	95
CO3	30	37	17	10	1	95
CO4	41	30	13	4	7	95
CO5	36	27	15	10	7	95


Course Exit Survey
No. of Students Participated = 95
Excellent (Rate-5)
Very Good (Rate-4)
Good (Rate-3)
Average (Rate-2)
Poor (Rate-1)
No. of Students
45
40
35
30
25
20
15
10
5
0
CO1
CO2
CO3
CO4
CO5
CO Questions

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

PO and PSO Assessment Process:

- PO/PSO assessment is done by giving 80% weight age to direct assessment and 20% weight age to indirect assessment.
- Direct assessment is based on CO attainment, the assessment process is discussed in the CO attainment section. Indirect assessment is done through program exit survey, alumni survey and employer survey. Program student's survey is given a 40%, employer and alumni survey are given a weight age of 30% each.

PO and PSO Assessment Tools:

The various direct and indirect assessment tools used to evaluate POs & PSOs and the frequency with which the assessment processes are carried out are listed in Table.

Assessment tools used for evaluation of PO and PSO attainment

Direct Measurement (80%weightage)	CO Assessment	Course	Assessment Tools	Frequency
		Theory	Mid-Term Evaluation	Once/course
			Quiz Test	Thrice/course
			Assignment	Weekly
			End Exam	Once/course
		Practical	Continuous Assessment (Report, Experimental)	Daily
			Viva/ Lab Exam (Viva, Vivas, Performance given experiment)	Once/lab course
		Project 1st semester	Mid-Term Evaluation	Once/course
			End-Term Evaluation	Once/course
		Project 2nd semester	Mid-Term Evaluation	Once/course
			End-Term Evaluation	Once/course
Indirect measurement(20%weightage)	Survey	End student Survey		Once in a year
		Employer Survey		Once in a year
		Alumni Survey		Once in a year
		Parent Survey		Once in a year

Quality / relevance of assessment tools and processes:

Direct Assessment Tools and Processes

Direct assessment tools are the CO attainment based, are used for the direct assessment of POs and PSOs. Initially, the attainment of each course outcome is determined as described in the CO attainment section. The CO attainment of all the course was calculated.

The attainment of each PO corresponding to a particular course is determined from the attainment values obtained for each course outcome related to that PO and the CO-PO mapping values. Similarly, the values of PSO attainment are also determined.

Direct PO Assessment:	Direct PSO Assessment:
Target PO (found from PO-CO Mapping)	Target PSO (found from PSO-CO Mapping)
CO (Attained: Calculated for Each course from Internal Exam + Quiz + Assignment + End Exam +Couse feedback)	CO (Attained (Calculated for Each course from Internal Exam + Quiz + Assignment + End Exam +Couse feedback)
(Attainment of PO a= (Target PO*CO (Attained))	(Attainment of PSOs = (Target PSO*CO (Attained))

The direct assessment of POs and PSOs of Design of Machine Element is given in Table.

CO-PO and PSO Mapping Matrix

Semester: 6													
Subject Name: Machine Design													
Subject Code: 21GTME7PC05A													
Sl. No	Course Outcomes									POs		PSOs	
CO1	To be able to understand fundamentals of design including material selection and axial assignment of rotating parts									PO1 PO2 PO3			
CO2	To be able to design various joints, screwed connections, shafts, keys and couplings									PO3			
CO3	To develop understanding of stress concentration and fatigue and apply the same									PO4		PSO1	
CO4	To be able to analyze levers, belt drives, pulleys, Fly wheels and hoisting machine elements									PO5 PO8 PO12		PSO3	
CO5	To develop an ability to design cranes and clutches												
CO-PO Matrices													
POs	Engineering knowledge	Problem analysis	Design development of solutions	Investigation of complex problems	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual and teamwork	Communication	Project management and finance	Life-long learning	
Sl. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	3	3	3	3	1	2	-	3	-	-	3	

CO5	3	3	3	3	3	1	-	-	3	-	-	3
CO3	3	3	3	3	3	1	-	-	3	-	-	3
CO4	3	3	3	3	3	1	-	-	3	-	-	3
CO2	3	3	3	1	3	1	-	-	3	-	-	3
Avg.	3	3.0	3	3	3.0	1	3	-	3	-	-	3

CO-PSO Matrices

PSO's	Engineering Skills and Knowledge	Higher Study and Research	Entrepreneur with Ethical & Social Value
Sr. No.	PSO1	PSO2	PSO3
CO1	3	3	-
CO2	3	3	-
CO3	3	3	-
CO4	3	3	-
CO5	3	3	-
Avg.	3	3.0	-

Direct PO Assessment for Machine Design (21BTMETPC609)

Course: 21BTMETPC609	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
Target POs (from Mapping)	3	3.0	3	3	3.0	1	3	-	3	-	-	
CO Attained in MD	2.09											
Attainment of POs (Target PO*CO Attained)/3	2.09	2.07	2.09	1.9	2.11	0.90	1.90		1.92			

Direct PSO Assessment for DME (21BTMETPC609)

PSOs	Target PSO	CO Attained	PSP Attainment (Target PSO*CO Attained)/3
PSO1	3	2.09	2.09
PSO2	3.0		2.1
PSO3	-		-

(Po attainment analysis for a specific subject for last three years(2021-2024))

Indirect Assessment Tools and Process:

Indirect assessment is done through program student survey, alumni survey and employer survey. Program student's survey is given a weightage of 40%, employer and alumni survey are given a weightage of 30% each.

a. Program Exit student Survey:

An exit survey is conducted for students who have graduated out of the department for that Year. The questionnaire format in the exit survey form is to evaluate the attainment of POs and PSOs.

Relation of POs with questionnaire

POs	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO10	PO11	PO12
Questions	Q.1	Q. 2	Q.3	Q. 4	Q.5	Q.6	Q. 7	Q.8	Q.10	Q.11	Q.12

Relation of PSOs with questionnaire

PSO	PSO1	PSO2	PSO3
Question	Q.9	Q.11	Q.12

- The questionnaire consists of 12 questions which is relevant for assessing each PO and PSO. The first 12 questions corresponds to the 12 POs and the remaining 3 questions are for PSOs. Each question is having 3 options, namely, extremely concerned and somewhat concerned, which is given marks 3, 2 and 1 respectively.
- The survey results are tabulated and the average values corresponding to each PO and PSO are calculated.

b. Employer Survey:

Feedback is taken at a frequency of once in two years from the employers who had given jobs to our graduates.

c. Alumni Survey:

Feedback is taken from alumni. The questionnaire format in the alumni survey form is to evaluate attainment of POs and PSOs.

c. Parent Survey

Feedback is taken from Parents. The questionnaire format in the parents survey form to evaluate attainment of POs and PSOs.

Indirect PO Assessment	Indirect PSO Assessment
Level of PO attainment is calculated from Current Final year Student Feedback.	Level of PSO attainment is calculated from Current Final year Student Feedback.
Level of PO attainment is calculated from Alumni Feedback.	Level of PSO attainment is calculated from Alumni Feedback.
Level of PO attainment is calculated from Employer Feedback.	Level of PSO attainment is calculated from Employer Feedback.
Level of PO attainment is calculated from Parents Feedback.	Level of PO attainment is calculated from Parents Feedback.
Indirect PO attainment = 10% of Current Student Feedback + 30% of Alumni Feedback + 10% of Employer Feedback+10% of Parents Feedback	Indirect PSO attainment = 10% of current Student Feedback+30% of Alumni Feedback+ 10% of Employer Feedback+10% of Parents Feedback

Indirect PO attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Exit Student	0.00	0.01	0.10	0.10	0.09	0.09	0.00	0.00	0.00	0.07	0.00	0.09
Alumni	0.17	1.67	0.11	0.17	0.11	0.03	0.17	0.10	0.00	0.00	0.09	0.10
Employer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parents	0.00	0.09	0.00	0.09	0.00	0.01	0.07	0.10	0.00	0.00	0.09	0.10
Current * 0.02+ Alumni * 0.03 +Employer *0.01+ Parent *0.02	0.02	0.08	0.11	0.09	0.02	0.01	0.07	0.09	0.00	0.10	0.03	0.10

Indirect PSO attainment

	PSO1	PSO2	PSO3
Exit Student	0.09	0.09	0.00
Alumni	0.09	0.09	0.03
Employer	0.00	0.00	0.00
Parent	0.09	0.00	0.00
Exit Student* 0.02+ Alumni * 0.03 +Employer * 0.01+Parent * 0.02	0.01	0.01	0.09

The assessment of Programme Outcomes and Programme Specific Outcomes are done by analyzing 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 out-going student's feedback are furnished below.

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:

(3 - Excellent, 2 - Very Good, 1 - Good, 0 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Outcome (PO)	Rating (1 to 3)
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:

(3 - Excellent, 2 - Very Good, 1 - Good, 0 - Satisfactory, 1 - Needs Improvement)

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 3)
1	To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.	

2	To enable the student to seek job career in industries or to pursue higher studies in mechanical and interdisciplinary programs.	
3	To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.	

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:

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

Sl. No.	Program Educational Objectives (PEO)	Rating (1 to 3)
1	Core Knowledge: Graduates will have a strong foundation in mathematics, science, 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, internships, 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:

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

Sl. No.	Program Outcome (PO)	Rating (1 to 3)
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 with our graduates, using the scale below:

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

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 3)
1	To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.	
2	To enable the student to seek job career in industries or to pursue higher studies in mechanical and interdisciplinary programs.	
3	To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.	

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)

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's Name (Optional): _____
Batch (Year of Graduation): _____
Enroll ID: _____

Section 1: Teaching-Learning and Academic Environment

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

(3 - Excellent, 2 - Very Good, 1 - Good, 0 - 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 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

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha)

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:

(3 - Excellent, 2 - Very Good, 1 - Good, 0 - 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 GITU Autonomous College, Bhubaneswar using the scale below:

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

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 3)
1	To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.	
2	To enable the student to take up career in industries or to pursue higher studies in mechanical and interdisciplinary programs.	
3	To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.	

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: _____

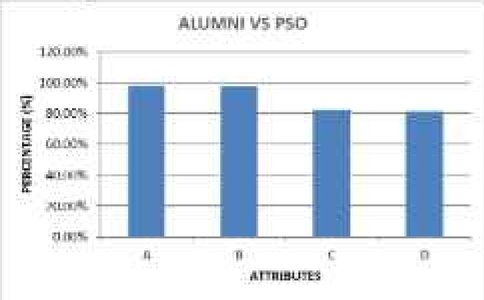
GITU Autonomous College, Bhubaneswar

PSO Analysis from Alumni Feedback

ALUMNI FEEDBACK ANALYSIS (2019-2023)

Sl. No.	Name of the Alumni	Graduate attributes from (i) to (l)			
		a	b	c	d
1	ANJAN BTTUPRUNGKU	3	3	3	3
2	ANJUNGN BEHERA	3	3	3	3
3	APOORVA DILEEP DUBE	3	3	3	3
4	BISWAJIT PRADHAN	3	3	3	3
5	BIKASPALI NAYAK	3	3	3	3
6	KRUSHNA CHANDRA PURJA	3	3	3	3
7	PRADEEP KUMAR MOHANTA	3	3	3	3
8	PURUSHOTTAM SINGH	3	3	3	3
9	ROHAN KUMAR ROUT	3	3	3	3
10	ROUNAK MISHRA	3	3	3	3
11	SITARAMJAM BAHU	3	3	3	3
12	SOURABH KUMAR THAKUR	3	3	3	3
13	SOURAV RANJAN ROUT	3	3	3	3
14	SUBHENDU NATH	3	3	3	3
15	SUBHRAJIT JENA	3	3	3	3
16	SUBHRANSHU SEKHAR SAHOO	3	3	3	3
17	SUMIT SAMANTARAY	3	3	3	3
18	SURYA PRAKASH SAHOO	3	3	3	3
19	SWOPNIL SOURAV PATRA	3	3	3	3
20	VEDANSH GUPTA	3	3	3	3
21	BHUSHKANT KUMAR VERMA	3	3	3	3
22	ASHIR AKHTAR	3	3	3	3
23	ABHILASH JHA	3	3	3	3
24	ABHIMANYU BARAL	3	3	3	3
25	ABHISHEK BANERJEE	3	3	3	3
26	ABHILSH MOHAPATRA	3	3	3	3
27	ABHISH KUMAR PRADHAN	3	3	3	3
28	ABHIJITH KUMAR PRADHAN	3	3	3	3
29	ARJIT JENA	3	3	3	3
30	ALOK KUMAR DALABEHERA	3	3	3	3
31	ANSH KUMAR	3	3	3	3
32	ANIT BARIK	3	3	3	3
33	ARUTHABHU GIRI	3	3	3	3
34	ANIL KUMAR MANTRI	3	3	3	3
35	ANKITA DUBH	3	3	3	3
36	ANSHUDHAR ROUT	3	3	3	3
37	ANUSHREE DAS	3	3	3	3
38	ARJUN KUMAR	3	3	3	3
39	ARYA KUMAR PRUTHVIRAJ NAYAK	3	3	3	3
40	ARYA KUMAR SAHOO	3	3	3	3
41	ASHISH PUNJAN	3	3	3	3
42	AUROBINT BAL	3	3	3	3
43	AVIRAL PRIYADARSHINI	3	3	3	3
44	AVISHEK PRADHAN	3	3	3	3
45	BARAHURAH PATEL	3	3	3	3
46	BIBHUMPEE BALURSINGH	3	3	3	3
47	BICHITRA KUMAR SATURTHY	3	3	3	3
48	BIKASH KUNPO	3	3	3	3
49	BIKASH KUMAR SAHOO	3	3	3	3
50	BISHAL PRAKASH GUHU	3	3	3	3
51	BISHU SUNDAR NAYAK	3	3	3	3
52	BITHUL SATURTHY	3	3	3	3
53	BLOSHLUVOT BARIK	3	3	3	3
54	CHANDRAKANT NAIK	3	3	3	3
55	CHANDRAKANT SAHOO	3	3	3	3
56	CHINMOY BEHURA	3	3	3	3
57	DEBANGA BEHERA	3	3	3	3
58	DEBASIS ROUT	3	3	3	3
59	DEBENDRA PRASAD SETHI	3	3	3	3

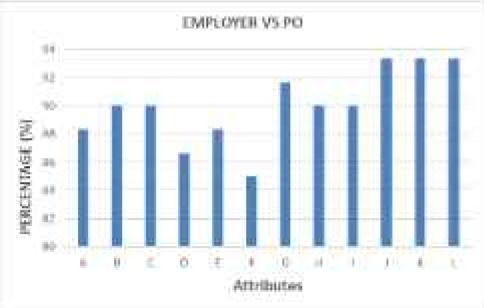
60	DEVI PRASAD BEHERA	5	5	4	4
61	DEVSM DIPAN SAHOO	5	5	4	5
62	DILIP KUMAR	5	5	4	4
63	DUSMANTA SAHU	5	5	4	4
64	GAYATRI SAHOO	5	5	4	4
65	GOPAL KRUSHNA PANDA	5	5	4	4
66	GOPAL KRUSHNA PATRA	5	5	4	4
67	GYANAJIT SAMAHA	4	5	4	4
68	GYANDEEP ACHARYA	5	5	4	4
69	HEMCHANDRA BEHERA	5	4	5	4
70	HRUSHIKUTI PATEL	5	5	4	4
71	HITESH KUMAR PASA	5	5	4	4
72	JYOTI PRAKASH PRATIHARI	5	5	4	4
73	JYOTIRMAYUP NAYAK	5	5	4	4
74	KALLOLA MISHRA	4	5	5	5
75	KISHAN KUMAR ROUT	5	5	4	4
76	KRISHNARUN AMIT PAL	5	5	4	4
77	KUNDAN SOREN	5	5	4	4
78	LIMAUN BEHERA	5	5	4	4
79	MANAS RANJAN SAHOO	5	5	4	4
80	MITHLESH KUMAR	4	5	4	4
81	MONALISA SAMAL	5	4	4	4
82	MUKUL KUMAR	5	5	4	4
83	NAVNEET KUMAR	4	5	5	5
84	NAURAKI SAHOO	5	5	4	4
85	NISHANT KANDONGIG	5	5	4	4
86	NISHANT KUMAR JENA	5	5	4	4
87	OM PRAKASH MAHALI	5	5	4	4
88	PRATIKSHYA DAS	5	5	4	4
89	PRAKASH SAMAL	4	5	4	4
90	PRAVEEN TOPPO	5	4	4	4
91	PRINCE KUMAR	5	5	4	4
	Percentage	98.07%	97.70%	82.70%	81.30%



Analysis of Employer feedback for the attainment of the POs

EMPLOYER FEEDBACK ANALYSIS (2019-2020)

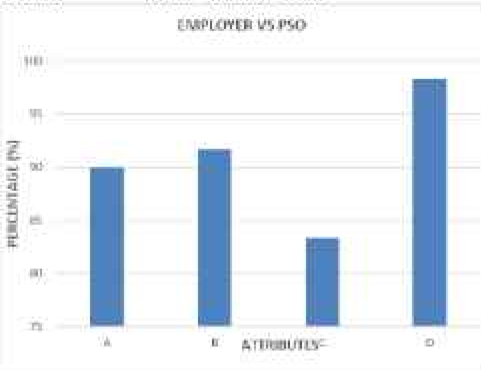
Sl.No	Name of the Employer	Graduate attributes from A to L											
		A	B	C	D	E	F	G	H	I	J	K	L
1	ADVIK HI-TECH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	ALOK INDUSTRIES	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	BINARY TITAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	COCO COLA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	DHOOT TRANSMISSION	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	INFOSYS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	RANKY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	HINDUJA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	OSPOSPE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	MOTHERSON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	IMCO ALLOYS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	INDUS INDUSTRIES	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL		53	54	54	52	53	51	55	54	54	56	56	56
PERCENTAGE		88.33333	90	90	86.66667	88.33333	85	91.66667	90	90	93.33333	93.33333	93.33333



EMPLOYER FEEDBACK ANALYSIS (2019-2020)

Sl.No	Name of the Employer	Graduate attributes from A to D			
		A	B	C	D
1	ADVIK HI-TECH	5	5	5	4
2	ALOK INDUSTRIES	4	4	5	5
3	BINARY TITAN	5	5	4	5
4	COCO COLA	4	5	4	5
5	DHOOT TRANSMISSION	4	5	4	5
6	INFOSYS	4	5	4	5
7	RANKY	5	5	4	5
8	HINDUJA	5	5	4	5

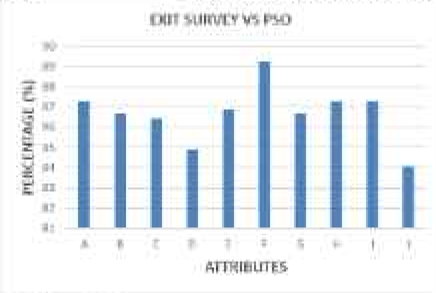
9	[illegible]	[illegible]	[illegible]	[illegible]
10	MOTHERSON	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible] INDUSTRIES	[illegible]	[illegible]	[illegible]
TOTAL		[illegible]	[illegible]	[illegible]
PERCENTAGE		[illegible]	[illegible]	[illegible]



OUTGOING FEEDBACK ANALYSIS (2019-2020)

S/No	Name of the Student	Graduate attributes from A to J									
		A	B	C	D	E	F	G	H	I	J
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	ANSUMAN BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	BISWAJIT PRADHAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible] NAYAK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	KRUSHNA CHANDRA PARIDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	PRAVEEN KUMAR MOHANTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	PURUSHOTTOM SINGH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	ROHAN KUMAR ROUT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	ROUNAK MISHRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible] SAHU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	SAURABH KUMAR THAKUR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible] RANJAN ROUT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	SUBHENDU NATH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	SUBHAJIT JENA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible] BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	SUMIT SAMANTARA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	SURYA PRAKASH SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	VEDANSH GUPTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible] KUMAR VERMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	ABHISHEK BANERJEE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible] MOHAPATRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible] KUMAR PRADHAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible] KUMAR PRADHAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible] JENA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	ALOK KUMAR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible] KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32	AMIT [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
33	[illegible] GIRI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
34	ANIL KUMAR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible] DASH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36	[illegible] ROUT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
37	[illegible] DAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38	[illegible] KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
39	[illegible] KUMAR [illegible] NAYAK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible] KUMAR SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
41	[illegible] RANJAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
43	[illegible] PRIYADARSHINI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44	[illegible] PRADHAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible] PATEL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
47	[illegible] KUMAR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49	[illegible] KUMAR SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible] PRAKASH [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51	[illegible] SUNDAR NAYAK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible] SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56	[illegible] BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	[illegible] BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58	[illegible] ROUT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
59	[illegible] PRASAD SETHI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible] PRASAD BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
61	[illegible] SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
62	DILIP KUMAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
63	[illegible] SAHU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
64	GAYATRI SAHOO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	GOPAL KRUSHNA PANDA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
66	GOPAL KRUSHNA PATRA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
69	[illegible] BEHERA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible] PATEL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
71	[illegible] KUMAR [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

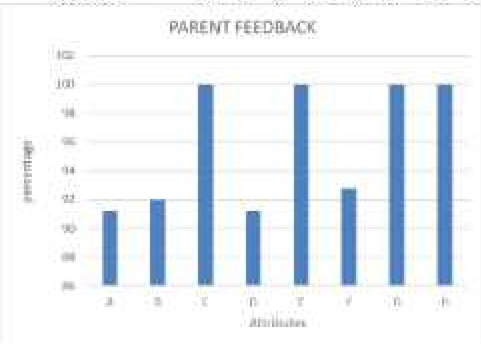
72	JYOTI PRAKASH PRATIHARI	5	4	5	4	4	5	5	5	4	5
73	JYOTISWARUP NAYAK	5	5	5	5	5	5	5	5	5	5
74	KALLOLA MISHRA	5	5	4	4	4	4	4	4	5	5
75	KISHAN KUMAR ROUT	5	5	5	5	5	5	5	5	5	5
76	KRISHNA RANJAN PAL	5	5	5	5	5	5	5	5	5	5
77	KUNDAN SOREN	5	4	5	4	5	5	4	5	4	5
78	LINKUN BEHERA	5	5	5	5	5	5	5	5	4	5
79	MANAS RANJAN SAHOO	5	5	5	5	5	5	5	5	5	5
80	MITHLESH KUMAR	4	5	4	5	5	4	5	5	4	5
81	MONALISA SAMAL	4	5	5	4	4	5	5	5	5	5
82	MUKUL KUMAR	5	4	4	5	5	5	5	5	5	5
83	NAVNEET KUMAR	5	5	4	5	4	5	4	4	5	4
84	NIHARIKA SAHOO	5	5	5	5	5	5	5	5	5	5
85	NISHANT KUNDONGO	5	5	5	5	5	5	5	5	5	5
86	NISHANT KUMAR JENA	5	4	5	4	5	5	4	5	4	5
87	OM PRAKASH MAHALI	5	5	5	5	5	5	5	5	4	5
88	PRATIKSHYA DAS	5	5	5	5	5	5	5	5	5	5
89	PRAKASH SAMAL	4	5	4	5	5	4	5	5	4	5
90	PRAVEEN TOPPO	4	5	5	4	4	5	5	5	5	5
91	PRINCE KUMAR	5	4	4	5	5	5	5	5	5	5
TOTAL		406	403	402	395	404	413	403	406	406	391
Percentage		87.31183	86.66667	86.45161	84.9462366	86.88172	88.81721	86.66667	87.31183	87.31183	84.08602



Analysis of Parents feedback

PARENTS FEEDBACK ANALYSIS ([illegible])

Sl.No.	Name of the Parent	Graduate attributes from A to H							
		A	B	C	D	E	F	G	H
1	MANORANJAN PATTANAIK	5	4	5	4	5	4	5	5
2	RAJESH PATHARI	4	5	5	4	5	5	5	5
3	BASUDEV MUNDA	5	5	5	4	5	5	5	5
4	MIR ABUTAHER AHMED	5	5	5	4	5	5	5	5
5	JAGAT RANJAN NAIK	5	4	5	4	5	5	5	5
6	DURGAMADHAB PANDA	4	4	5	4	5	5	5	5
7	ALOK BISWAL	4	4	5	4	5	5	5	5
8	MANOJ KUMAR BEHERA	5	5	5	4	5	5	5	5
9	DIPAK KUMAR MISHRA	5	4	5	4	5	5	5	5
10	SOUMENDRA KUMAR MOHANTY	5	4	5	4	5	5	5	5
11	SUDARSAN BEHERA	4	4	5	4	5	5	5	5
12	PRAKASH CHANDRA NAYAK	5	4	5	5	5	5	5	5
13	SK GOLAM AHEMAD	4	5	5	5	5	5	5	5
14	PRAMODA KUMAR JENA	5	5	5	5	5	5	5	5
15	PABITRA KUMAR GOCHHAYAT	4	5	5	5	5	5	5	5
16	ASHOK KUMAR JENA	5	5	5	5	5	5	5	5
17	KAILASH CHANDRA DHAR	5	5	5	5	5	5	5	5
18	AMAR KUMAR BARANGI	5	5	5	5	5	4	5	5
19	BASANTA KUMAR DASH	4	5	5	5	5	4	5	5
20	PRASANTA MOHANTY	4	5	5	5	5	4	5	5
21	BIJAY KUMAR MALLIK	4	5	5	5	5	4	5	5
22	DEBI PRASAD MOHANTY	4	5	5	5	5	4	5	5
23	RABINDRA NATH GORAI	4	5	5	5	5	4	5	5
24	SUDHANSU RANJAN BALIARSINGH	5	4	5	5	5	4	5	5
25	KAILASH CHANDRA SENAPATI	5	4	5	5	5	4	5	5
	TOTAL	114	115	125	114	125	116	125	125
	PERCENTAGE	91.2	92	100	91.2	100	92.8	100	100



3.3.2 Provide results of evaluation of each PO & PSO (40)

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21BTTES11	1.66	1.92	2.21	1.66	1.90	0	0	0	0	0	0	2.2
21BTTES11	1.66	1.73	2.1	2.2	1.90	0	0	0	0	0	1.6	2.2
21BTTES11	1.92	1.90	2.24	1.24	2.03	0	0	0	0	0	0	2.24
21BTTES11	1.66	2.22	1.92	1.92	2.03	0	0	0	0	0	0	2.64
21BTTES11	1.24	2.03	1.66	1.66	2.03	0	0	0	0	0	PO11	2.24
21BTTHS11	0	0	0	0	0	1.24	1.24	2.24	2.03	2.62	0	2.62
21BTTES03	1.66	1.24	1.92	2.03	2.13	1.90	0	0	0	0	0	2.24
21BTTES03	1.66	2.03	0	1.94	0	2.13	2.13	0	1.66	0	0	2.03
21BTTES03	2.24	2.22	1.66	2.24	1.66	1.90	0	0	0	0	0	2.72
21BTTES03	2.03	2.66	2.64	2.52	2.03	1.90	2.21	0	1.90	1.92	2.13	2.64
21BTTES03	2.13	2.14	1.24	2.64	2.62	0	0	0	0	0	0	2.74
21BTTHS03	0	1.94	0	1.92	1.64	1.03	0	0	1.52	1.94	1.03	1.94
21BTTES03	1.24	2.62	2.24	1.66	0	0	0	0	0	0	0	2.64
21BTTES03	1.90	1.90	2.21	2.24	1.90	0	0	0	0	0	0	2.64
21BTTES03	2.74	0	0	1.92	1.66	1.90	2.03	0	0	0	0	2.62
21BTNSTP	2.24	2.03	1.90	2.03	2.13	0	1.90	0	0	0	0	2.64
21BTNSTP	2.24	1.66	1.24	2.03	1.92	1.24	0	0	0	0	0	2.59
21BTNSTP	1.24	1.16	0	1.03	2.03	1.43	1.30	0	0	0	0	1.43
21BTTMC03	0	0	0	0	0	1.66	2.03	1.92	1.24	0	0	2.24
21BTTES03	2.24	2.24	1.24	2.66	0	0	0	0	0	0	0	2.74
21BTNSTP	1.90	0	2.62	1.94	0	0	0	0	0	0	0	2.66
21BTNSTP	2.24	2.43	0	1.92	0	0	0	0	0	0	0	2.24
21BTNSTP	2.43	2.62	1.90	2.66	2.43	0	0	0	0	0	0	2.74
21BTTHS04	2.13	1.66	2.21	2.24	1.24	0	0	0	0	0	0	2.74
21BTTHS04	1.90	1.43	0	0	1.24	0	0	0	0	0	0	2.03
21BTTMC04	0	0	0	0	0	1.90	0	2.90	0	2.62	0	2.76
21BTNSTP	2.43	2.13	1.92	1.66	2.24	0	0	0	0	0	0	2.74
21BTNSTP	1.90	1.90	0	1.52	0	1.03	1.24	0	0	0	0	2.03
21BTNSTP	2.43	2.66	1.03	2.24	1.03	0	0	0	0	0	0	2.66
21BTNSTP	2.62	2.62	2.66	2.62	2.66	0	0	0	0	0	0	2.62
21BTNSTC	1.43	1.03	0	1.24	0	1.03	1.24	0	0	0	0	2.24
21BTNSTP	2.62	2.62	2.66	2.62	2.66	0	0	0	0	0	0	2.62
21BTNSTP	2.03	1.66	1.94	2.24	1.66	0	0	0	0	0	0	2.72
21BTNSTP	1.66	2.03	2.24	2.24	2.24	0	1.90	0	0	0	0	2.64
21BTNSTP	1.66	2.03	1.92	2.24	1.92	0	0	0	0	0	1.66	2.24
21BTNSTP	2.24	1.90	1.66	2.90	2.72	0	1.24	0	0	0	0	2.66
21BTNSTP	1.90	1.24	0	2.21	1.90	0	0	0	0	0	0	2.24
21BTTMC04	0	0	0	0	0	1.90	0	2.90	0	1.94	0	2.76
21BTNSTP	1.90	2.13	1.66	2.21	1.74	0	0	0	0	0	0	2.24
21BTNSTP	2.13	2.13	1.92	2.13	1.90	0	0	0	0	0	0	2.62
21BTNSTP	1.90	2.13	2.66	1.66	2.13	1.24	0	0	0	0	1.52	2.54
21BTNSTC	1.66	1.20	2.14	2.16	2.13	0	0	0	0	0	1.43	2.74
21BTTHS11	1.20	1.24	0	1.66	1.66	2.13	1.90	2.13	2.14	1.92	2.13	2.66
21BTPES11	1.24	1.03	1.13	1.13	1.02	1.11	1.14	0	2.13	1.09	0	1.13
21BTPES11	1.24	1.13	1.24	1.13	1.13	0	0	0	2.03	2.13	01.06	PO12
21BTPES11	1.24	1.13	2.24	1.13	1.90	1.13	1.24	0	2.09	2.03	0	1.24
21BTPES11	1.20	1.13	0	1.24	2.24	0	0	0	2.13	2.24	0	1.66
21BTPHS11	0	0	0	0	0	2.13	0	2.90	2.13	2.90	0	2.43
21BTPMC11	0	0	0	0	0	2.13	0	2.90	1.66	1.02	1.92	PO12
21BTPES03	1.13	1.03	1.14	1.92	1.24	1.13	1.43	0	2.03	1.92	0	1.92
21BTPES03	1.90	1.09	2.13	1.24	2.03	0	0	0	2.04	1.92	0	1.13
21BTPES03	1.13	1.24	1.03	1.01	2.02	1.09	1.13	0	2.13	1.13	1.13	1.03
21BTPES03	2.03	2.13	2.90	1.92	2.03	0	PO7	0	0	2.43	1.92	2.24
21BTPES03	1.20	2.13	1.03	1.13	2.03	0	0	0	2.13	1.03	0	1.03
21BTPMC03	0	0	0	0	0	1.13	0	1.92	1.43	0	0	1.02
21BTNSPP	2.13	1.24	1.03	2.13	2.03	0	0	0	2.13	1.90	0	1.92
21BTNSPP	2.20	1.13	2.62	1.13	2.24	0	0	0	2.62	1.13	0	1.66
21BTPES03	1.13	1.03	1.24	1.24	2.03	0	0	0	1.90	2.13	0	1.24
21BTNSPP	2.13	1.13	0	1.14	0	0	0	0	0	2.62	0	2.24
21BTNSPP	2.13	1.73	1.13	2.74	1.24	1.03	1.24	0	2.24	2.03	0	2.03
21BTNSPP	2.13	1.66	1.13	2.13	2.24	0	0	0	2.04	1.92	0	1.74
21BTNSPP	2.03	1.90	2.09	2.66	1.09	0	0	0	2.62	2.43	1.92	1.66
21BTNSPP	2.09	2.13	1.03	2.49	1.13	1.14	0	0	1.13	2.66	0	2.62
21BTNSPP	2.13	1.13	1.14	2.13	1.14	1.13	1.24	0	2.90	1.43	0	2.13
21BTNSPP	2.16	2.16	2.62	2.49	2.43	0	0	0	2.72	1.24	0	2.76
21BTNSPP	2.24	2.90	0	2.13	0	0	0	0	2.13	2.24	0	2.76

21BTMEPP	2.80	2.44	2.86	2.76	1.76	1.12	0	0	2.34	2.12	0	2.74
21BTMEPP	2.12	1.80	1.12	2.45	1.80	0	0	0	2.73	2.82	0	2.64
21BTMEPP	2.12	0	0	1.12	0	0	0	1.12	1.82	2.86	0	2.42
21BTPE88	2.12	1.80	2.76	2.40	2.82	0	0	0	2.14	1.80	0	2.13
21BTMEPP	2.26	1.42	0	1.16	0	0	0	0	1.14	2.24	0	2.76
21BTMEPP	2.34	1.86	1.12	2.12	1.80	0	1.12	0	2.34	2.22	0	2.82
21BTMEPP	2.12	1.80	1.12	2.82	1.12	0	0	0	2.60	2.42	0	2.58
21BTMEPP	2.26	1.12	2.12	1.14	2.12	2.16	0	0	2.28	2.26	1.80	2.72
21BTMEPP	2.34	2.12	2.86	1.80	2.12	0	0	0	2.84	2.86	2.12	2.76
21BTMEPP	2.12	1.12	0	1.12	0	0	0	1.16	0	2.82	0	2.72
21BTMEPP	2.24	1.80	2.74	2.12	2.16	1.12	0	0	2.42	1.82	1.12	2.24
21BTMEPP	2.24	1.12	2.86	1.24	2.12	0	0	0	2.76	2.12	1.72	2.86
21BTMEPP	2.12	1.12	0	0	0	0	0	1.12	1.42	1.16	0	2.12

PO Attainment Indirect :

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Employer	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Exit Student	2.50	2.21	2.15	2.15	2.08	2.08	2.44	2.28	2.20	2.27	2.25	2.58
Alumni	2.17	1.97	2.11	2.17	2.11	2.23	2.17	2.16	2.40	2.20	2.09	2.14
Parent	2.13	2.22	2.14	2.28	2.08	2.30	2.29	2.01	2.60	2.28	2.49	2.73

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	2.40	2.55	2.10	2.14	2.07	2.34	2.28	2.40	2.60	2.18	2.07	2.26
Direct Attainment	1.99	1.80	1.83	1.81	1.84	1.48	1.53	2.01	2.10	2.04	1.86	2.88

PSO Attainment

Course	PSO1	PSO2	PSO3
21BTBS101	2.5	2.3	0
21BTBS102	2.3	2.5	1.8
21BTES101	2.0	2.1	1.7
21BTES103	2.4	2.3	2
21BTES102	0	2.1	1.8
21BTHS101	0	0	2.3
21BTBS201	2.3	1.8	2
21BTES203	2.2	2.1	1.8
21BTES202	1.8	1.8	1.8
21BTES204	2.1	2.1	1.8
21BTES205	1.8	2.1	1.8
21BTHS203	0	0	2.3
21BTES207	1.8	2.3	1.8
21BTES206	1.8	1.8	2.4
21BTBS207	2.3	2.4	1.7
21BTMETPC301	2.4	2.3	2
21BTMETPC302	2.4	2.1	2.3
21BTMETHS303	1.8	1.9	2.5
21BTMC301	1.8	1.7	2.1
21BTBS403	2.4	2.1	1.8
21BTMETPC403	2.5	2.1	2
21BTMETPC404	2.4	2.4	2
21BTMETPC405	2.4	2.3	1.8
21BTHS405	0	0	2.3
21BTHS404	0	1.7	2.5
21BTMC403	0	0	2.4
21BTMETPC506	2.3	2.4	2.1
21BTMETPC507	1.8	1.7	1.7
21BTMETPC508	2.1	1.8	1.8
21BTMETPE501	1.8	1.9	2.4
21BTMETOE502	1.7	1.6	2.3
21BTMETPC609	2.1	2.0	2.1
21BTMETPC610	2.2	2.1	1.8
21BTMETPE603	2.1	1.7	1.8
21BTMETPE607	2.1	2.3	1.7
21BTMETPE611	2.2	2.1	2
21BTMETPE612	2.1	0	1.8
21BTMC603	0	0	2.5
21BTMETPC711	2.3	2.1	2
21BTMETPE713	2.1	1.8	1.6
21BTMETPE717	2.0	2.3	1.7
21BTMETOE705	1.8	1.7	1.8
21BTHS706	1.9	1.7	2.5
21BTMEPPC709	2.03	1.80	0

21BTMEPPC301	2.49	2.2	1.2
21BTMEPPC302	2.91	2.3	1.2
21BTMEPPC312	2.6	2.2	2.2
21BTMEPPC403	2.23	2.1	1.2
21BTMEPPC404	2.21	1.6	2.03
21BTMEPPC413	2.6	2.4	2.3
21BTMEPPC505	2.3	2.10	1.7
21BTMEPPC506	2.6	2.9	2.4
21BTMEPPC514	2.91	2.03	2.4
21BTMEPPC607	2.35	2.03	1.73
21BTMEPPC608	2.35	2.30	1.41
21BTMEPPC613	2.6	2.45	2.4
21BTMEPPS401	2.8	1.8	2.82
21BTPES101	2.4	1.03	1.13
21BTPES202	2.4	1.41	1.12
21BTPES401	2.35	1.73	1.12
21BTPES103	2.41	1.55	1.34
21BTPES106	2.43	1.32	2.13
21BTPES107	2.35	1.85	2.30
21BTPES203	1.83	1.12	2.1
21BTPES204	2.2	1.85	2.03
21BTPES205	2.13	2.10	2.03
21BTPES208	2.13	1.67	2.1
21BTPES209	2.1	1.85	2.03
21BTPES810	2.33	2.21	2.01
21BTPHS101	3	1.83	2.03
21BTPMC101	2.3	2.54	2.6
21BTPMC202	1.83	1.43	0
21BTMEPPC710	2.43	2.91	2.3
21BTMEPPS702	2.22	2.12	1.13
21BTMEPPS704	2.2	2.10	2.3
21BTMEPPC713	2.24	2.13	1.1
21BTMEPPS805	2.3	2.31	2.43
21BTMEPPS809	2.21	2.21	1.55
21BTMEPPS807	1.83	2.1	1.67

PSO Attainment Indirect

Survey	PSO1	PSO2	PSO3
Employer	2.3	2.2	1.8
Exit Student	2.5	2.4	2.2
Alumni	2.4	2.2	2.4
Parent	2.6	2.6	2.2

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.33	2.21	1.87
InDirect Attainment	2.45	2.4	2.13

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 (N)	120	120	120	120	120	180	180
Total number of students admitted in first year minus number of students migrated to other programs/ Institutions plus No. of students migrated to this program (N1)	91	93	93	88	88	83	113
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	0	0	0	0	0	7
Separate division students, if applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	91	101	93	97	88	91	120

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2024-25 (CAY)	91				
2023-24 (CAYm1)	101	93			
2022-23 (CAYm2)	93	87	83		
2021-22 (CAYm3)	97	90	91	89	
2020-21 (LYG)	88	88	87	84	84
2019-20 (LYGm1)	91	78	91	78	78
2018-19 (LYGm2)	120	110	110	109	109

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study (Total of with Backlog + without Backlog)			
		I year	II year	III year	IV year
2024-25 (CAY)	91				
2023-24 (CAYm1)	101	93			
2022-23 (CAYm2)	93	93	93		
2021-22 (CAYm3)	97	93	97	97	
2020-21 (LYG)	88	88	83	84	84
2019-20 (LYGm1)	91	83	91	91	91
2018-19 (LYGm2)	120	113	120	121	121

4.1 Enrolment Ratio (20)

	N (From Table 4.1)	NY (From Table 4.1)	Enrollment Ratio (NY/N)*100
2024-25 (CAY)	120	91	75.83
2023-24 (CAYm1)	120	93	78.67
2022-23 (CAYm2)	120	93	78.00

Average [(ER1 + ER2 + ER3) / 3] : 76.83

Assessment : 14.00

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 (10)

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	88.00	91.00	113.00
Y Number of students who have graduated without backlogs in the stipulated period	84.00	78.00	109.00
Success Index [SI = Y / X]	0.95	0.86	0.96

Average SI [(SI1 + SI2 + SI3) / 3] : 0.87

Assessment [10 * Average SI] : 10.00

4.2.2 Success rate in stipulated period (2)

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	88.00	91.00	113.00
Y Number of students who have graduated in the stipulated period	84.00	91.00	121.00
Success Index [SI = Y / X]	0.95	1.00	0.96

Average SI [(SI1 + SI2 + SI3) / 3] : 0.99

Assessment [2 * Average SI] : 1.97
Note : If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously

4.3 Academic Performance in Second Year (10)

Academic Performance	CAY(n1 (2023-24)	CAY(n2 (2022-23)	CAY(n3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	8.61	8.53	8.47
Total number of successful students (Y)	88.00	87.00	85.00
Total number of students appeared in the examination (Z)	88.00	87.00	85.00
API (X * (Y/Z))	8.61	8.53	8.47

Average API ((API1 + API2 + API3)/3) : 8.53

Assessment (Average API) : 8.53

4.4 Placement, Higher Studies and Entrepreneurship (30)

Item	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3(2021-22)
Total No of Final Year Students(N)	91.00	91.00	121.00
No of students placed in the companies or government sector(X)	88.00	89.00	108.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	0.00	0.00	0.00
No of students turned entrepreneur in engineering/technology (Z)	1.00	0.00	1.00
Placement Index [(X+1+Z)/N]	1.00	0.99	0.90

Average Placement [(P1 + P2 + P3)/3] : 0.96

Assessment [30 * Average Placement] : 28.80

S.No.	Student Name	Enrollment No.	Employee Name	Appointment No.
1	DEBADUTTA MOHAPATRA	2001287926	Bizdem devices Pvt Ltd	441/PL/BIZ/2024
2	GOURAB BEHERA	2001287929	ADVIK HI-TECH	449/PL/AHT/2024
3	JAYASHREE SAMAL	2001287926	Talbros Marugo Rubber	67/PL/TMR/2024
4	JYOTI PRAKASH SWAIN	2001287927	INFOSYS	481/PL/INFY/2024
5	KESHAB CHANDRA PARIDA	2001287927	Motherson Group	420/PL/MG/2024
6	KRITIK KUMAR PURUKAIT	2001287928	Talbros Marugo Rubber	68/PL/TMR/2024
7	KUNAL PATRA	2001287938	SUN VACUUM	109/PL/SVL/2024
8	MANOJ JENA	2001287908	ADVIK HI-TECH	440/PL/AHT/2024
9	MD RASHID ALAM	2001287910	Tata Motors	421/PL/TML/2024
10	MOHIT KUMAR	2001287939	SUN VACUUM	108/PL/SVL/2024
11	NAMIT MISHRA	2001287930	OH Talbros Ltd	109/PL/OTL/2024
12	NITYASHREE RANJAN SAHOO	2001287912	Bizdem devices Pvt Ltd	438/PL/BIZ/2024
13	OMM PRAKASH DAS	2001287931	Bizdem devices Pvt Ltd	440/PL/BIZ/2024
14	PRADIPTA KUMAR SEL	2001287913	Bizdem devices Pvt Ltd	127/PL/BIZ/2024
15	PRATYUSH KUMAR SAL	2001287914	OH Talbros Ltd	109/PL/OTL/2024
16	PRANANJANA SAMANTA	2001287919	SUN VACUUM	107/PL/SVL/2024
17	PRIYABRATA SAHOO	2001287932	SUN VACUUM	108/PL/SVL/2024
18	RAKESH KUMAR SAHOO	2001287933	Talbros Marugo Rubber	66/PL/TMR/2024
19	RAKESH SETHY	2001287916	Bizdem devices Pvt Ltd	321/PL/BIZ/2024
20	SAPTOSHAI PAL	2001287917	Bizdem devices Pvt Ltd	201/PL/BIZ/2024
21	SATYAJEET PATRA	2001287934	Bizdem devices Pvt Ltd	132/PL/BIZ/2024
22	SAURABH KUMAR DWIVEDI	2001287918	ADVIK HI-TECH	437/PL/AHT/2024
23	SHOVA NAIK	2001287939	Medantrix	273/PL/MNTL/2024
24	SOMYA SUBHAM SAHOO	2001287919	OH Talbros Ltd	130/PL/OTL/2024
25	SUBRATA PRADHAN	2001287920	ADVIK HI-TECH	438/PL/AHT/2024
26	SWAPNA SAGAR SAMAL	2001287937	Bizdem devices Pvt Ltd	103/PL/BIZ/2024
27	TANDRAJIT SARIK	2001287938	Vish Industries	91/PL/VIL/2024
28	NAMAN KUMAR	2001287911	Motherson Group	433/PL/MG/2024
29	ABHIJIT PANDA	2001287195	COGNIZANT	203/PL/CGZ/2024
30	ABHIMANYU SHA	2001287197	Talbros Marugo Rubber	65/PL/TMR/2024
31	ABHINANDAN KUMAR	2001287198	Talbros Marugo Rubber	66/PL/TMR/2024
32	ABHISHEK BISOI	2001287201	OH Talbros Ltd	103/PL/OTL/2024
33	ABINASH SAHOO	2001287203	ADVIK HI-TECH	438/PL/AHT/2024
34	AKANKSHYA MAHARANA	2001287205	ADVIK HI-TECH	434/PL/AHT/2024
35	AMIT KUMAR MURMU	2001287207	Tata Motors	403/PL/TML/2024
36	AMIT SAGAR NAYAK	2001287208	OH Talbros Ltd	121/PL/OTL/2024
37	ANITA BEHERA	2001287211	ADVIK HI-TECH	439/PL/AHT/2024
38	ARABINDA SAMAL	2001287213	OH Talbros Ltd	120/PL/OTL/2024
39	BISWARANJAN PARIDA	2001287215	Tata Motors	403/PL/TML/2024
40	BISWARANJAN SAHU	2001287217	Motherson Group	434/PL/MG/2024
41	DEBABRATA SWAIN	2001287219	Talbros Marugo Rubber	67/PL/TMR/2024
42	DEBASHISH DALAI	2001287221	INFOSYS	482/PL/INFY/2024
43	DEEPAK MOHAPATRA	2001287223	COGNIZANT	203/PL/CGZ/2024
44	DIPANWITA PANI	2001287225	Motherson Group	433/PL/MG/2024
45	DULARI MURMU	2001287227	INFOSYS	483/PL/INFY/2024
46	GOPAL KUMAR ROY	2001287229	ADVIK HI-TECH	430/PL/AHT/2024
47	GOURAB GOSWAMI	2001287231	ADVIK HI-TECH	438/PL/AHT/2024
48	JAYANT KUMAR	2001287233	ADVIK HI-TECH	488/PL/AHT/2024
49	JNANARANJAN ACHARYA	2001287235	SUN VACUUM	164/PL/SVL/2024
50	KONA ABHISH	2001287237	SUN VACUUM	102/PL/SVL/2024
51	LIPSA PRIYADARSINI	2001287239	Tata Motors	403/PL/TML/2024
52	MANISH MOHANTY	2001287241	Talbros Marugo Rubber	66/PL/TMR/2024
53	MANORANJAN KISKU	2001287243	SUN VACUUM	482/PL/SVL/2024
54	MUNNA KUMAR	2001287245	Motherson Group	103/PL/MG/2024
55	NARENDRA BEHERA	2001287247	ADVIK HI-TECH	431/PL/AHT/2024
56	PALLAVI PATRO	2001287249	SUN VACUUM	104/PL/SVL/2024
57	PRABHUDATTA MISHRA	2001287251	OH Talbros Ltd	118/PL/OTL/2024
58	PRAKASH MAHATO	2001287253	Tata Motors	406/PL/TML/2024
59	PRASANT KUMAR SAHU	2001287255	Motherson Group	438/PL/MG/2024
60	PRATIK ANAND	2001287257	ADVIK HI-TECH	438/PL/AHT/2024
61	PRIYADARSHI BIPLAB KUMAR	2001287259	Talbros Marugo Rubber	68/PL/TMR/2024
62	PUPHANA SAHOO	2001287261	ADVIK HI-TECH	436/PL/AHT/2024
63	RAHUL MAHANTA	2001287263	Medantrix	270/PL/MNTL/2024
64	RAJESH KUMAR PRADHAN	2001287265	Motherson Group	437/PL/MG/2024
65	BASUDEVA PATRA	2101287107	Cognitivite Global Research	488/PL/CGR/2024
66	JYOTISANKAR DAS	2101287114	Cognitivite Global Research	301/PL/CGR/2024
67	SAMBIT KUMAR MOHAPATRA	2101287121	Motherson Group	438/PL/MG/2024
68	DINESH KUMAR TURU	2101287113	Ramky	63/PL/RAM/2024
69	ASIF AKHTAR	2101287109	OH Talbros Ltd	118/PL/OTL/2024
70	HIMANSHU KUMAR	2101287113	ADVIK HI-TECH	430/PL/AHT/2024
71	SUJIT KUMAR MEHER	2101287108	OH Talbros Ltd	117/PL/OTL/2024
72	RASMITA SALUJA SAHOO	2101287119	SUN VACUUM	103/PL/SVL/2024

73	[illegible]	2101287117	Federal Bank	100/PL/FBL/2024
74	BIJAYA KUMAR SAHU	2101287107	Motherson Group	488/PL/MG/2024
75	PRABUDDHA JENA	2101287119	Motherson Group	487/PL/MG/2024
76	SUBHENDU KUMAR NANDA	2101287126	Tata Motors	407/PL/TML/2024
77	ASHUTOSH SATPATHY	2101287105	Ramky	82/PL/RAM/2024
78	URJANA RAKESH	2101287106	TCS	301/PL/TCS/2024
79	D RAMA KRISHNA	2101287111	ADVIK HI-TECH	430/PL/AHT/2024
80	BISWAKANTA MISHRA	2101287108	ADVIK HI-TECH	488/PL/AHT/2024
81	CHEBOROLU MOHAN KUMAR	2101287109	OH Talbros Ltd	118/PL/OTL/2024
82	CHANDAN KAR	2101287110	SUN VACUUM	101/PL/SVL/2024
83	LOLUP NAYAK	2101287113	OH Talbros Ltd	113/PL/OTL/2024
84	RANJAN KUMAR PARIDA	2101287100	OH Talbros Ltd	110/PL/OTL/2024
85	SANDHYA PRIYADARSHI	2101287102	OH Talbros Ltd	88/PL/OTL/2024
86	CHANDAN BISWAL	2001287215	Biodent devices Pvt Ltd	438/PL/BIZ/2024
87	ALOK KUMAR PRADHAN	2001287201	Medanta	278/PL/MMT/2024
88	ANGREESH PRASAD BEHERA	2001287202	Medanta	274/PL/MMT/2024
89	ANKIT ARYAN SINGH	2001287203	Talbros Marugo Rubber Ltd	88/PL/TMR/2024

Assessment Year : 2022-23 (C/Wing)

S.No.	Student Name	Enrollment No.	Employer Name	Appointment No.
1	ANIL KUMAR MANTRI	2201287903	CH Tables	468/PL/SVL/2023
2	ANKITA SINGH	2201287904	INFOSYS	203/PL/INFY/2023
3	ANIRUDDHA ROUT	2201287905	Sunvacuum Formers Pvt. Ltd.	17/PL/SVL/2023
4	ANUSHREE DAS	2201287906	INFOSYS	204/PL/INFY/2023
5	ARJUN KUMAR	2201287907	CH Tables	468/PL/CTL/2023
6	ARYA KUMAR PRUTHWIRAJ NAYAK	2201287908	Sunvacuum Formers Pvt. Ltd.	42/PL/SVL/2023
7	ARYA KUMAR SAHOO	2201287909	Ranch Polymers Pvt. Ltd.	232/PL/RPL/2023
8	ASHISH RANJAN	2201287910	Ranch Polymers Pvt. Ltd.	233/PL/RPL/2023
9	AVIPSA PRIYADARSHINI	2201287911	TAFE	430/PL/TAFE/2023
10	AVIPSA PRIYADARSHINI	2201287912	Dhoot Transmission Pvt. Ltd.	463/PL/DTL/2023
11	AVISHEK PRADHAN	2201287913	Dhoot Transmission Pvt. Ltd.	464/PL/DTL/2023
12	BARSHARANI PATEL	2201287914	Sunvacuum Formers Pvt. Ltd.	43/PL/SVL/2023
13	BIBHUSHREE SALUJASINGH	2201287915	Sunvacuum Formers Pvt. Ltd.	44/PL/SVL/2023
14	BICHITRA KUMAR SATAPATHY	2201287916	Venus Industries	209/PL/VIL/2023
15	BIKASH KUMAR	2201287917	CH Tables	470/PL/CTL/2023
16	BIKASH KUMAR SAHOO	2201287918	Dhoot Transmission Pvt. Ltd.	465/PL/DTL/2023
17	BISHWA PRAKASH SAHU	2201287919	CH Tables	420/PL/CTL/2023
18	BISWA SUNDAR NAYAK	2201287920	TAFE	431/PL/TAFE/2023
19	BITANU SATAPATHY	2201287921	Paragon Digital Services	463/PL/PDS/2023
20	BL DIBYAJYOTI SURIN	2201287922	Dhoot Transmission Pvt. Ltd.	460/PL/DTL/2023
21	CHANDRAKANT NAIK	2201287923	CH Tables	421/PL/CTL/2023
22	CHANDRAKANTI SAHOO	2201287924	Sunvacuum Formers Pvt. Ltd.	21/PL/SVL/2023
23	CHINMAYA BEHURA	2201287925	CH Tables	422/PL/CTL/2023
24	DEBASISH BEHERA	2201287926	Sunvacuum Formers Pvt. Ltd.	27/PL/SVL/2023
25	DEBASIS ROUT	2201287927	Dhoot Transmission Pvt. Ltd.	461/PL/DTL/2023
26	DEBENDRA PRASAD SETHI	2201287928	CH Tables	464/PL/CTL/2023
27	DEVI PRASAD BEHERA	2201287929	CH Tables	423/PL/CTL/2023
28	DIBYAN DIPAN SAHOO	2201287930	Collabera	241/PL/CLB/2023
29	DILIP KUMAR	2201287931	LUMDESOFT	103/PL/LMDT/2023
30	DUSMANTA SAHU	2201287932	CH Tables	424/PL/CTL/2023
31	GAYATRI SAHOO	2201287933	Dhoot Transmission Pvt. Ltd.	462/PL/DTL/2023
32	GOPAL KRUSHNA PANDA	2201287934	Ranch Polymers Pvt. Ltd.	231/PL/RPL/2023
33	GOPAL KRUSHNA PATRA	2201287935	Ranch Polymers Pvt. Ltd.	230/PL/RPL/2023
34	GYANAJIT SAMANTA	2201287936	Sunvacuum Formers Pvt. Ltd.	28/PL/SVL/2023
35	GYANDEEP ACHARYA	2201287937	Lifelong India	401/PL/LIPL/2023
36	HEMANANDA BEHERA	2201287938	CH Tables	426/PL/CTL/2023
37	HIRANMAYEE PATEL	2201287939	Dhoot Transmission Pvt. Ltd.	460/PL/DTL/2023
38	HITESH KUMAR PASA	2201287940	CH Tables	425/PL/CTL/2023
39	JYOTI PRAKASH PRUTHAURI	2201287941	Venus Industries	201/PL/VIL/2023
40	JYOTIRMAYEE NAYAK	2201287942	Tata Motors	11/PL/TML/2023
41	KALYANI MISHRA	2201287943	Infosys	418/PL/INFY/2023
42	KISHAN KUMAR ROUT	2201287944	CH Tables	426/PL/CTL/2023
43	KRISHNA PRASAD PATRA	2201287945	CH Tables	427/PL/CTL/2023
44	KUNDAN SOREN	2201287946	Ranch Polymers Pvt. Ltd.	233/PL/RPL/2023
45	LINKAN BEHERA	2201287947	Tata Motors	12/PL/TML/2023
46	MANAS RANJAN SAHOO	2201287948	BYJU's	212/PL/BYJU/2023
47	MITHLESH KUMAR	2201287949	Sunvacuum Formers Pvt. Ltd.	23/PL/SVL/2023
48	MONALISA SAMAL	2201287950	Tata Motors	13/PL/TML/2023
49	MUKUL KUMAR	2201287951	Ranch Polymers Pvt. Ltd.	234/PL/RPL/2023
50	NAVNEET KUMAR	2201287952	Dhoot Transmission Pvt. Ltd.	463/PL/DTL/2023
51	NIHARIKA SAHOO	2201287953	Sunvacuum Formers Pvt. Ltd.	24/PL/SVL/2023
52	NISHANT KUNDONGO	2201287954	Dhoot Transmission Pvt. Ltd.	464/PL/DTL/2023
53	NISHANT KUMAR JENA	2201287955	Sunvacuum Formers Pvt. Ltd.	25/PL/SVL/2023
54	OM PRAKASH MOHALI	2201287956	CH Tables	428/PL/CTL/2023
55	PRATYUSHA DAS	2201287957	Ranch Polymers Pvt. Ltd.	235/PL/RPL/2023
56	ANJAN STITAPRAGNYA	2201287900	TAFE	432/PL/TAFE/2023
57	ANSUMAN BEHERA	2201287901	Dhoot Transmission Pvt. Ltd.	466/PL/DTL/2023
58	ARYAN AYUSH DASH	2201287902	Dhoot Transmission Pvt. Ltd.	467/PL/DTL/2023
59	BISWAJIT PRADHAN	2201287903	TAFE	433/PL/TAFE/2023
60	BISWARAJ NAYAK	2201287904	Venus Industries	202/PL/VIL/2023
61	KRUSHNA CHANDRA PARIJA	2201287905	Tata Motors LTD.	14/PL/TML/2023
62	PRAVEEN KUMAR MOHANTA	2201287906	Sunvacuum Formers Pvt. Ltd.	26/PL/SVL/2023
63	PURUSHOTTAM SINGH	2201287907	Dhoot Transmission Pvt. Ltd.	468/PL/DTL/2023
64	ROHAN KUMAR ROUT	2201287908	TAFE	434/PL/TAFE/2023
65	RIDHAM MISHRA	2201287909	CH Tables	462/PL/CTL/2023
66	SATYARANJAN SAHU	2201287910	Dhoot Transmission Pvt. Ltd.	468/PL/DTL/2023
67	SAURABH KUMAR THAKUR	2201287911	Ranch Polymers Pvt. Ltd.	236/PL/RPL/2023
68	SOUMYA RANJAN ROUT	2201287912	Ranch Polymers Pvt. Ltd.	238/PL/RPL/2023
69	SUBHENDU NATH	2201287913	CH Tables	463/PL/CTL/2023
70	SUBHRANSHU SEKHAR BEHERA	2201287914	Ranch Polymers Pvt. Ltd.	230/PL/RPL/2023
71	SUMIT SAMANTARA	2201287916	Sunvacuum Formers Pvt. Ltd.	27/PL/SVL/2023
72	SURYA PRAKASH SAHOO	2201287917	Sunvacuum Formers Pvt. Ltd.	28/PL/SVL/2023

73	SWOPNA SOURAV PURDA	2001297918	OH Tebbas	469/PL/OTL/2023
74	VEDANSH GUPTA	2001297919	Dhoot Transmission Pvt. Ltd.	480/PL/DTL/2023
75	SHASHIKANT KUMAR VERMA	2001297920	Sumukoom Polymers Pvt. Ltd.	26/PL/SVL/2023
76	SAMIR SWATUR	2001297921	Tata Motors	16/PL/TML/2023
77	ABHILASH JHA	2001297922	OH Tebbas	469/PL/OTL/2023
78	ABHINANDAN SAMAL	2001297923	OH Tebbas	167/PL/OTL/2023
79	ABHISHEK BANERJEE	2001297924	Ranch Polymers Pvt. Ltd.	211/PL/RPL/2023
80	ABINASH MOHAPATRA	2001297925	Dhoot Transmission Pvt. Ltd.	491/PL/DTL/2023
81	ABINASH KUMAR PRADHAN	2001297926	INFOSYS	219/PL/INFY/2023
82	AKSHAYA KUMAR PRADHAN	2001297927	INFOSYS	221/PL/INFY/2023
83	PRAVASH SAMAL	2001297888	LANCESOFT	430/PL/STG/2023

Assessment Year : 2021-22 (CWPH)

S.No.	Student Name	Enrollment No.	Employee Name	Appointment No.
1	ARBIND KUMAR YADAV	2001267309	TALBROS MARUGO	209/PL/TML/2020
2	AVINASH KUMAR SINGH	2001267365	RANE GROUP	203/PL/RANE/2021
3	BIKRAM HEMBRAM	2001267368	TALBROS MARUGO	207/PL/TML/2020
4	BISWA PRATAP MOHAPATRA	2001267325	Sunvacuum Formers Pvt	269/PL/SVL/2020
5	BISWAJEET DAS	2001267326	RANE GROUP	209/PL/RANE/2021
6	BISWAJEET PRADHAN	2001267327	Sunvacuum Formers Pvt	260/PL/SVL/2020
7	BRAJESH KUMAR YADAV	2001267365	MKCL	105/PL/MKCL/2020
8	CHANDAN KUMAR SINGH SAMANTA	2001267476	SANJEEV AUTO	409/PL/SAL/2020
9	CHANDAN SAHU	2001267328	BOOREJ AND KURODA	271/PL/BKL/2020
10	CHINMAYA DAS	2001267329	SANJEEV AUTO	410/PL/SAL/2020
11	CHINMAYA SAHOO	2001267366	SANJEEV AUTO	411/PL/SAL/2020
12	DEBI PRASANNA MOHAPATRA	2001267366	BOOREJ AND KURODA	270/PL/BKL/2020
13	DHRUV SINHA	2001267330	SANJEEV AUTO	413/PL/SAL/2020
14	DINESH MALLICK	2001267331	Sunvacuum Formers Pvt	263/PL/SVL/2020
15	EJAZ AHMAD	2001267469	TALBROS MARUGO	206/PL/TML/2020
16	GANESWAR SAHOO	2001267332	BOOREJ AND KURODA	273/PL/BKL/2020
17	GOUTAM PANDA	2001267477	BOOREJ AND KURODA	274/PL/BKL/2020
18	2001267360	2001267360	Sunvacuum Formers Pvt	266/PL/SVL/2020
19	HIMANSHU SHEKHARA NAYAK	2001267333	BOOREJ AND KURODA	275/PL/BKL/2020
20	IMTIYAZ KHAN	2001267367	BOOREJ AND KURODA	276/PL/BKL/2020
21	JUNAID IQBAL	2001267366	CH Tabros	229/PL/CTL/2020
22	KALYAN SUNDAR PATI	2001267334	RAMKY	220/PL/RMK/2021
23	KOR ABHISHEK KUMAR PRASHANT KUMAR	2001267335	Sunvacuum Formers Pvt	267/PL/SVL/2020
24	KAUSHAL KUMAR	2001267369	SANJEEV AUTO	413/PL/SAL/2020
25	KAUSIK SAHOO	2001267336	Infosys	230/PL/INFY/2020
26	KUMARI PRIYANKA BHARTI	2001267337	SANJEEV AUTO	414/PL/SAL/2020
27	MANAS RANJAN NAYAK	2001267367	Sunvacuum Formers Pvt	268/PL/SVL/2020
28	MANISH KUMAR MAHTO	2001267370	BOOREJ AND KURODA	277/PL/BKL/2020
29	MANOJ KUMAR	2001267476	Sunvacuum Formers Pvt	269/PL/SVL/2020
30	MANOJ KUMAR BEHERA	2001267337	CH Tabros	230/PL/CTL/2020
31	MAYANK KUMAR	2001267478	RANE GROUP	207/PL/RANE/2021
32	MD SAIF	2001267310	TALBROS MARUGO	209/PL/TML/2020
33	MD SARFARAZ ALAM	2001267306	TALBROS MARUGO	210/PL/TML/2020
34	CHANDAN SAHU	2001268026	RANE GROUP	211/PL/RG/2022
35	CHINMAYA DAS	2001268025	RANE GROUP	210/PL/RG/2022
36	CHINMAYA SAHOO	2001268013	TALBROS MARUGO	204/PL/TML/2020
37	DHRUV SINHA	2001268025	Sunvacuum Formers Pvt	229/PL/SVL/2020
38	EJAZ AHMAD	2001268005	BOOREJ AND KURODA	216/PL/BKL/2020
39	GOUTAM PANDA	2001268033	CH Tabros	261/PL/CTL/2020
40	GYANARANJAN PANDA	2001268011	BOOREJ AND KURODA	221/PL/CTL/2020
41	IMTIYAZ KHAN	2001268024	MKCL	227/PL/CTL/2020
42	KALYAN SUNDAR PATI	2001268034	Infosys	207/PL/INF/2022
43	KAUSHAL KUMAR	2001268013	MKCL	207/PL/MKCL/2020
44	KAUSIK SAHOO	2001268006	CH Tabros	249/PL/CTL/2020
45	MD SHEESH SADAN	2001267371	SANJEEV AUTO	415/PL/SAL/2020
46	MEER NADEEM ASHRAF	2001267311	Infosys	229/PL/INFY/2020
47	MIR TABREZ ALI	2001267338	SANJEEV AUTO	416/PL/SAL/2020
48	MOHAMMAD ASHMEER RAZA	2001267372	RAMKY	222/PL/RMK/2021
49	MOHIT MRIDUL	2001267480	Infosys	223/PL/INFY/2020
50	NIHARANJAN DASH	2001267340	HIND RECTIFIER	266/PL/HRL/2020
51	NIKHIL PRAKASH	2001267312	RAMKY	224/PL/RMK/2021
52	NISHANT KUMAR SINGH	2001267313	BOOREJ AND KURODA	278/PL/BKL/2020
53	NISHITH RAJ	2001267314	RAMKY	223/PL/RMK/2021
54	NITISH KUMAR SAHOO	2001267381	Sunvacuum Formers Pvt	260/PL/SVL/2020
55	PARESH KUMAR SAMAL	2001267341	TALBROS MARUGO	211/PL/TML/2020
56	PRAJNANA SOURAV BEHURA	2001267342	TEGA INDUSTRIES	121/PL/TIL/2020
57	PRAKASH SOREN	2001267343	MOTIF INDIA	123/PL/MIL/2020
58	PREETAM KUMAR PATRA	2001267481	Collabera	220/PL/CBL/2020
59	PREM ALOK KUJUR	2001267482	BOOREJ AND KURODA	279/PL/BKL/2020
60	RAHUL KUMAR	2001267303	TALBROS MARUGO	213/PL/TML/2020
61	RAHUL KUMAR PRASAD	2001267344	Collabera	223/PL/CBL/2020
62	RAJ PRAKAR DAS	2001267345	CUMMINS INDIA	229/PL/CIL/2020
63	RAKESH KUMAR MOHARANA	2001267483	TALBROS MARUGO	213/PL/TML/2020
64	SAHAJ JYOTISH	2001267101	RANE GROUP	208/PL/RG/2021
65	SANGIT KUMAR SASMAL	2001267114	Collabera	226/PL/CBL/2020
66	SHRINIBAS NAIK	2001267115	TALBROS MARUGO	214/PL/TML/2020
67	GUDU SWAIN	2001267106	BOOREJ AND KURODA	280/PL/BKL/2020
68	DEBASISH MALLIK	2001267108	MIRACLE SOFTWARE	103/PL/MSL/2020
69	DURGA PRASAD JENA	2001267107	CH Tabros	261/PL/CHT/2020
70	SANJIT KUMAR BEHERA	2001267111	Sunvacuum Formers Pvt	261/PL/SVL/2020
71	SATYA PRAKASH SAHU	2001267112	RANE GROUP	209/PL/RG/2021
72	NITISH KUMAR MURMU	2001267109	Collabera	226/PL/CBL/2020

73	ASHIRBAD SAHU	2001087103	TALBROS MARUGO	213/PL/TML/2023
74	ANIKET KUMAR DIGAL	2001087113	Sunvacuum Formers Pvt	280/PL/SVL/2023
75	CHINMOYA KUMAR PANDA	2001087105	Sunvacuum Formers Pvt	289/PL/SVL/2023
76	ASHISH KUMAR DEHURY	2001087109	RANE GROUP	010/PL/RG/2023
77	PRABHAT KUMAR PRADHAN	2001087110	OH Tabros	282/PL/OHT/2023
78	BISWOMBER NAURI	2001087101	TALBROS MARUGO	261/PL/TML/2023
79	BALARAM PANDA	2001087790	SANJEEV AUTO	401/PL/SAL/2023
80	DEBASHIS MITRA	2001087791	TALBROS MARUGO	223/PL/TML/2023
81	JOGESH KUMAR SAHOO	2001087792	OH Tabros	221/PL/OTL/2023
82	LALMOHAN BARIK	2001087793	SANJEEV AUTO	402/PL/SAL/2023
83	MANISHA PRADHAN	2001087794	SANJEEV AUTO	403/PL/SAL/2023
84	MARSHAL TUDU	2001087795	SANJEEV AUTO	404/PL/SAL/2023
85	MONALISHA DAS	2001087796	OH Tabros	222/PL/OTL/2023
86	OM PRAKASH DAS	2001087797	Sunvacuum Formers Pvt	281/PL/SVL/2023
87	PUJA PRASAD	2001087798	Hibbus	221/PL/HBY/2023
88	SUBRAT BEHERA	2001087788	Collabera	201/PL/CLBR/2023
89	SUMIT KUMAR SAHOO	2001087780	TALBROS MARUGO	229/PL/TML/2023
90	SUNIL KUMAR NAYAK	2001087781	OH Tabros	223/PL/OTL/2023
91	SANGEETA DAS	2001087782	Sunvacuum Formers Pvt	280/PL/SVL/2023
92	AKASH UPADHYAY	2001087470	SANJEEV AUTO	403/PL/SAL/2023
93	ABHIJEET SAGORI	2001087200	SANJEEV AUTO	408/PL/SAL/2023
94	ABHIJEET DWIBEDY	2001087306	Collabera	202/PL/CLBR/2023
95	ABHIJIT TRIPATHY	2001087380	RANE GROUP	303/PL/RANE/2023
96	ABHISHEK KUMAR	2001087281	RAMKY	201/PL/RMK/2021
97	ABHISHEK RANJAN	2001087308	OH Tabros	228/PL/OTL/2023
98	AFRIN BANO	2001087471	OH Tabros	229/PL/OTL/2023
99	AJAY KUMAR SINGH	2001087201	TALBROS MARUGO	204/PL/TML/2023
100	ALOK KUMAR	2001087307	HIND RECTIFIER	228/PL/HRL/2023
101	AMAN KUMAR SINGH	2001087303	SANJEEV AUTO	407/PL/SAL/2023
102	AMAR KUMAR	2001087380	RANE GROUP	303/PL/RANE/2023
103	AMIT MISHRA	2001087308	OH Tabros	228/PL/OTL/2023
104	AMRIT KUMAR SAHOO	2001087473	SANJEEV AUTO	408/PL/SAL/2023
105	AMRIT SAGAR SAHAY	2001087303	RANE GROUP	304/PL/RANE/2021
106	ANIL SOREN	2001087380	Collabera	203/PL/CLB/2023
107	ANKIT VERMA	2001087470	OH Tabros	227/PL/OTL/2023
108	ANUJ KUMAR YADAV	2001087304	TALBROS MARUGO	203/PL/TML/2023
109	ARBAZ KHAN	2001087473	OH Tabros	228/PL/OTL/2023

4.3 Professional Activities (20)

4.2.4 Professional societies/chapters and organizing engineering events (2)

Sl. No.	Institutional Membership
1	Indian Society for Technical Education
2	Institution of Engineers (India)

Events Organized Since Last Three Year

Sl. No.	Event	Date	Type
	2023-24		
1	5 Day Faculty Development Program on Introduction to Jurassic Fusion 360 organized	04.09.2023	FDP
2	Two Weeks Faculty Development Programme on "Vibration and Acoustics in Machines and Automobiles	16.10.2023	FDP
3	Faculty Development Programme on "Internet of Things and Advanced Technologies in Manufacturing"	11.12.2023	FDP
4	Faculty Development Programme on the course of "Concept of Thermodynamics, Fluid mechanics and Dynamics for Mechanical Engineers"	22.01.24	FDP
5	Faculty Development Programme on Modelling and Optimization Techniques for Materials and Manufacturing Processes conducted	12.02.24	FDP
6	One day workshop on "Recent Trends in Engineering Materials"	07.06.2024	Workshop
7	One day National Level workshop on "Modelling and Analysis using CREO and CFD in ANSYS Fluent"	22.04.2024	Workshop
8	One day workshop on "Value Engineering using ANSYS"	08.04.2024	Workshop
9	National Conference on Advanced Research in Engineering and Applied Sciences (AREAS2024)	06.05.2024	Conference
	2022-23		
1	Five days Faculty Development Program on "Materials for Thermal and Renewable Energy Research", Faculty Development Programme on Computer Integrated Manufacturing & CNC (CIM CNC)	03.09.2022	FDP
2	Faculty Development Programme on "CFD Simulation of Thermal Management of Batteries and Power Converters"	05.09.2022	FDP
3	Faculty Development Programme on Training Tomorrow's Teacher	17.10.2022	FDP
4	FDP on Continuing Professional Development: Practising, Researching and Publishing	13.01.2023	FDP
5	Workshop on RECENT TRENDS IN INDUSTRIAL SAFETY ENGINEERING	01.11.2022	WORKSHOP
6	Understanding Nanotechnology and Engineering Nanomaterials for Diverse Technological Applications.	12.12.2022	WORKSHOP
7	HUNDI-DK WORKSHOP ON COMPUTATIONAL FLUID DYNAMICS (CFD)	19.03.2023	WORKSHOP
8	Conference on Recent Trends in Metallurgy, Materials Science and Manufacturing (RTMMSM-2023)	10.04.2023	CONFERENCE
	2021-22		
1	Faculty Development Programme on Empowering Teachers in 21st Century Education	02.09.2021	FDP
2	Faculty Development Program on "Teaching Excellence in Engineering & Management Curriculum"	09.09.2021	FDP
3	Faculty Development Programme on "Vibration and Acoustics in Machines and Automobiles.	03.11.2021	FDP
4	FDP on Micro Manufacturing: Challenges and Opportunities.	17.01.2022	FDP
5	One Week Course on Recent Trends in Materials and Manufacturing Engineering (RTMME)	01.11.2021	WORKSHOP
6	Workshop on Integrated Process Design and Control	6.12.2021	WORKSHOP
7	One Week Short Term Course on Fundamentals and Advances in Finite Element Method using ANSYS	14.03.2022	WORKSHOP
8	Workshop on Renewable Energy Grid Integration - Challenges and Operational Strategies	17.1.2022	WORKSHOP
9	National Conference on Recent Trends in Mechanical Engineering RTME 2022	23.04.2022	CONFERENCE

4.2.5 Publication of technical magazines, newsletters, etc. (2)

Publication of technical magazines, newsletters, etc.

Sl. No.	Name	Editors	Year	Publisher
1	National Seminar on Emerging Technology and Advance Engineering	Dr.M.K.Rout	2024	GITA
2	Recent Trends in Mechanical Engineering RTME2024.	Dr.M.K.Rout	2024	GITA
3	Composites And Coating: Research Scope and Applications (Coreal-2023)	Dr.M.K. Pradhan	2023	GITA
4	Computational Methods & Its Applications in Mechanical Engineering	Dr.M.K.Rout	2023	GITA
5	Recent Manufacturing Processes & Welding on Internet (RMPW)	Dr.M.K.Rout	2022	GITA
6	Recent Trends in Materials and Manufacturing Engineering (RTMME)	Dr.M.K. Pradhan	2022	GITA
7	International Journal of Research in Applied Sciences (IJRAS)	Dr.M.K.Rout	2020,2020,2022, 2024	GITA

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

Participation in inter-institute events by students (2023-24)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	ALOK KUMAR PAREEK	C-coding, GIET, BBSR	Aug, 2023	2nd
2	JANMESH PRASAD BEHERA	Ship Building, GITA, BBSR	Jan, 2024	2nd
3	ANKIT ARNAV SINGH	ROBO WAR, CVRCE University, BBSR	Oct, 2023	1st
4	ANSHUJIT MOHANTY	Paper Presentation, GITA, BBSR	Jan, 2024	3rd
5	ASHWINI KUMAR BHOUMIK	INNOVATION, GITA, BBSR	Jan, 2024	2nd
6	DEBIDUTTA MAHARANA	CART Design, KIIT University, BBSR	Nov, 2023	2nd
7	JAYASHREE SAMAL	Start Up India, CET, BBSR	Dec, 2023	2nd
8	NAMAN KUMAR	DIGIMO, GIET, Gunupur	Jan, 2024	3rd
9	BINDU NAIK	Technical Paper Presentation, GIET, BBSR	Sept, 2023	3rd
10	SAURABH KUMAR DWIVEDI	C- Coding, KIIT University, BBSR	Aug, 2023	3rd
11	RAKESH KUMAR SAHOO	Go-CART, Trident, BBSR	Jan, 2024	2nd
12	PRATYUSH KUMAR BAL	HACKATHON, SOA University	Sept, 2023	2nd
13	JYOTI PRAKASH SWAIN	Project Fair, GITA, BBSR	Jan, 2024	1st
14	MOHIT KUMAR	Paper Presentation, GIFT, BBSR	Nov, 2023	2nd
15	MANAS JENA	RAAG, CVRCE University, BBSR	Sept, 2023	3rd

Participation in inter-institute events by students (2022-23)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	BHABOK PANDA	Pentathalon, CVRC University	Oct, 2022	2nd
2	DEBASHIS MITRA	Paper Presentation, CET, BBSR	Aug, 2022	2nd
3	MANISHA PRADHAN	CIRCUITRIX, Silicon, BBSR	Sept, 2022	3rd
4	NARSHAL TUDU	HACKATHON, SOA University	Oct, 2022	3rd
5	MONALISHA DAS	Technical Paper Presentation, KMBB, BBSR	Dec, 2022	2nd
6	SUMIT KUMAR SAHOO	ROBO WARRIOR, VSSUT, Burla	Jan, 2023	1st
7	SWAGATIKA DAS	Project Fair, GITA, BBSR	Jan, 2023	1st
8	BISWA PRATAP MOHAPATRA	CAD Modelling, GIET, BBSR	Sept, 2022	2nd
9	ABHIJEET DWIVEDY	TECH QUIZ, GITA, BBSR	Oct, 2022	1st
10	ABHIJIT TRIPATHY	Ship Building, GITA, BBSR	Jan, 2023	1st
11	AFRIN BANU	Robotics Competition, GIET, Gunupur	Oct, 2022	2nd
12	AMAN KUMAR SINGH	Treasure Hunt, GITA, BBSR	Jan, 2023	1st
13	ANKIT VERMA	Paper Presentation, CET, BBSR	Jan, 2023	1st
14	ARBIND KUMAR YADAV	C- Coding, KIIT, University	Oct, 2022	3rd
15	AVINASH KUMAR SINGH	HACKATHON CONDUCTED @GIT, MSBR	Sept, 2022	1st

Participation in inter-institute events by students (2021-22)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	SUBHASHISH SALUJASINGH	Paper Presentation, GIET, BBSR	Aug, 2021	2nd
2	AFRIN BANU	Ship Building, GITA, BBSR	Jan, 2022	2nd
3	ABHIJIT TRIPATHY	Robotics Competition, GIET, BBSR	Oct, 2021	3rd
4	BISWAJEET PRADHAN	CAD Modelling, GIFT, BBSR	Jan, 2022	3rd
5	BHARATKRUSHNA SAMANTASINGHAR	HACKATHON, CET, 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	MANISH KUMAR MAHATO	Treasure Hunt, GITA, BBSR	Jan, 2022	2nd
9	ASISH KUMAR SAHU	Project Fair, GIET, Gunupur	Nov, 2021	3rd
10	MD SHEESH ALAM	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 BISWAMI BEHURA	Technical Paper Presentation, GIFT, BBSR	Nov, 2021	1st
14	JITENDRA JENA	HACKATHON, SOA University	Dec, 2021	3rd
15	RAJASHREE MALIK	C- Coding, NIT, Rourkela	Sept, 2021	3rd
16	PRANAY GANGADHAR MOHANTY	Paper Presentation, GIET, BBSR	Jan, 2022	2nd
17	MD SAHIDUR RAZA	Bridge Building, GITA, BBSR	Jan, 2022	2nd
18	SASHANKA SEKHAR PANDA	Modelling in CAD, Trident, BBSR	Oct, 2021	2nd

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 (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the institution (Yes / No)	Date of Leaving	Is HOD?
1	DR MANOJ KUMAR PRADHAN	AVOPP6210G	M.E/M. Tech and PhD	09/09/2013	Production Engineering	09	03	00	Professor	03/07/2013	03/07/2013	Regular	Yes		Yes
2	DR MANMATHA KUMAR ROUL	ABEPR4520D	M.E/M. Tech and PhD	17/07/2010	Thermal Engineering	43	08	01	Professor	01/08/2013	01/08/2013	Regular	Yes		No
3	DR SUSHANTA DASH	BBBPD7600L	M.E/M. Tech and PhD	19/03/2017	Mechanical System Design	10	01	00	Associate Professor	09/03/2018	04/03/2015	Regular	Yes		No
4	DR PRADEEP KUMAR JENA	AEWPJ8775M	M.E/M. Tech and PhD	04/11/2016	Mechanical System Design	15	01	00	Associate Professor	04/07/2017	04/01/2018	Regular	Yes		No
5	DR SURESH PANIGRAHI	AAIPP7107K	M.E/M. Tech and PhD	08/04/2013	Thermal Engineering	05	00	00	Associate Professor	08/08/2013	08/08/2013	Regular	Yes		No
6	DR GOURI PRASAD BANERJEE	ABJPB6818D	M.E/M. Tech and PhD	10/09/2013	Production Engineering	09	00	00	Professor	03/07/2017	03/07/2017	Regular	Yes		No
7	DR SAROJ KUMAR PATRA	AHYPP5645D	M.E/M. Tech and PhD	19/11/2013	Thermal Engineering	05	00	00	Associate Professor	19/11/2013	30/09/2013	Regular	Yes		No
8	DR PRASANTA KUMAR MOHANTY	ACYPM6381B	M.E/M. Tech and PhD	09/04/2013	Industrial Engineering	03	00	00	Associate Professor	09/04/2013	05/09/2007	Regular	Yes		No
9	DR CHANDRIKA SAMAL	DXXPS7919M	M.E/M. Tech and PhD	17/11/2017	Thermal Engineering	13	00	00	Associate Professor	17/11/2017	01/10/2015	Regular	Yes		No
10	DR AMIT SINGH DEHURY	AJAPD6041R	M.E/M. Tech and PhD	10/08/2016	Mechanical System Design & Dynamics	00	00	00	Associate Professor	03/03/2018	16/07/2009	Regular	Yes		No
11	DR SUPRIO BHAKTI BHAGABATI PRASANNA JAGANNATH SAHU	CPBPS6625R	M.E/M. Tech and PhD	04/11/2017	Industrial Engineering & Management	12	00	00	Associate Professor	01/09/2017	16/07/2009	Regular	Yes		No
12	DR SIBAKANTA SAHU	AEEPS4066C	M.E/M. Tech and PhD	19/09/2013	Production Engineering	10	00	00	Associate Professor	01/07/2010	21/11/2008	Regular	Yes		No
13	DR ASHOK KUMAR PRADHAN	BJPPP4443K	M.E/M. Tech and PhD	09/04/2013	Production Engineering	05	00	00	Associate Professor	01/09/2017	01/09/2011	Regular	Yes		No
14	DR MANOJ KUMAR ROUTRAY	AVOPR6830L	M.E/M. Tech and PhD	09/09/2020	Industrial Engineering	05	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
15	DR SIDHARTHA PATRO	BZGPP7302E	M.E/M. Tech and PhD	10/09/2018	Industrial Production	04	00	00	Assistant Professor		29/01/2021	Regular	Yes		No
16	Mr SUBRATA CHOWDHURY	ALFPC8105P	M.E/M.Tech	09/07/2019	Production Engineering	01	00	00	Assistant Professor		01/03/2021	Regular	Yes		No
17	DR SMRUTI REKHA SAMAL	HBRPS7041J	M.E/M. Tech and PhD	16/07/2004	Industrial Engineering	00	00	00	Assistant Professor		01/08/2021	Regular	Yes		No
18	DR RATIKANTA MISHRA	ACJPM6039G	M.E/M. Tech and PhD	03/04/1992	Industrial Engineering	05	00	00	Professor	07/07/2016	07/07/2016	Regular	Yes		No
19	DR BISHNU MISHRA	AFHPM6036G	M.E/M. Tech and PhD	15/03/1996	Production Engineering	09	03	00	Professor	27/09/2018	27/09/2018	Regular	Yes		No
20	DR CHANDRAKANTA NAYAK	AFGPN8884H	M.E/M. Tech and PhD	08/04/2013	Thermal Engineering	13	00	00	Professor	08/05/2013	01/09/2011	Regular	Yes		No
21	DR DEBASMITA PANIGRAHI	CDLPP3862R	M.E/M. Tech and PhD	10/09/2016	Industrial Engineering	05	00	00	Associate Professor	07/03/2018	07/03/2018	Regular	Yes		No
22	Ms SMRUTI SAHU	BNPS4038A	M.E/M.Tech	16/07/2016	Machine Design	00	00	00	Assistant Professor		10/01/2017	Regular	Yes		No
23	Mr CHANDAN KUMAR JENA	ATUPJ3884G	M.E/M.Tech	16/07/2017	Machine Design	00	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
24	Mr DHIRAJ KUBER SAHOO	CDOPS6600H	M.E/M.Tech	16/07/2017	Machine Design	01	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
25	Mr JAGANNATH NAYAK	ABBPN3576A	M.E/M.Tech	16/07/2017	Production Engineering	00	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
26	Mr ANDYA DEBAJYOTI	BPKPD1112D	M.E/M.Tech	16/07/2017	Thermal Engineering	01	00	00	Assistant Professor		04/07/2017	Regular	Yes		No
27	Mr MANAS RANJAN ROUT	BOXPR6801J	M.E/M.Tech	16/07/2017	Production Engineering	00	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
28	Mr SEETAL MOHANTY	DXWPM3173L	M.E/M.Tech	28/11/2017	Machine Design	00	00	00	Assistant Professor		03/07/2017	Regular	Yes		No
29	Mr SANGRAM BEHERA	BOWPB1021J	M.E/M.Tech	16/07/2017	Production Engineering	00	00	00	Assistant Professor		09/07/2017	Regular	Yes		No
30	Mr PIYUSH KANTI SAMAL	DLIPS3168A	M.E/M.Tech	25/09/2016	Production Engineering	01	00	00	Assistant Professor		03/07/2017	Regular	Yes		No
31	Mr JYOTIPRAKASH BEHERA	BEHPB6987J	M.E/M.Tech	10/09/2016	Machine Design	00	00	00	Assistant Professor		10/08/2017	Regular	Yes		No
32	Mr BISWAJIT SAHOO	KUJPS6656D	M.E/M.Tech	09/09/2016	Production Engineering	01	00	00	Assistant Professor		10/08/2016	Regular	Yes		No
33	Ms PURNIMA SAHOO	BFXPS2046D	M.E/M.Tech	16/07/2017	Thermal Engineering	00	00	00	Assistant Professor		04/07/2017	Regular	Yes		No
34	Mr CHIRANJIB PATRA	CHBPP1278R	M.E/M.Tech	11/07/2016	Machine Design	01	00	00	Assistant Professor		02/07/2018	Regular	No	18/09/2020	No

5.1 Student-Faculty Ratio (SFR) (20)

UG

No. of UG Programs in the Department: 1

B.Tech in Mechanical 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	120	6	120	9	120	6
3rd Year	120	6	120	6	120	6
4th Year	120	8	120	6	120	6
Sub-Total	360	20	360	21	480	23
Total	360		360		443	
Grand Total	380		383		443	

PG

No. of PG Programs in the Department: 2

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

M.Tech in Thermal Engineering			
Year of Study	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	18	18
2nd Year	18	18	18
Total	36	36	36
Grand Total	72	72	72

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)	384	Sum total of all (UG+PG) students	389	Sum total of all (UG+PG) students	515	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	33	FT	33	FT	34	FT
Student Faculty Ratio(SFR)	11.64	S/FR=S/(FT)	11.79	S/FR=S/(FT)	13.79	S/FR=S/(FT)
Average SFR	11.27	S/FR=(S/FR1+S/FR2+S/FR3)/3				
Fulltime 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 away with the terminology of visiting/adjunct faculty whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

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

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2024-25)	33	0
CAYm1(2023-24)	33	0
CAYm2(2022-23)	34	0

Average SFR for three assessment years : 11.27

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20)

Year	Professors		Associate Professors		Assistant Professors	
	Required FT	Available	Required FT	Available	Required FT	Available
CAY(2024-25)	3.00	6.00	8.00	11.00	18.00	16.00
CAYm1(2023-24)	3.00	6.00	8.00	11.00	19.00	16.00
CAYm2(2022-23)	3.00	6.00	8.00	11.00	17.00	17.00
Average Numbers	3.00	6.00	8.00	11.00	18.67	16.33

Cadre Ratio Marks [(AF1 : RF1) + (AF2 : RF2) * 0.8] + [(AF3 : RF3) * 0.4] * 10 : 20.00

5.3 Faculty Qualification (20)

	X	Y	F	FQ = 2 x [(10X + 4Y) / F]
2024-25(CAY)	20	12	22.00	22.61
2023-24(CAYm1)	19	14	22.00	22.26
2022-23(CAYm2)	19	19	25.00	19.92

Average assessment : 21.60

5.4 Faculty Retention (10)

Description	2023-24 (CAYm1)	2024-25 (CAY)
No of Faculty Retained	33	33
Total No of Faculty	33	33
% of Faculty Retained	100	100

Average : 100.00

Assessment Marks : 10.00

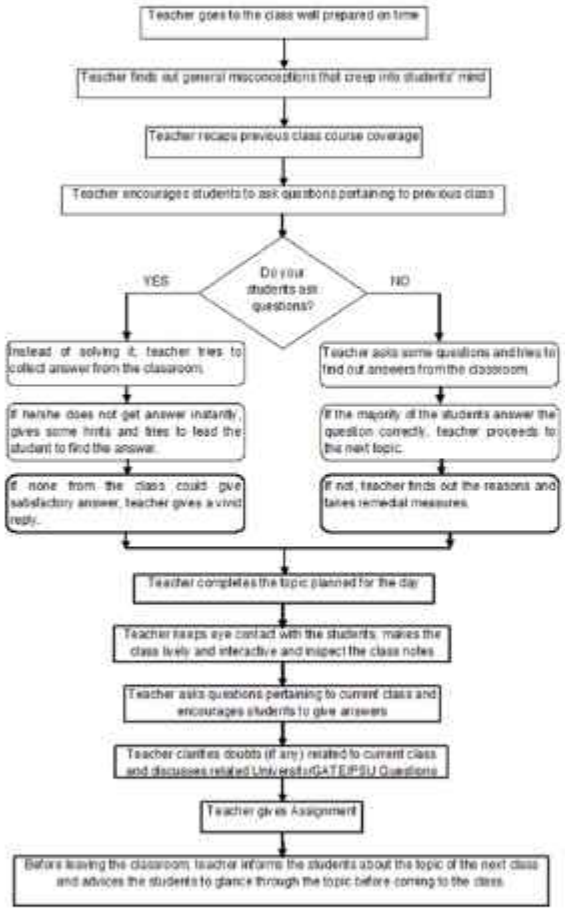
5.5 Faculty competencies in correlation to Program Specific Criteria (10)

Name of the faculty	Specialization	Research Publications(Area)	Course Developments
Dr M. K. Pradhan	ProductionEngineering	Composite material	Digital manufacturing
Dr M. K. Rout	ThermalEngineering	Two-phase flow	HVAC cryogenic
Dr R.K Mishra	ProductionEngineering	Management	Mechanical Vibration for B.Tech programme
Dr B.P Mishra	MachineDesign	HVAC Simulation	Industrial management for B.Tech programme
Dr C.K Nayak	ThermalEngineering	Alternative fuel for IC Engine	Heat transfer for B.Tech programme
Dr S. P Banerjee	ProductionEngineering	Industrial management	-
Dr R. K. Mohanty	ProductionEngineering	Industrial management	Industrial engineering for B.Tech programme
Dr J. K. Pradhan	ProductionEngineering	Two-phase flow	-
Dr A. K. Patra	ThermalEngineering	Renewable energy	-
Dr S.K. Sahu	ProductionEngineering	Composite material	Design & Simulation
Dr R. K. Jena	ProductionEngineering	Composite material	Composite material & mechanics for B.Tech programme
Dr S Panigrahi	ThermalEngineering	Renewable energy	-
Dr C. Samal	ThermalEngineering	Renewable energy	Development of IC engine Lab manual
Dr Satyajit Sahu	Production Engineering	Composite material	Automobile Engineering for B.Tech programme
Dr S. Dash	MachineDesign	Composite material	
Dr J. S. Dehury	MachineDesign	Condition monitoring	Condition monitoring of fluid element
Dr. Sitharam Panu	ProductionEngineering	Artificial Intelligence	-
Dr. Debasmita Panigrahi	Industrial Engineering	Management& social media	-
Dr Manoj Kr Routray	Industrial Engineering	Industrial management	-
Dr. Smruti R Samal	ThermalEngineering	Industrial management	-
Ms. Sabita Rout	ThermalEngineering	Industrial management	-
Ms. Smruti Sinha	ThermalEngineering	Robotics	-
Mr. Chandan Kumar Jena	Production Engineering	Vibration	-
Mr. Chiranjeevi Sahoo	ThermalEngineering	Thermal management	-
Mr. Jagannath Nayak	ThermalEngineering	Thermal energy storage &conversion	-
Mr. [illegible]	ThermalEngineering	Refrigeration	-
Mr. Manas Ranjan Rout	ThermalEngineering	IC engine	-
Ms. Seema Mohanty	ProductionEngineering	CAD&CAM	-
Ms. Purnima Sahoo	ThermalEngineering	Cryogenic	-
Mr. Sangram Behera	ThermalEngineering	CFD, fluid flow	-
Mr. Piyush Kanti Samal	MachineDesign	Condition monitoring	-
Mr. Jyotiprakash Behera	MachineDesign	Product design	-
Mr. Biswajit Sahoo	MachineDesign	Composite	-
Mr Chiranjibi Patra	ProductionEngineering	Supply chain management	-
Mr. Subrata Choudhury	MachineDesign	Vibration	-

2. InnovationsbytheFacultyinTeachingandLearning

- Mode of teaching in this institute is not only limited to the traditional Chalk & Talk methods, but also an amalgamation of the modern technology e.g., power point presentation, audio-visual teaching etc. along with the traditional one. The course files are distributed among the students by the subject teacher well in advance of the commencement of the class.
- Faculty shares the study materials and handouts among the students via e-mail, websites, whatsapp groups.
- The biggest resource for self-learning is obviously the college library. The college library not only possesses plenty of books to meet the students' syllabus-oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge. The library also possesses a number of magazines and periodicals related to different branches of science and technology, which the students may readily access.
- The library also subscribes to a host of online and printed journals which are also made readily available to the students.
- The library also includes a computer room with internet access which is often used by students to access various forms of e-materials for their self-development.
- Students are encouraged to visit NPTEL lectures, ERNET and COURSERA, browse different internet sites to increase their knowledge base about the subject. Moreover, through these activities students acquire relevant knowledge which is beyond the syllabus as per the university curriculum.
- This again, students are also endowed with various resource materials by the teachers for their self-development and they are also encouraged by them to participate in various competitions of technical innovations for which again they must participate in innovative thinking and implementations.
- The Tech-Fest organized by the college also serves to create opportunities for students' self-development based on entire syllabus technological knowhow.
- The Department of Humanities regularly organizes soft Skill classes for various departments, based on availability and requirement, to enhance the students' communication skills, grooming and body language to equip them for the professional world.

GITA MODEL FOR IDEAL TEACHING



Name of the faculty	Max 5 Per Faculty		
	2023-24(CAYm1)	2022-23(CAYm2)	2021-22(CAYm3)
Dr M. K. Pradhan	5.00	3.00	3.00
Dr M. K. Rout	3.00	3.00	3.00
Dr R.K Mishra	3.00	3.00	3.00
Dr B.P Mishra	3.00	3.00	3.00
Dr C.K Nayak	3.00	3.00	3.00
Dr G. P Banerjee	3.00	3.00	3.00
Dr P. K. Mohanty	3.00	3.00	3.00
Dr L. K. Pradhan	3.00	3.00	3.00
Dr S. K. Panda	3.00	3.00	3.00
Dr S.K. Sahu	3.00	3.00	3.00
Dr P. K. Jena	5.00	3.00	3.00
Dr S Panigrahi	3.00	3.00	3.00
Dr C. Samal	3.00	3.00	3.00
Dr Satyajit Sahu	5.00	3.00	3.00
Dr S. Dash	5.00	3.00	3.00
Dr J.S. Dehury	3.00	3.00	3.00
Dr. Sidharth Panda	3.00	3.00	3.00
Dr. Debasmita Panigrahi	3.00	3.00	3.00
Dr.Manojku Routray	3.00	3.00	3.00
Dr. Smruti rekha Samal	3.00	3.00	3.00
Ms. Sabita Rout	3.00	3.00	3.00
Ms. Simmi Sinha	3.00	3.00	3.00
Mr. Chandan Kumar Jena	3.00	3.00	3.00
Mr. Dhirenjeeb Sahoo	3.00	3.00	3.00
Mr. Jagannath Nayak	3.00	3.00	3.00
Mr. JyotiyaDibyajyoti	3.00	3.00	3.00
Mr. Manas Ranjan Rout	3.00	3.00	3.00
Ms. Sasmita Mohanty	3.00	3.00	3.00
Ms. Purnima Sahoo	3.00	3.00	3.00
Mr. Sangram Behera	3.00	3.00	3.00
Mr. Piyush Kanti Samal	3.00	3.00	3.00
Mr. Jyotiprakash Behera	3.00	3.00	3.00
Mr. Biswajita Sahoo	3.00	3.00	3.00
Mr Dhiranjib Panda	3.00	3.00	3.00
Mr. Subrata Choudhury	3.00	3.00	3.00
Sum	113.00	105.00	105.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1	25.00	25.00	25.00
Assessment (3×Sum / 0.5RF)	30.80	28.80	26.20

Average assessment over 3 years : 15.00

5.8 Research and Development (75)

Academic Research

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

Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.

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

Where standards shall be mentioned.

Faculty Publication :

Year	2023-24	2022-23	2021-22
Number of Research paper published	49	39	30
Books/Book Published	8	4	3

Faculty Members Guided Ph.D

Year	2024-25	2023-24	2022-23	2021-22
PhD Guided	39	27	23	19
PhD awarded	1	1	10	10

Faculty receiving Ph.D

Year	2024-25	2023-24	2022-23	2021-22
PhD awarded	1	00	1	00

List of Research Publications during the last four years

Sl. No.	Authors Name	Year of Publication	Title	Journal Name
1	M.K Rout	2024	Thermoplastic polymer track with gearing mechanism to harvest green energy for sustainable development	Materials Processing and Characterization
2	M.K Rout	2024	Environmental Sustainability for Agriculture	Multidisciplinary approaches for sustainable development
3	M.K Rout	2024	An innovative irrigation system for farming towards environmental sustainability in India	Environ Prog Sustainable Energy
4	M.K Rout	2024	Thermoplastic polymer track with gearing mechanism to harvest green energy for sustainable development	E3S Web of Conferences
5	C. K.Nayak	2024	Analyzing the Critical Success Factors Influencing the Small and Medium-sized Enterprises in Odisha (India): A Cross-sectional Study	Circular Economy and Sustainability
6	P K Jena	2024	Mechanical and thermal properties of Careya arborea bast fiber-reinforced chitosan composites for packaging industries	Biomass Conversion and Biorefinery
7	P K Jena	2024	Investigation of mechanical, thermal and morphological properties of rattan fiber-reinforced polymer composites to produce lightweight material for automotive industries	Thermal Advances
8	C Samal	2024	Machinability and Surface Morphology of TiB_2 Reinforced Al 7075 MMC During EDM with Cryogenic Treated Cu Electrode	Experimental Techniques
9	C Samal	2024	Machinability investigation and surface modification of nano-TiB_2 and MR grafted MWCNT hybridized Al 7075 matrix ternary composite through powder-mixed EDM	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
10	C Samal	2024	Energy, exergy and emission analysis of traditional and improved cookstoves: A comparative study	AIP Conference Proceedings
11	Dr. M. K. Rout	2023	Impact of flapping trajectory and foil gap on induced thrust of a flapping foil	Ocean Engineering
12	Dr. M. K. Rout	2023	Advances in numerical analysis of [illegible] tubes: A review	AIP Conference Proceedings
13	Dr. M. K. Rout	2023	A New Irrigation System Without Any External Sources	Journal of The Institution of Engineers (India): Series A
14	Dr. M. K. Rout	2023	Experimental study of fluid flow properties at exit of the heated tube subjected to natural convection heat transfer	Materials Today: Proceedings
15	Dr. M. K. Rout	2023	Influence of Various Surface Treatments on Mechanical, Thermal, Morphological, and Water Absorption Properties of Rattan (Calamus beccarii) Fiber	Journal of Natural Fibers
16	Dr. M. K. Rout	2023	Calotropis gigantea bast fiber based epoxy composites for automotive application: An experimental study	Polymer Composites
17	[illegible] SSPJ Sahu	2023	Influence of Various Surface Treatments on Mechanical, Thermal, Morphological, and Water Absorption Properties of Rattan (Calamus beccarii) Fiber	Journal of Natural Fibers
18	[illegible] SSPJ Sahu	2023	Calotropis gigantea bast fiber based epoxy composites for automotive application: An experimental study	Polymer Composites

19	Sajjad SBPJ Sahu	2020	Extraction and Characterization of Natural CASCABELA Thevetia Bast Fibers: A Potential Candidate as Reinforcement in Epoxy Composites.	Journal of Natural Fibers.
20	Sajjad SBPJ Sahu	2020	Characterization of natural fiber extracted from Bauhinia vahlii bast subjected to different surface treatments: A potential reinforcement in polymer composite.	Journal of Natural Fibers.
21	Sibakant a Sahu	2020	Influence of Various Surface Treatments on Mechanical, Thermal, Morphological, and Water Absorption Properties of Rattan (Calamus beccarii) Fiber	Journal of Natural Fibers.
22	Sibakant a Sahu	2020	Calotropis gigantea bast fiber based epoxy composites for automotive application: An experimental study	Polymer Composites.
23	Sibakant a Sahu	2020	Extraction and Characterization of Natural CASCABELA Thevetia Bast Fibers: A Potential Candidate as Reinforcement in Epoxy Composites.	Journal of Natural Fibers.
24	Sibakant a Sahu	2020	Characterization of natural fiber extracted from Bauhinia vahlii bast subjected to different surface treatments: A potential reinforcement in polymer composite.	Journal of Natural Fibers.
25	Dr. C Samal	2020	Emission characteristics of biomass cookstoves: A comprehensive review.	AIP Conference Proceedings.
26	Dr. C Samal	2020	A New Irrigation System Without Any External Sources.	Journal of The Institution of Engineers (India): Series A
27	Dr. C Samal	2020	Parametric Optimization and Prediction of Material Removal Rate During Turning Al 7075 Alloy with TiCN-Coated WC Inserts.	Lecture Notes in Mechanical Engineering
28	Dr. C Samal	2020	Turning Investigations of Al 7075 Alloy with TiCN-Coated WC Inserts: Parametric Optimization and Cutting Temperature Prediction.	Lecture Notes in Mechanical Engineering
29	Dr. C Samal	2020	A Comprehensive Review on Performance Evaluation Methods of Biomass Cook Stoves.	Waste Recovery and Management: An Approach Toward Sustainable Development Goals, CRC Press.
30	Dr Susmit a Dash	2020	Parametric Optimization in Nd:YAG Laser Micro-drilling of Carbon Black/Epoxy Composite Utilizing GRA and Response Surface Methodology	Lecture Notes in Mechanical Engineering
31	Dr Susmit a Dash	2020	Finite element analysis of thermoelastic free vibration behaviour of hardcore higher-order doubly curved sandwich shell panel	International Journal of Structural Engineering
32	Dr.MK Pradhan	2020	Enhancement of Mechanical, Thermal and Morphological Properties of Eleusine Indica Grass Fiber Reinforced Epoxy Composites'.	Journal of Natural Fibers.
33	Dr. P.K Jena	2020	Mechanical and Thermal Properties of Careya arborea bast fiber-reinforced chitosan composites for packaging industries.	Biomass Conversion and Biorefinery
34	Dr. P.K Jena	2020	Enhancement of Mechanical, Thermal and Morphological Properties of Eleusine Indica Grass Fiber Reinforced Epoxy Composites'.	Journal of Natural Fibers.
35	Dr. P.K Jena	2020	A Novel Cuckoo Search Optimized RBF Trained ANN in a Nonlinear Channel Equalization	Lecture Notes in Networks and Systems
36	MK Pradhan	2020	Impact of flapping trajectory and foil gap on induced thrust of a flapping foil	Ocean Engineering
37	Dr Panigrahi	2020	Factors Influencing the Usage of online food delivery: A Study in Bhubaneswar City, Odisha	Journal of Emerging Technologies and Innovative Research
38	Dr Panigrahi	2020	Impact of social media on sustainable development of ecotourism with reference State of Odisha	Himalaya Publication
39	Dr Panigrahi	2020	Social Media Impact on Students Academic Performance: A Study of College Students in Bhubaneswar	2nd International Conference on Pervasive Knowledge and collectiveIntelligence(ICPKCI)
40	Dr Panigrahi	2020	The effect of social media on sustainable development of ecotourism with reference State of Odisha	Journal of Emerging Technologies and Innovative Research
41	Dr. OK Nayak	2020	Trade-Off Study on Economy and Environmental aspects of a Dual Fuel Diesel Engine Using Diesel Additive and Producer Gas	Journal of energy resources technology
42	Dr. MK Rout	2020	A short review on cooling process using compressed cool air by vortex tube in machining	Materials Today: Proceedings
43	Dr. MK Rout	2020	Design and development of smokeless stove for a sustainable growth	Archives of Thermodynamics
44	Dr. MK Rout	2020	Technology to Develop a Smokeless Stove for Sustainable Future of Rural Women and also to Develop a Green Environment	Journal of The Institution of Engineers (India): Series A

45	Dr. MK Rout	2020	Technology to Develop a Smokeless Stove for Sustainable Future of Rural Women and also to Develop a Green Environment	Journal of The Institution of Engineers (India): Series A
46	Dr. MK Rout	2020	Validation of experimental results with theoretical by using ANSYS workbench on vertical tube subjected to natural convection heat transfer without internal obstacles	Materials Today: Proceedings
47	Dr. MK Rout	2020	Thermal insulation and performance of rcc slabs	Book chapter by Blue rose publisher
48	Dr. MK Rout	2020	Design and Development of Improved Methods of Curing of Bricks During Manufacturing Process and Construction Work to Save Water, Minimize Pollution and Human Effort	Ecological and Health Effects of Building Materials,
49	Dr. C Samal	2020	Natural Convection Flow Through Heated Vertical Parallel Plates	Thermal Engineering and Applications
50	Sibakanta Sahoo	2020	Effect of chemical treatment and fiber loading on various properties of Bauhinia vahlii bast fibers/acrylonitrile butadiene styrene composites for automotive body parts	Polymer Composites
51	Sibakanta Sahoo	2020	Mechanical, thermal and microstructural studies of acrylonitrile butadiene styrene reinforced with rattan (Calamus beccarii) fiber composites	Polymer Composites
52	Sibakanta Sahoo	2020	Mechanical and thermo-physical properties of Cascabela thevetia–Calotropis gigantean fiber reinforced epoxy based hybrid composites	Polymer Composite
53	Sibakanta Sahoo	2020	Effect of Various Chemical Treatments on Physical, Mechanical, Thermal and Morphological Properties of Calotropis Gigantea Bast Fiber	Journal of Natural Fibers
54	Saiyad SBPJ Sahu	2020	Effect of chemical treatment and fiber loading on various properties of Bauhinia vahlii bast fibers/acrylonitrile butadiene styrene composites for automotive body parts	Polymer Composites
55	Saiyad SBPJ Sahu	2020	Mechanical, thermal and microstructural studies of acrylonitrile butadiene styrene reinforced with rattan (Calamus beccarii) fiber composites	Polymer Composites
56	Saiyad SBPJ Sahu	2020	Mechanical and thermo-physical properties of Cascabela thevetia–Calotropis gigantean fiber reinforced epoxy based hybrid composites	Polymer Composite
57	Saiyad SBPJ Sahu	2020	Effect of Various Chemical Treatments on Physical, Mechanical, Thermal and Morphological Properties of Calotropis Gigantea Bast Fiber	Journal of Natural Fibers
58	Dr PK Jena	2020	Effect of surface modification of vetiver fibers on their physical and thermal properties	Journal of Natural Fibers
59	Dr PK Jena	2020	Fabrication and characterization of acrylic acid treated rattan fiber reinforced polyethylene terephthalate composites for packaging industries	Journal of Natural Fibers
60	Dr PK Jena	2020	Effectiveness of rattan fiber as a reinforcing material in polymer matrix composites: an experimental study	Journal of Natural Fibers
61	Dr PK Jena	2020	Utilization of Chemically Modified Novel Urena Lobata Fibers as Reinforcement in Polymer Composites – an Experimental Study	Journal of Natural Fibers
62	Dr PK Jena	2020	Improvement of mechanical and thermal properties of polyethylene terephthalate (PET) composite reinforced with chemically treated ladies finger natural fiber	Journal of Natural Fibers
63	Dr PK Jena	2020	A novel application of HPSOGWO trained ANN in nonlinear channel equalization	6th International Conference
64	Dr PK Jena	2020	A study on erosion wear behavior of benzoyl chloride modified vetiver grass (Chrysopogon Zizanioides) and red mud as reinforcement in polymer based composites	Journal of Natural Fibers
65	Dr PK Jena	2020	Abrasive wear performance of vetiver grass-red mud-reinforced hybrid composites: Effect of fiber loading on various wear properties	Journal of Natural Fibers
66	Dr PK Jena	2020	Comprehensive investigation of mechanical and thermal properties of vetiver grass and red mud reinforced hybrid composites	Journal of Natural Fibers
67	Dr. MK Rout	20201	Fluid Dynamics and Pressure Drop Prediction of Two-Phase Flow Through Sudden Contractions	Journal of Fluids Engineering
68	Dr. MK Rout	2021	Heat transfer characteristics of methane-air diffusion flames impinging normally on plane surfaces	Journal of Computational & Applied Research in Mechanical Engineering
69	Dr. MK Rout	2021	Enhancement of Natural Convection Inside Vertical Tubes Using Internal Obstacles as Rings with Different Arrangements	Current Advances in Mechanical Engineering: Select Proceedings of ICRAMERD
70	Dr. MK Rout	2021	Mechanical Concept on Design and Development of Irrigation System to Help Rural Farmers for Their Agriculture Purpose During Unavailability of External Power	IOP Conference Series: Materials Science and Engineering

71	Dr. MK Rout	2021	Design and Development of Improved Methods of Curing of Bricks During Manufacturing Process and Construction Work to Save Water, Minimize Pollution and Human Effort	Book chapter: Ecological and Health Effects of Building Materials
72	Dr. MK Rout	2021	Forced Draft and Superheated Steam for Design and Development of Community Smoke Less Chulha to Help Women in Rural Areas	Advanced Manufacturing Systems and Innovative Product Design: SelectProceedings of IPDIMS 2020
73	Dr. PK Jena	2021	Effectiveness of Rattan Fiber as a reinforcing material in polymer matrix composites: An Experimental Study	Journal of natural fibres
74	Dr. PK Jena	2021	Eco-friendly, bio-degradable compostable plates from areca leaf	Book chapter: Woodhead publishing
75	Dr. PK Jena	2021	Experimental Investigation on Mechanical, thermal and Morphological behaviour of pineapple/luffa bark reinforced epoxy polymer composite	Journal of natural Fibre
76	Dr. PK Jena	2021	Fabrication and characterization of acrylic acid treated Rattan Fibre reinforced polyethylene terephthalate composites for packaging industries	Journal of natural Fibre
77	Dr. PK Jena	2021	Improvement of mechanical and thermal properties of polyethylene terephthalatecomposite reinforced with chemically treated ladies' finger natural fibre	Journal of natural Fibre
78	Dr. PK Jena	2021	Emission studies on a direct injection diesel engine fueled with karanja biodiesel using dimethyl carbonate as additive	Turkish Journal of Computer and Mathematics Education
79	Dr.Susmita Dash	2021	Finite Element Analysis of Natural Frequencies of Layered Composite Plate in Thermal Environment	Designing Engineering
80	Dr.Susmita Dash	2021	Artificial intelligence techniques for fault assessment in laminated composite structure: a review	E3S Web of Conferences 309, 01088
81	Dr.Susmita Dash	2021	Cutting Performance analysis of Surface Textured Tools in Dry Turning: Optimisation of process parameters	E3S Web of Conferences 309, 01180 (2021)
82	Dr.Susmita Dash	2021	A novel spring design method for vehicular suspension system	Patent filed
83	Dr.CK Nayak	2021	Emission analysis of a dual fuel diesel engine fuelled with different gaseous fuels generated from waste biomass	International Journal of Ambient Energy
84	Dr.CK Nayak	2021	Numerical investigation on air-cooling enhancement of a motor cycle engine by varying fins geometry	Materials Science and Engineering
85	Dr. CK Nayak	2021	Emission Studies on a Diesel Engine Fueled with Mixed Biodiesel Produced from Non-edible Oils.	Lecture notes in mechanical engineering

C3.2 Sponsored Research (20)

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount(In Rupees)
AICTE Assisted Idea lab	3 yrs	AICTE, NEW DELHI	3600000.00
			Total Amount(X): 3600000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount(In Rupees)
Two phase flow	3 yrs	AICTE,NEW DELHI	1200000.00
AICTE Assisted Idea lab	3 yrs	AICTE, NEW DELHI	3600000.00
			Total Amount(Y): 3600000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount(In Rupees)
AICTE Assisted Idea lab	3 yrs	AICTE, NEW DELHI	3600000.00
			Total Amount(Z): 3600000.00

Cumulative Amount(X + Y + Z) = 10800000.00

C3.3 Development activities (10)

Product development activities in Mechanical Department

Sl. No.	Product Development	Details	Year
1	Coconut Cutting Machine	Design and fabrication of hydraulic coconut cutting machine by Mechanical students for ease of coconut cutting	2024
2	Automatic floor cleaner Machine	Design and fabrication of automatic floor cleaner Machine by Mechanical students for ease of floor cleaning	2024
3	Solar cooker	Design and fabrication of solar cooker by Mechanical students for ease cooking without any fuel and electricity	2024
4	Waste to wealth machine	Design and fabrication of waste to wealth machine by Mechanical students for production of Fertilizer from kitchen waste.	2024
5	Cycle paddle assisted Washing machine	Design and fabrication of Cycle paddle assisted Washing machine without consuming electricity	2023
6	Solar Dryer	Design and fabrication of Solar dryer by mechanical students to avoid electricity	2023
7	Corn Thresher Machine	Design and fabrication of motor operated corn thresher machine by Mechanical students for agricultural use	2023
8	Coconut tree climber	Design and fabrication of a mental settable model of Coconut tree climber by Mechanical students for agricultural use. This product has been tested and verified by different agro organizations.	2022
9	E-Rickshaw	Design and production of a three and a four-wheel battery-operated rickshaw by the Mechanical students with collaboration of Union group. These rickshaws has been used for transportation inside the college campus.	2022
10	E bike	Design and fabrication of battery-operated motor bike by Mechanical students.	2021
11	Foldeb chair cum dining table	Design and fabrication of Foldeb chair cum dining table by Mechanical students for ease handling	2021

Research Laboratories developed

Sl. No.	Name of the Laboratory	Details	Year
1	Advanced production Lab	Laser Cutting machine	2023-24
2	Advanced production Lab	Automated Bending Machine	2023-24
3	Advanced Fluid mechanics Lab	UG & PG students will be able to learn and monitor about fluid dynamics and their behaviour under various flow conditions by using CFD.	2023-24
4	Advanced SOFTWARE Lab	UG & PG students will be able to learn and use various mechanical software's like CATIA, ANSYS and CFD for designing, fabrication and analysis purposes.	2021-22

Instructional materials developed

Sl. No.	Name of the Laboratory	Details	Year
1	Advanced Fluid Mechanics Lab Manual	A Lab manual has beendeveloped by the help of subjectspecialited professors.	2023-24
2	Advanced WeldingLab	A Lab manual has beendeveloped by the help of subjectspecialited professors and theproductsupplier KENNEDY	2019-20
3	IC Engine Lab	A Lab manual has beendeveloped for VariableCompressionEngine(VCR)	2018-19

CO-PO Consistency (from Industry) (2)

2023-24 (CFYm1)

Project Title	Duration	Funding Agency	Amount(In Rupees)
Solar power pl	1 yr	Bahl Associates	3000000.00
Design and Fa	1 yr	ROXON Pvt Ltd	80000.00
Design and Fa	1 yr	M/s C V Rathe	45000.00
			Total amount(X): 3125000.00

2022-23 (CFYm2)

Project Title	Duration	Funding Agency	Amount(In Rupees)
Fixings for Sol	1 yr	Gayatri Engines	1100000.00
Design and Fa	1 yr	M/s Bahl Udyog	250000.00
Design and Fa	1 yr	M/s Mookambi E	55000.00
			Total amount(Y): 1405000.00

2021-22 (CFYm3)

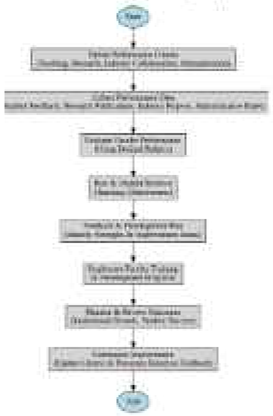
Project Title	Duration	Funding Agency	Amount(In Rupees)
Design and Fabrication of V	1 yr	Golden electric	1050000.00
Design and Fabrication of C	1 yr	M/s Jupiter gro	115000.00
Design and Fabrication of S	1 yr	M/s Bahl Udyog	125000.00
			Total Amount(Z): 1290000.00

Cumulative Amount(X + Y + Z) = 5820000.00

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

[illegible]

[illegible]



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

Faculty Publication:

Sl. No.	Name	Designation	Topic	Year	Date
1	Dr.S.K.Mishra	Prof. GIU, PAP	Smart Materials and Their Applications in Mechanical Systems	2020	Jan 4
2	Dr.S.K.Mohapatra	Professor,SKSU,University	Nanomaterials for Mechanical Applications	2020	Jan 9
3	Dr.R.R.Dash	TechnicalHead,KEEP,Finda	Industry 4.0: Integration of IoT in Manufacturing	2020	Jan 23
4	Dr.S.K.Biswal	CNCTrainer,CTTC	Lubricnas in Composites and Light weight Materials	2020	Jan 27
5	Dr.R.R.Swain	Prof. Prof. IGIT Saranga	Biofuels and Their Role in Future Transportation	2020	Feb 3
6	Dr.U.K.Pradhan	Professor,ITBhubaneswar	Nanomaterials for Mechanical Applications	2020	Feb 14
7	Dr. S.Rauniya	Professor KIIT University	AI and Machine Learning in Mechanical Systems	2020	Feb 27
8	Dr.P.R.Dhal	Professor IGIT Saranga	Lubricnas in Heat Transfer Technologies	2020	March 1
9	Dr.S.K.Mohanara	Professor,CET,Bhubaneswar	Waste Heat Recovery Systems in Industries	2020	Feb 6
10	Dr.T.R.Mohapatra	Professor,VSSUT,Burla	Autonomous Vehicles: Design and Challenges	2020	July 23
11	Dr.J.Mishra	TrainingHead,CTTC	Automation in Smart Faculties	2020	August 27
12	Dr.R.Dash	Professor,VSSUT,Burla	Optimization in Mechanical Design Using AI	2020	Septemb er 19
13	Dr.K.Pal	Professor,VSSUT,Burla	Humanoid Robots: Design and Control	2020	October 22
14	Dr.Himansu,Panda	Professor KIIT University	Failure Analysis and Prevention in Engineering Components	2020	Novembe r 20
15	Dr.J.Rana	Professor,VSSUT,Burla	Green Manufacturing: A Path Towards Sustainable Industries	2020	Novembe r 28
16	Dr.R.K.Mallick	Professor,CET,Bhubaneswar	CFD Applications in Aerospace and Automotive Engineering	2020	Decembe r 29
17	Dr.L.N.Panda	Professor,CET,Bhubaneswar	Failure Analysis and Prevention in Engineering Components	2020	Decembe r 8
18	Prof. S K Dash	HOD, Dept. of Mechanical Engg., IIT Kharagpur	Next-Generation Internal Combustion Engines	2020	October 12
19	Prof. S K Mohapatra	ProfessorDept.ofMechanicalEngg.ITER ubaneswar	Role of Mechanical Engineers in Achieving Net-Zero Carbon Emission	2020	October 0

6 FACILITIES AND TECHNICAL SUPPORT (50)

C1 Adequate and well equipped laboratories, and technical manpower (10)

Sr. No.	Name of the Laboratory	Number of students per setup(Batch 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	Material Testin	30	UTM, Hardnes	6 hrs	Mr. Harendra	Lab. Assistant	Diploma
2	IC Engine Lab	30	VCR Engine, 1	6 hrs	Mr. Nikhilesh	Lab. Assistant	Diploma
3	Fluid Mechanic	30	Orifice Meter, 1	6 hrs	Mr. Jyoti Prako	Lab. Assistant	Diploma
4	Hydraulic Mac	30	Pelton Turbine	6 hrs	Mr. Rakesh Ba	Lab. Assistant	Diploma
5	Refrigeration a	30	AC Test Rig, V	6 hrs	Mr. Tarsem Pa	Lab. Assistant	Diploma
6	Heat Transfer L	30	Composite Sla	6 hrs	Mr. Tarsem Pa	Lab. Assistant	Diploma
7	Machine Dyna	30	Gyroscope Tes	6 hrs	Mr. Diganto Da	Lab. Assistant	Diploma
8	Production Lab	30	Sine bar, CNC	6 hrs	Mr. Sadadyut	Lab. Assistant	Diploma
9	Measurement	30	Rotameter, Dig	6 hrs	Mr. Ganesh Pa	Lab. Assistant	Diploma
10	Solid Modelling	30	Auto CAD, Wi	6 hrs	Mr. Diganta D	Lab. Assistant	Diploma
11	Automobile Lal	30	Automobile Pa	6 hrs	Mr. P. Rout	Lab. Assistant	Diploma
12	Applied Mecha	30	Fly Wheel, Scr	6 hrs	Mr. P. Rout	Lab. Assistant	Diploma
13	Advanced Wel	30	Automatic MIG	6 hrs	Dinh Agarwal	Lab. Assistant	Diploma

6.2 Laboratories maintenance and overall ambiance (10)

General Working of labs:

- The laboratories are maintained with all equipment in good working order. The maintenance of the equipment carried out regularly.
- All laboratories are adequately ventilated.
- The machines are arranged so that the student can feel comfortable to work. The lists of experiments that are being carried out are shown in all laboratories.
- Blackboards are provided in all laboratories for informational experiments for students.

CAD Lab:

- The cad lab of the department has all the computers in good working condition and internet service.
- The preventive maintenance of the laboratory is done regularly.
- Each computer in the laboratory is assigned a unique identification number.
- The laboratory has an uninterrupted power supply (UPS).
- The laboratory is well lit and with air conditioning.

6.3 Safety measures in laboratories (10)

Sr. No.	Laboratory Name	Safety Measures
1	Material Testing Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
2	Applied Mechanics Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth
3	Fluid Mechanics & Hydraulic Machine Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth
4	IC Engine Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
5	Heat Transfer Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
6	Refrigeration and Air Conditioning Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
7	Machine Dynamics Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
8	Measurement Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
9	Automobile Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
10	Advanced Welding Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.
11	CAD Lab	Fire extinguisher- 1Nos, goggles, exhaust fan -2 Nos. First aid box contains Burnol cream, Betadine ointment, Dettol, cotton, band aid and binding cloth.

6.4 Project laboratory (20)

Sl. No.	Name of the Facility	Name of the Equipment/ Software	Purpose
1.	Advanced Welding Lab	Automatic Welding Machine: MIG & TIG	UG, PG and Research Work
2.	Central Workshop	Lathe, Milling M/C, Shaper, Surface Grinding, Drilling, Gear Hobbing	UG, PG and Research Work
3.	IC Engine Lab	VCR- Single cylinder 4 S. Engine, 4-stroke single cylinder C.I. engine, 4-stroke single cylinder S.I. engine.	UG, PG and Research Work
4.	Metal Cutting & Simulation Lab	CAD, CATIA, Ansys Auto	UG, PG and Research Work

7 CONTINUOUS IMPROVEMENT (75)

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (20)

7.1Os Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	3.01	2.03	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
- Curriculum enhancements to integrate practical case studies and real-world problem-solving. - Additional remedial classes and bridge courses for fundamental subjects. - Introduction of interdisciplinary elective courses to strengthen cross-domain knowledge. - Implementation of project-based learning and hands-on laboratory experiments to reinforce theoretical understanding. - Additional training sessions and workshops on industry-standard CAD software such as AutoCAD, SolidWorks, and CATIA.			
PO 2 : Problem Analysis			
PO 2	1.97	1.91	Attainment level has not been obtained. In order to achieve attainment level action taken is presented.
- Incorporation of more analytical and problem-solving exercises in coursework. - Increased focus on case studies and real-world engineering applications. - Development of structured problem-solving frameworks to guide students in analytical thinking. - Additional training in computational tools such as MATLAB and LINDYS to enhance problem-solving capabilities. - Organization of workshops and seminars by industry experts to bridge the gap between theory and application			
PO 3 : Design/development of Solutions			
PO 3	1.91	1.89	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
- Integration of structured design methodologies and problem-solving frameworks into coursework. - Introduction of sustainability-focused project requirements to enhance environmental and societal impact awareness. - Encouragement of industry-sponsored projects to provide students with real-world design challenges. - Additional training in engineering design software such as AutoCAD, SolidWorks, and LINDYS to support design-based learning. - Inclusion of peer review and iterative feedback mechanisms in project-based courses.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.91	1.88	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
- Integration of investigative methodologies such as data analysis, case studies, and simulations into coursework. - Hands-on training in advanced simulation tools and experimental techniques. -Encouragement of student-led research projects and participation in technical conferences.			
PO 5 : Modern Tool Usage			
PO 5	1.73	1.67	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
- Introduction of advanced CAD, CAE, and simulation tools in coursework. - Training programs on industry-relevant software such as MATLAB, LINDYS, and SolidWorks.			
PO 6 : The Engineer and Society			
PO 6	1.93	1.91	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
-Integration of ethics and societal impact studies into project evaluations. -Conducted awareness sessions on the role of engineers in society. -Case studies on real-world engineering failures and their impact on society.			
PO 7 : Environment and Sustainability			
PO 7	1.93	1.88	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
-Inclusion of sustainability-focused coursework. -Introduction of green technology projects and industrial case studies. -Organized seminars on environmental consciousness in engineering design.			
PO 8 : Ethics			
PO 8	1.96	2.09	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
1. Yoga classes are conducted to improve the moral values. 2. More courses/topics on ethics, business ethics will be added. Invited guest lecture may be arranged related to value education.			
PO 9 : Individual and Team Work			
PO 9	1.93	2.0	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
1. Students are conducting department symposiums. 2. Students participate in workshops and guest lectures. 3. Students will be encouraged to undergo team projects. 4. They will be advised to undertake engineering curriculum projects and social activities in groups.			
PO 10 : Communication			
PO 10	2.04	2.07	Attainment level has not been obtained. In order achieved attainment level action taken is presented.
-Additional technical writing workshops and public speaking exercises. -Integration of communication-based assignments into the curriculum.			
PO 11 : Project Management and Finance			
PO 11	1.91	1.79	Attainment level has not been obtained. Limited exposure to financial and project management principles.
-Introduction of project budgeting and cost estimation in coursework. -Guest lectures from industry professionals on financial management.			
PO 12 : Life-long Learning			
PO 12	1.89	2.00	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
-Promotion of online certification courses and MOOCs. -Encouraging participation in research activities and skill development programs.			

7.1PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.			
PSO 1	1.93	2.07	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
-Strengthened laboratory-based coursework with more practical sessions. -Introduced industry-relevant case studies and problem-solving tasks. -Organized industrial visits and hands-on workshops to enhance real-world learning. -Encouraged participation in technical competitions and hackathons for skill enhancement.			
PSO 2 : To enable the student to take-up career in industries or to pursue higher studies in mechanical and interdisciplinary programs.			
PSO 2	2.06	2.09	Attainment level has been obtained. In order to sustain the achieved attainment level and further improve them action taken is presented.
-Enhanced placement training with mock interviews, resume-building workshops, and technical skill development. -Conducted guidance sessions on opportunities in interdisciplinary programs and research-based higher studies. -Introduced elective courses aligned with current industry demands to improve employability. -Strengthened alumni interaction programs to provide mentorship and networking opportunities.			
PSO 3 : To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.			
PSO 3	2.13	2.01	Attainment level has not been obtained. In order to achieved attainment level action taken is presented. -Low awareness and participation in entrepreneurial ventures. -Need for reinforcement of ethical and social responsibility in engineering practices.
- Proposal for conducting more entrepreneurship development programs, incubation support, and startup mentorship sessions. -Introduce integrated courses on business fundamentals and intellectual property rights. -Organized seminars on ethics, sustainability, and social impact in engineering. -Encouraged participation in community-based engineering projects to develop a sense of social responsibility.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (12)

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.

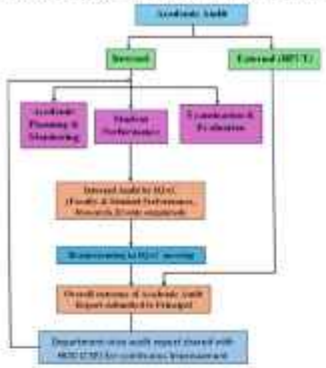


Fig 7.1: Academic audit process for Department of Computer Science & Engineering

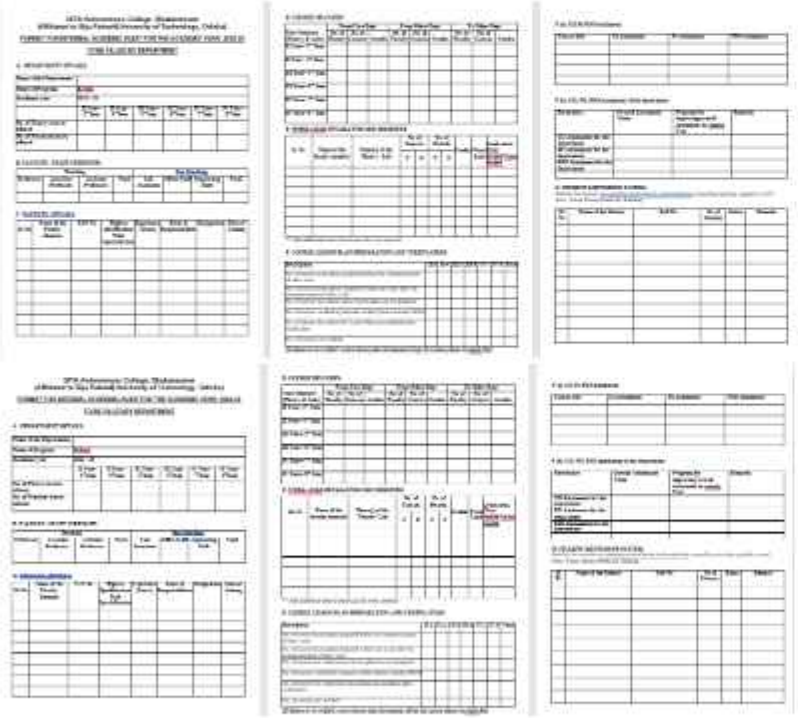
External Academic Audit:

Our affiliating university, SPUT, assigns two senior professors to conduct an academic audit across all departments of our institution. Upon completing the audit, the auditors submit a detailed report to the Principal for review and further action. The Principal carefully examines the report and shares it with the respective HODs for departmental analysis. The recommendations from external auditors, along with the Principals suggestions, are implemented to drive continuous improvement for both students and faculty in the Department of Computer Science & Engineering.

Internal Academic Audit:

The Internal Quality Assurance Cell (IQAC) conducts internal academic audits by assessing various components, including course file preparation, student result analysis, and faculty research activities. The course file contents, outlined below, are shared with all faculty members and regularly reviewed by IQAC members. The audit findings are thoroughly discussed in IQAC meetings, where recommendations for further improvement are provided.

Internal Audit Format:



Course File Contents

Sl. No.	Contents of Course File
1.	Vision & Mission of the Institute
2.	Vision & Mission of the Department
3.	Program Educational Objectives (PEOs)

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

Faculty members prepare course files for the subjects they teach, following the recommendations outlined in the table above. The academic committee, comprising the HOD, course coordinator, and Dean of Academics, conducts audits of these course files. This audit involves reviewing the course content, lesson plans, assignments, supplementary materials, and lecture notes. The committee provides feedback to faculty members, highlighting necessary additions or improvements. This process ensures the delivery of high-quality educational materials to students.

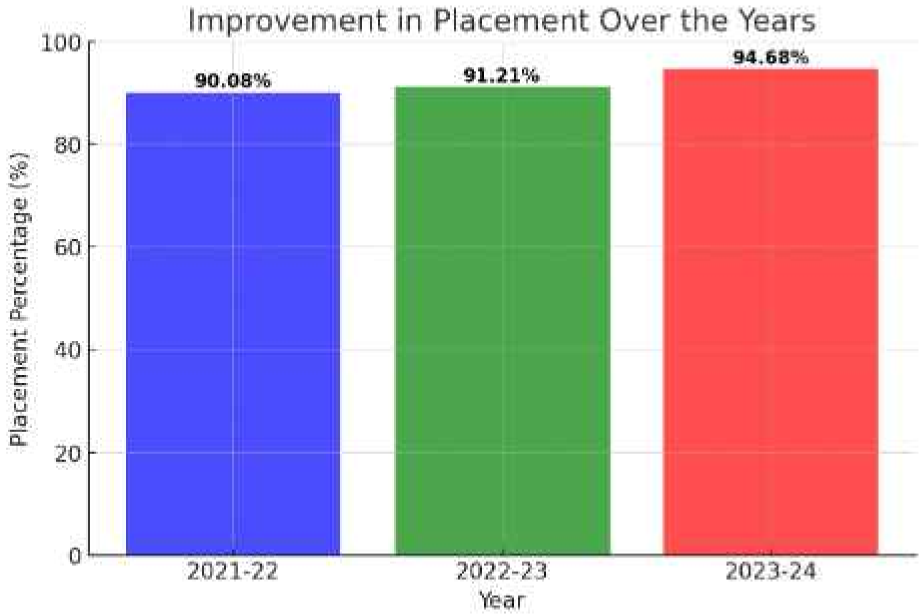
The academic committee conducts random observations of lecture delivery to ensure that course materials are taught according to the lesson plan. They assess various parameters, including the use of teaching aids, communication skills, and classroom management, to maintain benchmarked teaching standards across the institute. Feedback is then communicated to the faculty members for improvement.

The lab evaluation format is attached herewith.

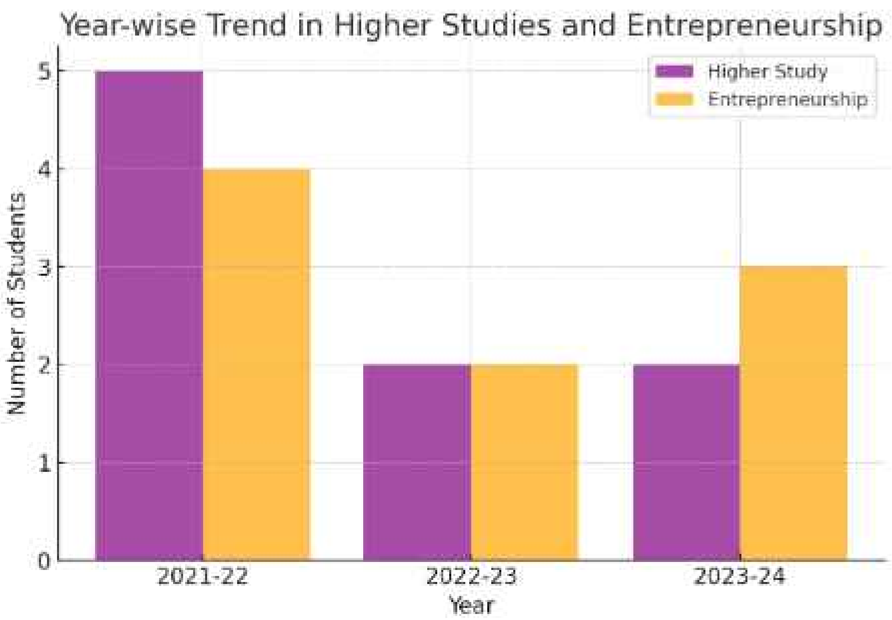
Department of Computer Science and Engineering

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

Sl. No.	Year	Number of Students Passed	Number of Students Placed	Quality Placements	Core Industry Placements	Pay Packages in lacs/annum
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



Sl. No.	Year	Number of Students Passed	Number of Students Placed	Higher Study	Entrepreneur
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



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

Item		2024-25	2023-24	2022-23
National Level Entrance Examination JEE Main	No of students admitted	[illegible]	[illegible]	78
	Opening Score/Rank	79420	73999	66407
	Closing Score/Rank	[illegible]	[illegible]	210270
State/ University/ Level Entrance Examination/ Others CUEE	No of students admitted	8	11	12
	Opening Score/Rank	88	81	88
	Closing Score/Rank	216	255	264
Name of the Entrance Examination for Lateral Entry or lateral entry details CUEE	No of students admitted	8	8	8
	Opening Score/Rank	260	293	334
	Closing Score/Rank	222	535	673
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		72	67	63

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 leaving(In case Currently Associated is "No")
							CAY	CAYm1	CAYm2			
SUJATA MISHR	BGGPM5005B	M.SC (Mathematics) and PHD	03/03/2015	Numerical Analysis	Associate Professor	21/07/2015	100	100	100	Yes	Regular	
RAJENDRA PI	ANBPP9140D	M.A.(Mathematics) and PHD	21/09/2016	Fluid dynamics	Associate Professor	21/01/2014	100	100	100	Yes	Regular	
PRASANT KU	BDBPP0076J	M.Sc. and PHD	08/05/2016	Language and Communication	Associate Professor	30/09/2016	100	100	100	Yes	Regular	
SAROJ KANTI	ABPPR8405C	M.Sc. and PHD	10/10/2016	Language and Communication	Associate Professor	03/09/2019	100	100	100	Yes	Regular	
ANGULI SAH	DKBPS9198D	M.Sc. and PHD	10/10/2020	Organic Chemistry	Associate Professor	04/12/2017	100	100	100	Yes	Regular	
ASHA MISHR	BSLPM7008D	M.SC (Mathematics) and PHD	11/08/2021	Numerical Analysis	Associate Professor	21/08/2021	100	100	100	Yes	Regular	
SHANTANU KI	AXMPS6745K	M.Sc. (Physics) and Ph.D.	28/08/2016	Solid State Physics	Associate Professor	25/10/2003	100	100	100	Yes	Regular	
SAKTI PRASA	ALLPM3767M	M.Sc. (Physics) and Ph.D.	30/11/2017	Photonics	Associate Professor	01/03/2006	100	100	100	Yes	Regular	
BIRANCHI NA	ABBPD1000B	M.SC (Mathematics) and PHD	18/11/2016	Numerical Analysis	Associate Professor	16/09/2006	100	100	100	Yes	Regular	
MANORANJAN	AXLPR1871A	M.SC (Mathematics) and PHD	26/05/2011	Numerical Analysis	Associate Professor	25/09/2009	100	100	100	Yes	Regular	
RAJALAKSHMI	AYHPM6259H	M.Sc. and PHD	25/10/2021	Language and Comunication	Associate Professor	12/12/2011	100	100	100	Yes	Regular	
RAMBHAKAR	CKXPP9105C	M.Sc.	08/01/2010	Plasma Physics	Assistant Professor	12/09/2013	100	100	100	Yes	Regular	
RASHMI BALA	FUFPS4380C	M.Sc.	20/10/2016	Graph Theory	Assistant Professor	01/07/2017	100	100	100	Yes	Regular	
GEETARANI P	AWPPP0894C	M.Sc.	20/08/2016	Business Management	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
BIRANCHI NA	DNRPP9917J	M.Sc.	17/10/2017	Nano Technology	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
UTKALIKA RA	BAYPP6438J	M.Sc. and PHD	30/05/2020	Language and Comunication	Assistant Professor	06/07/2017	100	100	100	Yes	Regular	
NALINIKANTA	DGAPP7130K	M.Sc.	17/08/2017	Language and Comunication	Assistant Professor	04/12/2017	100	100	100	Yes	Regular	
DIPAK KUMAR	AFBPB8471H	M.Sc. and PHD	25/10/2021	Micro Economics	Assistant Professor	04/07/2017	100	100	100	Yes	Regular	
BHABANI SAH	COZPS7740G	M.Sc. and PHD	28/10/2021	Numerical Analysis	Assistant Professor	03/12/2016	100	100	100	Yes	Regular	
BHARAT CHA	AETPK8871C	M.Sc. and PHD	20/10/2010	Physical Chemistry	Assistant Professor	20/11/2013	100	100	100	Yes	Regular	
PINTU DANDA	BLIPD6701H	M.Sc.	30/08/2016	Inorganic Chemistry	Assistant Professor	30/08/2016	100	100	100	Yes	Regular	
PRADEEP KU	ALLPM9141K	M.Sc. and PHD	16/10/2016	Fuzzy Optimization	Assistant Professor	29/10/2013	100	100	100	Yes	Regular	
ANASRUYOTI	BHOPM8211H	M.E/M.Tech	28/07/2017	CIVIL ENGINEERING	Assistant Professor	08/12/2017	20	20	20	Yes	Regular	
BISWAJIT SAH	KUJPS8699D	M.E/M.Tech	28/08/2016	MECHANICAL ENGINEERING	Assistant Professor	24/12/2016	20	20	20	Yes	Regular	
PURNIMA SAH	BFXPS6049D	M.E/M.Tech	10/07/2017	MECHANICAL ENGINEERING	Assistant Professor	27/09/2017	20	20	20	Yes	Regular	
CHIRANJEEB R	CHBPP1673R	M.E/M.Tech	11/07/2016	MECHANICAL ENGINEERING	Assistant Professor	03/07/2016	20	20	20	Yes	Regular	
PRATIK SARA	HPUPS7196L	M.E/M.Tech	28/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	
TANMAYA BEUR	AYPPB8436D	M.E/M.Tech	03/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	03/07/2017	20	20	20	Yes	Regular	
SANDHYARANI	CNPPR7417F	M.E/M.Tech	28/07/2016	ARTIFICIAL INTELLIGENCE	Assistant Professor	06/07/2016	20	20	20	Yes	Regular	
DEEPAK KUM	BOPPM1140D	M.E/M.Tech	21/11/2017	COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE	Assistant Professor	21/07/2017	20	20	20	Yes	Regular	
PRIYANKA DU	BOSPD6368F	M.E/M.Tech	08/07/2017	COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	
SUSHREE SA	BASPM5036F	M.E/M.Tech	07/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	07/07/2017	20	20	20	Yes	Regular	
ABINASHA SA	BOOPS7067D	M.E/M.Tech	21/07/2017	COMPUTER SCIENCE AND ENGINEERING IoT	Assistant Professor	21/07/2017	20	20	20	Yes	Regular	
CHINMAYA KU	BPFPP0798K	M.E/M.Tech	20/07/2017	COMPUTER SCIENCE AND ENGINEERING IOT	Assistant Professor	20/07/2017	20	20	20	Yes	Regular	
BISWAJIT RA	COPPR6636G	M.E/M.Tech	04/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	
ABHILASH CH	ADTPC8188B	M.E/M.Tech	21/07/2016	COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE	Assistant Professor	21/07/2016	20	20	20	Yes	Regular	
SANGHAMITRA PR	CJBPP2071L	M.E/M.Tech	13/08/2016	CIVIL ENGINEERING	Assistant Professor	07/03/2017	20	20	20	Yes	Regular	
SUDHANSHU	BOPPD0787J	MBA & Ph.D	11/10/2016	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	26/02/2016	20	20	20	Yes	Regular	
TANAYA KUM	BYBPM7771M	MBA & Ph.D	17/10/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	30/07/2017	20	20	20	Yes	Regular	
MONALISA SA	BBUPS7206E	MBA	08/07/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	06/07/2017	20	20	20	Yes	Regular	
DEBASMITA R	CFWPS9413K	MBA & Ph.D	25/08/2016	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	16/09/2016	20	20	20	Yes	Regular	
NILAMBAR TR	AWWPT0443B	M.SC (Mathematics) and PHD	10/10/2022	Fluid Dynamics	Associate Professor	10/03/2023	100	100	0	Yes	Regular	
BHAGABAN	FTLPM7670D	M.E/M.Tech	10/05/2023	ELECTRICAL ENGINEERING	Assistant Professor	21/08/2024	20	0	0	Yes	Regular	
IPSITA MISRA	JTGPM1189K	M.E/M.Tech	16/08/2020	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	26/07/2024	20	0	0	Yes	Regular	
SUNKUR	BWDPS7100K	ME/M. Tech and PHD	03/08/2021	IOT Web Technology	Associate Professor	03/09/2019	0	100	100	No	Regular	11/03/2024
MOHAMMED	BOVPM9418J	ME/M. Tech and PHD	20/03/2020	IoT Machine Learning	Associate Professor	04/10/2021	0	100	100	No	Regular	10/08/2023
MADHUSMITA	AAPPM7400D	M.SC (Mathematics) and PHD	17/07/2023	Fluid dynamics	Associate Professor	08/09/2023	100	100	0	Yes	Regular	
SUDHIR KUM	AHBPP7543H	M.A	16/10/2017	Language and Communication	Assistant Professor	21/11/2023	100	100	0	Yes	Regular	
RUBINA ALAM	BKRPP7443J	M.Sc.	27/11/2016	Physical Chemistry	Assistant Professor	30/08/2016	100	100	100	Yes	Regular	
SONALI RA PR	CHUPP9133D	M.Sc.	14/08/2016	Language and Comunication	Assistant Professor	16/09/2016	100	100	100	Yes	Regular	

PRITISH SHAH	BDFPS6039C	M.Sc and PhD	20/11/2019	Language and Comunication	Assistant Professor	21/10/2019	100	100	100	Yes	Regular	
SUGAPIKO DI	BPZPD4131G	M.Sc and PhD	27/10/2020	Language and Comunication	Assistant Professor	20/09/2019	100	100	100	Yes	Regular	
LYNDON DON	ADFPT1999D	M.Sc and PhD	20/10/2019	Language and Comunication	Assistant Professor	01/10/2021	100	100	100	Yes	Regular	
SUBITO ROUL	BBHPR8093H	M.Sc and PhD	20/10/2019	Language and Comunication	Assistant Professor	01/09/2021	100	100	100	Yes	Regular	
SULAYMAKANT	AKOPR3947J	M.Sc and PhD	20/10/2019	Analytical Chemistry	Assistant Professor	01/09/2021	100	100	100	Yes	Regular	
NATHO VERMA	BEWPS4096N	M.Sc	27/09/2019	Business Management	Assistant Professor	20/02/2019	100	100	100	Yes	Regular	
ROJALINI DEI	CHRPD9730J	M.Sc and PhD	26/10/2019	Language and Comunication	Assistant Professor	20/09/2021	100	100	100	Yes	Regular	
RAJIB KUMAR	ADOPD6668R	M.Sc and PhD	30/11/2014	Language and Comunication	Assistant Professor	30/05/2006	100	100	100	Yes	Regular	
CHINMOYEE C	ADXPD1179L	M.Sc	29/09/2014	Physical Chemistry	Assistant Professor	01/03/2006	100	100	100	Yes	Regular	
SUBHASHREE	APHPB6073K	M.Sc and PhD	20/11/2009	Numerical Analysis	Assistant Professor	30/09/2004	100	100	100	Yes	Regular	
LAXMIKANTA	AWUPM9043P	M.Sc and PhD	26/10/2014	Condensed Matter Physics	Assistant Professor	10/12/2011	100	100	100	Yes	Regular	
DHARANIDHA	AEMPS7026D	M.Sc and PhD	17/10/2007	Language and Comunication	Professor	16/09/2016	100	100	100	Yes	Regular	
SARADA PRAS	ADFPM1908H	M.Sc and PhD	30/11/2017	Organic Chemistry	Professor	21/09/2002	100	100	100	Yes	Regular	
SARADENDU	AGVPK7694L	M.Sc and PhD	14/07/2008	Physical Chemistry	Professor	10/10/2011	100	100	100	Yes	Regular	
SARATA CHAN	AEMPM6430E	M.Sc and PhD	21/07/1993	Inorganic Chemistry	Professor	09/09/2006	100	100	100	Yes	Regular	
KEDAR NOAH	ANPPM9079J	M.Sc and PhD	19/03/2006	Industrial Chemistry	Professor	27/09/2005	100	100	100	Yes	Regular	
KISHORE KUI	AJPPM4989H	M.Sc and PhD	21/09/2017	Fuzzy Optimization	Professor	09/10/2001	100	100	100	Yes	Regular	
SMITURANI R	ABLPR1096D	M.Sc and PhD	29/03/2010	Language and Comunication	Professor	29/07/2003	100	100	100	Yes	Regular	
JAGANNATH K	IZURK1023H	M.E/M.Tech	24/09/2024	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	01/07/2024	20	0	0	Yes	Regular	
BIPLAB BHUY	AWMPB0698D	M.SC (Mathematics) and PhD	14/09/2022	Graph Theory	Associate Professor	11/09/2022	100	100	0	Yes	Regular	
MAITRI MINUP	BPHPM4804J	M.Sc and PhD	21/09/2022	Industrial Chemistry	Assistant Professor	01/09/2022	100	100	0	Yes	Regular	
SHIPRA SAHU	LPOPS6690K	M.Sc	29/09/2022	Language and Comunication	Assistant Professor	01/09/2022	100	100	0	Yes	Regular	
PRITESH MOH	ADSPM0606J	M.Sc and PhD	28/10/2009	Language and Comunication	Professor	21/09/2024	100	0	0	Yes	Regular	
ARPITA MAHC	DUZPD7917H	M.Sc and PhD	20/09/2019	Numerical Analysis	Professor	03/09/2024	100	0	0	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2022-23(CAYm2)	1000	54	19	5
2023-24(CAYm1)	1080	60	18	5
2024-25(CAY)	1200	61	20	5
Average	1100	58	19	5

AverageFYSFR: 0.00

Assessment [(5 * 19) / AverageFYSFR] : 5.00

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

Total Marks 5.00

Institute Marks : 5.00

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	16	51	5.00
2023-24	34	18	54	5.00
2024-25	36	21	60	5.00

Average Assessment: 5.00

6.3 First Year Academic Performance (10)

Total Marks 8.40

Institute Marks : 8.40

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	8.06	8.41	8.32
Total number of successful students(Y)	1125.00	1066.00	800.00
Total number of students appeared in the examination(Z)	1125.00	1066.00	800.00
API (X*(Y/Z))	8.06	8.41	8.32

Average API [(AP1+AP2+AP3)/3] : 8.40

Assessment = Average API : 8.40

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

Total Marks 10.00

- 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-I:(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 COs Weightage: 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 60% 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 50% or more marks
	Level 3	>=70% of the students secure 50% 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.

Record of attainment of Course Outcomes of all first-year courses

Sl. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5	Avg.
1	21BTBS101	Engineering Mathematics I	2.76	2.69	2.76	2.68	2.36	2.73
2	21BTBS102	Engineering Physics	2.66	2.7	2.63	2.62	2.51	2.68
3	21BTES101	Basic Electrical Engineering	2.68	2.67	2.68	2.61	2.77	2.70
4	21BTES102	Basic Civil &Mechanical Engineering	2.66	2.63	2.63	2.60	2.66	2.66
5	21BTES103	Programming for problem solving using C	2.73	2.6	2.81	2.66	2.62	2.70
6	21BTHS101	Functional English	2.64	2.66	2.65	2.64	2.55	2.70
7	21BTPBS101	Physics Lab	2.61	2.87	2.76	2.64	2.60	2.8
8	21BTPES101	Basic Electrical Engg Lab	2.60	2.66	2.55	2.62	2.62	2.75
9	21BTPES103	Basic Mechanical Engg Lab	2.65	2.69	2.67	2.64	2.60	2.76
10	21BTPES106	Workshop	2.87	2.73	2.81	2.74	2.65	2.8
11	21BTPES107	Programming for Problem Solving using C Lab	2.66	2.58	2.66	2.73	2.51	2.66
12	21BTPHS101	Functional English lab	2.66	2.63	2.65	2.66	2.6	2.76
13	21BTBS201	Engineering Mathematics II	2.66	2.54	2.63	2.66	2.55	2.71
14	21BTBS203	Engineering Chemistry	2.68	2.71	2.8	2.64	2.58	2.76
15	21BTES203	Basic Electronics Engineering	2.62	2.6	2.66	2.66	2.66	2.62
16	21BTES206	Programming for problem solving using PYTHON	2.6	2.62	2.57	2.62	2.66	2.73
17	21BTES208	Environment Science	2.65	2.69	2.52	2.62	2.36	2.71
18	21BTHS202	Business Communication and life skills	2.6	3	2.63	2.77	2.62	2.73
19	21BTPBS202	Chemistry Lab	2.66	2.53	2.76	2.67	2.36	2.73
20	21BTPES203	Basic Electronics Engg Lab	2.67	2.64	2.62	2.58	2.6	2.75
21	21BTPES204	Engineering Graphics & Design Lab	2.58	2.67	2.56	2.68	2.61	2.66
22	21BTPES206	Programming for problem solving using PYTHON Lab	2.76	2.62	2.69	2.79	2.66	2.76
23	21BTPHS202	Business Communication and life skills Lab	2.66	2.64	2.66	2.61	2.76	2.62

8.6 Attainment of Program Outcomes from first year courses (20)

Total Marks 20.00

5.C.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Various Marks : 10.00

PO Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
24BTT	1.88	1.82	2.21	1.88	1.84	0	0	0	0	0	0	0.0
24BTT	1.88	1.72	2.1	2.0	1.84	0	0	0	0	0	1.8	0.0
24BTT	1.82	1.84	2.24	1.21	2.22	0	0	0	0	0	0	2.24
24BTT	1.88	2.22	1.82	1.82	2.22	0	0	0	0	0	0	2.84
24BTT	1.24	2.22	1.88	1.88	2.22	0	0	0	0	0	0	2.24
24BTT	0	0	0	0	0	1.24	1.24	2.24	2.22	2.82	0	2.82
24BTT	2.1	2.4	2.2	2.2	2.1	1.8	1.8	1.82	1.76	2.12	1.88	2.08
24BTT	2.43	2.38	2.24	2.41	2.23	1.82	2.11	2.43	2.28	2.12	2.14	2.43
24BTT	2.42	2.38	2.88	2.24	2.12	2.08	1.88	1.82	2.12	1.88	2.18	2.22
24BTT	2.08	2.42	2.82	2.22	2.18	2.14	1.88	2.22	1.88	2.22	2.18	2.08
24BTT	2.24	2.42	2.28	2.18	2.22	2.22	1.88	2.12	1.88	2.22	2.28	2.22
24BTT	2.18	2.08	2.42	2.22	2.18	2.28	2.11	2.22	2.12	1.87	1.82	2.21
24BTT	1.88	1.24	1.82	2.22	2.12	1.82	0	0	0	0	0	2.24
24BTT	1.88	2.22	0	1.84	0	2.12	2.12	0	1.88	0	0	2.22
24BTT	2.24	2.82	1.88	2.24	1.88	1.82	0	0	0	0	0	2.72
24BTT	2.22	2.88	2.84	2.82	2.22	1.82	2.21	0	1.82	1.82	2.12	2.84
24BTT	2.12	2.24	1.24	2.24	2.82	0	0	0	0	0	0	2.74
24BTT	0	1.84	0	1.82	1.84	1.22	0	0	1.82	1.84	1.22	1.84
24BTT	2.24	2.42	2.42	2.21	2.42	2.22	2.82	2.12	1.88	1.88	2.42	1.88
24BTT	2.24	2.22	2.24	0	2.24	2.24	2.24	2.18	1.88	1.88	2.22	2.24
24BTT	2.24	2.24	2.42	2.42	2.24	2.18	2.28	2.24	2.24	2.18	2.21	2.42
24BTT	2.22	2.42	2.42	2.42	2.28	2.42	2.42	2.28	2.22	2.28	2.24	2.44
24BTT	2.24	2.42	2.42	2.42	2.21	2.28	2.28	2.41	2.24	2.22	2.12	2.42

PO Attainment Level

PSOs Attainment:

Course	PSO1	PSO2	PSO3
24BTT	2.2	2.2	2
24BTT	2.2	2.2	1.8
24BTT	2.2	2.1	1.7
24BTT	2.4	2.2	2
24BTT	2	2.1	1.8
24BTT	0	0	2.2
24BTT	2.4	2.2	1.8
24BTT	2.2	2.4	1.8
24BTT	2.2	2.2	2
24BTT	2.4	2.4	2.1
24BTT	2.2	2.4	2.1
24BTT	2	2	2.8
24BTT	2.2	1.8	2
24BTT	2.2	2.1	1.8
24BTT	1.8	1.8	1.8
24BTT	2.1	2.1	1.8
24BTT	1.8	2.1	1.8
24BTT	2	2	2.2
24BTT	2.2	2.4	1.8
24BTT	2.2	2.2	2
24BTT	2.4	2.2	2.1
24BTT	2.2	2.2	2.1
24BTT	2.2	2.1	2.4

PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	2.28	2.2	2.01
PSO Attainment	2.28	2.2	2.01

5.C.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Various Marks : 10.00

1*Do Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.1	2.13	TARGET LEVEL ATTAINED: Students have fundamental knowledge in the basic subjects like, Mathematics, physics, mechanics, electronics, electrical and chemistry Engineering sciences, due to which the performance in the mid-term exam as well as end-exam was pretty good.
1. To sustain the level of attainment achieved, varieties of problems in tutorial classes are solved. 2. Trained to gain knowledge in Engineering fundamentals by conducting Bridge course			
PO 2 : Problem Analysis			
PO 2	2.1	2.21	TARGET LEVEL ATTAINED: Since varieties of problems in the form of tutorial home assignments were given to the students to solve, practice and discussion in the classes, therefore the students have attained more than the range.
1. The attainment was satisfactory. To sustain this, unit wise tutorial sheets were distributed to the students and asked to solve them. 2. The solutions for the problems submitted by the students were verified by the concerned regularly. 3. Encouraged to develop their attitude in problem solving ability through tutorial classes.			
PO 3 : Design/development of Solutions			
PO 3	2.1	2.21	TARGET LEVEL ATTAINED: More design problems and case studies were discussed in the contact hours which made PO3 better in future.
1. More design problem and case studies to the students to solve them manually and also using soft computing techniques. 2. Encouraged to attend in-plant training and workshops in various mechanical Engineering companies to reach higher attainment level			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.1	2.13	TARGET LEVEL ATTAINED: More Complex problems and case studies were discussed in the contact hours which made PO4 better in future.
1. Students were given chance to attend the soft computing training classes in the Institute laboratories 2. The attainment level can be increased by motivating the students to attend seminars, workshop, symposium, conferences and to do projects in latest research areas			
PO 5 : Modern Tool Usage			
PO 5	2.1	2.00	TARGET LEVEL ATTAINED: More of modern tools and collegiate knowledge in modern engineering technology make PO5 better in future.
1. Students were given special training classes to make use of modern tools in the computer labs and respective department laboratories. 2. The higher attainment level can be achieved by encouraging students to attend training programs in CAD, UNIGW, and Creo software			
PO 6 : The Engineer and Society			
PO 6	2.1	2.03	TARGET LEVEL NOT ATTAINED: Engineering students were trained to help the society through NSS, SWAYAM, Swachh Bharat Abhiyan activities.
1. Conducted Social Service activities as part of NSS 2. Expert sessions on duties and responsibilities of Engineers in the society 3. Conducted Social Service activities as part of NSS 4. Expert sessions on duties and responsibilities of Engineers in the society Conducted extensional activities for the society			
PO 7 : Environment and Sustainability			
PO 7	2.1	2.10	TARGET LEVEL ATTAINED: Environment and Sustainable engineering practices were included in the curriculum which enabled the students to learn more about the Environment and sustainability.
1. Activities like Swachh Bharat Abhiyan, clean and green movement and plantation etc. were conducted. 2. Conducted symposium and encouraged students to attend various co curricular activities			
PO 8 : Ethics			
PO 8	2.1	2.03	TARGET LEVEL ATTAINED: Instructions were given to the students regarding the professional ethics to be followed in the laboratory sessions.
1. Expert sessions on professional ethics were conducted by Student Wellness Centre 2. Students are given code of conducts in the examination and academic activities. DoS and Dom's were distributed through handouts. 3. Students were trained in ethical principles & responsibilities in order to attain higher level 4. More examples on the subject be practiced by students in extra classes.			
PO 9 : Individual and Team Work			
PO 9	2.1	2.0	TARGET LEVEL NOT ATTAINED: More laboratory classes were conducted by making the class strength into groups based on the number of experiments available.
1. The social extra-curricular activities are completed in teams. 2. Students were trained to do individual, and team work effectively through symposium, seminar etc.,			
PO 10 : Communication			
PO 10	2.1	2.13	TARGET LEVEL ATTAINED: Students were given training on communication skills.
1. Expert lecture in communication skills 2. Competitions based on communications as part of cultural activities. 3. Training on Pa skills			
PO 11 : Project Management and Finance			
PO 11	2.1	2.10	TARGET LEVEL ATTAINED: Understanding and demonstrating management principles and applying to own work enable students to get exposed to Project management
1. Class on engineering ethics to be followed by in streams. 2. Expert lecture in communication skills 3. In technical management responsibility given to students in various technical events			
PO 12 : Lifelong Learning			
PO 12	2.1	2.07	TARGET LEVEL ATTAINED: Made the students aware about the need to prepare and to engage in Independent and lifelong learning in various engineering streams.
1. Team based problem solving in laboratory sessions 2. Professional Training sessions as part of Internships 3. Expert lectures			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.			
PSO 1	2	2.09	TARGET LEVEL ATTAINED: Students have fundamental knowledge in the basic subjects like, Thermodynamics, Mechanics, Programming language, electronics, electrical and Engineering sciences, due to which the performance in the mid- term exam as well as end-exam was pretty good.
1. To sustain the level of attainment achieved, varieties of problems in tutorial classes are solved. 2. Trained to gain knowledge in Engineering fundamentals by conducting Bridge course 3. The attainment was satisfactory. To sustain this, unit wise tutorial sheets were distributed to the students and asked to solve them. 4. The solutions for the problems submitted by the students were verified by the concerned regularly. 5. Encouraged to develop their attitude in problem solving ability through tutorial classes			
PSO 2 : To enable the student to take-up career in Industries or to pursue higher studies in mechanical and interdisciplinary programs.			
PSO 2	2	2.0	TARGET LEVEL ATTAINED: Since varieties of problems in the form of tutorial home assignments were given to the students to solve, practice and discussion in the classes, therefore the students have attained more than the range.
1. The attainment was satisfactory. To sustain this, unit wise tutorial sheets were distributed to the students and asked to solve them. 2. The solutions for the problems submitted by the students were verified by the concerned regularly. 3. Encouraged to develop their attitude in problem solving ability through tutorial classes 4. Students were given special training classes to make use of modern tools in the computer labs and respective department laboratories			
PSO 3 : To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.			
PSO 3	2	2.01	TARGET LEVEL ATTAINED: Instructions were given to the students regarding the professional ethics to be followed in the laboratory sessions. Environment and Sustainable engineering practices were included in the curriculum which enabled the students to learn more about the Environment and sustainability.
1. Expert sessions on professional ethics were conducted by Student Wellness Centre 2. Students are given code of conducts in the examination and academic activities. DoS and Dom's were distributed through handouts. 3. Students were trained in ethical principles & responsibilities in order to attain higher level 4. More examples on the subject be practiced by students in extra classes. 5. Activities like Swachh Bharat Abhiyan, clean and green movement and plantation etc. were conducted. 6. Conducted symposium and encouraged students to attend various co-curricular activities.			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (2)

Total Marks 2.00

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 mentor, 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, detrimental activities 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.

Outcome: 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. Skill 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 mentors : 03 Faculty per Section

Number of students : 20 Nos. of students per mentor

Frequency of Meeting : Weekly

The Institute adopts proctorial 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.

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

Total Marks 10.00

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 analyzed 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
2020-21	01	Counselling by DAC
2020-22	01	Counselling by DAC
2021-22	01	Counselling by DAC

Feedback Format:

GITA 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
GITA 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 these 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
1		☐	☐	☐	☐	☐
2		☐	☐	☐	☐	☐
3		☐	☐	☐	☐	☐

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 SPUT, 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 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)
GITA autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to SPUT, 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 GITI Autonomous College, Bhubaneswar using the scale below:

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

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

Assessment of Program Educational Objectives (PEOs)

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

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

Sl. No.	Program Educational Objectives (PEO)	Rating (1 to 3)
1.	Core Knowledge: Graduates will have a strong foundation in mathematics, science, 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 GITI 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: _____
GITI Autonomous College, Bhubaneswar

GITI 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 GITI 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:

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

Sl. No.	Program Outcome (PO)	Rating (1 to 3)
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:

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

Sl. No.	Program Specific Outcome (PSO)	Rating (1 to 3)
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 SPUT, 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:

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

Sl. No.	Program Outcome (PO)	Rating (1 to 3)
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:

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

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

3		
4		

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: _____
SITS Autonomous College, Bhubaneswar

Institute Marks : 2.00

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 FeedbackCommitee 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): _____
Enroll 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 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

6.1 Self-Learning (2)

Total Marks 2.00
Institute Marks : 2.00

Self-Learning:

- Library facility is available beyond working hours.
- Recorded video lectures of ITs 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, Swayam, Coursera etc.
- If a student completes 20 credits from the selected subjects earmarked 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 earmarked 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 based on students' interest has been greatly encouraged.
- Adapting to industrial needs through in-plant training.
- Acquiring managerial skills and information through symposiums conducted annually.
- Participation in activities through Professional bodies and R&D cell.
- Availability of the semistilled 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.

6.2 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute 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 excel in GATE, GRE, GMAT etc. by giving them permission and encouragement.
- BEC courses in collaboration with British Council.
- Infosys campus connect program is conducted, since last 10 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:

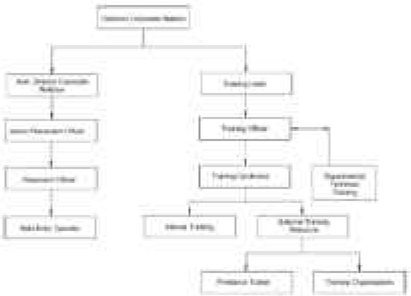
The Training and Placement Department of the institution provides all the facilities to the students for career guidance, training, placement and entrepreneurship. The Department has two air conditioned rooms for group discussion practice, five air conditioned chambers for conducting mock personal interviews and an air conditioned auditorium for holding seminars and talks by eminent personalities. The Training department arranges resource persons for providing professional and industrial training for the students. The Placement department contacts and meets 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 provision 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 discussions, personal interview, resume writing, general aptitude test, HR mentoring, 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 program keeps 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.

Organizational overview of training and placement cell



Infrastructure of Training & Placement Cell of GITA

Sl.No.	Room No.	Area	Other Facilities	Remarks
1	Placement Room – 1	60Sq.Mt.	A.C. G.D.TablesandChairs	Used for conducting GDPractice and tests duringCampusPlacement Drives.
2	Placement Room – 2	55 Sq.Mt.	A.C. G.D.TablesandChairs	Used for conducting GDPractice and tests duringCampusPlacement Drives.
3	PlacementOffice	54.20Sq.Mtr.	A.C. Sitting ArrangementforOfficers	UsedforsittingofOfficers
4	TrainingRoom	100Sq.Mtr.	A.C. LCD Projector,Audio-visualUnit	Used for providing training(Softsoft skill and technical) tostudents.
5	Smart Room	100 Sq.Mtr.	A.C. LCD Projector,Audio-visualUnit	Used for providing training(Softsoft skill and technical) tostudents.
6	Auditorium	250 sq. mtr	A.C. Audio-visual systemwith LCD Projector	Used for holding Seminars, Interaction with industryprofessionals and PrePlacementTalkbyCompanies
7	Personal InterviewRooms(5)	20sq.mtr.each	A.C. Interview Tablewith compact chairs	Used for conducting mockPersonal interviews duringtraining and PI duringCampusPlacement Drives.
8	Pantry	40 sq. mtr	A.C. Dining Hall	Used for Providing quality/food during meetings andCampus PlacementDrives.
9	Rest Room	30 sq. mtr	A.C. double bedded	Used for delegates to take rest at the time of need duringCampus Placement Drives.

Office bearers with responsibilities:

Sl.No.	Designation	Responsibilities

1	Director CorporateRelation	Heads the dept, takes decisions, monitorsactivities, reviews performance, recommends measures for improvement
2	Asst. Director Corporate	Meets companies, motivate and convince them for interaction,arrange campus placement drives
3	TrainingHead	Arranges resource persons for training, imparts soft skilltraining
4	SeniorPlacementOfficer	Meets companies,motivate and convince them forinteraction,arrange campus placement drives
5	PlacementOfficer	Meets companies,motivate and convince them forinteraction,arrange campus placement drives
6	TrainingOffier	Imparts soft skill training
7	TrainingCoordinator	Co-ordinates with resource persons,maintains officialrecordsof training
8	Data Entry Operator	Keeps all types of records,sends classlists of studentstocompanies,helps in placement activities

The Director, Corporate Relations heads the Training and Placement Deparment controlling two individual wings under him. He is responsible for managing the deparment 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 co ordinates with the Placement deparment 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.




Instruction Manual | 2.00

EDP & IPC Center, an autonomous non-profit body established in 2013, 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:

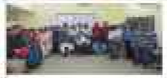
To become a catalyst and a prime mover in facilitating emergence of competent first generation entrepreneurs from among the graduating engineers through entrepreneurship education, training, research and institution building.

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 incidence 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 IIP CELL:

Sl No.	Date	Activity/Function/Competitions to/Venue	Participants/Audience	Speaker/Resource Person	Photos
1	[illegible] 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 Patro	
2	[illegible] Oct 2021	Quiz and Poster Designing Competition.	All together 35 students Participated including both the category	Prof. N.P Patro and all the E- leaders	
3	5th Jan 2022	Promotion work for EAC programme in upcoming months	All E-leaders	Prof. N.P patro/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 & IPC Centre	Mr. D & RavindraRaju, Chairman CII, Odisha Mr.Tapan Kumar Chand, Chairman & MD, NALCO Shri Sanjay K Singh, IAS, MD & CEO of OCAC Shri Sanjeev Chopra, secretary, Dept. of Industry & CMD, IPICOL Mr. Sanjay Patnaik, 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, EDI, BBSR Mr.Damodar Mishra, NABARD Prof P.K. Mohanty, GITA Mr.Dibyasingh 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	UNIBIC/LU BISCUITS(P) LTD/Parle Biscuits Chandaka, Near Silicon Engg College Bhubaneswar	
7	11th Apr 2022 to 13th Apr 2022	Entrepreneurship Awareness Camp 2022 (EAC 2)	80 B.tech students participated in the programme. This is the valedictory session with issue of certificates of participation.	Chief Guest Sri C R Patnaik Executive Director- EDI Bhubaneswar Mr.Damodar Mishra, NABARD Sri SangramMohanty, MSME Sri G P Panda, EDI Sri S K Rath, MSME Sri Gopal Roy, EDI, BBSR	
8	13th Apr 2022	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 Mancheswar Industrial Estate Bhubaneswar, Odisha 751007	

9	14th Aug 2022	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 Panda, Prof.(Dr.)K.K Mishra	
10	22nd October 2022	Quiz and Poster Designing Competition on the occasion of 3rd anniversary of EDP & IPC Centre	All together 48 students Participated including both the category	Prof. N.P Panda and all the E- leaders	
11	14th Dec- 30th Dec 2022	EDII Faculty Development Programme at Utkal University	Prof Bidyadhar Rout, Asst Professor Economics Participated	12 days FDP in Entrepreneurship organised by EDII sponsored by NSTEDB	
12	23rd Jan 2023	Debate competition organised by the EDP & IPC cell.	30 students Participated in the event.	Prof. N.P Panda, Prof.(Dr.)K.K Mishra Prof Bidyadhar Rout Prof. Sujit Khandai Prof. Surya Narayan Mohanty Prof. P.K Mohanty	
13	3rd Feb 2023 to 8th Feb 2023	Entrepreneurship Awareness Camp 2019 (EAC-1)	68 B.tech students registered their names for the programme.	Prof Sarada Prasad, NSN Sri S.K. Rath, MSME Sri Gopal Roy, EDII, BBSR Mr.Damodar Mishra, NABARD Mr.Dibyasingh Mishra, DIC	
14	7th 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 BISCUITS(P) LTD(Fala Biscuits Chandaka, Near Silicon Engg College Bhubaneswar, after the Industry visit.	
15	22nd Mar 2023	Interactive session on Start ups at Mayfair Conventional Hall	Five E-leaders of EDP & IPC Centre	Mr.Rajan Anandan Vice President, Google, South East Asia	
16	28th Feb to 3rd March 2023	E-week 2023 in GITA Campus	10 groups participated in the competition and at of the end of the program all the participants gave the presentation regarding their business performance	Top performers in the competition were awarded with cash prize after the presentation.	
17	27th Mar 2023 to 2nd Apr 2023	Entrepreneurship Awareness Camp 2023 (EAC-2)	60 B.tech students registered their names for the programme.	Sri S.K. Rath, MSME Sri Gopal Roy, EDII, BBSR Mr.Damodar Mishra, NABARD Prof P.K. Mohanty, GITA Mr.Dibyasingh 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, Jay Bharat Masala Group after the Industry Visit by the participants of the EAC.	
19	14th 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 Panda, Prof (Dr.)K.K Mishra	

30	16th Oct 2023 to 21st Oct 2023	Entrepreneurship Awareness Camp 2023 (EAC-1)	80 B.Tech students registered their names for the programme	Mr. Dibyasingh Mishra, DIC Mr. Mahendra Rajguru, SIT, Mr. Damodar Mishra, Nabard Mr. B. Panda, EDII, BBSR Mr. Gopal Ray, EDII, BBSR	
31	8th Nov, 2023	Workshop on Entrepreneurship Development Skills	30 Students participated in workshop	Mr.Ranjan Das, SIDRA Group, Prof. N.P Panda, Prof (Dr.) R.K Mishra	
32	11th Dec to 22nd Dec 2023	EDII Faculty Development Programme at Utkal University	Prof Sujit Khandai, Asst Professor Electrical Participated	10 days FDP in Entrepreneurship organised by EDII sponsored by NSTEDB	
33	8th Jan 2024 to 19th Jan 2024	Faculty Development Program in Entrepreneurship 2024	70 faculties took part in the programme.	The FDP was conducted by EDP & IIPC Centre GITA, Bhubaneswar in association with EDII in the aegis of NSTEDB	

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

4.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

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 copies 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 exploring their inherent skills and talents in from 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 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.

Achievements in Inter college sports meet (2023-24)

Sl. No.	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements
1	Birla Global University, BBSR	18.03.24-20.03.24	Inter university sports meet	Cricket	Runners up trophy & cash
2	CET, BBSR	19/03/24-21/03/24	Engineers Cup- 2K24	Footbal	Champions Trophy & Cash
3	ITER, BBSR	03/03/24-04/03/24	Summer/T-20 cup	Cricket	Champions Trophy & Cash
4	VSSUT, Burla	12/03/24-14/03/24	IUSA-2K24	Footbal	Runners up trophy & cash
5	NIST, Berhampur	04-03-2024 -07.03.2024	Inter college sports meet	Valley	Runners up trophy & cash Prize
6	GITU, BBSR	04/03/24-06/03/24	IDYT-2K24	Basket ball	Champions Trophy & Cash
7	CEC, BBSR	06/03/24-17/03/24	ICSH 2024	Cricket	Champion's Trophy & Cash Prize
8	CVRCE, BBSR	03/03/24-06/03/24	ICSH 2024	Valley	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	Birla Global University, BBSR	18.01.23-20.01.23	Inter university sports meet	Cricket	Runners up trophy & cash
2	CET, BBSR	19/03/23-21/03/23	Engineers Cup- 2K23	Footbal	Champions Trophy & Cash
3	ITER, BBSR	02/03/23-04/03/23	Summer/T-20 cup	Cricket	Champions Trophy & Cash
4	VSSUT, Burla	12/03/23-14/03/23	IUSA-2K23	Valley	Runners up trophy & cash
5	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTKARSH 2K23	Valley	Runners up trophy & Cash
6	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTKARSH 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	GITU, BBSR	04/03/23-06/03/23	IDYT-2K23	Cricket	Champions Trophy & Cash
9	CEC, BBSR	06-01-23-17-01-23	ICSH 2023	Footbal	Champion's Trophy & Cash Prize
10	CVRCE, BBSR	03/03/23-06/03/23	ICSH 2023	Footbal	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	03-03-22 to 06-03-22	12th ICSH 2022	Volley Ball	Champion's Trophy & Cash prize
2	NIST, Berhampur	12-03-22 to 14-03-22	9th VSSUT CUP-2K22	Volley Ball	Champion's Trophy & Cash prize
3	RITE, Bhubaneswar	21-03-22 to 23-03-22	ICSH 2022	Cricket	Runners up trophy & Cash prize
4	GITU, Bhubaneswar	17-03-22 to 19-03-22	Dr. NP Memorial IDYT-2K22	Cricket	Runners up trophy & Cash prize
5	Birla Global University, BBSR	27-03-22 to 29-03-22	ICSH 2022	Cricket	Runners up trophy & Cash prize
6	UEP, Odisha	27.01.22-29.01.22	Inter college cricket tournament-2K22	Cricket	Runners up trophy & Cash prize

7	BPUT, Odisha	01/04/22-03/04/22	Pintu 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	17-12-21-18-12-21	CITIUS-2K21	Cricket	Champions Trophy & Cash prize
10	VSSUT, Burla	15/03/22-17/03/22	KSRM-2K22	Volley	Champions Trophy & Cash prize
11	TITE, BBSR	23/03/22-25/03/2022	Summer T-20 Cup	Cricket	Champions Trophy & Cash prize
12	CVRCE, BBSR	15/03/22-17/03/22	ICSR 2022	Football	Champions Trophy & Cash prize
13	OEC, BBSR	09-01-22-09-01-22	ICSR 2022	Football	Runners up trophy & Cash
14	JIMS, BBSR	09-01-22-10-01-22	ICSR 2022	Basket Ball	Runners up trophy & Cash
15	Trident academy of Technology	23-12-21-24-12-21	Inter college sports meet2K21	Cricket	Runners up trophy & Cash prize

Co-Curricular Activities:

(2023-24)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievements
1	SUBHASHIS SEKHAR ROUTA	C-coding, SIET, BBSR	Aug, 2023	2nd
2	ARIJEET DHURU	Ship Building, GITA, BBSR	Jan, 2024	2nd
3	ROHIT PATEL	ROBO WAR, CVRCE University, BBSR	Oct, 2023	1st
4	ASHUTOSH MANGARAJ	Paper Presentation, GITA, BBSR	Jan, 2024	3rd
5	BHASKAR BAHADUR RANGASAHI	INNOVATION, GITA, BBSR	Jan, 2024	2nd
6	JACKSON LUGUN	CURT Design, KIIT University, BBSR	Nov, 2023	2nd
7	LOKESH PRASAD SINGH	Start Up India, CET, BBSR	Dec, 2023	2nd
8	SOUBHAGYA RANJAN JENA	ZIGNO, SIET, Gunupur	Jan, 2024	3rd
9	ADITYA KUMAR PATRA	Technical Paper Presentation, SIET, BBSR	Sept, 2023	3rd
10	AMIT PRADHAN	C- Coding, KIIT University, BBSR	Aug, 2023	3rd
11	AKASH KUMAR NAYAK	Go-CURT, Trident, BBSR	Jan, 2024	2nd
12	DURGA MADHAB SAHOO	HACKATHON, SOA University	Sept, 2023	2nd
13	JATIN ANIRESH KUMAR SAHOO	Project Fair, GITA, BBSR	Jan, 2024	1st
14	ARUNANSHU MISHRA	Paper Presentation, SIFT, BBSR	Nov, 2023	2nd
15	BIDYUT PRADHAN	RAAG, CVRCE University, BBSR	Sept, 2023	3rd

(2022-23)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievements
1	BISWAJEET DAS	Panchatattam, CVRC University	Oct, 2022	2nd
2	ARYADIPTA NAYAK	Paper Presentation, CET, BBSR	Aug, 2022	2nd
3	DHRUV SINHA	CIRCUITRIX, Silicon, BBSR	Sept, 2022	3rd
4	SUDHANSHU SEKHAR BISWAL	HACKATHON, SOA University	Oct, 2022	3rd
5	MD SAIF	Technical Paper Presentation, KMBB, BBSR	Dec, 2022	2nd
6	TOPHAN PRADHAN	ROBO WARRIOR, VSSUT, Burla	Jan, 2023	1st
7	RUCHI KUMAR KUSHWAHA	Project Fair, GITA, BBSR	Jan, 2023	1st
8	DIPENDRA KUMAR PANDEY	CAD Modelling, SIET, BBSR	Sept, 2022	2nd
9	BIKASH KUMAR NANDI	TECH QUIZ, GITA, BBSR	Oct, 2022	1st
10	MOHAMMED IQUIB JAVED	Ship Building, GITA, BBSR	Jan, 2023	1st
11	KAUSHAL KUMAR	Robotics Competition, SIET, Gunupur	Oct, 2022	2nd
12	SUBASH KUMAR PRADHAN	Treasure Hunt, GITA, BBSR	Jan, 2023	1st
13	MAHESWAR SUNA	Paper Presentation, CET, BBSR	Jan, 2023	1st
14	JYOTIPRAKASH ROUT	C- Coding, KIIT, University	Oct, 2022	3rd
15	MEER NADEEM ASHRUF	HACKATHON CONDUCTED @ SIT, MISRA	Sept, 2022	1st

(2021-22)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievements
1	ABHISHEKH BALIJIRSINGH	Paper Presentation, SIET, BBSR	Aug, 2021	2nd
2	AFRIN BAIG	Ship Building, GITA, BBSR	Jan, 2022	2nd
3	ABHIJIT TRIPATHY	Robotics Competition, SIET, BBSR	Oct, 2021	3rd
4	BISWAJEET PRADHAN	CAD Modelling, SIFT, BBSR	Jan, 2022	3rd
5	BHARATBHUSHAN SAMANTSINGHAR	HACKATHON, CET, 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	MANISH KUMAR MAHTO	Treasure Hunt, GITA, BBSR	Jan. 2022	2nd
9	ASISH KUMAR SAHU	Project Fair, GIET, Gunupur	Nov. 2021	3rd
10	MD SHEESH ALAM	Paper Presentation, GITA, BBSR	Oct. 2021	2nd
11	MOHIT MRIDUL	C- Coding, KIIT University, BBSR	Jan. 2022	3rd
12	HARSH RAJ	CAD Modelling, CVRGU University	Dec. 2021	3rd
13	PRAJNANSU SISHIR BEHURA	Technical Paper Presentation, GIFT, BBSR	Nov. 2021	1st
14	JITENDRA JENA	HACKATHON, SOA University	Dec. 2021	3rd
15	RAGHUBIR MALLIK	C- Coding, NIT, Rourkela	Sept. 2021	3rd
16	PRANAY SANGRAM MOHANTY	Paper Presentation, SIET, BBSR	Jan. 2022	2nd
17	MD SAQUIB RAZA	Bridge Building, GITA, BBSR	Jan. 2022	3rd
18	SUBHANKU SEKHAR PANDA	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 programmed is conducted every year. Students are actively participating in various inter-university cultural events. Activities of this kind help the students to mould their personality. A Cultural Co-Ordinator is coordinating all the cultural activities. Annual Cultural festival organized every year. More than 20 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 for imbibing 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	07.11.2020	Afforestation and Tree plantation	Chhatabara	80
2	28.10.2020	Literacy	Kalinaha	60
3	22.01.2021	Programmed of Women & Child Care	Madanpur	73
4	08.02.2021	AIDs Awareness	Raghunathpur	80
5	16.02.2021	Dental Camp	GITA, Campus	55
6	25.02.2021	Anti-liquor Campaign	Uttara, Hanpur	120
7	26.03.2021	Blood Donation Camp	GITA, Campus	100
8	23.05.2021	Afforestation and Tree plantation	Madanpur	67
9	28.07.2021	Literacy	Raghunathpur	51
10	16.10.2021	Programmed of Women & Child Care	Sindhupur	76
11	17.08.2021	AIDs Awareness	Uttara, Hanpur	50
12	07.12.2021	Dental Camp	Uttara, Hanpur	65
13	28.09.2021	Anti-liquor Campaign	Kalinaha	52
14	08.10.2021	Blood Donation Camp	Madanpur	70
15	01.02.2022	Afforestation and Tree plantation	Raghunathpur	55
16	22.06.2021	Operation Clearing	Badaraghunathpur	55
17	01.11.2022	Programmed of Women & Child Care	Uttara, Hanpur	50
18	10.02.2022	AIDs Awareness	Raghunathpur	75
19	16.10.2022	Dental Camp	Jagasara	80
20	07.02.2022	AIDS awareness	Jamujhari	78

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

10.1 Organization, Governance and Transparency (20) — Total Marks 20.00

10.1.1 Scope 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 in 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 (25)

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 QS 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.
- Use 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 bye-laws of respective college and rules laid down by the state government/parent university, the Governing Body shall:

- Guide the college while fulfilling the objectives 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 Prakash Panda	Chairman, GGI, Odisha	Chairman
2.	Dr. Chandra Dhwaj Panda	Secretary, GGI, Odisha	Member
3.	Dr. Sitaram Narayan Panda	Vice-Chairman, GITA Autonomous College, Bhubaneswar	Member
4.	Mrs. Basanta Manjari Panda	Trustee, VSET, Gunupur	Member
5.	Ms. Pratima Panda	Trustee, VSET, Gunupur	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, OGS (SAG)	Addl. Secy. to Government, Department of Skill Development and Technical Education, Govt. of Odisha (State Govt. Nominee)	Member
9.	Er. Hara Govind Mishra	Managing Director, Nemhans Solutions Pvt Ltd	Member
10.	Dr. Pradeep Kumar Routray	Dean Administration (Staff Representative)	Member
11.	Dr. Kishore Kumar Mishra	Dean Academics (Staff Representative)	Member
12.	Dr. Manmatha Kumar Roul	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 suggestion(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. Roul	Principal	Chairman
2.	Prof. Sribatsa Behera	Dean, SPIC, OUTR Bhubaneswar	Member
3.	Prof. Sujit Kumar Khuntia	Director CD, BPUT, Odisha, Rourkela	Member
4.	Dr. Nilamadhab Tripathy	Senior System Analyst, IBM	Member
5.	Prof. Aurobinda Routray	Professor, Electrical Engineering Department, IIT Kharagpur	Member
6.	Prof. S. K. Dash	Head, Dept. Of Mechanical Engineering, IIT Kharagpur (VC&I)	Member
7.	Mr. Radhakanta Samantara	Vice-President, Infinite Computer Solutions, India	Member
8.	Dr. Srikant Patnaik	Director, IIMT Bhubaneswar	Member
9.	Prof. Mrutyunjaya 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. Routray	Dean Admin.	Member
13.	Prof. N.P.Patro	PIC (EDP& IPC)	Member
14.	Prof. Ambarani Patro	Asso. Professor, Dept. BS&H	Member
15.	Prof. T.P. Panigrahi	HoD CSE	Member
16.	Prof. P.K. Bal	HoD CSE-DS	Member
17.	Prof. Bijaylaxmi Panda	HoD CST	Member
18.	Prof. P.K. Giri	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. Jugagopal Jena	HoD CE	Member
25.	Prof. D.B. Mishra	HoD MCA	Member
26.	Prof. Janardan Dash	HoD MBA	Member
27.	Prof. S.R. 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 CS&IT

S.N	NAME	AFFILIATION	POSITION
1	Dr.Parimal Kumar Giri	Professor& Head, Dept. of CS&IT	Convener
2	Prof. (Dr.) Sarojananda Mishra	Professor, Dept. of CSE, IGIT, Sarang	Member (Academic Expert)
3	Dr. Manas Ranjan Senapati	Asso. Professor, Head Dept. of IT, VSSUT, Burla	Member (Academic Expert)
4	Mr. BibekanandaBehera,	Senior Consultant, Technology Head (Azure Cloud Architect), Infosys, Bangalore	Member (Industry Expert)
5	Mr. Adarsa Kumar Nayak,	Software Engineer, Motorola Solutions, Bangalore	Member (Alumni)
6	Prof. (Dr.) Dr.Sanjeev Kumar Dash,	Professor, Dept. of CSE, SIT, Bhubaneswar	Member (BPUT Nominee)
7	Mr. Debasish Das,	Asst. Professor, Dept. of CS&IT	Member
8	Mr. Chandrakant Mallick,	Asst. Professor, Dept. of CS&IT	Member
9	Mr. Sudhir Ranjan Das,	Asst. Professor, Dept. of CS&IT	Member
10	Ms. Lopamudra Das,	Asst. Professor, Dept. of CS&IT	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., OUTR, Bhubaneswar	Member
3	Prof.(Dr.) Debasish Mishra,	Dept. of Electronics and Communication Engg., VSSUT Burla	Member
4	Prof. Prabodha Kumar Dalai	Asso. Professor, Dept. of ECE	Member
5	Prof.(Dr.) Sarita Misra	Asst. Professor, Dept. of ECE	Member
6	Prof. Prangya Paramita Pradhan	Asst. Professor, Dept. of ECE	Member
7	Prof. R.B. Das	Asst. Professor, Dept. of ECE	Member
8	Prof.(Dr.) Chandra Sekhar Mishra,	Asst. Professor, Dept. of ECE	Member
9	Prof. Subhkhandai	Asst. Professor, Dept. of ECE	Member

DEPARTMENT OF EEE

S.N	NAME	AFFILIATION	POSITION
1	Dr. S.K. Swain	HoD EEE,	Chairperson
2	Dr. Sribatsa Behera,	Professor, OUTR, BBSR,	Member (Academician)
3	Dr. P.C. Panda	Retd. Professor, NIT, Rourkela	Member Academician
4	Dr. D.P. Bagarty	Asso. Professor, OUTR,	Member (University Representative)
5	Er. Sukalyan Das	CEO, KRITITECH, Bhubaneswar	Member (Alumni)
6	Prof. S.K. Acharya	Asst. Professor, Dept. of EEE	Member
7	Prof. C.R. Behera	Asst. Professor, Dept. of EEE	Member(Convener)
8	Prof. S.N. Mohanty	Asst. Professor, Dept. of EEE	Member
9	Prof. S.K. Nayak	Asst. Professor, Dept. of EEE	Member
10	Prof. J. 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.K. Rout	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. Smrutirekha 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 &POs. 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.K.Raul	Principal	Chairman&Convener
2	Prof.(Dr.)K.K.Mishra	Dean Academics	Member
3	Prof.(Dr.)SaseeMKumarPradhan	Professor &HOD Department of Comp. Sc &Application, UtkalUniversity	Member External- Academic
4	Er.KamalabadiTripathy	SeniorSystemAnalyst,IBM	Member External – Industry
5	Prof.(Dr.)S.K.Patra	Professor,HOD,ECE,NIT,Rourkela	Member External- Academic
6	Mr.ManasSoumyaMishra	CEO,NEHAVIKSolutionPvt. Ltd.	Member External – Industry
7	Prof.(Dr.)SomnathMishra	Retd. Principal, NIT,Rourkela	Member External- Academic
8	Mr.J.Bhattacharya	DGM In charge, HODDesign,RSPRourkela	Member External – Industry
9	Prof.(Dr.)ArabindaRoutray	Professor,EE,IITKharagpur	Member External- Academic
10	Dr.NidhiMaheri	CEO,UTechEnergyfeedLtd	Member External – Industry
11	Prof.(Dr.)D.PBagarty	Professor &HOD,EEDept.,CETBhubaneswar	Member External- Academic
12	Er.N.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.K.Raul	Principal	Chairman
2	Prof.(Dr.)K.K.Mishra	Dean, Academics	Convener
3	Prof.(Dr.)P.K.Routray	Dean, Administration	Member
4	Prof. M. K. Pradhan	H.O.D, ME	Member
5	Prof.(Dr.)S.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, EEE	Member
8	Prof.(Dr.) D. K. Nayak	H.O.D, ECE	Member
9	Prof.(Dr.) J. G. Jena	H.O.D, CE	Member
10	Prof. (Dr.) S. P. Mohanty	H.O.D, H&S	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.K.Raul	Principal	Chairman
2	Prof.S.P.Mohanty	Prof.-in-Charge	Member
3	Dr.S.R.Hota	Librarian	Convener
4	Prof. C.K.Nayak	Representative, ME	Member
5	Prof. S. S. Routray	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. S. Mishra	Representative, H&S	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.Raul	Principal	Chairman
2	Prof.(Dr.)P.K.Routray	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 information of student's professional society, arranging advanced technical seminars, guest lectures and competitions. Front end technology involvement & updating state of the art technology implementation is the sole responsibility of the Wing.

Sl.No.	Name	Designation	Position

1	Prof.(Dr.)U.K. Roul	Principal	Chairman
2	Prof.(Dr.) U. 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 desirable 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. However, 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 however, 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 concerned. 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, whether 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 determined 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):

a. Lecturer to Lecturer Senior Scale:

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

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

b. Lecturer (SS) to Lecturer Selection Grade:

Lecturer (SS) with First Class M.Tech. and B.Tech. 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.

c. Promotion to Assistant Professor:

Lecturer (SS/SG) 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 3 years experience.

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

d. 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 3 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 8 years of teaching experience out of which 3 years must be as an Assistant Professor(3) has at least 330 research merit points or equivalent research/academic work to his/her credit.

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 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 petty 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 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 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.

Key Positions with Responsibilities:

Sl. No.	NAME	DESIGNATION	RESPONSIBILITIES
1	Prof. (Dr.) M. K. Paul	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, R&D
3	Prof.(Dr.) Saroj Chandra Mahapatra	Dean, S. W.	Disciplinary Committee, Athletic Committee, Cultural Committee, Student & Staff Welfare, Ethical Committee, Grievance Cell
4	Prof. (Dr.) M. K. Pradhan	Dean, R&D.	Research activities, Internal & External R&D, EDP Cell
5	Prof. (Dr.) Col. Pradeep Kumar Rautray	Dean, Admin Placement Head& Head, Grievance Redressal Cell	Budget Committee, Purchase Committee, Training & Placement Cell, HR Department, Grievance Redressal Cell
6	Prof. (Dr) N. P. Patro	Director, IQUC	Overall Quality assessment and development of the Institution.
7	Prof.(Dr.) L. B. Behura	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:

The committee specifically looks into the Grievances & betterment of the Women (girl students & Women employees). The 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.

SI.No.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. POUL	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 MOHANTY	ASST. PROF. (CSE)	MEMBER
6	PROF. (DR.) CHANDRIKA BISWAL	ASST. PROF. (ME)	MEMBER
7	PROF. PRIYADARSHI PRADHAN	ASST. PROF. (EE)	MEMBER

Grievance Redressal Committee

SI.No.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. POUL	PRINCIPAL	CHAIRMAN
2	PROF. (DR.) SMITARANI PATRO	ASSO. PROF. (BS&H)	CONVENOR
3	PROF. (DR.) PARIMAL GIRI	PROFESSOR & HEAD (CHT)	MEMBER
4	PROF. (DR.) K.K. MISHRA	DEAN (ACADEMICS)	MEMBER
5	PROF.(DR.) SUSMITA DASH	ASSO. PROF. (ME)	MEMBER
6	PROF. ANURADHA MOHANTY	ASST. PROF. (CSE)	MEMBER
7	MS. MEENATI MAHARANA	ASST. (DEAN SSC)	MEMBER
8	PROF. P.K. DALAI	ASST. PROF. (ECE)	MEMBER
9	PROF. BIKASH SAHOO	ASST. PROF. (CE)	MEMBER
10	PROF. (DR.) BHUNTHU KUMAR BISWAL	ASST. PROF. (BS&H)	MEMBER
11	PROF. PRIYADARSHI PRADHAN	ASST. PROF. (EE)	MEMBER
12	PROF. ASHOK KUMAR PRADHAN	ASST. PROF. (ME)	MEMBER

SC/ST grievance Committee

SI.NO.	NAME	DESIGNATION	POSITION
1	PROF. (DR.) M.K. POUL	PRINCIPAL	CHAIRMAN
2	PROF. (DR.) M.K. PRADHAN	PROFESSOR & HEAD (ME)	CONVENER
3	MR. P.K. DASH	ASST. (ADMINISTRATIVE OFFICER	MEMBER
4	PROF. (DR.) HEMUR TUDU(PUTEL	ASSO. PROF. (BS&H)	MEMBER
5	PROF. AMIT SINGH DEHURY	ASST. PROF. (CE)	MEMBER
6	PROF. RUBI NARAYAN ROUT	ASST. PROF. (EE)	MEMBER
7	PROF. CHITARANJAN BEHERA	ASST. PROF. (EEE)	MEMBER
8	MR. BIBUDHUTU SAHOO	LIB. (ASST. (NE)	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 (P&D) & HoD, ME	CONVENOR-MEMBER
3.	COL. (DR.) P.K. PAUTRAY	DEAN (ADMN)	MEMBER
4.	PROF. (DR.) K.K. MISHRA	DEAN (ACADEMICS)	MEMBER
5.	PROF. (DR.) N.P. PATRO	DIRECTOR, CUIC	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 Bijaya Kumar Sahi	Inspector-In-Charge, Info Valley Chandaka, Bhubaneswar	Member
3.	Sri Nitu Mohapatra, OAS (I)	Tahasildar, Jatni	Member
4.	Mr. Pramod Kumar Samantaray	Local Media, The Samaj	Member
5.	Col. P.K. Pautray	Dean (Admn)	Member
6.	Prof. S.K. Panigrahi	CoE	Member
7.	Prof. M.K. Pradhan	HoD, ME & Convener Anti-ragging Squad	Convener
8.	Prof. N.P. Patro	PIC (EDP & IPR) & Coordinator (CUIC	Member
9.	Prof. S.P. Mishra	PIC (P&D)	Member
10.	Prof. K.K. Mishra	Dean (Academics)	Member
11.	Prof. T.P. Panigrahi	HoD, CSE	Member
12.	Prof. P.K. Sa	HoD, CSE (AI & DS)	Member
13.	Prof. P.K. Giri	HoD, CMT	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, EEE	Member
18.	Prof. Jaygopal Jena	HoD, CE	Member
19.	Prof. D.S. Mishra	HoD, MCA	Member
20.	Prof. P.K. Suar	HoD, MBA	Member
21.	Prof. Amit Singh Dehury	Warden of Hostels (Boys)	Member
22.	Prof. Shifa Shami	Warden of Hostels (Girls)	Member
23.	Mr. Sushama Upadhyaya	PARENT REPRESENTATIVE	Member
24.	Mr. Ajay Kumar Sahoo		Member
25.	Utkarshya Bansal, CSE, 2nd yr	STUDENT REPRESENTATIVE (SENIOR)	Member
26.	Mishra Mohanty, CSDS,2nd yr		Member
27.	Unakoti Mohanty, ME, 2nd yr		Member
28.	Harish Kumar Sahoo, CMT	STUDENT REPRESENTATIVE (FRESHER)	Member
29.	Sagarika Upadhyaya, CSE (AI)		Member
30.	Suman Paul, CSE		Member

10.1.2 Delegation of financial powers (2)

Institute Marks : 2.00

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 petty 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 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 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 once 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.K. Rout	Principal, GITI (Autonomous) College, Bhubaneswar	Chairman
2	Dr. P.K. Rautaj	Dean (Administration (Nominated by Governing Body)	Member
3	Dr. Jagopal Jena	HOD CE (Nominated by Principal)	Member
4	Smt. Smrutirekha Behera	Finance Officer of the Affiliating University	Member
5	Sri. R.R. Mishra,	(Accounts Officer, GITI (Autonomous) College, Bhubaneswar	Member

10.1.4 Transparency and availability of correct/unambiguous information in public domain (2)

Institute Marks : 2.00

The Institution has provided all the necessary information in the website www.giti.edu.in (http://www.giti.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 Cell headed by the Dean, (Administration). The cell 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: 810094113				Actual expenditure(till ...): 671043001			Total No. Of Students: 3134
Fee	Govt.	Grants	Other sources(specify) : Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
730007939	0	0	80086733	505947735	165095866	0	150403.01

Table 2 - CFYm1 2022-2023

Total Income: 735589694				Actual expenditure(till ...): 749089066			Total No. Of Students: 4719
Fee	Govt.	Grants	Other sources(specify) : Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
658930400	0	150166	75218000	588779084	160813880	0	158673.47

Table 3 - CFYm2 2021-2022

Total Income: 635204301				Actual expenditure(till ...): 630089404			Total No. Of Students: 4130
Fee	Govt.	Grants	Other sources(specify) : Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
549811030	0	4071980	70413098	415565601	157020800	0	152510.70

Table 4 - CFYm3 2020-2021

Total Income: 508582068				Actual expenditure(till ...): 520792130			Total No. Of Students: 3525
Fee	Govt.	Grants	Other sources(specify) : Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
459489405	3620000	300000	28971020	405077909	115714221	0	149633.87

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till ...	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till ...	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till ...	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till ...
Infrastructure Built-Up	8500000	8065000	9000000	8916586	7500000	7099400	7000000	6508886
Library	1000000	8660736	9500000	8048800	8000000	7324800	8000000	6084475
Laboratory equipment	8500000	7434800	9000000	8019371	8700000	8643840	8300000	8003038
Laboratory consumables	8500000	5881883	7500000	3480301	7500000	3063873	7500000	7433379
Teaching and non-teaching staff	4700000	3538060	4000000	3868558	3807000	3817924	3870000	3687868
Maintenance and spares	8500000	4180007	5500000	5013801	2500000	2481760	4500000	4387188
R&D	3800000	3798420	3800000	3403973	4000000	1669886	4300000	4081970
Training and Travel	2000000	1507368	1500000	1316131	1500000	1165117	1500000	1481012
Miscellaneous	3000000	3088736	3000000	1943973	3000000	3868847	1900000	1940380
Others, specify(Establishment)	8800000	7371830	8800000	7880114	8800000	8159860	8400000	8450580
Total	837500000	671043001	770000000	749989202	573800000	230089404	541300000	520792133

10.2.1 Adequacy of budget allocation (2) Institute Marks : 2.00

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.

10.2.2 Utilization of allocated funds (2) Institute Marks : 2.00

The HODs are responsible for utilization of the funds allocated to their departments. HODs prepare their plans for purchase, investments 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 (2) Institute Marks : 2.00

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 (30) Total Marks 30.00

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 Budget: 22150000		Actual expenditure (till ...): 20870071		Total No. Of Students: 387
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,27,00,000	94,50,000	1,36,96,960	70,73,111	54166.34

Table 2 :: CFYm1 2022-2023

Total Budget: 25200000		Actual expenditure (till ...): 24029711		Total No. Of Students: 391
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,71,00,000	81,00,000	1,65,11,300	75,18,379	61456.27

Table 3 :: CFYm2 2021-2022

Total Budget: 13650000		Actual expenditure (till ...): 11599756		Total No. Of Students: 391
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,15,00,000	21,50,000	1,05,05,520	10,94,236	31230.03

Table 4 :: CFYm3 2020-2021

Total Budget: 14350000		Actual expenditure (till ...): 14141048		Total No. Of Students: 405
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,14,00,000	29,50,000	1,13,69,600	28,73,448	34916.17

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till ...	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till ...	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till ...	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till ...
Laboratory equipment	1500000	1501048	1550000	1600071	1100000	1003830	1100000	1097960
Software	700000	686500	800000	379930	500000	496250	400000	391500
Laboratory consumable	300000	269114	200000	71009	200000	127666	110000	102771
Maintenance and spares	1300000	1330000	1300000	1187300	1100000	1099640	1300000	866200
R & D	6800000	5598000	6800000	6009750	750000	20000	750000	731976
Training and Travel	350000	350000	200000	150000	100000	100000	100000	100000
Miscellaneous Expenses*	0	0	0	0	0	0	0	0
Total	24150000	20870071	23000000	24029711	13650000	11599756	11250000	11111048

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 (20) Institute Marks : 20.00

The HODs are responsible for utilization of the funds allocated to their departments. HODs prepare their plans for purchase, investments 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.

10.4 Library and Internet (20) Total Marks 20.00

The relevance 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, Gemini, 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 personal computers.

2. Inclusive Education

- Assistive technologies such as screen readers, demo-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 de-bias 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 at SITC Autonomous College, established in 2006, is a well-stocked 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 NDLI, INFLIBNET (e-ShodhSindhu), and DELNET, granting access to over 300 libraries across 20 states in India and five countries worldwide. Subscriptions to leading e-journal databases such as Science Direct, IEEE Xplore, Springer, and NPTEL course materials provide students with diverse learning resources. Additionally, the Knimbus E-Library platform offers discovery services, universal search features, and off-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 SITC 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	3466.2 Sqft.
2	Reading Room	1377 Sqft.
3	Reading Room strength	300
4	Total no. of Books (Titles including UBA & NCU)	8299

5	Total Number of Books (Volumes including MBA & MCA)	43370
6	Total no. of e-Journals	1601
7	Total No. of e-Books	10366
8	Total No. of Systems for e- Library	50
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 & Counselling 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. Organizing Programmes on Online Information Literacy

10.4.2 Internet (10)

Institute Marks : 10.00

Sl. No.	Particular	Description
1	Name of the Internet provider	Jio Tel, Vista
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 an exclusive lab	Yes
8	Availability in most 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/ privacy to Email/ Internet users	Yes

Annexure I

(A) PROGRAM OUTCOMES (POs)

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. 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.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

Program should specify 2-4 program specific outcomes.

PSO1	To empower the students to apply practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.
PSO2	To enable the students [illegible] in industries and to pursue higher studies in mechanical and interdisciplinary programs.
PSO3	To motivate the students to become a successful entrepreneur with high regards for ethical values, environmental and social issues.

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's expert visit guidelines in force as on date and the Institute has fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA, in case, any false statement/information is observed during pre-visit, visit, post-visit and subsequent to grant of accreditation.

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

Seal of The Institution

Place : Bhubaneswar
Date : 01-03-2023 13:20:08