GITA Autonomous College, Bhubaneswar

SELF ASSESSMENT REPORT(TIER - I) FOR Electrical Engineering

Part A : Institutional Information

1 Name and Address of the Institution

GITA Autonomous College, Bhubaneswar
At - Balanaguntanpur Po - Madanpur Via - Janla Bhubaneswar

2 Name and Address of Affiliating University

3 Year of establishment of the Institution

2004

4 Type of the Institution

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

5 Ownership Status

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

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

Name of Institutions	Year of Establishment	Programs of Study	Location
Gandhi Institute of Engineer	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
B.Tech in Electrical Engineering	UG	2004	2004	60	No	60	Applying First time	--	--	Yes	4
M.Tech in Power System Engineering	PG	2010	2010	18	No	18	Eligible but not applied	--	--	No	2

3 Programs to be considered for Accreditation vide this application:

SINo	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

3 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	134	149	150	145	146
Faculty in Engineering (Female)	69	70	45	55	45	45
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	33	34	33	33	31	33
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	16	17	16	16	16	16
Non-teaching staff (Male)	222	222	222	222	222	222
Non-teaching staff (Female)	94	94	94	94	94	94

B. Contractual* Employees (Faculty and Staff):

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

10. Total number of Engineering students

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

Engineering and Technology- UG Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	1852	1858	1899
Total no. of Girls	2276	1935	1526
Total	4128	3883	3993

Engineering and Technology- PG Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	132	84	58
Total no. of Girls	124	77	52
Total	256	161	117

Engineering and Technology- MBA Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	150	140	233
Total no. of Girls	183	170	186
Total	351	308	369

Engineering and Technology- MCA Shift-I

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	158	159	151
Total no. of Girls	231	179	121
Total	459	338	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 case-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 Roul
Designation	Principal
Mobile No:	8260845008
Email ID	principal@gita.edu.in

NBA Coordinator, If Designated	
Name	Dr. Kishore Kumar Mishra
Designation	Dean Academics
Mobile No:	8260845031
Email ID	deanacademics@gita.edu.in

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	93.28
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	200.00
6	FACILITIES AND TECHNICAL SUPPORT	50	50.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	PRE-YEAR ACADEMICS	50	47.40
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	100	128.00
	Total	1000	999

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

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

Vision of the Institute	To foster prosperity through technological advancement by promoting education, innovation, and collaborative research, and to emerge as a globally renowned premier technical i
Mission of the Institute	1. To impart high quality professional education to students worldwide, fostering innovation, technological advancement, discipline, effective communication skills, and strong i 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	To be a front runner in electrical engineering education, research and profession by providing globally competent, high quality electrical engineers.
Mission of the Department	**Mission No.** **Mission Statements** M1 1. To impart quality professional education to the students in and around the country so as to nurture innovations, advanced technology, discipline and moral eth M2 2. To provide broad based education to develop professional skill of students. M3 3. To impart overall training to students in realizing and executing the projects. M4 4. To inculcate entrepreneurship, innovation, research and consultancy amongst students. M5 5. To promote Community and Extension service for the benefit of the society.

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

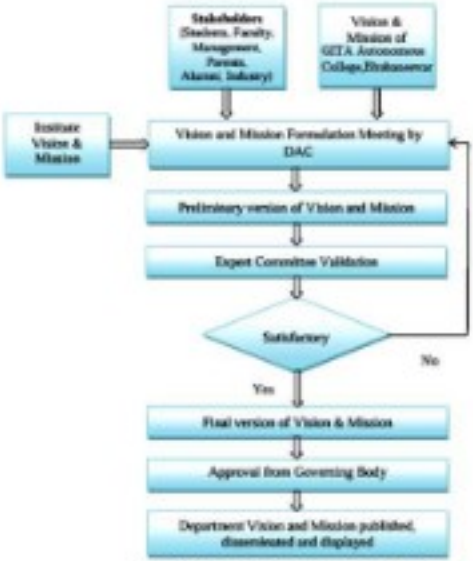
PEO No.	Program Educational Objectives Statements
PEO1	Our graduates are committed to excel in the field of engineering and technology and develop skills required for the industry.
PEO2	Our graduates will function ethically, responsively and remain alert about all round development of their profession.
PEO3	Our graduates are continuously exposed to quality professional education, to become innovative and ready to take on challenges to meet the technological advancement with discipline, and be ready to contribute to the development of so.
PEO4	Our graduates emerge out to become successful entrepreneurs and innovators.
PEO5	Our graduates sharpen their research skill and consultancy activities to meet out the global challenges and reforms.

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

Adequacy In Respect Of Publication &Dissemination

- College web site: https://gita.edu.in/ (https://gita.edu.in/)
- Department web site: https://gita.edu.in/cse/about/vmp/ (https://gita.edu.in/cse/about/vmp/)
- Department notice boards
- HOD room
- Staff Rooms
- Laboratories
- Corridors
- College brochure

The vision, mission and PEO's are disseminated to the stakeholders of the programme as shown in figure given below.



Flow chart for defining Department Vision and Mission

Student:

- Most prominent role in the program.
- Their feedback is considered to introduce innovative teaching and learning methodologies.
- Their input will help the program to introduce the elective programs to meet the changing trends.

Faculty:

- Involve a vital role in working of the program.
- Involves in various committees to check the consistency of the programme.
- Provides input for designing the programme, establishment and PEOs/POs, course outcomes and assessment.

Alumni:

- They are a measure of long-term success of the program.
- Alumni feedback helps in curriculum design to meet the changing trends in engineering and technology.
- Described their substance during their stay in the institute and advise the department with necessary inputs with respect to student's career.
- They are the prime ambassadors of the programme.

Employers:

- Represent the major end users of the graduates.
- Give higher focus to the programme on future data in make awareness with the industries.
- Give inputs which overcome the gap between program and industry.

Parents:

- Expect their wards to have good professional career and higher education.
- Expect their wards to become entrepreneurs.
- Expect their wards to utilize technical skill for social development and community service.

Professional bodies:

- Help students to interact with industries.
- Help in conducting seminars/workshops.
- Help the graduates to take up research work.

Departmental Advisory Committee:

- The departmental advisory committee comprising eminent professors from prestigious institutes of repute and leading industrialists is held twice in a year to suggest curricular development, addendums referring to industry specific criteria.
- They regularly stress upon internal and external seminars, FDPs, conferences, workshops, quiz and debate competitions for promoting the research skill of students.
- They very often suggest for industrial visits and study tours for sharpening the industrial skill of the students.
- They act as the control owners for all round development of the department of electrical engineering.

Managing bodies of the college

- They are highly cooperative and dynamic in meeting out the all round development of students, faculties and college as a whole.
- They leave no stone un-uttered for technological advancement of the institution for making it a premier institute in the country.

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (10)

The department established its vision and mission through consultative process involving the stake holders of the institute / department such as Management, Advisory Committee members, faculty, students, staff, parents, alumni and employers, the fi

Step 1) Vision and Mission of the institute are taken as basis

Step 2) Views are taken from the stake holders

Step 3) Adopted views are analysed and reviewed to check the consistency with the vision and mission of the institute

Figure 2. Process for defining vision and mission of the of the department

Process for defining Program Educational Objectives of the program.

The Program Educational Objectives are established through a consultation process involving the core constituents such as students, alumni, industry, faculties and employers. The PEOs are established through the following process steps and shown

Step 1) Vision and Mission of the department are taken as basis to interact with various stake holders and graduate attributes defined by NBA are also kept in view.

Step 2) Program coordinator consults the key constituents and collects their views and submits the views to Program Assessment Committee (PAC).

Step 3: PAC summarizes the collected views and expresses its opinion on the views and forward the same to Departmental Advisory Board (DAB).

Step 4: DAB deliberates on the views expressed by the PAC and formulates the accepted views based on which PEOs are to be established.

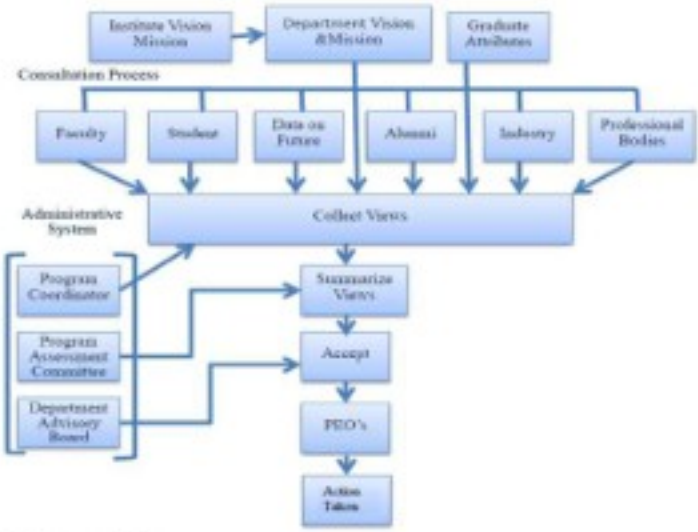


Figure 5. Establishment process for PEOs

Inputs considered for establishing the PEOs:

Faculty interaction:

The members of the teaching faculty as course coordinators play an important role in establishing PEOs. They are responsible for generating, altering and analysing all the activities related to the achievement of the course outcomes.

Alumni feedback:

Alumni narrate knowledge of the programme and play a vital role in the assessment of PEOs. Alumni feedback is obtained through alumni survey. Alumni meet is conducted once a year.

Employer feedback:

Consensus on gap/performance of the graduates with other employees of the organization is through employer feedback.

Program Assessment Committee (PAC):

It consists of program coordinator, module coordinators and course coordinators. Program Assessment Committee provides guidelines for:

- Program academic and administrations unit
- Student outcome assessment.

Department Advisory Board:

It consists of Head of the Department, program coordinator, industry representatives, representatives from professional bodies and academia. The committee looks after effectiveness of the program through evaluation and proposing necessary change

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

PEO1: Our graduates are committed to excel in the field of engineering and technology and develop skills required for the industry.

PEO2: Our graduates will function ethically, responsively and remain alert about all-round development of their profession.

PEO3: Our graduates are continuously endowed to quality professional education, to become innovative and ready to take on challenges to meet the technological advancement with discipline, and be ready to contribute to the development.

PEO4: Our graduates emerge out to become successful entrepreneurs and innovators.

PEO5: Our graduates sharpen their research skill and consultancy activities to meet out the global challenges and reforms.

MISSION

M_1: To impart quality professional education to the students in and around the country so as to nurture innovations, advanced technology, discipline, moral ethics etc.

M_2: To provide broad based education to develop professional skill of students.

M_3: To impart overall training to students in realising and executing the projects.

M_4: To incubate entrepreneurship, innovation, research and consultancy amongst students.

M_5: To provide community and extension service for the benefit of the society.

PEO Statements	M1	M2	M3	M4	M5
PEO1:	3	3	3	2	-
PEO2:	3	2	2	2	3
PEO3:	3	3	3	3	3
PEO4:	3	2	2	3	2
PEO5:	3	1	2	3	3

Table 8.1.5

Note: M1, M2, ...M5 are distinct elements of Mission statement. Enter correlation levels 1, 2 or 3 as defined below.

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

If there is no correlation, put '-'.

JUSTIFICATION FOR PEO & MAPPING WITH DEPARTMENT MISSION PEO

Mission Element	PEOs	Mapping Strength	Justification

DM1	PEO 1	Substantial (3)	Strongly contributes to professional excellence and industry readiness.
	PEO 2	Substantial (3)	Encourages ethical responsibility and professional conduct.
	PEO 3	Substantial (3)	Ensures technological adaptability and innovation.
	PEO4	Moderate (2)	Supports entrepreneurial initiatives and innovations.
	PEO5	Moderate (2)	Enhances research and consultancy activities.
DM2	PEO 1	Substantial (3)	Strengthens technical and analytical abilities.
	PEO 2	Moderate (2)	Encourages ethical and professional awareness.
	PEO 3	Substantial (3)	Prepares students for technological advancements.
	PEO4	Moderate(2)	Develops entrepreneurship mindset.
	PEO5	Slight(1)	Limited but supports research exposure.
DM3	PEO 1	Substantial (3)	Enhances practical knowledge and execution skills.
	PEO2	Moderate (2)	Ensures responsible project handling.
	PEO 3	Substantial (3)	Develops real-time problem-solving abilities.
	PEO4	Moderate (2)	Encourages innovative approaches.
	PEO5	Moderate (2)	Supports research-oriented project execution.

DM4	PEO 1	Moderate (2)	Encourages industry-focused learning.
	PEO 2	Moderate (2)	Promotes ethical awareness in entrepreneurship.
	PEO3	Moderate (2)	Develops adaptability to innovation
	PEO4	Substantial (3)	Strongly supports entrepreneurial and innovative skills.
	PEO5	Substantial (3)	Enhances research and consultancy participation.
DM5	PEO1	-	-
	PEO 2	Substantial (3)	Strongly encourages ethical responsibility and societal awareness.
	PEO3	Moderate (2)	Supports technological contributions to society.
	PEO4	Moderate (2)	Encourages entrepreneurship for social benefit.
	PEO5	Substantial (3)	Enhances research-driven solutions for societal challenges.

PEO Statements	M1	M2	M3	M4	M5
Our graduates are committed to excel in the field of engineering and technology and develop skills required for the industry.	3	3	3	3	-
Our graduates will function ethically, responsively and remain alert about all-round development of their profession.	3	3	3	3	3
Our graduates are continuously exposed to quality professional education, to become innovative and ready to take on challenges to meet the technological advancement with discipline, and be ready to contribute to the development of our country.	3	3	3	3	3
Our graduates emerge out to become successful entrepreneurs and innovators.	3	3	3	3	3
Our graduates sharpen their research skill and consultancy activities to meet out the global challenges and reforms.	3	3	3	3	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

2.1 Program Curriculum (20)

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

The curriculum design at SITA Autonomous College, Bhubaneswar follows a structured process to ensure alignment with NBA accreditation criteria, focusing on industry relevance, academic excellence, and outcome-based education. It is periodically

Process for Designing the Program Curriculum

The process for designing the program curriculum follows a structured and systematic approach to ensure alignment with Program Outcomes (POs) and Program Specific Outcomes (PSOs) while meeting industry, regulatory, and academic standards.

1. Formation of Curriculum Development Committee (CDC)

A Curriculum Development Committee (CDC) is constituted, comprising faculty members, industry experts, alumni, and stakeholders.

The committee ensures that the curriculum remains relevant to industry trends and emerging technologies.

2. Stakeholder Consultation

Inputs are gathered from various stakeholders, including students, faculty, alumni, employers, industry experts, and regulatory bodies.

Industry feedback is obtained through surveys, expert talks, and employer recommendations to align the curriculum with industry needs.

3. Review of POs, PSOs, and Regulatory Guidelines

The curriculum is mapped with NBA-defined Graduate Attributes, AICTE guidelines, National Education Policy (NEP) directives, and university regulations.

The relevance of existing courses is analyzed, and necessary modifications are proposed to enhance student learning outcomes.

4. Gap Analysis & Benchmarking

A gap analysis is conducted by comparing the curriculum with leading national and international universities, industry requirements, and accreditation benchmarks.

Course content is revised to address skill gaps and technological advancements.

5. Curriculum Design & Course Structuring

Courses are categorized into core, elective, laboratory, and project-based learning components.

Credit allocation is done as per regulatory guidelines.

Interdisciplinary and emerging courses (e.g., AI, Data Science, IoT) are incorporated.

6. Approval Process

The proposed curriculum is presented to the Board of Studies (BoS) for evaluation and recommendations.

After BoS approval, the curriculum is forwarded to the Academic Council for final approval.

7. Implementation & Continuous Evaluation

The revised curriculum is implemented, and student feedback is collected.

Periodic Curriculum Review Meetings (CRMs) are conducted to ensure continuous improvement.

Necessary modifications are made based on assessment results, technological advancements, and industry requirements.

By following this structured approach, the program curriculum remains dynamic, industry-relevant, and outcome-based, fulfilling the objectives of NBA accreditation and ensuring high-quality education.

Electrical Engineering department curriculum comprises of General, Basic Sciences and Professional Subjects related to electronics. Subjects are mapped with twelve Programme Outcomes and gaps are identified.

Following is the process used to identify extent of compliance of university curriculum for attaining the POs and PSOs.

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

Curriculum is designed and developed to ensure excellence in the quality in a systematic manner which provides a learner centric education. The evolution of program curriculum is periodically reviewed considering the following aspects

Vision and Mission of the department

Program Educational Objectives (PEOs)

Program Outcomes (POs)

Program Specific Outcomes (PSOs)

The Following are the key functional committees in implementing curriculum and reviewing of courses Program

- Programme Assessment Committee (PAC)
- Department Advisory Board (DAB)
- Board of Studies (BoS)

Academic Council (AC)

Board of Governors (BoG)

Programme Assessment Committee (PAC) comprises the following members:

- Head of the Department – Chairperson
- Program Coordinator
- Course coordinators

Department Advisory Board (DAB) comprises the following members

- Head of the Department – Chairperson
- Program Coordinator
- Senior Faculty Members
- Industry Expert
- Student
- Alumni
- Parent

Board of Studies comprises the following members

- Head of the Department – Chairperson
- Senior Faculty Members
- Industry Expert
- External academicians

Academic Council comprises the following members

- Head of the Institution – Chairperson
- Heads of All departments
- Industry Experts
- External academicians

Board of Governors comprises the following members

- Head of the Institution – Chairperson
- Industry Experts

- External academicians
- Senior Professors

Step-1: Program Assessment Committee (PAC) prepares draft curriculum / curricular changes based on the following

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

Step-2: Conduct Board of Studies (BoS) meeting to finalize the curriculum and syllabi.

Step-3: Submit the curriculum to Academic Council for approval which is finally approved by Board of Governors.

Program Assessment Committee

Program Assessment Committee (PAC) consists of Head of the department and senior faculty members. The course coordinators will recommend changes or revisions in the course content based on results of assessment of COs of the course. This is Department. The roles and responsibilities of PAC are as follows:

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

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

- Interacting with stakeholders regarding the improvement of POs, PSOs and PEOs.
- Evaluating program effectiveness and proposing necessary changes.
- Preparing periodic reports on program activities, progress, status or other special reports.
- Motivating the faculty and students to interact with the outside world i.e., participate in seminars, workshops, conference, developing projects / working models and engaging in research activities.

Department Advisory Board

The Department Advisory Board (DAB) is formed with the goal of creating a bridge between industry and academics considering the latest requirements of the industry and incorporating necessary components in the curriculum. The committee also gu as follows:

- Finalize all academic activities of the department and forwarding to the I QAC for analysing the report of the PAC and monitoring the progress of the program.
- Develop and recommend new or revised program goals and objectives. 2. Discuss current and future issues related to programs as per the guidelines.
- Review the feedback given by various stake holders and course coordinators. Board of Studies Board of Studies (BoS) takes up planning of the curriculum and the implementation of syllabi. BoS comprises of Head of the Department as Chairman, P
- Preparation of curriculum and syllabi for various courses.
- Review and update the syllabi from time to time.
- Propose methodologies for innovative teaching and evaluation techniques.
- Coordinate teaching, research and extension activities in the department.

Academic Council

Academic Council scrutinises and approves the proposals of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications. Academic Council recommends proposals of new study programmes to the E

Board of Governors

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

Common Course Structure for B. Tech Program, 2020-2024 Admission Batch Onwards

(CC)

Category	Total Credit	POs
HS/MS Humanities and Social Sciences including Management Courses	13	PO8, PO9, PO10, PO11, PO12
BS (Basic Science Courses)	17	PO1, PO2, PO3, PO4, PO5
ES (Engineering Science Courses)	26	PO1, PO2, PO3, PO4, PO5/PO7
PC (Professional Core Courses)	37	PO1, PO2, PO3, PO4, PO5, PO7
PE (Professional Elective Courses Relevant to Chosen Specialization/Branch)	15	PO1, PO2, PO3, PO4, PO5, PO7
OE (Open Electives from Other Technical and/or Emerging Subjects)	9	PO6, PO7, PO11, PO12

Project Seminar Internship * *4-6 Weeks	28	PO1, PO2,PO5, PO11
MC (Mandatory Courses)	0	PO7,PO8,PO9,PO10
Total	164	

List the curricular gaps for the attainment of defined POs and PSOs

The identified curricular gaps for the previous assessment years are given below:

S. No.	Identified Gaps	Action Taken	POs/PSOs
1	Less focus on working in Team and building of strong teams	Lecture on building a strong technical team and industry interactions	PO9, PO11
2	Less coverage on Project Planning, Project Work Plan & Finance	Lecture on planning and finance of Project and Industry interactions	PO1, PO2, PO11, PSO1, PSO2
3	Comparatively lesser use of modern tools	Courses on IT and modern tools	PO5, PO9, PO10, PSO1, PSO2

2.1.2 Structure of the Curriculum (5)

ID	Course Code	Course Title	Lecture (L)	T
1	20BTT0010	Engineering Mathematics I	3	1
2	20BTT0510	Engineering Chemistry	3	1
3	20BTT0310	Basic Electronics Engineering	3	1
4	20BTT0210	Basics of Civil Engineering	3	1
5	20BTH0110	Communicative English	2	0
6	20BTP0510	Eng. Chemistry Lab	0	0
7	20BTP0310	Basic Electronics Engineering Lab	0	0
8	20BTP0210	Basics of Civil Engineering Lab	0	0
9	20BTP0110	Engineering Graphics & Design Lab	0	0
10	20BTP0H10	English Language Lab	0	0
11	20BTT0020	Engineering Mathematics II	3	1
12	20BTT0320	Engineering Physics	3	1
13	20BTT0320 Physics	Basic Electrical Engineering	3	1
14	20BTT0520	Basics of Mechanical Engineering	2	1
15	20BTT0020	Engineering mechanics	3	1
16	20BTT0320	Programming for Problem Solving using C	3	0
17	20BTTH020	Business communication and life skills	2	0
18	20BTP0320	Eng. Physics Lab	0	0
19	20BTP0320	Basic Electrical Engineering Lab	0	0
20	20BTP0520	Basics of Mechanical Eng. Lab	0	0
21	20BTP0020	Workshop Practice	0	0
22	20BTP0320	Programming for Problem Solving using C Lab	0	0
23	20BTT0030	Engineering Mathematics III	3	1

24	20BTTES30	Data structure using C	0	1
25	20BTTHS30	Organizational Behaviour	2	0
26	20BTEET3C	Network theory	0	1
27	20BTEET4C	Analog Electronic circuit	0	1
28	20BTTHS30	Universal Human Values	2	0
29	20BTTMC30	Environmental Science	2	0
30	20BTEEP3C	Network theory Lab	0	0
31	20BTEEP4C	Analog Electronic circuit Lab	0	0
32	20BTPES30	Data structure using C Lab	0	0
33	20BTEEP5C	Employability Skill I	0	0
34	20BTEET5C	Digital Electronic Circuits	0	1
35	20BTTHS40	Engineering Economics and Costing	2	1
36	20BTEET6C	Electrical Machines-I	0	1
37	20BTEET7C	Electrical Measurement and Measuring Instruments	0	1
38	20BTEET8C	Electromagnetic Theory	0	1
39	20BTTHC40	Constitution of India	1	0
40	20BTEET9C	Digital Signal Processing	0	1
41	20BTEEP6C	Electrical Machines-I Lab	0	0
42	20BTEEP7C	Electrical Measurement & Measuring Instruments Lab	0	0
43	20BTEEP8C	Digital Electronics Circuits Lab	0	0
44	20BTEEP9C	Project-1	0	0
45	20BTEEP5C	Employability Skill-II	0	0
46	20BTEET7C	Electrical Machines-II	0	1
47	20BTEET8C	Control System Engineering	0	1
48	20BTEET9C	Power Electronics	0	1

46	23971007PC[illegible]Electrical Power Transmission & Distribution	0	1
50	23971007PC[illegible]Industrial Process Control and Dynamics	0	1
51	23971HC05[illegible]Essence of Indian Knowledge and Tradition	0	0
52	23971007PC[illegible]Electrical Machines-II Lab	0	0
53	23971007PC[illegible]Control system -Lab	0	0
54	23971007PC[illegible]Power electronics -Lab	0	0
55	23971007PC[illegible]Summer Internship	0	0
56	23971007PC[illegible]Mini Project-II	0	0
57	23971007PC[illegible]Employability Skill-II	0	0
58	23971007PC[illegible]Microprocessor and Microcontroller	1	1
59	23971007PC[illegible]Power System Operation and Control	0	1
60	23971007PC[illegible]Power System Protection	0	1
61	23971007PC[illegible]High Voltage Engineering	0	1
62	23971007CC[illegible]Communication Engineering	0	0
63	23971007PC[illegible]Microprocessor and Micro Controller Lab	0	0
64	23971007PC[illegible]Power system -Lab	0	0
65	23971007PC[illegible]Project-II	0	0
66	23971007PC[illegible]Seminar	0	0
67	23971007PC[illegible]Employability Skill-III	0	0
68	23971007PC[illegible]Electrical Control System	0	1
69	23971007PC[illegible]MUDC (FACTS	0	1
70	23971007PC[illegible]Electric Drives	1	1
71	23971007PC[illegible]Power Station Engineering	0	1
72	23971007CC[illegible]	0	1
73	23971HS10[illegible]Entrepreneurship Development	0	0

74	[redacted]	[redacted]Lab	0	0
75	[redacted]	[redacted]r PROJECT	0	0
76	[redacted]	[redacted]rd	0	0
77	[redacted]	[redacted]prehensive Viva	0	0
78	[redacted]	[redacted]ard Viva (Evaluation by External Examiner)	0	0
79	[redacted]	[redacted]r PROJECT (Evaluation by External Examiner)	0	0
80	[redacted]	[redacted]ranch(s) (Evaluation by External Examiner)	0	0
		Total	165	33

3.1.3 State the components of the curriculum (5)

Edit | Save

Course Components	Curriculum Content (% of total number of credits of the program)
Basic Sciences	10.11

3.1.4 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)

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

To ensure that the curriculum effectively meets the Program Outcomes (POs) and Program Specific Outcomes (PSOs), a structured assessment and evaluation process is followed. The key steps in this process are:

1. Course-PO and Course-PSO Mapping

Each course is mapped to relevant POs and PSOs with an assigned level of contribution (Low-1, Medium-2, High-3).

This mapping ensures that all outcomes are adequately covered across different courses in the curriculum.

2. Assessment of Attainment Levels

a) Direct Assessment Methods:

Continuous Internal Evaluation (CIE): Includes assignments, quizzes, mid-semester exams, and lab evaluations.

End-Semester Examinations (ESE): Measures conceptual understanding and application of knowledge.

Project Work & Internships: Evaluates students' ability to apply theoretical knowledge to real-world problems.

b) Indirect Assessment Methods:

Student Feedback Surveys: Collect perceptions on learning effectiveness.

Alumni & Employer Feedback: Assesses curriculum relevance to industry needs.

Graduate Exit Surveys: Evaluates students' preparedness for employment and higher education.

3. Attainment Calculation & Compliance Analysis

The PO and PSO attainment levels are measured based on student performance in assessments.

A threshold is set (e.g., 60% of students achieving a certain score) to determine attainment levels.

Gap analysis is conducted to identify areas requiring improvement.

4. Continuous Improvement Process

Curriculum Review Meetings (CRMs): Conducted periodically to analyze attainment results.

Course Modifications: Updates in course content, teaching methods, and assessment strategies based on analysis.

Faculty Development Programs: Training faculty on innovative teaching methods and emerging technologies.

This systematic process ensures continuous monitoring, evaluation, and improvement of the curriculum to enhance PO and PSO attainment, meeting NBA accreditation requirements effectively.

The Gap is discussed in the Departmental Academic Committee (DAC) meeting and the content beyond the syllabus is prepared accordingly to bridge the GAP. These contents are delivered to the students through Tutorial and Remedial classes.

The curriculum for B. Tech. in Electrical Engineering maintains a balance among various categories of courses from Science, Mathematics, Engineering, Humanities and Management, Projects, and Internship components. The syllabus for a

Attainment of Course Outcome

Attainment of Program Outcome

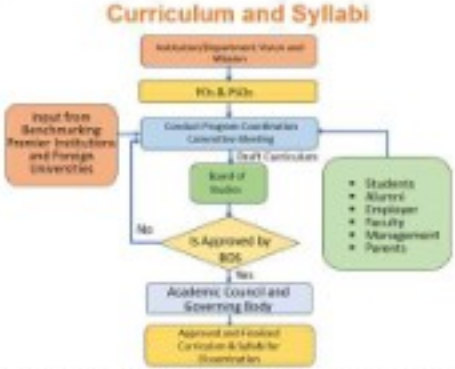


Figure : Process to identify extent of compliance of the curriculum for attaining the program outcomes and program specific outcomes

PROGRAMME OUTCOMES (POS) FOR EE

Graduates of Electrical Engineering will be able to:

PO1 Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and electrical engineering to the solution of engineering problems.

PO2 Problem analysis: Identify, formulate, review literature and analyze electrical engineering problems to design, conduct experiments, analyze data and interpret data.

PO3 Design /development of solutions: Design solution for electrical engineering problems and design system component of processes that meet the desired needs with appropriate consideration for the public health and safety and the cultural, soc

PO4 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 in electrica

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to electrical engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to electrical engineering practice.

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

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

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

PO10 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 pre

PO11 Project Management and finance: Demonstrate knowledge & understanding of the electrical engineering principles and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in

PO12 Life-long learning: Recognize the need for, and the preparation and ability to engage in independent research and lifelong learning in the broadest context of technological changes in electrical engineering.

PSO for EE

PSO of EE	General Categories of Outcomes	Specific outcomes of the Course
PSO1	Students will have the ability to use logical and technical skills to model, simulate and analyze electrical components and systems.	This course would help the students to sharpen their skills by logical thinking which is very much required in facing any competitive examination and engineering practices.
PSO2	Integrate the knowledge of power electronics, electrical drives, power system and control system for controllability, reliability and sustainability of electrical systems.	This course sharpens the advanced computational requirement to simulate the process control systems and its synthesize and execute the project skill in various organizations.
PSO3	Contribute for the development of smart grid based on green energy to meet the increasing demand of the society.	This Course aims at exploiting the nonconventional energy generation measures as an alternative for exhaustion of conventional sources and to overcome global power crisis.

2.2 Teaching-Learning Processes (TS)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (10)

Processes Followed to Improve Quality of Teaching & Learning

To ensure high-quality education and outcome-based learning, SITA Autonomous College, Bhubaneswar, follows a structured approach that includes academic planning, innovative teaching methodologies, and continuous assessment. The key proces

1. Adherence to Academic Calendar

The academic calendar is prepared in accordance with guidelines and includes semester schedules, examinations, internal assessments, and extracurricular activities.

Regular monitoring of syllabus completion ensures adherence to timelines.

2. Innovative Teaching & Pedagogical Initiatives

To enhance student engagement and conceptual clarity, the following instructional methods are adopted:

Outcome-Based Education (OBE): Course objectives are mapped to Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Use of ICT Tools: Smart classrooms, Learning Management Systems (LMS), NPTEL videos, and simulation software are integrated into teaching.

Real-World Case Studies & Industry Exposure: Industry case studies, guest lectures, and field visits bridge the gap between academia and practical applications.

Collaborative & Active Learning: Group discussions, peer learning, flipped classrooms, and problem-solving sessions encourage interactive learning.

3. Quality Enhancement in Laboratory Learning

Well-equipped modern laboratories provide hands-on experience to students.

Standardized lab manuals are provided to students to ensure consistency in experiments, recording observations, and analyzing data.

Project-Based Learning (PBL): Students are encouraged to work on mini-projects, hackathons, and interdisciplinary assignments.

4. Encouraging Bright Students & Assisting Weak Students

Support for Bright Students:

Advanced Learning Opportunities: MOOC platforms (Coursera, NPTEL, SWAYAM), research projects, and industry internships.

Competitions & Hackathons: Students are motivated to participate in national and international technical competitions.

Support for Weak Students:

Remedial & Bridge Courses: Special sessions for slow learners to strengthen foundational knowledge.

Mentoring & Counseling: Each faculty member mentors a group of students to monitor academic performance and provide necessary guidance.

Peer Tutoring & Extra Classes: Advanced learners assist slow learners through structured mentoring programs.

3. Faculty Development & Continuous Improvement

Faculty Development Programs (FDPs): Regular workshops and FDPs on new pedagogical tools, research methodologies, and industry trends.

Student Feedback Mechanism: Periodic feedback from students helps in identifying areas for faculty improvement and course enhancement.

Academic Audits & Impact Analysis: Periodic reviews are conducted to assess the effectiveness of teaching methodologies and student performance.

Impact Analysis & Continuous Improvement

Improved Student Performance: Increased pass percentage and placement opportunities.

Enhanced Student Engagement: Higher participation in research projects, internships, and industry collaborations.

Increased Employability: Regular interactions with industry partners ensure that students acquire industry-relevant skills.

By implementing these structured initiatives, SITA Autonomous College, Bhubaneswar, ensures continuous enhancement in teaching-learning quality, fostering a student-centric and outcome-based education system that aligns with NBA accreditation s

Adherence to Academic Calendar:

Before the semester begins, the subject-handling faculty prepares a lesson plan that includes the course objectives and outcomes. The head of the department duly approves it, and the students can access it. The college website publishes the lesson

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha)

Ref: GITA/ACAD/SL/2023 Date:30.12.2023

NOTIFICATION

LIST OF HOLIDAYS OF GITA AUTONOMOUS COLLEGE, BHUBANESWAR FOR THE YEAR 2024

(for the approval of Hon'ble GC)

S.No.	Date	Day of the week	Name of the Festival/Occasion/Holiday	No. of Days
1.	01.01.2024	Monday	New Year Day	01
2.	15.01.2024	Monday	Makara Sankranti	01
3.	26.01.2024	Friday	Republic Day	01
4.	14.02.2024	Wednesday	Basanta Panchami / Saraswati Puja	01
5.	08.03.2024	Friday	Maha Shivaratri	01
6.	25.03.2024	Monday	Holi	01
7.	29.03.2024	Friday	Good Friday	01
8.	11.04.2024	Thursday	Id-ul-Fitre	01
9.	17.04.2024	Wednesday	Ram Navami	01
10.	21.04.2024	Saturday	Maha Vishuvasankranti	01
11.	01.05.2024	Wednesday	Id-ul-Zoha	01
12.	10.06.2024	Monday	Id-ul-Zoha	01
13.	15.08.2024	Thursday	Independence Day	01
14.	26.08.2024	Monday	Janmashtami	01
15.	07.09.2024	Saturday	Ganesh Puja	01
16.	16.10.2024	Wednesday	Ayudha Jayanti / Mahalaya	01
17.	31.10.2024 to 01.11.2024	Thursday to Wednesday	Durga Puja (Vijaya Dashami)	02
18.	01.11.2024	Thursday	Diwali	01
19.	02.11.2024	Friday	Bhai Phonta	01
20.	15.11.2024	Wednesday	Id-Milad-Un	01
Total				25

(GITA: Excluding Saturday/Sunday/Holidays)

Principal
GITA Autonomous College, Bhubaneswar

ACADEMIC CALENDAR FOR THE SESSION 2023-2024

Odd/Semester Activities	1st Semester	3rd Semester	5th Semester	7th Semester
Date of opening of orientation	31.7.2023 to 04.8.2023	31.07.2023 to 04.08.2023	31.07.2023	30.09.2023
Registration without fine	04.08.2023 to 10.08.2023	04.08.2023 to 10.08.2023	11.08.2023 to 14.08.2023	11.08.2023 to 15.08.2023
Registration with fine of Rs 200/-	11.08.2023 to 14.08.2023	11.08.2023 to 14.08.2023	14.08.2023 to 17.08.2023	16.08.2023 to 18.08.2023
Starting registration	15.08.2023 to 16.08.2023	15.08.2023 to 16.08.2023	18.08.2023 to 19.08.2023	19.08.2023 to 21.08.2023
Class Test1	18.08.2023 to 24.08.2023	18.08.2023 to 24.08.2023	18.08.2023 to 24.08.2023	19.08.2023 to 24.08.2023
Display of marks of Class Test 1	25.8.2023	25.8.2023	25.08.2023	28.08.2023
Class test II	27.09.2023 to 03.09.2023	27.09.2023 to 03.09.2023	27.09.2023 to 03.09.2023	30.09.2023 to 07.10.2023
Display of marks of Class Test II	27.09.2023	27.09.2023	27.09.2023	09.10.2023
Last date of uploading Internal marks	27.09.2023	27.09.2023	06.09.2023	14.10.2023
Sub-(5 hours) (Odd) Semester Exams	28.09.2023	28.09.2023	08.09.2023	16.10.2023
Sub-(5 hours) (Odd) Semester - Examinations	14.09.2023 to 04.10.2023	14.09.2023 to 04.10.2023	14.09.2023 to 04.10.2023	26.10.2023 to 14.11.2023
Semester Break	-	-	-	-
Date of commencement of Classes (Semester) Even Semester 2023-24	31.10.2023	31.10.2023	31.10.2023	30.11.2023
Date of publication of Odd Semester 2023-24 Result	08.09.2023	08.09.2023	08.09.2023	16.11.2023

Even Semester Activities	2nd Semester	4th Semester	6th Semester	8th Semester
Date of starting of instructions	15-01-2025 to 25-04-2025	16-01-2025 to 25-04-2025	06-01-2025 to 25-04-2025	23-01-2025 to 25-04-2025
Registration +Mentor Slot	13-01-2025 to 17-01-2025	13-01-2025 to 17-01-2025	13-01-2025 to 17-01-2025	23-01-2025 to 28-01-2025
Registration +Mentor Slot for BS MC	20-01-2025 to 24-01-2025	20-01-2025 to 24-01-2025	20-01-2025 to 24-01-2025	30-01-2025 to 31-01-2025
Starting Experience	10-01-2025 to 25-04-2025	16-01-2025 to 25-04-2025	10-01-2025 to 25-04-2025	30-01-2025 to 31-04-2025
Class Test I	10-01-2025 to 28-02-2025	16-01-2025 to 28-02-2025	10-01-2025 to 28-02-2025	30-01-2025 to 31-04-2025
Display of marks of Class Test I	03-02-2025 to 07-02-2025	03-02-2025 to 07-02-2025	03-02-2025 to 07-02-2025	07-02-2025 to 07-02-2025
Class test II	10-03-2025 to 19-04-2025	10-03-2025 to 19-04-2025	10-03-2025 to 19-04-2025	31-01-2025 to 30-01-2025
Display marks of Class Test II	20-01-2025	20-01-2025	20-01-2025	30-01-2025
Last date of uploading Internal marks	30-01-2025	30-01-2025	30-01-2025	03-02-2025 to 05-02-2025
Date of Group of Even Inservice class	13-01-2025 to 28-01-2025	13-01-2025 to 28-01-2025	13-01-2025 to 28-01-2025	23-01-2025 to 07-02-2025
Date of conduct of Even Inservice Examination	17-01-2025 to 30-03-2025	17-01-2025 to 30-03-2025	17-01-2025 to 30-03-2025	07-02-2025 to 21-02-2025
Inservice Break	-	-	-	-
Date of commencement of Classes for even Odd Semester 2024-25	07.08.2025 to 18.08.2025	07.08.2025 to 18.08.2025	07.08.2025 to 18.08.2025	
Date of publication of Even Semester 2024-25 Result	31-05-2025 to 30-06-2025	31-05-2025 to 30-06-2025	31-05-2025 to 30-06-2025	30-01-2025 to 31-01-2025

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

- Mid semester question papers are prepared considering the standards of SAFE, PSU entrances, Previous year question 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.

Process for mid Semester Question Paper Setting

Question Papers:

- While setting the question paper all previous university exam papers are taken into consideration.
- According to level of toughness the questions are prepared (viz., analysing 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.

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.

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

Setting of question:

Long questions often consist of two sections, theory and troublesome questions. The Controller of Examination receives two sets of these questions. They finalize the exam set and have independent subject-matter experts moderate the questions. The questions balance of COs coverage in Bloom's level.

GITAAUTONOMOUS COLLEGE, BHUBANESWAR

ASSIGNMENT-I Subject: ELECTRICAL M

5th Semester B. Tech EE Full Marks: 05

Instructions: Answer all the questions. The figures in the right-hand margin indicate marks.

Part – I			
01	Short Answer Type Questions		
	a)	Calculate the distribution factor for a 6 pole, 72 slots, single layer 3-Ø alternator stator winding.	
	b)	What do you mean by coil pitch & pole pitch?	
	c)	Which portion of a coil is known as active portion and overhang portion?	
	d)	What is the difference between full pitched coil and short pitched coil?	
	e)	What are the differences between distributed winding and concentrated winding.	
Part – II			
02	Focussed – Short answer type Questions.		
	a)	Write two advantages of short pitched coils in the armature winding in an AC machine.	
	b)	What will be the winding factor for a 3-Ø balanced distributed winding having 24 stator slots, 8 poles, and coil span of 0 slots?	
	c)	Draw the diagram of wound rotor winding and ascribe slip ring.	
Part – III			
	Long Answer type Questions		
03	a)	Derive expression for the 'pitch factor' and 'distribution factor' of a 3-Ø balanced distributed winding used in a synchronous machine. Consider only the fundamental air-gap mmf.	
	b)	Draw one extended diagram of 3-Ø star connected stator winding having 4 pole, 24 slots, 12 number of single turn coil.	

GITAAUTONOMOUS COLLEGE, BHUBANESWAR

ASSIGNMENT-II Subject: ELECTRICAL MA

5th Semester B. Tech EE Full Marks: 05

Instructions:

Answer all the questions. The figures in the right-hand margin indicate marks.

Part – I			
01	Short Answer Type Questions		
	a)	Why is the air gap between the rotor and the stator of a 3-Ø induction motor is kept as short as possible?	

	b)	How is magnetizing current kept small in a 3-Ø induction motor?
	c)	What is constant magnetic field?
	d)	What is pulsating magnetic field?
	e)	What do you mean by reluctance and how it affects the magnetic flux?
Part – I		
01	Focussed – Short answer type Questions.	
	a)	How rotating magnetic field is produced in shaded pole motor?
	b)	What is cross-field theory?
	c)	How the direction and speed of rotating magnetic field can be changed?
Part – II		
	Long Answer type Questions.	
02	a)	How rotating magnetic field is produced when a 3-Ø supply is connected to a 3-Ø balanced distributed full pitched winding?
	b)	Describe about the double revolving field theory.

ASSIGNMENT-II Subject: ELECTRICAL MAC

5th Semester B. Tech EE Full Marks: 05

Instructions:Answer all the questions. The figures in the right-hand m

Part – I		
01	Short Answer Type Questions	
	a)	A 3-Ø induction motor has 2 pole and is connected to 400V, 50Hz supply. Calculate the actual rotor speed and rotor frequency when slip is 4%?
	b)	What are the advantages of squirrel rotor motor over squirrel cage induction motors?
	c)	What is the effect of supply voltage on the torque of an induction motor?
	d)	What is the condition for maximum torque for 3-Ø induction motor?
	e)	Why is the power factor of a 3-Ø induction motor low at no load?
Part – I		
02	Focussed – Short answer type Questions.	

	a)	Why Cannot 3-Ø induction motor run at synchronous speed?
	b)	What is slip in case of an induction motor?
	c)	In a 6-pole 3-phase, 50Hz motor with slotor connected rotor, the rotor resistance per phase is 0.1Ω, the resistance at stand still is 1.5Ω per phase, and an emf between the slip rings on open ckt 200 rpm. it. Rotor emf in, rotor frequency and resistance at a speed of 950 rpm.
Part – II		
	Long Answer type Questions	
03	a)	How a rotating field is produced in a 3-Ø induction Motor when a 3-Ø supply is given?
	b)	A 3-Ø induction motor runs at almost 1000 rpm at no-load and 950 rpm at full load when supplied with power from a 50 Hz 3- Ø line. (i) How many poles has the motor? (ii) What is % of slip at full load? (iii) What is the corresponding frequency on rotor voltage? (iv) What is the corresponding speed of the rotor field with respect to rotor and stator? (v) What is the rotor frequency at the slip of 10%?

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ASSIGNMENT-4 Subject: ELECTRICAL MA

5th Semester B. Tech EE Full Marks: 05

Instructions: Answer all the questions. The figures in the right-hand margin indicate mark

Part – I		
01	Short Answer Type Questions	
	a)	Why do we require 1-Ø induction motors?
	b)	What is the function of centrifugal switch in a 1-Ø induction motor?
	c)	What are the drawbacks of resistance split-phase induction motor?
	d)	Why is the starting torque of a capacitor start induction motor high?
	e)	A 4-pole 50 Hz,1-Ø induction motor is running with a slip of 2.4%. Calculate the speed of the motor.
Part – II		
02	Focussed – Short answer type Questions	
	a)	A 4-pole,230V,1100/50Hz capacitor start induction motor takes a full load line current of 3.5A while running at 1750 rpm. If the full load efficiency of the motor is 84%. Find: (i)Motor slip (ii)power

	b)	What are different modifications required for DC series motor to operate in AC?
	c)	Write down the comparison between the 1-Ø induction motor and 3-Ø induction motor?
Part – II		
	Long Answer type Questions	
Q3	a)	What is Double-field revolving theory, which help the 1-Ph induction motor work?
	b)	A 230 v, 50 Hz, 4 pole single phase induction motor has the following equivalent circuit impedances Zm =(0.03, 50 =4.5Ω, Xm =(-10, X2 =(0.5Ω and Xm =60Ω. Friction, windage and core loss =40 W. For a slip of 0.03 Pu. Calculate (i) Input current (ii) power factor (iii) developed power (iv) output power (v) efficiency

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ASSIGNMENT-II Subject: ELECTRICAL MA
5th Semester B. Tech EE Full Marks: 05
Instructions:
Answer all the questions. The figures in the right hand margin i

Part – I		
Q1	Short Answer Type Questions	
	a)	What is the basic difference between the salient pole and cylindrical rotor synchronous machine.
	b)	What do you understand by voltage regulation of an alternator why is it not for leading p.f
	c)	How frequency of induced emf is related to speed in a 1-Ø synchronous alternator?
	d)	Explain why the direct axis synchronous reactance of a salient pole synchronous machine is greater than its quadrature axis synchronous reactance.
	e)	Write two applications of synchronous motor.
Part – II		
Q2	Focussed – Short answer type Questions	
	a)	Draw the power angle characteristics of three phase synchronous alternator with, also explain why maximum power is generated at a load angle close to but less than 90°?
	b)	Write different advantages of stationary armature system.
	c)	A grid connected 3-Ø synchronous motor is operating at unity power factor while driving full load on its shaft. What will be the nature of the operating power factor of this motor if the load on its s keeping its excitation constant?
Part – III		

	Long Answer type Questions	
03	a)	Explain the method for determining the voltage regulation of 3-Ø synchronous alternator by potier triangle method (2nd method).
	b)	A 30KW, 3-phase star connected, 50 no. 440V cylindrical rotor synchronous motor operates at rated condition with 0.8 p.f. lagging field and motor losses, the efficiency of machine is 88% and i. Mechanical power developed ii. Power angle.

GITA AUTONOMOUS COLLEGE, BHUBANESWAR

DEPARTMENT OF ELECTRICAL ENGINEERING

QUIZ TEST SUBJECT: EMI-I

BRANCH- 5TH SEM EE FULL MARK- 20

Instructions: Answer all the questions. The figures in the right hand margin indicate marks.

Q. No.	Questions	Marks	BL	CO
1.	The magnitude of developed torque will depend on a. The magnitude of Stator RMF b. The magnitude of Rotor EMF c. The angle between Stator and Rotor RMF d. All of these	2	2	3
2.	No-load current in Induction Motor is Very _____ due to presence of an _____ a. Small & Core b. Large & Core c. Small & Air-gap d. Large & Air-gap	2	1	3
3.	For ceiling fans generally the single phase motor used is? a. capacitor-start type b. split phase type c. permanent capacitor type d. capacitor start and run type	2	1	4

4.	In shaded pole motor, the direction of rotation of motor is a. From shaded pole to unshaded pole b. From the unshaded to shaded pole c. Either 1 or 2 d. How supply terminal connected with the stator winding	2	3	a
5.	The direction of rotation of universal motor can be reversed by reversing the flow of current through a. Armature winding b. Field winding c. Either Armature or Field d. both of the winding	2	3	a
6.	What is the input current of a 2HP single phase motor, 240V at 70% efficiency and 0.8p.f? a. 7A b. 11A c. 13.6A d. 17.7A	2	3	a
7.	The net emf per phase of an alternator does not depend on which of the following parameter? a. Flux per pole b. Rotor resistance c. Total number of turns per phase d. Frequency	2	3	b
8.	A synchronous generator connected to an infinite bus delivers power at lagging power factor. If its field excitation is increased, what is the effect? a. Terminal voltage increases b. Voltage angle increases c. Current delivered increases d. All of the above	2	3	b
9.	In a synchronous motor, the maximum torque developed by the motor without losing synchronization is called_____. a. Pull-out torque b. Running torque c. Starting torque d. Pull-in torque	2	3	b
10.	Which motor is used for power factor improvement? a. Induction Motor b. Under excited synchronous motor c. DC series motor d. Over-excited synchronous motor	2	3	b

GITA AUTONOMOUS COLLEGE, BHUBANESWA
DEPARTMENT OF ELECTRICAL ENGINEERING
SURPRISE TEST SUBJECT
BRANCH- 6TH SEM EE M

Answer all the questions. [10X10]

Q. No.	Questions
1.	Calculate the distribution factor for a 6 pole, 72 slots, single layer 5/6 alternator stator winding.
2.	Write two advantages of short pitched coils in the armature winding in an AC machine.
3.	Draw one three phase AC winding diagram having four number of poles, 24 number of slots and each slot having one conductor.
4.	Why is the air gap between the rotor and the stator of a 3-Ø induction motor is kept as short as possible?
5.	What do you mean by constant and pulsating magnetic field?
6.	What is the resultant magnitude of magnetic flux in a rotating magnetic field? Explain with proper diagram.
7.	One pulsating magnetic field can be splitted into two oppositely rotating magnetic field. Justify this statement.
8.	Draw the flux wave form and induced emf waveform of alternator for only one phase.
9.	Describe about principle of operation of 3-phase induction motor.
10.	Describe about torque vs its characteristic of 3-phase induction motor with diagram.

GITA AUTONOMOUS COLLEGE, BHUBANESWA
(Affiliated to BPUT, Odisha)
3rd Semester B. Tech Mid Term Examination 2020-
Regu

Subject: ELECTRICAL MACHINE-I
Subject Code: 3/BTEETCC010
Branch: EE
Time: 2 Hours
Full Marks: 20
Instructions:
Answer any eight questions from (Part-I), any three questions from (Part-II) and any two questions from (Pa

Part – I		
Q1	Short Answer Type Questions (Answer any eight out of ten)	
	a)	What do you mean by coil pitch & pole pitch?

	b)	Why the speed of 3-Φ Induction Motor less than synchronous speed.
	c)	Calculate the distribution factor for a 6 pole, 72 slots, single layer 3-Φ alternator stator winding.
	d)	A 6-pole induction motor is fed from 50Hz supply. If the frequency of rotor emf at full load is 2Hz. Find the full load speed and slip.
	e)	What is Slip in case of an induction motor?
	f)	What are the advantages of wound rotor motor over squirrel cage Induction Motor.
	g)	What are advantages of short pitched winding in an alternator?
	h)	A 3-Φ induction motor has 2 pole and is connected to 400V, 50Hz supply. Calculate the actual rotor speed and rotor frequency when slip is 4%?
	i)	What is the effect of supply voltage on the torque of an induction motor?
	j)	What do you meant by chorse belt and phase spread.
Part – I		
02	Focused – Short answer type Questions (Answer any three out of five)	
	a)	What are the essential differences between 3-phase induction motor and transformer?
	b)	Why does the rotor of a 3- Φ Induction Motor rotate in the same direction as the rotating field.
	c)	A 3- Φ Induction Motor has 2 poles and is connected to 400V, 40Hz supply. Calculate the actual rotor speed and rotor frequency when the slip is 4%.
	d)	Write short note on frequency of Rotor current and What is Slip Speed?
	e)	Draw an extended winding diagram for a 4 pole 3- Φ AC Machine having 24 slots and one conductor per slot.
Part – II		
	Long Answer type Questions (Answer any two out of four)	
03	a)	Describe about Torque-slip characteristic of 3-Φ IM with proper diagram.
	b)	The power input to a 550V, 50 Hz 6-Pole 3-Φ squirrel cage induction motor running at 975 rpm is 40 kW. The stator losses are 1kw and the Rotor and windage losses are 2kW. Calculate: (i) s
04	a)	Draw the transformer equivalent circuit & phasor Diagram of a 3-Φ IM at any slip.
	b)	A 440V, 3-Φ 50Hz, 4-pole, Y- connected I.M. has a full load speed of 1425rpm. The rotor has an impedance of (0.4+j1) Ω & rotor/stator turn ratio is 0.9. Calculate (i) full load torque (ii) rotor curr
05	a)	Describe about star-delta starter of 3-Φ M.
	b)	Describe about rotating magnetic field system.

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

(Affiliated to BPUT, Odisha)

5th Semester B.Tech./Regular Examination 2023-2

Regular

Subject: ELECTRICAL MACHINE-I

Subject Code: EE5TECTYC013

Branch: EE

Time: 3 Hours

Full Marks: 80

Instructions:

Answer question no. 1 (Part I) any ten out of 10 bits, from (Part II) any five out of 7 bits.

The figures in the right-hand margin indicate mark.

Part—I			
Q1	Short Answer Type Questions (Answer any ten out of twelve)		
	a)	What do you mean by concentrated and distributed winding?	
	b)	What do you mean by full pitched and short pitched winding?	
	c)	What are the applications of wound rotor induction motor?	
	d)	A 3-Ø induction motor is wound for 4 poles and is supplied from 50Hz system. Calculate: (i) the synchronous speed (ii) The rotor speed when slip is 4% and (iii) Rotor frequency	
	e)	What are the advantages of wound rotor motor over squirrel cage induction motors?	
	f)	How frequency of induced emf is related to speed in a 3-Ø synchronous alternator?	
	g)	What is the basic difference between salient pole and cylindrical rotor synchronous machine?	
	h)	What is the speed regulation of a synchronous motor	
	i)	A synchronous motor is floating on an infinite bus on no load. If the excitation is non increased what will happen?	
	j)	Explain the objective of using an auxiliary winding in a single-phase induction motor	
	k)	Why is the starting torque of a repulsion start induction motor high?	
	l)	How to make 1-Ø induction motor self-starting?	
Part—II			
Q2	Focussed – Short answer type Questions (Answer any five out of seven)		
	a)	Describe about the distribution factor.	
	b)	Why cannot 3-Ø induction motor run at synchronous motor?	
	c)	Write short note on frequency of Rotor current and What is Slip Speed?	
	d)	What do you understand by voltage regulation of an alternator, why it is use for leading p.f?	
	e)	Write down some comparison between Synchronous motors and Induction motors	
	f)	Why the pole shoes of a synchronous machine are so shaped that the air-gap is least in the middle and increased towards the pole edge?	

	(j)	In a 6-pole, 50Hz, 1-Ø induction motor, the gross power absorbed by the forward and backward fields are 1600W and 25W respectively at a motor speed of 960 rpm. If the no-lo
Part – II		
	Long Answer type Questions (Answer any two out of four)	
03.	(a)	How a rotating field is produced in a 3-Ø Induction Motor when a 3-Ø supply is given?
	(b)	A 3-Ø induction motor runs at almost 1000 rpm at no-load and 950 rpm at full load when supplied with power from a 50 Hz 3-phase line. (i) How many poles has the motor? (ii) What is % of slip at full load? (iii) What is the corresponding frequency on rotor voltage? (iv) What is the corresponding speed of the rotor field with respect to rotor and stator? (v) What is the rotor frequency at the slip of 10%?
04	(a)	Explain the method for determining the voltage regulation of 3-Ø synchronous alternator by potier triangle method. (ZPF method).
	(b)	Write short notes on parallel operation of synchronous generator?
05	(a)	Write short notes on starting methods of a 3-Ø synchronous motor.
	(b)	A 3-Ø, 50Hz, 415V star-connected cylindrical rotor synchronous motor having a synchronous impedance of 0.03 + j5 ohm per phase draws 20A current from supply mains while it Calculate its load angle and line-to-line no load induced emf. Draw its per phase phasor diagram.
06	(a)	Explain about the starting method of a single-phase split-phase motor?
	(b)	Explain about the Capacitor - Start Motor.

3.2.3 Quality of student projects (20)

2.2.3.1. Initiatives

- The student's projects are selected in line with department mission, vision and Program outcomes.
- Students are provided with brief idea of various fields for selecting the project ideas.
- The list of previous year projects is displayed at notice board which ensures no repetition of project work and also encourages students to enhance the previous works.
- The faculties encourage the students to carry out in house projects and support will be provided with all necessary software and hardware.
- The faculties encourage students to participate in project exhibitions. The project exhibition is aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology.
- The faculties encourage students to publish their project work in reputed journals/conferences.
- The faculties encourage students to avail the external funding schemes for their project work.
- Projects are not done for the sake of characterization and publication only. There should be a demonstrable use for every project work. The projects should be developed into a prototype for the benefit of the society and industries.

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 industri
- 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
- 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 attend 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
- 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
- Team work
- 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 Students 2023-24

Serial No	Student Photo + Name
1	280[illegible]
2	280[illegible]
3	280[illegible]
4	280[illegible]
5	280[illegible]
6	280[illegible]
7	280[illegible]
8	280[illegible]
9	280[illegible]

10	2801 4
11	2801 6
12	2801 7
13	2801 8
14	2821 6
15	2822 0
16	2822 0
17	2822 2
18	2822 4
19	2822 6
20	2821 9
21	2822 0
22	2822 2
23	2822 4
24	2822 6
25	2822 9
26	2822 0
27	2822 2

28	202[illegible]4
29	202[illegible]5
30	202[illegible]6
31	202[illegible]0
32	200[illegible]3
33	202[illegible]4
34	210[illegible]5
35	210[illegible]3
36	210[illegible]1

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List Of Students 2022-23

Serial No	Student Registration Number

1	140128 7
2	140128 6
3	140128 5
4	140128 -
5	140128 2
6	140128 3
7	140128 4
8	140128 1
9	140128 0
10	140128 7
11	140128 6
12	140128 9
13	140128 -
14	140128 2
15	140128 3
16	140128 4
17	140128 5
18	140128 8
19	140128 7

46	10/1/20
47	10/1/20
48	2/2/20
49	2/2/20
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75	2/2/20
76	2/2/20
77	2/2/20

98	2021-25
99	2021-25
00	2021-25
01	2021-25
02	2021-25
03	2021-25
04	2021-25
05	2021-25
06	2021-25

List Of Students 2021-23

Serial No	Students Registration Number	Name of students	Year	Project Title	Project Guide

1	19312010 9	AAHLESH RANJAN	2021-22	Water Fountain for GITA Autonomous College Boys Hostel	Prof. (Dr.) S.K. Acharya
2	19312010 0	ANIL KUMAR RAVANI			
3	19312010 0	ANKIT SAINI			
4	19312010 3	ANUSHAS MISHRA			
5	19312010 0	ARIJIT SIDHRA			
6	19312010 0	BISWAJIT DASH			
7	19312010 1	DEBASISH SAHAI			
8	19312010 8	GOPAL MUKHERJEE			
9	19312011 9	J P KAUSIK BHUT			
10	19312011 6	KAVITA PATEL			
11	19312011 0	KUMAR GAURAV RAJ			
12	19312011 9	M SUNMUKH RAO			
13	19312011 4	PRABHAKARAN MITAVVAD			
14	19312012 0	SHUBHAM KUMAR KESHRI			
15	19312012 8	SURYAKANTA NAYAK			
16	19312012 0	VIKASH KUMAR SHUKLA			
17	19312012 6	ANUP KUMAR NATH			
18	19312012 7	BHAKTA RANJAN DASH			
19	19312012 X	BISHAL KUMAR SWAIN			
20	19312012 0	DEBASHIS BOBHARY			

21	160120710 6	SAUTAM CHETRY	2021-22	Lightning and earthing protection of East Block of CITA Autonomous college building Building	Prof C R Behera
22	160120711 2	DHANANJAY ROUT			
23	160120711 5	HEMANTA MANDAL			
24	160120710 3	MONTU SAHU			
25	160120710 8	MRUTYUNJAY A SAHU			
26	160120710 1	PRIYANKA PRIYADARSHINI DASH			
27	160120710 9	PRIYANKA TRIPATHY			
28	160120721 7	SACHI SANAND A PRADHAN			
29	160120722 6	SATYABRAT TRIPATHY			
30	160120720 7	SHAGUFA ALI KHAN			
31	160120724 9	SWAYAMBHU SWAIN			

32	160120729	SAMRAT SAMANTARAY	2021-22	Power Measuring Device	Prof. B.D Patnaik
33	160120739	SOURYA RANJAN SWAIN			
34	160120737	SOURAV KUMAR DHUNNU			
35	160120729	SWASTIK PRADHAN			
36	160120730	UTSAV KUMAR JAISWAL			
37	160120730	VIDHI PRASAD			
38	160120731	ADITYA MISHRA			
39	160120731	ASHWIN MEHER			
40	160120732	SUNIL KUMAR SAHOO			
41	160120732	SAYAN SARKAR			

42	180120735 0	JYOTI DUBEY	2021-22	Hybrid Online Outlet	Prof R.S.Roy
43	180120735 7	LAXMIDHAR MOHANTA			
44	180120736 2	OMKAR MAHAVEER			
45	180120736 7	PRAKASH CHANDRA MALLIK			
46	180120736 9	PRAKASH KUMAR SAHOO			
47	180120736 7	PRAMIT RANJAN DALEI			
48	180120736 2	RABINDRA KUMAR JENA			
49	180120736 7	RASHMI RANJAN NAYAK			
50	180120737 2	SATYANARAYA N MISHRA			
51	180120737 7	SHASHANKA SHEKHAR MALLICK			

82	192120736 0	SOUNDHARAJ ANGHO	2021-22	Power Electronic Parameter Measurement Module For Experimental Simulation	Prof.P. Prabhakar
83	192120737	RABINDRA KUMAR NAYA			
84	192120739 2	ABHAS SAHOO			
85	192120739 7	RAMKUMARRR			
86	192120740 9	ABHISHEK SADANGHI			
87	192120750 0	ABHASH LEKHA			
88	192120750 1	ANISH MALLICK			
89	192120750 2	BIDU MUNDARI			
90	192120750 3	BISWAJIT MOHARANA			
91	192120750 4	DUSHANTA MOHARANA			

2.2.4 Initiatives related to industry interaction (10)

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

1. One departmental coordinator from Electrical Engineering department always keeps contacts with the Training & Placement Office of this institute regularly. Special lecture on in-demand areas by experts from industries are conducted for exposing the
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.
5. Department entered in to an agreement with the following companies for the benefit of the Electrical engineering students.

Implementation / Industrial Visits:

Sl. No	Event	Name of the Organization	Date/ Period	Status
1	Industrial visit	National Thermal Power Corporation (NTPC), Kaniha	18th Nov 2023	Completed
2	Industrial Visit	National Aluminium Company (NALCO), Angul	5th Dec 2023	Completed
3	Industrial visit	Odisha Power Transmission Corporation Limited (OPTCL), Bhubaneswar	21st Dec 2023	Completed
4	Industrial visit	Industrial Visit to Chandaka Dhd	5th Jan 2024	Completed
5	Industrial visit	Odisha Power Transmission Corporation Limited (OPTCL), Mancheswar, Bhubaneswar	10th Nov2023	Completed
7	Industrial visit	LIVDARAJ Biscuit, Bhubaneswar	22nd Dec 2022	Completed
8	Industrial visit	Field visit to Paradeep Refinery	17th Jan 2023	Completed
9	Industrial visit	Odisha Power Transmission Corporation Limited (OPTCL), Bhubaneswar	5th Oct 2021	Completed
9	Industrial visit	Central Tool Room And Training Centre (CTTC), Bhubaneswar	25th October 2021	Completed
10	Industrial visit	National Aluminium Company Limited (NALCO), Angul	23rd Nov 2021	Completed
11	Industrial visit	TATA Steel Jajpur	21st Dec 2021	Completed

INDUSTRIAL VISIT TO Chandaka GRID by EE STUDENTS on 3.1.2024

- Chandaka Grid (both AIS & GIS) is supplied from MENDHASALA 400/220 kV/220/33kV (from MERAMUNDALI 400/220 kV, 220/132 kV, 132/33 kV)
- 4 circuit line is supplied to Chandaka from MENDHASALA, out of which 3 circuits are connected to AIS and 1 circuit is connected to GIS

AIS – Air Insulated Substation (Chandaka A)

GIS – Gas Insulated Substation (Chandaka B)

- 3+1 = 4 circuits are for loop in and loop out.

KARTIK

Kriti

1. LA (Lighting Arrester)- A lightning arrester (also called lightning isolator) is a device used on electric power transmission and telecommunication systems to protect the insulation and conductors of the system from the damaging effects of lightni

2. CVT/PT (Capacitor Voltage Transformer/Potential Transformer)- Voltage transformers (VT), also called potential transformers (PT), are a parallel-connected type of instrument transformer. They are designed to present a negligible load to the sy

3. Isolators- The isolator is a mechanical switch which isolates a part of the circuit from the system as when required. Electrical isolators separate a part of the system from rest for safe maintenance works.

How is it operated?

Ans.- Operation is automatic i.e. remotely operated.

4. Earth switch is used to ground the residual charge in power lines after disconnecting the line from source. It is a Part of Isolator, basically used for protection.
5. A circuit breaker is a device which breaks the circuit automatically under fault conditions. It can be operated manually to close or open a circuit under normal condition. Circuit breaker mainly used to close or open a circuit when the load is normal

GIS (GAS INSULATED SUBSTATION)

- 220kV
- 132kV
- 33kV

What is the purpose of GIS?

The main advantage of gas insulated switchgear(GIS) over AIS is its compactness which has a direct influence on land requirement, land cost, visual impact, and possible technical applications.

AIS is older and the the demand of load is increasing day by day, and becoming overloaded (Load demand in BSSR is increasing). To overcome this problem GIS was constructed in year 2017 to transmit 220kV.

Load Out of GIS - 132kV- Unit 5 (to)

Manchasaner ® Grid Substation

33kV- GCD (O' hub) Recharged

Earth switch Isolator CT (Current transformer) CB (Circuit Breaker)

CT Isolator Bus

CB is again connected to CT. CT is divided into 2 parts → one placed before CB (having 3 cores) and another after CB (having 3 cores).

And is connected to 2 BUS

What is the size of 220kV line (CBS)?

1000mm^2

- Cables are connected for operation. Through controlled cable command is given to the switch gears to operate.

Mechanical box is connected for backup following mal operation of controlled cable operated from remote location.

- Cables are connected from phase to 220kVBUS.
- Inside Gas insulated Chamber Bus Bars are there. Cables are connected to aluminium hollow conductor.
- Cables are again connected to Autotransformer.
- 15BAYS are there,2- Line Bays, 1 Incoming from MEENDHASALA, 1 Outgoing to Chanaka Bay.2 Auto Transformers across 1 and 2 respectively.
- BUSCOUPLER is used for 2 BAYs system.

A circuit breaker in which SF_6 under pressure gas is used to extinguish the arc is called SF_6 circuitbreaker which is MAINTAINED AT 6.1 BAR.

AUTOTRANSFORMER

An autotransformer is a type of electrical transformer (https://www.electricaltechnology.com/electrical-power-transformer-definition-and-types-of-transformer.html) with only one winding. The auto prefix refers to the single coil existing alone, not to any automatic mech

- Cable ceiling end(connected to GIS through underground)
- LA(Lightning Arrester)- for protection in form of surge arrester
- Step down – 220/132/33 kV
- A(Oil is chemical) is used in auto transformer to maintain and insulate.
- Silica Breather- for breathing and purifying impurities.
- Conservator Tank & Radiator- for circulating and air cooling naturally.
- Fans are present. For cores/arms of transformer exceeds 50° C (Automatic turn ON).

What is the requirement of 33kV?

Ans- Load demand

AG (AIR INSULATED SUBSTATION)

- 4 circuit is supplied to Chandaka from NEW DHARMA out of which 2 circuits is connected to HB and 1 circuit is connected to GIS.
- BUS ---> Isolator LA CT(current transformer) CB(ckt. breaker)
- CT(current transformer)-is a coil. sensing device.

2 types of CT- Life time, Dead time(currently not used for accuracy)

- Guard ring/ Corona ring- Guard Ring equalises the potential distribution across each disc in Suspension Insulator

Why Guard ring is used?

Ans- For Fault analysis & Metering

- SF_6 gas is used for breaking.
- PI (Post Insulator)- Used for power handling equipment in power plants and substations support electric cables and other equipment, isolating them from the ground.

Jumper connection is done.

Field visit Paradeep Refinery 17 1 2023

Industrial Visit by EE students to Odisha Power Transmission Corporation Limited (OPTCL), Mendhasal Bhubaneswar on 10/1/2023

Industrial Visit Details to Tata Steel by BE Students on 21.12.2021

Impact Analysis

- The effectiveness of this practice can be gauged by the great response of the participants of the workshops
- Students picked up what they learnt at the workshops to implement their own mini project and also final year projects
- Students gained from this exposure to incorporate an entrepreneurial spirit and project-based thinking

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

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 appraise 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 equipment's and standards used by the industries.
To present themselves as complete professionals when they go for placements.
Arranging for in-plant training / Internship:

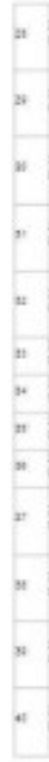
Students will choose a domain that they come across in their academia and find the industries available on that domain which provides training.
Students will then approach the department for getting approval.
The college will issue the necessary documents like a Bonafide certificate and request letter 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:

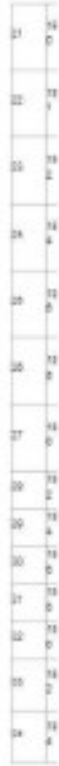
Assessment will be based on type of industry, objectives, number of students participated, relevant area of training, documented visit report.
Analysing the likely impacts of the training on the performance of the student through detailed interaction with students.
Student Feedback on Initiative:

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

Student Taken Internship in the Year 2023-24

Serial No	



Student Taken Internship in the Year 2023-25

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08	[illegible]
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15	[illegible]
16	[illegible]

Student Taken Internship in the Year 2021-22

Serial No	Students Registration Number	Name of students	Year (2021-22)	Name of Industry
1	1501128101 3	AKHI KALIAS	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
2	1501128103 8	ANIL KUMAR RAGHAV	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
3	1501128105 8	ANKIT BANAL	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
4	1501128104 3	ANUBHAB MISHRA	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
5	1501128105 3	ARIJIT BISHRA	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
6	1501128107 8	BISWAJIT DASH	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
7	1501128109 1	DEBASISH NAYAK	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
8	1501128110 8	GOPAL MUKHERJEE	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
9	1501128111 8	J R KAUSIK BOUT	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar
10	1501128112 8	KAVITA PATEL	Internship	Alpha Transformer Pvt ltd. Mancheswar Industrial state, Bhubaneswar

11	1501287132	KUMAR SAURAV RAJ	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
12	1501287158	N SUMRUKH RAO	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
13	1501287174	PRASHANTH MYAVUND	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
14	1501287249	SHUBHAM KUMAR KESARI	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
15	1501287258	SURYAKANTA NAYAK	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
16	1501287317	VIKASH KUMAR SHUKLA	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
17	1501287334	ANUP KUMAR NATH	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
18	1501287007	BHAKTA RANJAN DASH	Internship	Alpha Transformer Pvt. ltd. Mancheswar Industrial estate, Bhubaneswar
19	1501287074	BISHAL KUMAR BISWA	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
20	1501287092	DEBASHIS BOSEMARY	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
21	1501287102	GAUTAM CHETRY	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar

22	1501287112	GHANSHAM PATI	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
23	1501287118	HEMANTA MANDAL	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
24	1501287119	MONTU SAHU	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
25	1501287150	MRUTYUNJAY A SAHU	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
26	1501287161	PRIYANKA PRIYADARSHINI DASH	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
27	1501287162	PRIYANKA TIWARY	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
28	1501287317	SADIK BAKHSH A PRADHAN	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
29	1501287322	SATYABRAT TIWARY	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
30	1501287337	SHAGUFA ALI KHAN	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
31	1501287342	SIBANI SANKAR SWAIN	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
32	1501287358	SWARAN SAMANTARAY	Internship	OPTCL Power Training Centre, Chandaka Bhubaneswar
33	1501287361	SOUMYA RANJAN SWAIN	Internship	Training on PLC at CTTC, Bhubaneswar

34	160128127 8	SOURAV KUMAR CHUHAN	Internshi p	Training on PLC at CTTC, Bhubaneswar
35	160128129 8	SWASTIK PRADHAN	Internshi p	Training on PLC at CTTC, Bhubaneswar
36	160128130 0	UTSAV KUMAR JAISWAL	Internshi p	Training on PLC at CTTC, Bhubaneswar
37	160128130 7	VIDYA PRASAD	Internshi p	Training on PLC at CTTC, Bhubaneswar
38	160128131 2	ADITYA MISHRA	Internshi p	Training on PLC at CTTC, Bhubaneswar
39	160128131 7	ASHWINI MEHER	Internshi p	Training on PLC at CTTC, Bhubaneswar
40	160128132 2	SUNIL KUMAR SAHOO	Internshi p	Training on PLC at CTTC, Bhubaneswar
41	160128132 7	SHAKTRI SARKAR	Internshi p	Training on PLC at CTTC, Bhubaneswar
42	160128133 2	JYOTI DUBEY	Internshi p	Training on PLC at CTTC, Bhubaneswar
43	160128133 7	LAXMIDHAR MOHANTA	Internshi p	Training on PLC at CTTC, Bhubaneswar
44	160128134 2	OMKAR MANWEER	Internshi p	Training on PLC at CTTC, Bhubaneswar
45	160128134 7	PRAKASH CHANDRA MALLIK	Internshi p	Training on PLC at CTTC, Bhubaneswar
46	160128135 7	PRAKASH KUMAR SAHOO	Internshi p	Electrical Substation, Vedanta Ltd
47	160128135 7	PRANAT RANJAN DALEI	Internshi p	Electrical Substation, Vedanta Ltd
48	160128136 2	RABINDRA KUMAR JENA	Internshi p	Electrical Substation, Vedanta Ltd
49	160128136 7	RADHE SHYAM NAYAK	Internshi p	Electrical Substation, Vedanta Ltd
50	160128137 2	SATYANARAYA N MISHRA	Internshi p	Transmission Line,OPTCL
51	160128137 7	SHASHANKA SHEKHAR MALLICK	Internshi p	Transmission Line,OPTCL
52	160128138 2	SOUMYARANJ AN BHOI	Internshi p	Transmission Line,OPTCL

80	160128155 7	RABINDRA KUMAR NATH	Intermitt p	Transmission Line,OPTCL
84	160128159 2	ABHAS SAHOO	Intermitt p	Transmission Line,OPTCL
85	160128159 7	RAMASHRIMAL	Intermitt p	Transmission Line,OPTCL
86	160128164 9	ABHISHEK SARANGHY	Intermitt p	Transmission Line,OPTCL
87	160128165 9	ABHASH LENKA	Intermitt p	Design and application of Drones
88	160128166 1	ANISH MALLICK	Intermitt p	Design and application of Drones
89	160128166 2	BIDU MUNDARI	Intermitt p	Design and application of Drones
90	160128166 3	BISWAJIT MOHARANA	Intermitt p	Design and application of Drones
91	160128166 4	DUSHANTA MOHARANA	Intermitt p	Design and application of Drones

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Define the Program specific outcomes

PSO1	To empower the students to become practicing engineers so as to solve the global problems
PSO2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment
PSO3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.

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

No. of Core Courses : 5	CI : 2

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

Course Name :	CO 01	Course Year :

Course Name	Statements
CO 01.1	Apply concepts of network theorems and coupled circuits in solving complex networks problems and frequency response and analysis of different resonant circuits
CO 01.2	Understand the switching phenomena of electrical circuits and evaluate transient and SteadyState performance using Laplace Transformation
CO 01.3	Determine two port network parameters and their practical application to electrical and electronic circuits
CO 01.4	Analyse sinusoidal & non-sinusoidal signals using Fourier series and transform. Identify &design various filters and examine their frequency response.
CO 01.5	Identify Network Functions and synthesize one port network using Foster and Cauer forms.

Course Name :	CO 05	Course Year :

Course Name	Statements
CO 05.1	Apply the knowledge on the basic concepts electromechanical energy conversion
CO 05.2	Understand the constructional features and working and operating principle of dc motor.
CO 05.3	Analyse the performance like speed control, starting braking characteristics and uses of dc machine Analyse the performance like speed control, starting braking characteristics and uses of dc machine.
CO 05.4	Analyse the performance construction of single phase of transformer, both single phase & three phase.
CO 05.5	Understand the different vector group of 3 phase transformer

Course Name :	CO 09	Course Year :

Course Name	Statements
CO 09.1	Evaluate the resistance, inductance and capacitance present in the power lines and the characteristics of these line parameters
CO 09.2	Analyse the performance of the transmission lines under different operating conditions
CO 09.3	Design the mechanical and insulation system of transmission lines.
CO 09.4	Design AC & DC distribution system with capacitors and filters
CO 09.5	Get an insight of the underground cables, their construction and requirement of earthing.

Course Name :	CO 05	Course Year :

Course Name	Statements
CO 05.1	Analyse balanced and unbalanced faults and decide circuit breaker ratings.
CO 05.2	Analyse various type of relays and their use cases in power system protection.

CO 05.3	Demonstrate various protection strategies applied for power system protection
CO 05.4	Select required protection measures against overcurrent, overvoltage in transmission lines and other power system equipment
CO 05.5	Explore the modern trends in relaying like digital relaying for power system protection

Course Name :	Cd 16	Course Year :

Course Name	Statements
Cd 16.1	Implement Z-transform for solving difference equation in discrete time control system and check the system stability in Z-plane by various methods.
Cd 16.2	Articulate the concepts of state variables, state space representation in different forms and explain system controllability & observability.
Cd 16.3	Develop understanding of physical nonlinearities and methods of stability analysis for nonlinear systems.
Cd 16.4	Conduct stability analysis by various methods using advanced techniques.
Cd 16.5	Describe the design criteria of controller & compensation and perform stability analysis of the system.

Course Name :	Cd 17	Course Year :

Course Name	Statements
Cd 17.1	Explain HVDC Transmission Systems and converter circuits.
Cd 17.2	Examine and analyse different converter circuits.
Cd 17.3	Design and analyse various control techniques for HVDC converters.
Cd 17.4	Evaluate harmonics in HVDC transmission system and their effect.
Cd 17.5	Develop harmonic suppression and protection systems for HVDC transmission.

Course Articulation Matrix

1 . course name : C201

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C201.1	Apply conc	3	3	3	1	3	-	-	-
C201.2	Understand	3	3	3	3	3	-	-	-
C201.3	Determine	3	3	3	3	3	-	-	-
C201.4	Analyse str	3	3	3	3	3	-	-	-
C201.5	Identify the	3	3	3	3	3	-	-	-
Average		2.40	2.60	2.40	2.00	2.20	0.00	0.00	0.00

2 . course name : C205

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C205.1	Apply the k	3	3	3	3	3	1	-	-
C205.2	Understand	3	3	3	3	3	3	-	-
C205.3	Analyse the	3	3	3	3	3	1	-	-
C205.4	Analyse the	3	3	3	3	3	3	-	-
C205.5	Understand	3	3	3	3	3	1	-	-
Average		3.00	3.00	3.00	3.00	3.00	1.40	0.00	0.00

3 . course name : C209

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C209.1	Evaluate th	3	3	1	-	1	-	-	-
C209.2	Analyse the	3	3	3	3	3	-	-	-
C209.3	Design the	3	3	3	3	3	-	-	-
C209.4	Design AC	3	3	3	3	3	-	-	-
C209.5	Get an insi	3	3	3	1	3	-	-	-
Average		3.00	3.00	2.60	2.33	3.00	0.00	0.00	0.00

4 . course name : C309

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C309.1	Analyse ba	3	3	3	3	3	3	-	-
C309.2	Analyse va	3	3	3	3	3	1	-	-

C205.3	Demonstra	3	3	3	3	3	1	-	-
C205.4	Select requ	2	3	3	3	3	1	-	-
C205.5	Explore the	3	3	1	3	3	2	-	-
Average		2.80	2.60	2.40	2.40	2.60	1.40	0.00	0.00

3 - course name : C206

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C410.1	Implement	3	3	3	3	3	-	-	-
C410.2	Articulate t	3	3	3	3	3	-	-	-
C410.3	Develop un	3	3	3	3	1	-	-	-
C410.4	Conduct an	3	3	3	3	1	-	-	-
C410.5	Describe th	3	3	3	3	3	-	-	-
Average		3.00	3.00	3.00	3.00	2.60	0.00	0.00	0.00

4 - course name : C207

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
C417.1	Explain HV	3	3	3	3	3	2	-	-
C417.2	Examine ar	3	3	3	3	2	1	-	-
C417.3	Design and	3	3	3	3	2	1	-	-
C417.4	Evaluate hi	3	3	3	3	1	1	-	-
C417.5	Develop ne	3	3	3	3	3	3	-	-
Average		2.60	2.80	2.80	2.80	2.20	1.40	0.00	0.00

1 . Course Name : C201

Course	PSO1	PSO2	PSO3
C201.1	3	3	3
C201.2	3	2	2
C201.3	2	2	3
C201.4	3	2	2
C201.5	3	2	2
Average	2.80	2.00	2.40

2 . Course Name : C202

Course	PSO1	PSO2	PSO3
C202.1	2	3	3
C202.2	3	2	2
C202.3	1	2	2
C202.4	2	2	2
C202.5	2	2	2
Average	2.20	2.00	2.40

3 . Course Name : C203

Course	PSO1	PSO2	PSO3
C203.1	2	-	1
C203.2	3	2	2
C203.3	2	2	3
C203.4	3	2	2
C203.5	2	2	2
Average	2.40	2.00	2.20

4 . Course Name : C204

Course	PSO1	PSO2	PSO3
C204.1	3	3	3
C204.2	2	2	3

C205.3	3	3	3
C205.4	3	3	1
C205.5	3	3	3
Average	**3.40**	**3.25**	**3.40**

3 . Course Name : C410

Course	PSO1	PSO2	PSO3
C410.1	3	3	3
C410.2	3	3	3
C410.3	3	1	3
C410.4	3	1	3
C410.5	3	3	3
Average	**3.00**	**1.60**	**3.40**

4 . Course Name : C417

Course	PSO1	PSO2	PSO3
C417.1	3	3	3
C417.2	3	3	3
C417.3	3	1	3
C417.4	3	3	1
C417.5	3	3	3
Average	**3.40**	**2.00**	**2.20**

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6
Engineeri	1.8	2.4	2.2	1.8	1.25	1.8
Engineeri	2.2	2	1	1	1.4	1.8
Basic Ele	1.4	2.4	2.2	1.8	1.25	1.4
Basics of	1.2	1.8	2	2.2	1	1.4
Communi	2	1.8	2.8	2.2	2.2	1.8
Engineeri	2.2	2	1	1	1.4	1.8
Engineeri	2.4	1.8	1.4	1	3	3
Basic Ele	2.67	1.45	3	2.33	2.67	3
Basics of	2.8	1.2	3	1.8	2.8	2.4
Engineeri	2.4	2	2.6	2.4	3	3
Programm	2.8	2.8	2.2	2.2	2.4	1
Business	3	2	2.2	1.8	1.2	1
Engineeri	3	2	2.2	1.8	1.4	3
Data struc	3	3	3	2.8	2.8	1
Organizat	3	3	3	3	3	1.8
Network ir	2.4	2	2.4	2	2.2	3
Analog El	3	3	2.8	2.8	2.2	1.4
Universal	2.8	2	2.2	1.8	1.4	3
Environm	1	3	3	3	3	3
Digital Ele	2.8	2.2	2.2	1.78	2	2
Engineeri	3	3	3	2.8	2.8	1
Electrical	2.8	2.8	2.2	2.8	2	1.4
Electrical	2.8	2	1.4	1.4	2.8	3
Electroma	3	3	2.8	2.8	2.2	1.4
Constituti	3	3	3	1	3	2.2
Digital Sig	3	3	3	2.8	2.8	1
Electrical	3	2.8	1.8	3	2	3
Control Sy	1.8	2.2	3	1.8	2.2	1
Power Ele	2	2.8	2.8	1.8	1.8	3
Electrical	2.8	2.2	2.2	2.25	2	3
Industrial	2.8	2.8	2.6	2.4	3	1.8

Essence o	2.2	2	1	1	1.4	3
Mensuro	2.8	2.8	2.2	2	2.4	3
Power Sy	2.8	2.8	2.6	2.2	2.2	3
Power Sy	2.8	2.8	2.4	2.4	2	1.4
High Volta	2	2.2	1.6	2	2.2	3
Communi	2.4	2.6	1.4	1.8	1	1
Advanced	2.2	2.4	2.2	2.4	2	3
HVDC &F	2.8	2.8	2.8	2.8	2.2	1.4
Electric D	3	2.8	2.4	2	3	2
Power Ele	2.2	1.8	1	1	1.4	1.8
IOT	2.4	2.8	2.2	2	1.8	3
Entrepren	1	3	2	2	3	2.8
Eng. Ener	2.2	2.2	2.6	1	2	2.8
Basic Ele	2.4	2	2	3	1	2.8
Basics of	2	2.8	2.6	2.2	2.4	3
Engineeri	2.4	2.4	2.6	2	2	1
English La	3	2	2.4	2.4	1	2.8
Eng. Phys	3	2	2.4	2.4	3	3
Basic Ele	3	2.4	2.6	2.8	2.2	1
Basics of	2.2	2.4	3	1	2.2	3
Workshop	2.8	2.8	2.2	2.2	1	3
Programm	2.4	3	3	2.2	3	1
Network t	3	3	2.6	2.4	2.8	2.8
Analog El	2.8	2.8	2.6	2.4	2.8	3
Data struc	3	3	2.6	2.8	2.4	2.4
Electrical	3	2.8	2.8	2.4	2.4	2
Electrical	2.8	2.8	2.4	2.2	2.2	3
Digital Ele	2.4	2.2	3	3	3	3
Mini Proje	2.8	2.8	2.8	2.4	2.4	3
Electrical	3	3	2.8	2.2	3	3
Control sy	2.8	2.4	2.2	2.28	3	3
Power ele	2.8	3	2	3	3	3

Manageri	3	2	2	2	2.2	3
Financial	2.8	2.8	2.4	2.4	2	3
Seminar-I	3	2	2	2.8	3	3
ED-Lab	2	3	3	2.2	2.25	2.8
Minor PR	3	2	2	2	3	2.8
Major PR	3	3	2.8	2.8	2.4	2.4
Employab	2	2.4	2	1.8	1.4	2.4
Employab	1.8	1.8	2.2	3	3	3
Summer-I	1.8	1.8	2.2	3	3	3
Mini Proje	3	2	2	2	3	2.8
Employab	2.8	2.8	2.8	2.4	2.4	3
Mini Proje	2.2	2	1	2.8	1.4	2.2
Employab	2.2	2	1	2.8	1.4	2.2
Seminar-I	3	2	2	2.8	1.8	2.2
Complehi	3	2	2	2.8	1.8	2.2
Grand Viv	2.4	2.4	2.8	2	2	1
Internship	2.4	2.4	2.8	2	2	1

Course	PSO1	PSO2
Advance I	2.8	1.8
Analog El	3	2.2
Analog El	2.8	1.8
Basic Ele	2.88	2.48
Basic Ele	2.8	2.8
Basic Ele	2.2	2.4
Basic Ele	3	2.8
Basics of	1.8	1.8
Basics of	1.8	2
Basics of	3	1.8
Basics of	2.8	1
Business	2.8	1
Communi	1.8	1
Communi	1.8	2.4

Computer	1	2
Construc	1.2	1.8
Control S	2.4	1.4
Control sy	2.2	1
Data struc	3	2.8
Data struc	2.8	2.6
Digital Ele	2.4	2
Digital Ele	1.4	2.8
Digital Sig	2.8	2.8
ED Lab	2.4	0
Electric D	1	2.2
Electrical	2	2.8
Electrical	2.8	2.8
Electrical	1	2
Electrical	1	2.2
Electrical	1	1.2
Electrical	2.8	1.8
Electrical	2.4	2
Electronic	1	1.8
Emotional	2	0
Emotional	1	2
Emotional	2	2
Emotional	2	1
Eng. Chen	1	1.8
Eng. Phys	0	0
Engineeri	1.4	1.4
Engineeri	2.8	2.8
Engineeri	1.8	2.2
Engineeri	1.4	2
Engineeri	2.2	2.8
Engineeri	0	2
Engineeri	2.8	1.8

Engineeri	0	0
English Lo	2.5	2.5
Entrepren	0	1.5
Environme	0	2
Essentials	3	3
Grand Viv	2.5	2
High Volta	2.2	1.25
HVDC SIT	2.4	2
Industrial	1	1
Internship	2.5	2
IOT	1.5	1.5
Major PR	3	2.5
Memorac	3	2.5
Memorac	2.5	1
Min Proje	2.5	2
Min Proje	2	2.5
Min Proje	3	2
Minor PR	3	3
Network I	2.5	3
Network I	3	2.5
Organisat	2.5	2
Power Ele	2.5	1.2
Power ele	3	2.5
Power Sta	2.5	1.2
Power sys	2.5	2.2
Power Sy	2.5	2
Power Sy	2.4	2.2
Programm	1.4	2.5
Programm	1.5	2.2
Seminar I	3	3
Seminar I	2.5	2.5
Summer I	2.5	2.4

Universal	2.5	2.5
Workshop	2.5	2

3.2 Attainment of Course Outcomes (10)

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

- In line with the course objectives, the curriculum has been 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 inc
- Students are also provided opportunities to visit chosen sites and industries to enhance their skills. Continuous evaluation is carried out through assignments, quiz, surprise test, mid-term examination, seminars, laboratory assessments, and proj
- 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 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

Assessment Pattern		
	Assessment Type	Assessment Tool
Theory	Direct Attainment	1. Internal Examination-1(QUIZ, ASSIGNMENT, SURPRISE TEST) 1. Quiz: 5 Marks 2. Assignment: 5 Marks 3. Surprise test: 5 Marks Total: 15 Marks 2. Mid-semester exam (Internal Examination-2) Short Answer Type Questions, Focused type, Long type based on question wise CO's Mapping. 25 Marks Total: 15+25= 40 Marks
		End Semester Examination: 60 Marks (External Exam)
	Indirect Attainment	Course Exit Survey
	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 50% weightage and 25% 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 (unit test + Quiz + Assignment+ Mid sem)	Level 1	50 to 59% of the students secure 70 % or more marks
	Level 2	60 to 69% of the students secure70% or more marks
	Level 3	>=70% of the students secure 70% or more marks
External Assessment (End semester exam)	Level 1	50 to 59% of the students secure 50 % or more marks
	Level 2	60 to 69% of the students secure 60% or more marks
	Level 3	>=70% of the students secure 70% 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	50 to 59% of the students have given poor or average in CO attainment
Level 3	>=70% of the students have given poor or average in CO attainment

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

CO Assessment processes for Seminar

Seminar-1: Seminar-2 (2nos) are conducted for each student in the 6th and 7th semester respectively. A group of faculty members including HOD of the department are assigned for the seminar. Out of the faculty members one member is the coordin

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

Course Outcome Assessment processes for Minor Project :

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

1.Regular progress reviews

2.Design reviews

3.Technical documentation

4. Final presentations and evaluation of a working prototype.

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

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Dear Student,

Thank you for participating in this Course Exit Survey for Power system protection. 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 conf

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		☐	☐	☐	☐	☐

2		☐	☐	☐	☐	☐
3		☐	☐	☐	☐	☐
4		☐	☐	☐	☐	☐
5		☐	☐	☐	☐	☐

Section C: Course Effectiveness

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

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

Section D: Suggestions for Improvement

1. What did you like the most about the Power system protection 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 Electrical Engineering
BITA Autonomous College, Bhubaneswar

1.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (15)

Program shall have set Course Outcome attainment levels for all courses

(The attainment levels shall be set considering average performance levels in the External examination (EXO 2045237EB) or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performar

Measuring Course Outcomes attained through Semester END Examinations

Target may be stated for semester END Examination in terms of percentage of students getting more than the percentage set for different levels for CO attainment.

Attainment Level 1(>=55% in Semester END Examinations.) : 60% students scoring more than set attainment level in the final examination.

Attainment Level 2(>=65% in Semester END Examinations.) : 70% students scoring more than set attainment level in the final examination.

Attainment Level 3(>=75% in Semester END Examinations.) : 80% students scoring more than set attainment level in the final examination.
Attainment Level 0 (<55% in Semester END Examinations.)

- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- If targets are achieved then all the course outcomes are attained for that year.

Program is expected to set higher targets for the following years as a part of continuous improvement.

- If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.

Measuring CO attainment through Cumulative Internal Examinations (CIE):

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

Example

Mid term test addresses CO1.1,CO1.2 and CO1.3.10 Questions from CO1(short type= focused= long type), 8 Questions from CO2(short type= focused= long type)and 8 Questions from CO3(short type= focused= long type). Midterm maximum marks

Examples related to attainment levels Vs. targets

Attainment Level 1(>=10.0): 80% students scoring more than 60% marks out of the relevant maximum marks.

Attainment Level 2(>=12.0): 70% students scoring more than 60% marks out of the relevant maximum marks.

Attainment Level 3(>=14.7): 60% students scoring more than 60% marks out of the relevant maximum marks.
Attainment Level 3(>=10.0)
We apply attainment level 3 for our direct and indirect assessment of various outcomes.

- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- If targets are achieved then the CO01.1 CO01.2 and CO01.3 are attained for that year.

Program is expected to set higher targets for the following years as a part of continuous improvement.

- If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.

Similar targets and achievement are to be used for the other modern tools/internal assessment instruments.

Course Outcome Attainment

For example

Attainment through semester END Examination: Substantial i.e. 3

Attainment through Internal Examination: Moderate i.e. 2

Assuming 60% weightage to semester END Examination and 40% weightage to Internal Examination, the attainment calculations will be (60% of semester END Examination) + (40% of Internal Examination) i.e. 60% of 3 + 40% of 2 = 1.8 + 0.8

Course Outcome attainment levels for all courses: 2020-21

Sl. No.	Course Code	Course Name	Course Code	CO1	CO2	CO3	CO4	CO5	Avg.
1	C101	Mathematics - I	20MTB5101	1.54	2.45	2.07	2.36	2.12	2.10

2	C102	Engineering Chemistry	20BTTB2102	2.55	2.45	2.44	2.55	2.55	2.55
3	C103	Basic Electronics Engineering	20BTTB2103	2.52	2.73	2.73	2.45	2.27	2.54
4	C104	Basics of Civil Engineering	20BTTB2104	2.40	2.60	2.27	2.45	2.72	2.389
5	C101	Communicatio n English	20BTTH2101	2.2	2.63	2.6	2.09	2.55	2.388
6	C102	Eng. Chemistry Lab	20BTPB2102	2.25	2.62	2.55	2.27	2.55	2.383
7	C103	Basic Electronics Engineering Lab	20BTPB2103	2.55	2.50	2.27	2.25	2.40	2.378
8	C104	Basics of Civil Engineering Lab	20BTPB2104	2.11	2.55	2.40	2.5	2.2	2.332
9	C105	Engineering Graphics & Design Lab	20BTPB2105	2.45	2.55	2.27	2.05	1.84	2.274
10	C101	English Language Lab	20BTPH2101	2.4	1.84	2.55	2.27	2.5	2.332
11	C104	Mathematics-I	20BTTB2204	2.50	2.45	2.5	2.05	2.55	2.489
12	C102	Engineering Physics	20BTTB2202	2.45	2.55	2.11	1.84	2.51	2.174
13	C101	Basic Electrical Engineering	20BTTB2201	2.50	2.43	2.55	2.64	2.55	2.52
14	C104	Basics of Mechanical Engineering	20BTTB2203	2.55	2.45	2.50	2.55	2.55	2.464
15	C105	Engineering mechanics	20BTTB2205	2.50	2.47	2.11	2.31	2.12	2.242
16	C106	Programming for Problem Solving using C	20BTTB2206	2.45	1.84	2.55	2.55	2.55	2.52
17	C102	Business communicatio n and life skills	20BTTH2202	2.50	2.11	2.55	2.14	2.25	2.27

19	C191	Eng. Physics Lab	20ETPE5201	2.55	2.47	2.55	2.46	2.75	2.56
19	C191	Basic Electrical Engineering Lab	20ETPE5201	2.55	2.43	2.59	2.54	2.84	2.62
20	C193	Basics of Mechanical Eng. Lab	20ETPE5203	2.36	2.35	2.45	2.53	2.50	2.439
21	C195	Workshop Practice	20ETPE5205	2.40	2.6	2.45	2.27	2.47	2.459
22	C197	Programming for Problem Solving using C Lab	20ETPE5207	2.55	2.49	2.47	2.45	2.6	2.46
23	C199	Engineering Mathematics III	20ETTE5309	2.36	2.27	2.55	2.62	2.47	2.449
24	C207	Data structure Using C	20ETTE5307	2.53	2.27	2.55	2.47	2.55	2.469
25	C203	Organizational Behavior	20ETTH5303	2.45	2.55	2.40	2.55	2.60	2.479
26	C201	Network theory	20ETEETPC53 1	2.34	2.34	2.34	2.34	2.34	2.34
27	C202	Analog Electronic circuit	20ETEETPC53 2	2.62	2.73	2.73	2.46	2.27	2.64
28	C209	Universal Human Values	20ETTH5309	2.45	2.40	2.27	2.55	2.60	2.484
29	C201	Environmental Science	20ETTM5301	2.57	2.60	2.45	2.55	2.40	2.484
30	C201	Network theory Lab	20ETEEPPC53 1	1.94	2.49	2.07	2.09	2.13	2.15
31	C202	Analog Electronic circuit Lab	20ETEEPPC53 2	1.55	2.47	2.27	2.05	2.13	2.170
32	C205	Data structure using C Lab	20ETPE5305	2.45	1.94	2.11	2.45	2.55	2.292
33	C211	Employability Skill I	20ETEEPPC53 1	2.45	2.55	2.40	2.55	2.60	2.479
34	C204	Digital Electronic Circuits	20ETEETPC43 4	2.24	2.63	2.55	2.27	2.36	2.39

35	C264	Engineering Economics and Costing	20ETTHG404	2.55	2.50	2.53	2.45	2.50	2.509	
36	C265	Electrical Machines-I	20ETEETPC405	2.09		2.27	2.05	2.00	2.09	2.06
37	C266	Electrical Measurement and Measuring Instruments	20ETEETPC406	2.68		2.68	2.44	2.68	2.68	2.66
38	C267	Electromagnetic Theory	20ETEETPC407	2.00		2.09	2.21	2.44	2.47	2.53
39	C252	Constution of India	20ETTMC402	2.00		2.48	2.36	2.50	2.68	2.402
40	C251	Digital Signal Processing	20ETEETDE401	2.52		2.73	2.73	2.48	2.27	2.54
41	C253	Electrical Machines-I Lab	20ETEEPPC403	2.63		2.68	2.48	2.58	2.68	2.608
42	C254	Electrical Measurement & Measuring Instruments Lab	20ETEEPPC404	2.45		1.84	2.45	2.05	2.45	2.316
43	C255	Digital Electronics Circuits Lab	20ETEEPPC405	2.53		2.68	2.50	2.47	2.45	2.5
44	C257	Mini Project-1	20ETEEPPS401	2.47		2.48	2.58	2.58	2.68	2.648
45	C212	Employability Skills	20ETEEPPC411	2.62		2.73	2.73	2.48	2.27	2.54
46	C312	Electrical Machines-II	20ETEETPC501	2.68		2.48	2.44	2.68	2.68	2.66
47	C313	Control System Engineering	20ETEETPC502	2.68		2.48	2.44	2.68	2.68	2.66
48	C311	Power Electronics	20ETEETPC503	2.68		2.48	2.44	2.68	2.68	2.66
49	C259	Electrical Power Transmission & Distribution	20ETEETPC504	2.02		2.73	2.61	2.68	2.7	2.604

59	C351	Industrial Process Control and Dynamics	20ETEETPE51 1	2.52	2.13	2.15	2.48	2.27	2.64
61	C353	Essence of Indian Knowledge and Tradition	20ETTMC653	2.00	2.29	2.21	2.44	2.47	2.33
62	C355	Electrical Machines-I Lab	20ETEEPPC56 6	2.66	2.48	2.44	2.66	2.66	2.56
63	C357	Control system Lab	20ETEEPPC56 7	2.40	2.52	2.27	2.45	2.13	2.359
64	C358	Power electronics - Lab	20ETEEPPC56 8	2.57	2.42	2.35	2.63	2.56	2.51
66	C352	Summer Internship	20ETEEPPD56 02	2.66	2.41	2.35	2.63	2.56	2.51
66	C353	Mini Project-II	20ETEEPPD56 03	2.66	2.48	2.44	2.66	2.66	2.56
67	C310	Employability Skills-I	20ETEEPPC61 2	2.40	2.52	2.27	2.45	2.13	2.359
68	C314	Microprocessor and Microcontroller	20ETEETPC61 4	2.62	2.73	2.73	2.48	2.27	2.64
69	C315	Power System Operation and Control	20ETEETPC61 5	2.21	2.64	2.21	2.48	2.42	2.468
60	C359	Power System Protection	20ETEETPE61 3	2.46	2.42	2.31	2.66	2.66	2.47
61	C356	High Voltage Engineering	20ETEETPE61 0	2.57	2.42	2.35	2.63	2.66	2.51
62	C354	Communication Engineering	20ETEETOE65 3	2.50	2.48	2.35	2.50	2.56	2.432
63	C356	Microprocessor and Micro Controller Lab	20ETEEPPC66 6	2.32	2.72	2.61	2.66	2.7	2.604
64	C315	Power system -Lab	20ETEEPPC61 5	2.46	1.94	2.11	2.48	2.28	2.282
65	C358	Seminar-I	20ETEETPD66 06	2.50	2.29	2.21	2.44	2.47	2.33
66	C354	Mini Project-II	20ETEETPD66 04	2.50	2.48	2.35	2.50	2.56	2.432

67	CO14	Employability Skills-V	20ETEEPPC514	2.66	2.48	2.44	2.66	2.66	2.66
68	CO12	Advance Control System	20ETEETPET18	2.63	2.59	2.6	2.74	2.74	2.72
69	CO17	HVDC &FACTS	20ETEETPCT17	2.66	2.41	2.37	2.63	2.66	2.61
70	CO18	Electric Drives	20ETEETPCT18	2.67	2.45	2.38	2.63	2.66	2.61
71	CO12	Power Station Engineering	20ETEETPET12	2.66	2.42	2.38	2.63	2.66	2.61
72	CO20	Soft Computing	20ETEETOET09	2.40	2.66	2.27	2.48	2.13	2.388
73	CO20	Entrepreneurship Development	20ETTH0705	2.52	2.72	2.75	2.45	2.27	2.54
74	CO11	ED-Lab	20ETEEPPC711	2.66	2.48	2.44	2.69	2.66	2.66
75	CO20	Minor PROJECT	20ETEEPPD706	2.66	2.48	2.44	2.69	2.66	2.66
76	CO07	Seminar-II	20ETEEPPD707	2.63	2.59	2.6	2.74	2.74	2.72
77	CO03	Comprehensive Viva	20ETEEPPD705	2.66	2.41	2.37	2.63	2.66	2.61
78	CO03	Grand Viva	20ETEEPD0009	2.40	2.66	2.27	2.45	2.13	2.389
79	CO13	Major PROJECT	20ETEEPD0110	2.30	2.45	2.35	2.58	2.56	2.402
80	CO17	Internship	20ETEEPD0111	2.30	2.28	2.21	2.44	2.47	2.33

DIRECT ATTAINMENT

TARGET AND ATTAINMENT VALUES

- Attainment Level 3- 80% of students secured 70% of mark
- Attainment Level 2- 70% of students secured 60% of mark
- Attainment Level 1- 60% of students secured 50% of mark

We set the level 3 for attainment

DIRECT ASSESSMENT METHOD

S. N.	METHODS	DESCRIPTION
1	MID SEMESTER	Mid semester carries 35 marks. There are three parts in the question. Part-I short answer type questions carries 1mark each, part-2 Focussed short answer type questions carries 3marks each, Part-3 Long answer type questions 4mark each. Generally the questions are from CO1,CO2 and CO3 matching to some of the POs.
2	Assignments	Five(05) assignment are given from each module. Assignment questions are given in three parts like the mid semester exam question paper. Students have to submit the answer on schedule date. It carries 5marks.
3	Surprise test	One surprise test of short answer type questions from CO1, CO2 and CO3 is conducted in each semester of 5marks.
4	Quiz	One Quiz test of MCQ type questions from CO1, CO4 AND CO5 is conducted in each semester of 5marks.
5	Semester End Exam (Theory)	End semester question carries 60marks. The pattern of the question is similar to the mid semester questions. Each student has to appear the end semester exam for 3 hours.
6	Lab Experiments(practical)	This is mainly to assess student's practical knowledge with their execution capabilities. Faculties conduct a viva voce test after each experiment. At the end of each experiment evaluation is made under four major heading like 1-implementation and execution,2- result and interpretation,3- record writing and 4- viva voce test.

MAPPING PROCEDURE

All the courses together must cover all the POs (and PSOs). For a course we map the COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix as shown below. The various correlation levels are

- Low (1)
- Medium (2)
- High (3)

Course Name: POWER SYSTEM PROTECTION
Faculty Name: PAVISHBA KUMAR ACHARYA
Course Code: 20ETEETP603

					Internal Examination-1																										Intern
					Surprise Test (Weightage=5)											Quiz (Weightage=5)											Assignment (Weightage=5)					Mid S
S.No	Roll No.	REGD. NO.	Name	1	2	3	4	5	6	7	8	9	10	TOTAL(1	2	3	4	5	6	7	8	9	10	TOTAL(1	2	3	4	5	TOTAL(1a
			Maximum Marks	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	2
			CO	1	1	1	1	2	2	2	2	2	3		3	3	4	4	4	4	5	5	5		1	2	3	4	5	1
1	2306001	2001207468	ABINASH MAHANTRA	2	2	2	2	1	1	2	1	2	1	4	2	2	2	2	2	2	2	2	2	4	5	5	5	5	5	2
2	2306002	2001207469	AKASH KUMAR	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	2
3	2306003	2001207470	AMIT KUMAR DEHURY	1	2	2	2	1	2	2	1	2	1	4	2	2	2	2	2	2	2	2	2	5	4	1	2	4	4	2
4	2306004	2001207472	BASUNTHA BISWAL	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	4	4	2	1	4	4	2
5	2306005	2001207471	BISHNESH KUMAR SAHU	1	1	2	1	2	2	1	2	2	2	4	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	
6	2306006	2001207472	DHEERAJ MALLICK	2	1	2	2	2	2	2	1	1	1	4	2	2	2	2	2	2	2	2	2	4	5	5	5	5	5	
7	2306007	2001207463	HARSHAP KUMAR	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	2
8	2306008	2001207473	MANAS RANJAN KHAN	2	2	1	1	2	1	2	1	2	2	4	1	1	2	1	2	2	2	1	2	2	4	4	1	2	4	4	2
9	2306009	2001207464	MRUSINGHA SWAIN	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	2
10	2306010	2001207474	PANKAJ KUMAR PATRA	1	1	2	2	1	2	2	2	1	2	4	2	1	2	2	1	2	1	2	1	2	4	4	2	1	4	4	2
11	2306012	2001207465	SURYANARAYAN CHOUDHURY	2	2	1	1	2	2	1	1	2	2	4	2	1	2	2	1	2	2	1	2	1	2	4	1	2	4	4	2
12	2306013	2001207467	TPS NARAYAN BEHERA	2	2	2	2	2	2	2	2	2	2	5	1	2	1	1	2	2	1	2	2	2	4	4	2	1	2	1	2	2
13	2306014	2001207466	SUSHIL BHUYAN	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	2
14	2306015	2021207158	ABHIJIT SATHUAHARAN	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	4.5	5	5	5	5	5	4.5	2
15	2306016	2021207158	ABHISEK PADHI	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	4.5	5	5	5	5	5	4.5	2
16	2306017	2021207155	ABINASH BABABANJIA	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	2
17	2306018	2021207152	AJAY KUMAR	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	4	4	4	1	2	3	2
18	2306019	2021207154	AKANYA MOHAPATRA	2	2	1	1	1	1	2	2	2	2	4	1	1	2	2	1	2	1	2	2	5	4	4	4	2	1	3	2
19	2306020	2021207156	AKASH PRADHAN	2	2	2	1	1	2	2	2	1	1	4	2	2	2	2	2	2	2	1	1	1	1	5	5	5	5	5	5	2
20	2306021	2021207157	AMITA PRIYADARSHINI SAHOO	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	2
21	2306022	2021207170	ANJU KUMAR	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	2
22	2306023	2021207172	ARIHANT KUMAR	2	1	2	2	1	1	2	1	2	2	4	1	2	2	1	2	2	1	2	1	2	5	4	4	4	2	1	3	2
23	2306024	2021207174	ASHUTOSH KUMAR PANDEY	1	2	2	1	1	2	2	1	2	2	4	1	2	2	1	2	2	1	2	2	1	2	4	4	4	1	2	3	2

24	2306024	2021207118	BIJASINI ORAM	2	2	2	2	2	2	2	2	2	2	2	2	8	1	2	1	2	2	2	2	2	2	2	2	8	8	8	8	8	8	8	2
25	2306025	2021207119	BISHAKHA RAKSA	2	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	8	8	8	8	8	8	2
26	2306027	2021207120	CHASISH KUMAR PATRO	2	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	8	8	8	8	8	8	2
27	2306028	2021207121	CHINMAY CHANDAN SAHOO	2	2	2	2	2	2	2	2	2	2	2	2	8	1	2	2	1	1	2	1	2	2	2	2	8	8	8	8	8	8	8	2
28	2306029	2021207124	DEBA PRASAD BEHERA	1	2	2	1	2	2	1	1	2	2	2	4	2	0	0	2	2	2	2	2	2	2	2	2	8	8	8	8	8	8	8	2
29	2306032	2021207125	DEBASHIS RAYA	1	2	2	1	1	2	2	2	1	1	2	4	2	2	1	1	2	2	1	2	2	2	1	5	5	5	5	5	5	5	5	2
30	2306031	2021207126	DEBASHIS SAHOO	1	2	2	1	2	1	1	2	2	2	2	4	1	1	2	1	2	2	2	2	2	1	2	2	4	4	4	4	1	2	2	
31	2306032	2021207140	DUJ DEEPALI TUDU	2	2	2	2	2	2	2	2	2	2	2	8	2	2	8	2	0	0	2	2	0	2	2	2	5	5	5	5	5	5	5	2
32	2306033	2021207142	DURGA MADHAB PALAI	1	1	1	1	2	2	2	2	2	2	2	4	2	2	1	1	2	2	2	2	2	1	1	4.4	4	5	2	5	5	4.4	2	
33	2306034	2021207144	JAJATIKESHAR NAYAK	2	2	2	2	2	2	2	2	2	2	2	8	1	0	2	2	2	0	2	2	0	2	2	2	4.8	4	5	5	5	5	4.8	2
34	2106L01	2121207058	RAJALAXMI SUTAR	2	1	2	2	1	1	1	2	2	2	2	4	2	2	2	2	2	2	0	2	2	2	2	4.8	4	5	5	5	5	4.8	2	
35	2106L02	2121207060	SAI SWARUP PADHAN	2	2	2	2	2	2	2	2	2	2	2	8	1	2	8	0	2	2	0	2	2	2	2	5	5	5	5	5	5	5	2	
36	2106L03	2121207061	S SUBHAM PATRO	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	4.2		
37	2106L04	2121207066	SOURAV KUMAR	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	4	4	4	4	2	2	2	2
38	2106L05	2121207068	SUMAN SAHOO	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2		
39	2106L06	2121207069	RAJESH KUMAR JENA	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	1
40	2106L07	2121207070	SAI JEEVAN	2	2	2	2	1	1	2	2	1	1	1	8.8	1	2	2	1	2	2	2	2	2	1	2	2	4	4	4	4	4	1	2	2	1
41	2106L08	2121207071	BIDHA BHUSAN MAHATHNAY	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2
42	2106L09	2121207072	ROSHAN MOHANTY	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2
43	2106L10	2121207074	SAKHI KHEDIUDDIN	2	2	2	2	2	2	2	2	2	2	2	8	1	2	1	1	2	1	2	2	2	2	2	8	4	4	4	4	2	1	2	
44	2106L11	2121207075	SIBAL MOHAPATRA	2	1	1	2	2	2	1	1	2	2	2	8	2	2	8	2	2	2	2	2	2	0	2	8.8	4	4	4	4	2	1	2	2
45	2106L12	2121207077	SONIT SONU MALLICK	2	1	2	2	1	1	2	2	2	2	1	8	2	2	1	1	2	2	2	2	2	1	1	8	4	4	4	4	2	1	2	2
46	2106L13	2121207078	ABHISHEK KUMAR NAYAK	1	2	1	2	1	2	2	2	1	2	8	2	1	2	1	2	2	1	2	1	2	2	8	4	4	4	4	4	2	1	2	2
47	2106L14	2121207084	VIJAY BHARI SALEI	2	2	1	1	2	2	1	1	2	2	8	2	2	1	2	2	1	2	1	1	2	8	4	4	4	4	2	1	2	2		
48	2106L15	2121207051	AMAN BHATTA	1	2	2	1	2	2	1	2	2	1	8	2	2	2	1	1	2	2	2	1	1	8	4	4	4	4	2	1	2	2		
49	2106L16	2121207052	AMAN MAJHI	2	2	2	2	2	2	2	2	2	2	8	1	0	2	2	2	2	0	2	2	2	2	8.8	5	5	5	5	5	5			
50	2106L17	2121207057	KUNAL MURMU	2	2	2	2	2	2		2		1	8.8	1	2	2	2	2	2	2	2	2	2	4.8	5	5	5	5	5	5	5	2	
51	2106L18	2121207059	AMAN RAY SAMANT	1	2					2	2	2	2	8.8	1	1	2	2	2	2	1	2	2	2	1	4	4	4	4	2	1	2	2	
52	2106L19	2121207064	SHUBHANKAR SAMORAI SINGH	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	8	4	4	8	8	8	8	4.4	2		
53	2106L20	2121207073	ADITYA PORBY	2	2	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	8	8	8	8	8	8	8	2	2		
54	2106L21	2121207076	DHANESWARA HANSDAH	1	1	2	2	2	2	2	1	1	2	2	8	1	1	1	2	2	2	2	2	2	1	2	8	4	4	4	4	2	1	2	2

84	2106J22	2121207094	SAROJ KUMAR MAHAPATRA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
85	2106J23	2121207095	SURAJ KUMAR DAS	2	2	1	1	2	2	1	1	2	2	4	1	1	2	2	2	1	2	2	2	1	4	4	4	4	2	1	2	2	
87	2106J24	2121207106	ASHISH MOHAPATRA	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	4	5	5	5	5	4.6		
88	2106J29	2121207101	RAHUL KUMAR MAJHI	2	2	1	1	2	2	1	1	2	2	4	1	1	2	1	2	2	1	2	2	2	4	4	4	4	2	1	2		
90	2106J28	2121207102	ABINASH MISHRA	1	1	2	2	1	1	2	2	2	2	4	2	0	2	2	0	2	2	2	2	2	4	5	3	5	5	5	4.2	2	
80	2106J27	2121207103	RABIN RANJAN SAHOO	2	2	1	1	2	2	1	1	2	2	4	2	2	2	2	2	2	2	2	2	2	5	2	5	5	5	5	4.2	2	
81	2106J26	2121207104	AKASH KUMAR BEHERA	1	2	2	2	1	2	2	2	1	1	4	2	2	2	2	2	0	2	0	2	2	2	0	3.5	2	3	4	5	5	4	2	
82	2106J30	2121207105	SUBHASHREE NAIK	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	2	
83	2106J35	2121207108	SUKADEV SAHU	1	1	2	2	2	2	1	1	2	2	4	1	1	2	2	1	2	2	1	2	2	4	4	4	4	2	1	2	2	
84	2106J31	2121207107	JANMEJAY DASH	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	4	3	5	5	5	4.4	2	
85	2106J32	2121207106	VASIR SETHI	2	2	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	2	0	2	0	0	0	5	5	5	5	5	5	2	
86	2106J33	2121207109	VIPUL RAJ	1	2	1	1	2	1	2	2	2	2	4	1	2	5	2	2	2	2	2	2	2	4.5	3	3	4	5	5	4	2	
Average Mark				1.79	1.83	1.83	1.74	1.79	1.88	1.88	1.79	1.88	1.88		1.82	1.82	1.88	1.88	1.87	1.78	1.78	1.74	1.71	1.77		4.08	4.20	4.20	3.88	3.88		1.88
Last 3 Years Average + 10% (Target)				1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88		1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88		3.80	3.80	3.80	3.80	3.80		1.88
Students Scored Above Target mark				30	30	34	40	31	30	32	30	30	31		40	40	30	40	32	30	31	30	31	34		38	38	38	41	41		34
No. of Students Attempted the Question				38	38	38	38	38	38	38	38	38	38		38	38	38	38	38	38	38	38	38	38		38	38	38	38	38		38
% Students Scored Above Target Mark				78.9	83.3	83.1	73.8	74.8	84.8	86.0	78.9	86.0	86.4		80.8	72.7	78.6	86.0	78.8	84.6	77.3	83.3	77.3	81.6		88.9	84.6	83.3	71.2	71.2		86.4
Attainment Level				3	3	3	3	3	3	3	3	3	3		1	2	2	1	2	3	2	3	3	3		3	3	3	2	2		3

CO1				3	3	3	3																			3					3
CO2								3	3	3	3																3				
CO3												3	3		1	2													3			
CO4																	2	1	2	3										2		
CO5																					2	3	2	3							2	

CO No.	Course Outcome	Highest Cognitive Level	POs
CO1	Analyze balanced and unbalanced faults and decide circuit breaker ratings.	kA	1, 2, 3, 4, 5, 9, 12
CO2	Analyze various type of relays and their use cases in power system protection.	kA	1, 2, 3, 4, 5, 9, 12

CO3	Demonstrate various protection strategies applied for power system protection.	K3	1, 2, 3, 4, 5, 6, 10
CO4	Select required protection measures against overcurrent, overvoltage in transmission lines and other power system equipment.	K3	1, 2, 3, 4, 5, 6, 10
CO5	Explore the modern trends in relaying like digital relaying, for power system protection.	K3	1, 2, 3, 4, 5, 6, 10

Metrics

>=70% students	3		
60 to 69% students	2	Best Performing Course Outcome	
50 to 60 % students	1	Least Performing Course Outcome	
Less than 50%	0		

Reason for low attainment: Mistakes in Calculation and Analysing the problem

Plan of Action for improvement: More Numericals are required to be provided in assignm

Doubt Clearing Classes/Tutorial Classes are required to

	Internal	External	Direct Assessment (Internal=40% and External=60%)
COs Number	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5
CO Attainment	2.03 1.91 1.94 2.44 2.53	2.04 2.53 2.04 2.64 2.51	2.03 2.24 2.04 2.55 2.58

Signature of Faculty | Signature of HoD | Signature of Principal

CO Attainment

S. No.	COs Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	2.40	2.65	2.48
2	CO2	2.54	2.73	2.62

3	CO3	3.24	3.48	3.31
4	CO4	3.56	3.48	3.48
5	CO5	3.56	3.41	3.48
			Average	3.47

Sl No	Roll No	Regd No	CO1	CO2	CO3	CO4	CO5
1	2006001	20012287485	3	3	3	3	1
2	2006002	20012287486	3	3	3	3	3
3	2006003	20012287470	3	3	3	3	3
4	2006004	20012287482	3	3	3	3	3
5	2006005	20012287471	3	1	3	3	1
6	2006006	20012287472	3	3	3	3	3
7	2006007	20012287483	3	3	3	3	3
8	2006008	20012287473	3	3	3	3	3
9	2006009	20012287484	3	3	3	3	3
10	2006010	20012287474	3	3	1	3	3
11	2006011	20012287485	3	3	3	3	1
12	2006012	20012287487	3	3	3	3	3
13	2006014	20012287488	3	3	3	3	3
14	2006015	20212671150	3	3	3	3	3
15	2006016	20212671160	3	3	3	3	3
16	2006017	20212671161	3	3	3	3	3
17	2006018	20212671162	3	3	1	3	3
18	2006019	20212671164	3	3	3	3	3
19	2006020	20212671165	3	3	3	3	3
20	2006021	20212671166	3	3	3	1	3
21	2006022	20212671170	3	3	1	3	1
22	2006023	20212671172	1	3	3	3	3
23	2006024	20212671174	3	3	3	3	3
24	2006025	20212671175	3	3	3	3	3
25	2006026	20212671176	3	3	3	3	3
26	2006027	20212671180	3	3	3	3	3
27	2006028	20212671182	3	3	3	3	3
28	2006029	20212671184	3	3	3	1	1
29	2006030	20212671185	3	3	3	3	3
30	2006031	20212671186	3	3	3	3	3
31	2006032	20212671190	3	3	3	3	3
32	2006033	20212671192	1	3	3	3	3
33	2006034	20212671194	3	3	3	3	3
34	2106L01	21212671555	3	3	3	3	3
35	2106L02	21212671563	3	3	3	1	3
36	2106L03	21212671581	3	3	1	3	3
37	2106L04	21212671585	3	3	3	3	3
38	2106L05	21212671586	3	3	3	3	3
39	2106L06	21212671589	3	3	3	3	3
40	2106L07	21212671592	3	3	3	3	3
41	2106L08	21212671594	3	3	3	3	3
42	2106L09	21212671595	3	3	3	3	3
43	2106L10	21212671596	3	3	3	3	3
44	2106L11	21212671603	3	3	3	3	3
45	2106L12	21212671607	3	3	3	3	3

46	21091/13	2121257079	3	3	3	3	3
47	21091/14	2121257084	3	3	3	3	2
48	21091/16	2121257091	3	3	3	3	3
49	21091/18	2121257092	3	3	3	3	3
50	21091/17	2121257097	3	3	3	3	3
51	21091/18	2121257100	3	3	2	3	3
52	21091/19	2121257090	3	2	2	3	3
53	21091/20	2121257079	3	3	3	3	3
54	21091/21	2121257089	3	2	3	3	3
55	21091/22	2121257096	3	3	1	3	2
56	21091/23	2121257090	3	3	3	3	3
57	21091/24	2121257100	3	3	3	3	3
58	21091/25	2121257101	3	2	1	3	2
59	21091/26	2121257102	3	3	3	3	2
60	21091/27	2121257103	3	1	3	2	3
61	21091/28	2121257104	3	1	3	3	3
62	21091/29	2121257105	3	3	3	3	3
63	21091/30	2121257106	2	3	3	3	2
64	21091/31	2121257107	2	1	3	3	3
65	21091/32	2121257108	3	3	2	2	3
66	21091/33	2121257109	3	3	3	3	1
		Average	2.85	2.73	2.58	2.88	2.61
		Overall Average	2.69				
		Rate-5	2.85				
		Rate-4	2.73				
		Rate-3	2.58				
		Rate-2	1.83				
		Rate-1	2.83				

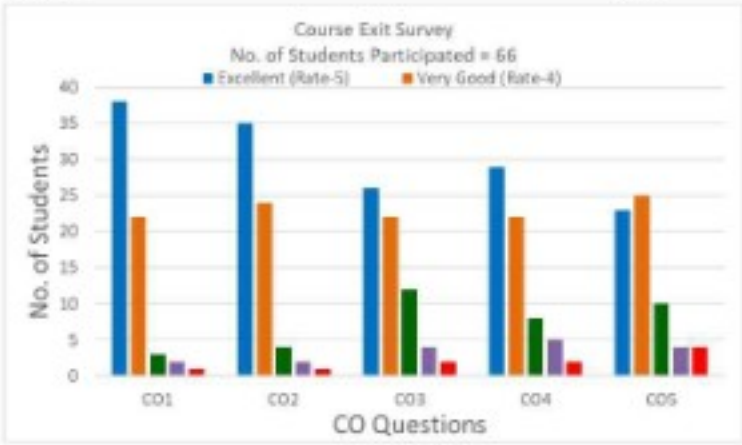
Summary of Course Exit Survey

		No. of Students Rated and Rating Percentage											
CO No.	Course Outcome Question	5	%	4	%	3	%	2	%	1	%	Average %	CO Attain
		Total number of students participated in Course Exit Survey									73		
CO1	Rate yourself based on your ability to analyse balanced and unbalanced faults and decide circuit breaker ratings.	39	50.67	20	39.33	3	4.00	2	2.67	1	1.33	77.67	2.73
CO2	Rate yourself based on your ability to analyse various type of relays and their use cases in power system protection.	35	48.67	24	32.00	4	5.33	2	2.67	1	1.33	76.00	2.69

CO3	Rate yourself based on your ability to Demonstrate various protection strategies applied for power system protection.	28	34.67	22	28.33	12	30.11	4	5.33	2	2.67	75.40	2.45
CO4	Rate yourself based on your ability to Select required protection measures against overcurrent, overvoltage in transmission lines and other power system equipment.	29	36.67	22	28.33	8	43.67	5	6.67	2	2.67	71.73	2.77
CO5	Rate yourself based on your ability to Explore the modern trends in relaying like digital relaying, for power system protection.	23	30.67	26	33.33	16	10.33	4	5.33	4	5.33	66.93	2.43

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

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	38	22	9	3	1	88
CO2	35	24	4	3	1	88
CO3	28	22	12	4	2	88
CO4	29	22	8	8	2	88
CO5	23	26	16	4	4	88



Course Name: POWER SYSTEM PROTECTION Course Code: 20ETE5TP6001

CO No.	Course Outcome	Highest Cognitive Level	POs
CO1	Analyze balanced and unbalanced faults and identify circuit breaker ratings.	K4	1, 2, 3, 4, 5, 6, 12
CO2	Analyze various type of relay and their use cases in power system protection.	K4	1, 2, 3, 4, 5, 6, 12
CO3	Demonstrate various protection strategies applied for power system protection.	K3	1, 2, 3, 4, 5, 6, 12
CO4	Select required protection measures against overcurrent, overvoltage in transmission lines and other power system equipment.	K3	1, 2, 3, 4, 5, 6, 12
CO5	Explore the modern trends in relaying like digital relaying, IDI power system protection	K3	1, 2, 3, 4, 5, 6, 12

CO No. CO Mapping with PO CO-PSO Mapping

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	1		-	-	-		2	3	3	3

CO2	3	3	3	3	3	1	-	-	-	3	3	3	3
CO3	3	3	3	3	3	1	-	-	-	1	3	3	3
CO4	3	3	3	3	3	1	-	-	-	1	3	3	1
CO5	3	3	1	3	3	3	-	-	-	3	3	3	3
AVERAGE	2.80	2.60	2.40	2.40	2.60	1.40	-	-	-	1.80	2.40	2.20	2.4

3-High, 2-Medium, 1-Low

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

	PO Attainment												PSO Attainment		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average PO Mapping (W)	2.68	2.60	2.40	2.40	2.60	1.40	3.00	-	-	-	3.00	1.80	2.40	2.20	2.40
PO Attainment	2.01	2.14	1.88	1.88	1.88	1.18	3.00	-	-	-	3.00	1.32	1.88	1.81	1.88

CO Attainment

S. No	COs Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	2.40	2.69	2.48
2	CO2	2.34	2.73	2.42
3	CO3	2.34	2.65	2.31
4	CO4	2.88	2.69	2.88
5	CO5	2.88	2.81	2.88
			Average	2.47

CO-No	CO Mapping with PO											CO-PSO Mapping			
CO No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	-	-	-	-		3	3	3	3
CO2	3	3	3	3	3	1	-	-	-	-		3	3	3	3
CO3	3	2	2	2	3	1	-	-	-	-		1	3	2	2
CO4	3	3	3	3	3	1	-	-	-	-		1	2	3	1
CO5	3	2	1	2	3	3	-	-	-	-		2	2	2	3
PO Attainment	2.48	2.47	2.48	2.48	3.47	3.18	-	-	-	-		2.48	2.48	2.47	2.48

PO1 Attainment = (2.48*3+2.42*3+3.01*3+2.58*3+2.59*3)/(3+3+3+3+3)

INDIRECT ASSESSMENT TOOLS

ASSESSMENT TOOLS	ASSESSMENT METHODS
Programme outcomes assessment report	Number of students who have participated in professional bodies/ student chapters/ workshops/ seminars/ conferences/ paper presentations / internships, industry visit RELATING TO the corresponding POs/PSOs
Alumni Survey	Average of Alumni survey report
Employer Survey	Average of Employer survey report
Student exit survey	Average of Student exit survey report
Parent interaction	Average of Parent interaction report

INDIRECT ASSES

SITA Autonom

(Affiliated to BPUT, Odisha, Approv

Alumni Feedback Form for Assessment of Program Outcomes (POs), Prog

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 achieve

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

Assessment of Program Outcomes (POs)

Please rate the following Program Outcomes (POs) based on your experience at SITA Autonomous College. Shubhanwesh using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good,

Sl. No.	Pr
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 SITA Autonomous College, Bhubaneswar using the scale below:

(3 - Excellent, 4 - Very Good, 5 - Good,

Sl. No.	Progra
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.
3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronics based driv

Assessment of Program Educational Objectives (PEOs)

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

(3 - Excellent, 4 - Very Good, 5 - Good,

Sl. No.	Program S
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 SITA Autonomous College, Bhubaneswar contributed to your professional growth?

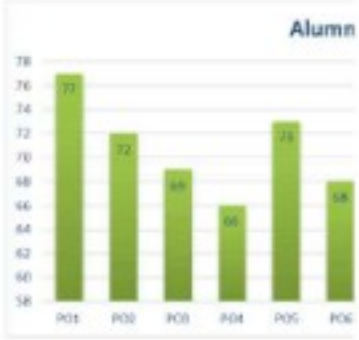
2. What improvements would you suggest in the curriculum to better prepare future graduates?

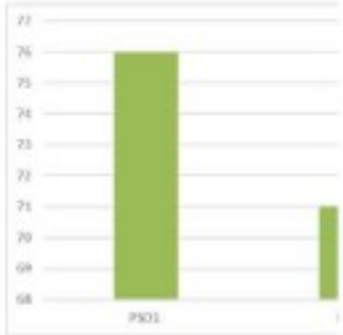
3. Would you be willing to contribute to guest lectures, internships, or industry collaborations? (Yes/No)
4. Any other suggestions/comments:

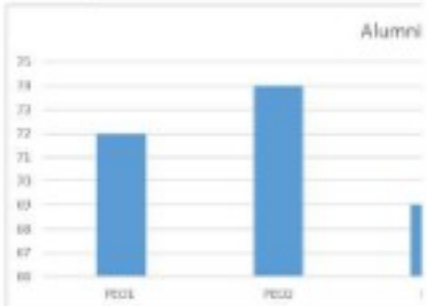
Thank you for your valuable feedback! Your insights will help us improve and enhance the learning experience for future students.

Signature: _____
Date: _____

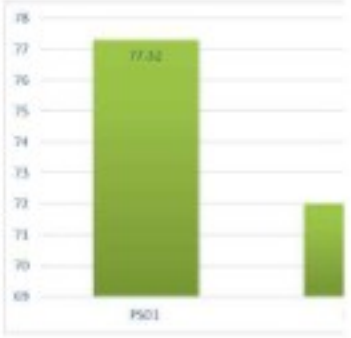
GITA Autonomous College, Bhubaneswar

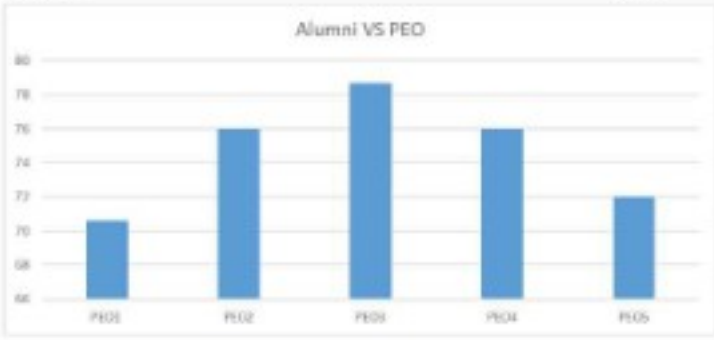



77
76
75
74
73
72
71
70
69
68
PSO1


Alumni
75
74
73
72
71
70
69
68
67
66
PEO1
PEO2

Alumn
90
80
70
60
50
40
30
20
10
0
80
74
73.32
70.4
74.4
69.3
PO1
PO2
PO3
PO4
PO5
PO6


78
77
76
75
74
73
72
71
70
69
77.32
PSO1



INDIRECT ASSESSMENT

GITA Autonom

(Affiliated to BPUT, Odisha, Appro

Employer Feedback Form for Assessment of Program C

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 f

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

Assessment of Program Outcomes (POs)

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

(5 - Excellent, 4 - Very Good, 3 - Good,

Sl. No.	Pr

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, 2 - Very Good, 1 - Good,

Sl. No.	Progra
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.
3	To empower the students to design and specific product required for industry and society using the knowledge of network theory, power system, control system and power electronics based driv

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

Empl
PERCENTAGE (%)
80
70
60
50
40
30
20
10
0
62
72
64
68
70
PO1
PO2
PO3
PO4
PO5

EMPLOYER VS PSO
PERCENTAGE (%)
80
70
60
50
40
30
20
10
0
PSO1
PSO2
PSO3

PRECENTAGE (%)
80
70
60
50
40
30
20
10
0
72
64
68
72
68
72
70
68
68
66
74
56
PO1
PO2
PO3
PO4
PO5
PO6
PO7
PO8
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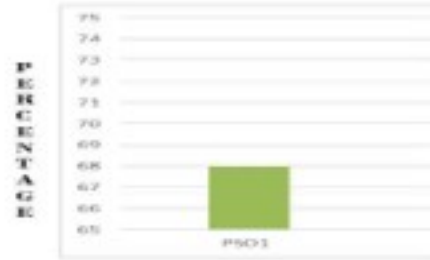
PO10
PO11
PO12



INDIRECT ASSESSMENT ST

GPA Autonom

(Affiliated to BPUT, Odisha, Appro

Students Satisfac

Dear Student,

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

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

Section 1: Teaching-Learning and Academic Environment

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

(5 - Excellent, 4 - Very Good, 3 - Good,

Sl. No.	
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.

6	Effectiveness of practical sessions and laboratory facilities.
8	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 3: Infrastructure and Learning Resources

Sl. No.	
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.	2
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 GITAAutonomous College? (1 to 5) __

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

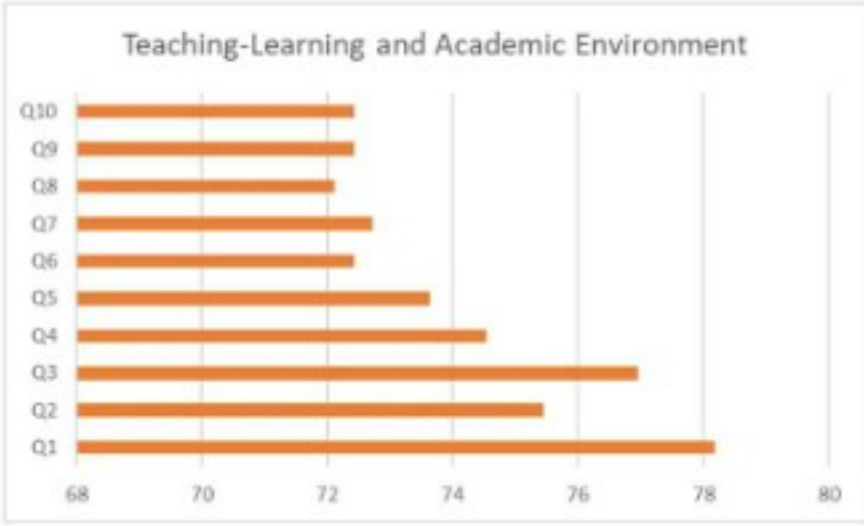
3. What improvements would you suggest for better learning outcomes?

4. Any additional comments or feedback:

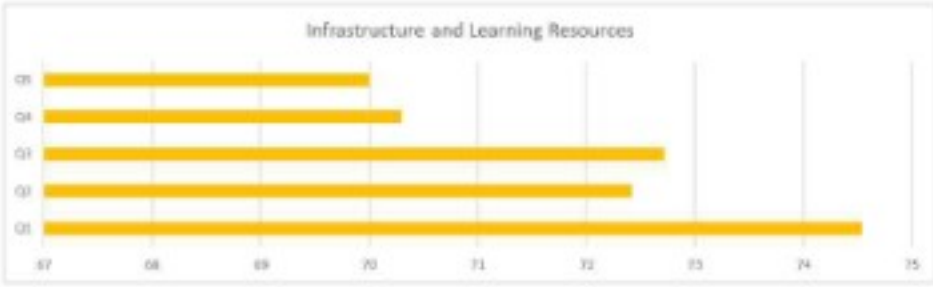
Thank you for your valuable feedback! Your responses will help us improve the quality of education and enhance the student experience.

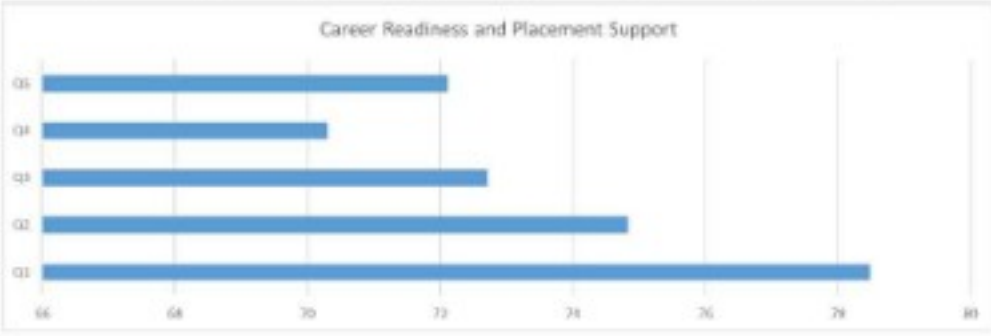
Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar



PERCENTAGE(%)


Infrastructure and Learning Resources
Q5
Q4
Q3
Q2
Q1
67
68
69
70
71
72
73
74
75


Career Readiness and Placement Support
Q5
Q4
Q3
Q2
Q1
66
68
70
72
74
76
78
80

Parents Feedback Form for Assessment of Program O

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 student

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

Assessment of Program Outcomes (POs)

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

(5 - Excellent, 4 - Very Good, 3 - Good,

Sl. No.	Pr
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 observations of your child's academic and professional growth at GITA Autonomous College, Bhubaneswar using the scale below:

(5 - Excellent, 4 - Very Good, 3 - Good,

Sl. No.	Prograr
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.
3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronics based on

Additional Feedback

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

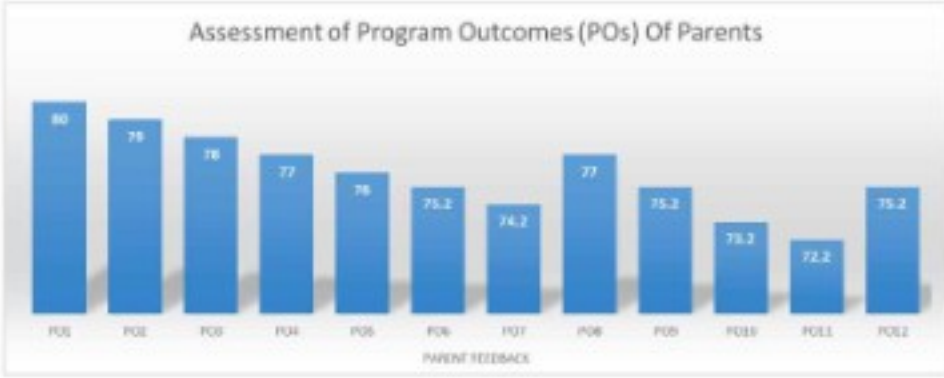
2. What improvements would you suggest in our curriculum to better prepare students for their careers?

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.

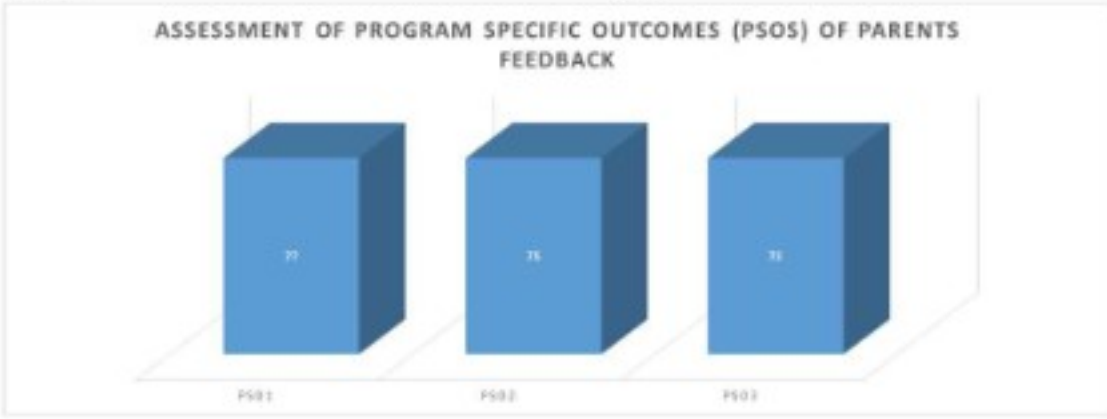
Signature: _____
Date: _____

GITK Autonomous College, Bhubaneswar



Assessment of Program Specific Outcomes (PSOs)
79
78
78.2
PSO1
PSO2
PSO3
PARENT FEEDBACK

Assessment of Program Outcomes (POs) OF PARENTS FEEDBACK
80
78
76
74
72
70
68
66
1
PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12



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

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

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried

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 Course exit survey, alumni survey and employer survey. Program student's survey is give

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

		Course	Assessment Tools	Frequency
Direct Measurement (50% weightage)	CO Assessment	Theory	surprise test	once/course
			Quiz Test	once/course
			assignments	five courses/one from each module
			mid-sem. exam	once/course
			Semester End Exam	Once/course
		Practical	Continuous Assessment (performance evaluation during Experimentation and execution, report writing and viva voce)	each experiment is evaluated Weekly
			final mark is awarded after the submission of practical record	
		Mini Project-I, Mini Project-II, Mini Project-III 4TH, 5TH and 6TH semester	Evaluating a mini-project involves assessing different aspects such as 1. Problem Statement & Objective 2. Circuit Design & Implementation 3. Functionality & Performance Testing 4. Efficiency & Innovation 5. Report & Demonstration	Once/course

		Minor project 7th semester	Evaluating a mini-project involves assessing different aspects such as 1. Problem Statement & Objective 2. Circuit Design & Implementation 3. Functionality & Performance Testing 4. Efficiency & Innovation 5. Report & Demonstration	Once/courses
		Major Project 8th semester	Evaluating a mini-project involves assessing different aspects such as 1. Problem Statement & Objective 2. Circuit Design & Implementation 3. Functionality & Performance Testing 4. Efficiency & Innovation 5. Report & Demonstration	Once/courses
Indirect		Program student Survey		Once in a year
		Employer Survey		Once in a year
measurement (20% weightage)	Survey	Alumni Survey		Once in a year

Quality / relevance of assessment tools and processes:

Direct Assessment Tools and Process

Direct assessment tools in 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 attainments of all the

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 de

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 Mid semester Exam + Quiz + Assignment + surprise test+ semester End Exam)	CO Attained (Calculated for Each course from Mid semester Exam + Quiz + Assignment + surprise test+ semester End Exam + Course feedback)
Attainment of POs = (Target PO*CO Attained)/3	Attainment of PSOs = (Target PSO*CO Attained)/3

The direct assessment of POs and PSOs of EM-1 is given in Table.

CO-PO and PSO Mapping Matrix

Semester: 4TH

Subject Name: Electrical Machines-I

Sl. No	Course Outcomes
CO1	Apply the knowledge on the basic concepts of electromechanical energy conversion
CO2	Understand the constructional features and winding and operating principle of dc motor
CO3	Analyze the performance like speed control, starting, braking, characteristics and uses of dc machine
CO4	Analyze the performance and construction of single phase transformer and three phase transformers
CO5	Understand the different vector groups of 3 phase transformer

CO-PO Matrices

POs	Engineering knowledge	Problem analysis	Design/development of solutions	Investigations of complex problems	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual and team work	Communication
Sl. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	3	2	1	-	-	-	-
CO2	3	3	1	3	2	2	-	-	-	-
CO3	3	3	2	3	2	1	-	-	-	-
CO4	2	2	2	2	2	2	-	-	-	-
CO5	2	2	2	2	2	1	-	-	-	-
Avg.	2.60	2.60	2.20	2.60	2.00	1.60	-	-	-	-

CO-PSO Matrices

PSOs	Engineering Skills and Knowledge	Higher Study and Research	Entrepreneur with Ethical & Socia
Sl. No.	PSO1	PSO2	PSO3
CO1	2	2	2
CO2	3	3	3
CO3	3	1	2

CO4	2	2	2
CO5	2	2	2
Avg.	2.40	2.00	2.6

Direct PO Assessment for Electrical Machines-I												
Course: Electrical Machines-I	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Target POs (from Mapping)	2.50	2.50	2.20	2.50	2	1.40	-	-	-	-	-	1.40
CO Attained in Electrical Machines-I	2.33											
Attainment of POs (Target PO*CO Attained)/3	3.06	3.06	1.74	3.06	1.08	1.11	-	-	-	-	-	1.11

Direct PSO Assessment for Electrical Machines-I			
PSOs	Target PSO	CO Attained	PSO Attainment= (Target PSO*CO Attained)/3
PSO1	2.48	2.33	1.984
PSO2	2		1.56
PSO3	2.6		2.08

Indirect Assessment Tools and Process:

Indirect assessment is done through program exit survey, alumni survey and employer survey. Program exit survey is given a weight age of 40%, employer survey is given a weight age of 30% and alumni survey are given a weight ag

Department of ELECTRICAL Engineering
Program Exit Survey – B.Tech in ELECTRICAL Engg

Dear Graduating Student,

Congratulations on successfully completing your B.Tech in Electrical 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 com

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/Defense 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	Our graduates are committed to excel in the field of engineering and technology and develop skills required for the industry	☐	☐	☐	☐	☐
2	Our graduates will function ethically, responsively and remain alert about all round development of their profession	☐	☐	☐	☐	☐
3	Our graduates are continuously exposed to quality professional education, to become innovative and ready to take on challenges to meet the technological advancement with standing, and be ready to contribute to the development of our country	☐	☐	☐	☐	☐
4	Our graduates emerge out to become successful entrepreneurs and innovators	☐	☐	☐	☐	☐
5	Our graduates sharpen their research skill and consultancy activities to meet out the global challenges and reforms	☐	☐	☐	☐	☐

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	To empower the students to become practicing engineers so as to solve the global problems.	☐	☐	☐	☐	☐
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment	☐	☐	☐	☐	☐
3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.	☐	☐	☐	☐	☐

Section E: Suggestions for Improvement

1. What did you like the most about the B.Tech Electrical 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.

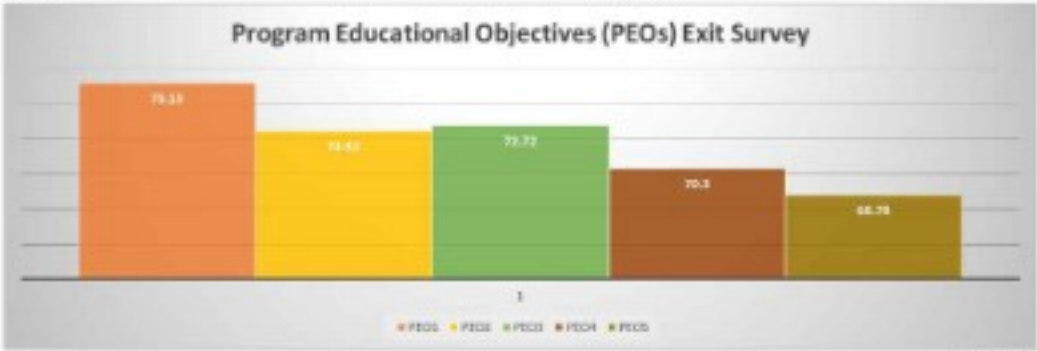
Head of the Department
Department of Electrical Engineering
GITA Autonomous College, Bhubaneswar

Program Educational Objectives (PEOs) : Exit Survey

SlNo.	RollNo	RegdNo	Name	PEO1	PEO2	PEO3	PEO4	PEO5
1	2008001	2081207468	ABINASH MAHAPATRA	5	5	5	5	5
2	2008002	2081207469	AKASH KUMAR	5	5	5	5	5
3	2008003	2081207470	ANKIT KUMAR DEHURY	4	4	4	4	4
4	2008004	2081207462	BANIJYTHA BISWAL	5	5	5	5	5

5	2008005	2081327471	BIDHISESH KUMAR SAHAL	5	5	5	5	5
6	2008006	2081327472	DHEERAJ MALLICK	3	3	3	3	3
7	2008007	2081327453	HASHANT KUMAR	3	3	3	3	3
8	2008008	2081327473	MANAS RANJAN NAYAK	5	5	5	5	5
9	2008009	2081327454	NRUSINGHA BANKA	3	3	3	3	3
10	2008010	2081327474	PANKAJ KUMAR PATRA	4	4	4	4	4
11	2008012	2081327455	SURYAKANTA RAY CHOUDHURY	3	3	3	3	3
12	2008013	2081327457	TPS NARAYAN BEHERA	3	3	3	3	3
13	2008014	2081327458	SUSHIL BHUYAN	3	3	3	3	3
14	2008015	2081327158	ABHIJIT SATHSAMMA	4	4	4	4	4
15	2008016	2081327159	ABHISEK PADHI	3	3	3	3	3
16	2008017	2081327160	ABINASH BAGHBANJUA	5	5	5	5	5
17	2008018	2081327162	AJAY KUMAR	5	5	5	5	5
18	2008019	2081327164	AKSANTA MOHANTRA	4	4	4	4	4
19	2008020	2081327165	AKHOY PRADHAN	5	5	5	5	5
20	2008021	2081327166	ANITA PRIYADARSHINI SAHOO	3	3	3	3	3
21	2008023	2081327170	ANUJ KUMAR	5	5	5	5	5
22	2008022	2081327172	ARIHANT KUMAR	3	3	3	3	3
23	2008024	2081327174	ASHUTOSH KUMAR PANDEY	4	4	4	4	4
24	2008025	2081327176	BLASINI ORAM	3	3	3	3	3
25	2008026	2081327178	BISHAKHA PANDA	5	5	5	5	5
26	2008027	2081327180	CH ASISH KUMAR PATRO	3	3	3	3	3
27	2008028	2081327182	CHINMAY CHANDAN SAHOO	3	3	3	3	3
28	2008029	2081327184	DEBA PRASAD BEHERA	5	5	5	5	5
29	2008030	2081327186	DEBADAS RANA	3	3	3	3	3
30	2008031	2081327188	DEBASHIS SAHOO	4	4	4	4	4
31	2008032	2081327190	DUU DEEPALI TUDU	2	2	2	2	2
32	2008033	2081327192	DURGA MADHAB PALAI	3	3	3	3	3
33	2008034	2081327194	JAJATI KESARI NAYAK	5	5	5	5	5
34	2008035	2081327196	RAJALAXMI SUTAR	4	4	4	4	4
35	2008036	2081327198	SAI SWARUP PADHAN	3	3	3	3	3
36	2008037	2081327197	S SUBHAM PATRO	5	5	5	5	5
37	2008038	2081327199	GOURAV KUMAR	5	5	5	5	5
38	2008039	2081327199	SUMAN SAHOO	4	4	4	4	4
39	2008040	2081327200	RAJESH KUMAR JENA	3	3	3	3	3

40	2008041	2021307201	SAI JEEVAN	3	3	3	3	3
41	2008042	2021307202	BIDISH BHUSAN MAHATARAY	0	0	0	0	0
42	2008043	2021307203	ROSHAN VISHWANTY	3	3	3	3	3
43	2008044	2021307204	SARFARAZ SHEIKH	4	4	4	3	3
44	2008045	2021307205	BISHAL MOHAPATRA	3	3	3	3	3
45	2008046	2021307206	SONIT SONU MALLICK	0	0	0	0	0
46	2008047	2021307207	ABHISHEK KUMAR NAYAK	3	3	3	3	3
47	2008048	2021307208	NILKANTH HARI DALEI	3	3	3	3	3
48	2008049	2021307209	ANANYA BHATTA	0	0	0	0	0
49	2008050	2021307210	AVINAV ANJAN	3	3	3	3	3
50	2008051	2021307211	KUNAL MURMU	4	4	4	3	3
51	2008052	2021307212	ASWIN RAY SAMANT	2	2	3	2	2
52	2008053	2021307213	SHUBHANKAR SANGRAM SINGHD	3	3	3	3	3
53	2008054	2021307214	ADITYA PODEY	0	0	0	0	0
54	2008055	2021307215	DHANESHWARA HANSDAH	4	3	4	4	4
55	2008056	2021307216	SAROJ KUMAR MAHAPATRA(	3	3	3	3	3
56	2008057	2021307217	SURAJ KUMAR DAS	3	0	3	3	3
57	2008058	2021307218	ADARSH MOHARANA	3	3	3	0	1
58	2008059	2021307219	RAHUL KUMAR MAJHI	4	4	3	4	4
59	2008060	2021307220	ABHIJEET MISHRA	0	3	2	0	0
60	2008061	2021307221	BAGMI RANJAN SAHOO	4	3	3	3	3
61	2008062	2021307222	AKASH KUMAR BEHERA	3	3	3	3	3
62	21DBL28	21Z1307105	SUBHASHREE NAIK	0	0	0	0	0
63	21DBL30	21Z1307106	SUKADEV SAHU	3	3	3	3	3
64	21DBL31	21Z1307107	JAYAKEJAY SAGAI	4	4	4	3	3
65	21DBL32	21Z1307108	KABIR SETHI	4	3	3	3	3
66	21DBL33	21Z1307109	VIPUL RAJ	3	3	3	2	1
		AVERAGE		3.787879	3.621212	3.636364	3.181818	3.439394
		PERCENTAGE		75.76	72.42	72.73	63.6	68.79



Program Outcomes (POs)

SNo	RollNo	RegdNo	Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	2000001	2001287480	ABINASH MAHAPATRA	5	5	5	5	5	5	5	5	5	5	5	5
2	2000002	2001287480	AKASH KUMAR	3	3	3	3	3	3	3	3	3	3	3	3
3	2000003	2001287473	AMIT KUMAR DEHURY	4	4	4	4	4	4	4	4	4	4	4	4
4	2000004	2001287482	BAKUNTHA BISWAL	3	5	3	4	5	3	3	3	3	5	3	3
5	2000005	2001287471	BIDHUMESH KUMAR SAHAL	5	5	5	5	5	5	5	5	5	5	5	5
6	2000006	2001287472	DHEERAJ MALLICK	3	3	3	3	3	3	3	3	3	3	3	3
7	2000007	2001287483	HARIHAR KUMAR	3	3	3	3	3	3	3	3	3	3	3	3
8	2000008	2001287473	MANAS RANJAN NAYAK	5	5	5	5	5	5	5	5	5	5	5	5
9	2000009	2001287484	MRUDINDRA SWAIN	5	5	5	5	5	5	5	5	5	5	5	5
10	2000010	2001287474	PANKAJ KUMAR PATRA	4	4	4	4	4	4	4	4	4	4	4	4
11	2000012	2001287488	SURYANARAYACHOUDHURY	5	2	2	2	2	2	2	2	2	2	2	2
12	2000013	2001287487	TPG NARAYAN BEHERA	5	5	5	5	5	5	5	5	5	5	5	5
13	2000014	2001287485	SUSHIL BHUYAN	5	5	5	5	5	5	5	5	5	5	5	5
14	2000015	2021287186	ABHIJIT RATHSHARMA	4	4	4	4	4	4	4	4	4	4	4	4
15	2000016	2021287155	ABHISEK PADHI	3	3	3	3	3	3	3	3	3	3	3	3
16	2000017	2021287150	ABINASH BHABANJUA	5	5	5	5	5	5	5	5	5	5	5	5

17	2008016	202128719[illegible]2 AJAY KUMAR	5	5	5	5	5	5	5	5	5	5	5	5	5
18	2008018	202128719[illegible]4 AKLAKTA MOHAPATRA	4	4	4	4	4	3	4	4	4	4	4	4	4
19	2008020	202128719[illegible]6 ANADU PRADHAN	5	5	5	5	5	5	5	5	5	5	5	5	5
20	2008021	202128719[illegible]8 ANITA PRIYADARSHINI SAHOO	3	3	3	3	3	3	3	3	3	3	3	3	3
21	2008022	202128717[illegible]0 ANJU KUMAR	5	5	5	5	5	5	5	5	5	5	5	5	5
22	2008023	202128717[illegible]2 ARIHANT KUMAR	3	3	3	3	3	3	3	3	3	3	3	3	3
23	2008024	202128717[illegible]4 ASHUTOSH KUMAR PANDEY	4	4	4	4	4	4	4	4	4	4	4	4	4
24	2008025	202128717[illegible]6 BIJAYINI ORAM	3	3	3	3	3	3	3	3	3	3	3	3	3
25	2008026	202128717[illegible]8 BISHAKHA PANDA	5	5	5	5	5	5	5	5	5	5	5	5	5
26	2008027	202128718[illegible]0 CHANDAN KUMAR PATRO	3	3	3	3	3	3	3	3	3	3	3	3	3
27	2008028	202128718[illegible]2 CHANDNI CHANDAN SAHOO	5	3	3	3	3	3	3	3	3	3	3	3	3
28	2008029	202128718[illegible]4 DEBA PRASAD BEHERA	5	5	5	5	5	5	5	5	5	5	5	5	5
29	2008030	202128718[illegible]6 DEBASHIS RANA	3	3	3	3	3	3	3	3	3	3	3	3	3
30	2008031	202128718[illegible]8 DEBASHIS SAHOO	4	4	4	4	4	4	4	4	4	4	4	4	4
31	2008032	202128719[illegible]0 DILU DEEPALI TUDU	3	3	3	3	3	3	3	3	3	3	3	3	3
32	2008033	202128719[illegible]2 DURGA MADHAB PALAI	3	3	3	3	3	3	3	3	3	3	3	3	3
33	2008034	202128719[illegible]4 JAJNYASENANI NAYAK	5	5	5	5	5	5	5	5	5	5	5	5	5
34	2008035	202128719[illegible]6 RAJALAXMI SUTAR	4	4	4	4	4	4	4	4	4	4	4	4	4
35	2008036	202128719[illegible]8 SAKSWARUP PADHAN	3	3	3	3	3	3	3	3	3	3	3	3	3
36	2008037	202128719[illegible]7 S SUBHAM PATRO	5	5	5	5	5	5	5	5	5	5	5	5	5
37	2008038	202128719[illegible]0 GOURAV KUMAR	5	5	5	5	5	5	5	5	5	5	5	5	5
38	2008039	202128719[illegible]2 SUMAN SAHOO	4	4	4	4	4	3	4	4	4	4	4	4	4
39	2008040	202128720[illegible]0 RAJESH KUMAR JENA	5	5	5	5	5	5	5	5	5	5	5	5	5
40	2008041	202128720[illegible]1 SAI JEEVAN	3	3	3	3	3	3	3	3	3	3	3	3	3
41	2008042	202128720[illegible]3 BIBHA BHUSAN MAHATHAW	5	5	5	5	5	5	5	5	5	5	5	5	5
42	2008043	202128720[illegible]5 ROSHAN MOHANTY	3	3	3	3	3	3	3	3	3	3	3	3	3
43	2008044	202128720[illegible]7 SAKIR HUSSAIN	5	4	4	4	4	4	4	3	4	4	4	4	4
44	2008045	202128720[illegible]9 SIBAL MOHANTA	5	3	3	3	3	3	3	3	3	3	3	3	3
45	2008046	202128721[illegible]1 SOMIT SONU MALLICK	5	5	5	5	5	5	5	5	5	5	5	5	5
46	2008047	202128721[illegible]3 ABHISHEK KUMAR NAYAK	3	3	3	3	3	3	3	3	3	3	3	3	3
47	2008048	202128721[illegible]5 NILADRI BIHARI DALEI	3	3	3	3	3	3	3	3	3	3	3	3	3
48	2008049	202128721[illegible]7 AMANA BHATTA	5	5	5	5	5	5	5	4	5	5	5	5	5
49	2008050	202128721[illegible]9 ANYA MAJHI	3	3	3	3	3	3	3	3	3	3	3	3	3
50	2008051	202128722[illegible]1 KUNAL MURMU	4	4	4	4	4	4	4	3	3	4	4	4	4
51	2008052	202128722[illegible]3 AMAN RAY SAMANT	3	3	3	3	3	3	3	3	3	3	3	3	3

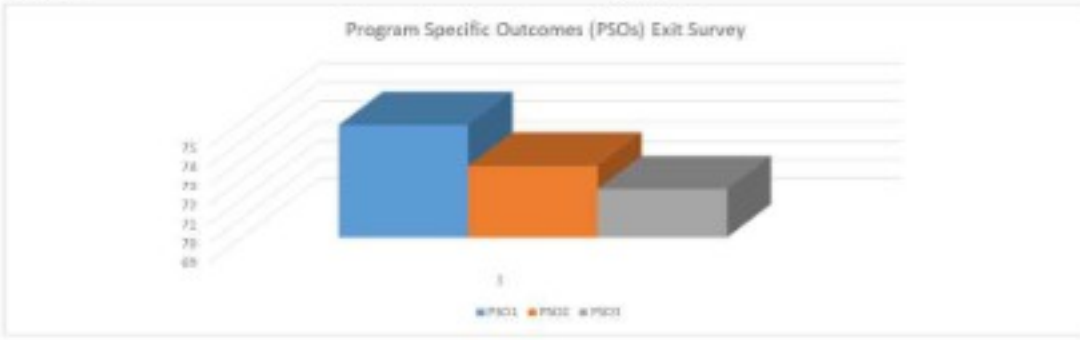
52	2008053	20213872113 SHUBHANKAR SANGRAM SINGH	3	3	4	3	3	3	3	3	3	3	3
53	2008054	20213872114 ADITYA POREY	3	3	3	3	3	3	3	3	3	3	3
54	2008055	20213872115 DHANESHWARA HANSDAH	3	4	4	4	3	4	4	4	3	4	4
55	2008056	20213872116 SAROJ KUMAR MAHAPATRA ()	3	3	3	3	3	3	3	3	3	3	3
56	2008057	20213872117 SURAJ KUMAR DAS	3	3	3	3	3	3	3	3	3	3	3
57	2008058	20213872118 ASHISH MOHARANA	3	3	3	3	3	3	3	3	3	3	3
58	2008059	20213872119 RAHUL KUMAR MAJHI	4	4	4	4	3	4	3	4	4	4	3
59	2008060	20213872120 ABHIGAN MISHRA	3	3	3	3	3	3	3	3	3	3	3
60	2008061	20213872121 RASMI RANJAN SAHOO	3	3	3	4	3	3	3	3	3	3	3
61	2008062	20213872122 AKASH KUMAR BEHERA	4	3	3	3	3	3	3	3	3	3	3
62	2108L29	21213871105 SUBHASHREE NAIK	3	3	3	3	3	3	3	3	3	3	3
63	2108L30	21213871106 SUVADEV SAHU	3	3	3	3	3	3	3	3	3	3	3
64	2108L31	21213871107 JAMEJAY DASH	3	4	4	4	3	4	4	4	4	4	4
65	2108L32	21213871108 HABIB SETH	3	3	3	3	3	3	3	3	3	3	3
66	2108L33	21213871109 VIPUL RAI	3	3	3	3	3	3	3	3	3	3	1
		AVERAGE	3.0091	3.0303	3.1948	3.1515	3.0606	3.0303	3.0303	3.0606	3.0606	3.0606	3.0606	3.0303	2.9758
		PERCENTAGES	75.16	75.68	79.86	78.78	76.52	75.76	75.76	76.52	76.52	76.52	76.52	75.76	74.39

Program Specific Outcomes (PSOs) Exit Survey

SNo.	RollNo	RegdNo	Name	PSO1	PSO2	PSO3
1	2008001	2001057145SADHASH MAHAPATRA		3	3	3

2	2000002	2021037	ABHAKASH KUMAR	3	3	3
3	2000003	2021037	ANANT KUMAR DEHURY	4	4	4
4	2000004	2021037	BEBHUNTHA BISWAL	3	3	3
5	2000005	2021037	BISHNESH KUMAR SAHAL	5	5	5
6	2000006	2021037	DHEERAJ MALLICK	3	3	3
7	2000007	2021037	KISHASHYAP KUMAR	3	3	3
8	2000008	2021037	MANAS RANJAN NAYAK	5	5	5
9	2000009	2021037	MIR LOKNGHA SWAIN	3	3	3
10	2000010	2021037	PRAKAJ KUMAR PATRA	4	4	4
11	2000011	2021037	SUBHAKANTA SAHOO,SUBHRY	3	3	3
12	2000012	2021037	TPS NARAYAN BEHERA	3	3	3
13	2000014	2021037	SUSHIL BHUYAN	5	5	5
14	2000015	2021037	ABHIJIT RATHGHARIA	4	4	4
15	2000016	2021037	ABHIGEK PADH	3	3	3
16	2000017	2021037	ABHINASH BHGABANJJA	5	5	5
17	2000018	2021037	AJAY KUMAR	5	5	5
18	2000019	2021037	ANKLANTA MOHANTRA	4	4	4
19	2000020	2021037	ANYAKEJ PRADHAN	5	5	5
20	2000021	2021037	ANITA PRYADARSHINI SAHOO	3	3	3
21	2000022	2021037	ANJU KUMAR	3	3	3
22	2000023	2021037	ANT KANT KUMAR	3	3	3
23	2000024	2021037	ASHUTOSH KUMAR PANDEY	4	4	4
24	2000025	2021037	BALASHI ORAM	3	3	3
25	2000026	2021037	BHAKHA PANDA	0	0	0
26	2000027	2021037	BICH ADIGA KUMAR PATRO	3	3	3
27	2000028	2021037	CHINNAY CHAYDAN SAHOO	3	3	3
28	2000029	2021037	DEBA PRASAD BEHERA	0	0	0
29	2000030	2021037	DEEBADAS RANA	3	3	3
30	2000031	2021037	DEEBADAS SAHOO	4	4	4
31	2000032	2021037	DULI DEEPALI TUDU	3	3	3
32	2000033	2021037	DURGA MADHAB PALAI	3	3	3
33	2000034	2021037	JAJATI KESHARI NAYAK	5	5	5
34	2000035	2021037	KAJALA MAY GUTAR	4	4	4
35	2000036	2021037	KSHI SWARUP PADHAN	3	3	3
36	2000037	2021037	LTS SUBHAM KHYRO	0	0	0

37	2030039	2021207116GGOURAV KUMAR	5	3	5
38	2030039	2021207116GUNAN SAHOO	4	4	4
39	2030040	2021207116RAJESH KUMAR JENA	5	5	5
40	2030041	2021207215AK JEEVAN	3	3	3
41	2030042	2021207215BBISWABHUSAN BAHARAPAY	3	3	3
42	2030043	2021207216IROGHANI MOHANTY	3	3	3
43	2030044	2021207216MUKHTAHMEEDAUDDIN	4	4	4
44	2030045	2021207215BISHAL MOHAPATRA	3	3	3
45	2030046	2021207215BSOWIT SONU MALLICK	3	3	3
46	2030047	2021207215TABHISHEK KUMAR NAYAK	3	3	3
47	2030048	2021207215RUKADRIBIHARI DALEI	3	3	3
48	2030049	2021207215AMAYA BHATTA	5	3	5
49	2030050	2021207215AMIYA MAJHI	3	3	3
50	2030051	2021207211 KUNAL MURMU	4	4	3
51	2030052	2021207215AMAY RAY SAMANT	4	3	3
52	2030053	2021207215SHUBHASHISH SANGRAM SINGHG		3	3
53	2030054	2021207215HASITYA PATEY	5	5	5
54	2030055	2021207215SHASHIDEBASIS HANSDAH	4	3	4
55	2030056	2021207215SAROJ KUMAR BAHARATRA(	3	3	3
56	2030057	2021207215URAJ KUMAR DAS	1	3	3
57	2030058	2021207215ASHISH MOHAPANA	5	3	3
58	2030059	2021207211RAHUL KUMAR MAJHI	4	4	3
59	2030060	2021207220ABHASH MISHRA	1	3	3
60	2030061	2021207215WASIM RAAJAN SAHOO	4	3	3
61	2030062	2021207215AKASH KUMAR BEHERA	4	3	3
62	2130L29	2121207115SUBHASHREE NAIK	5	1	5
63	2130L30	2121207115SUHASBIV SAHU	3	3	3
64	2130L31	2121207115TJANMEJAY DASH	4	4	3
65	2130L32	2121207115SHUBER SETH	4	3	3
66	2130L33	2121207115SVIPUL RAJ	1	3	3
		AVERAGE	3.742424	3.666364	3.575758
		PERCENTAGES	74.84	73.72	71.51



An exit survey is conducted for the students who have graduated out of the department for the Year (2020-2024). Number of students participated in course exit survey 65. The questionnaire format in the Course exit survey i

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Department of Electrical Engineering
Course Exit Survey – POWER SYSTEM PROTECT

Dear Student,

Thank you for participating in the Course Exit Survey for Network Theory. 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 an

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	Analyse balanced and unbalanced faults and decide circuit breaker ratings.	☐	☐	☐	☐	☐
2	Analyse various type of relay and their use cases in power system protection.	☐	☐	☐	☐	☐
3	Demonstrate various protection strategies applied for power system protection.	☐	☐	☐	☐	☐
4	Select required protection measures against overcurrent, overvoltage in transmission lines and other power system equipment.	☐	☐	☐	☐	☐
5	Explore the modern trends in relaying like digital relaying for power system protection.	☐	☐	☐	☐	☐

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 Network Theory 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.

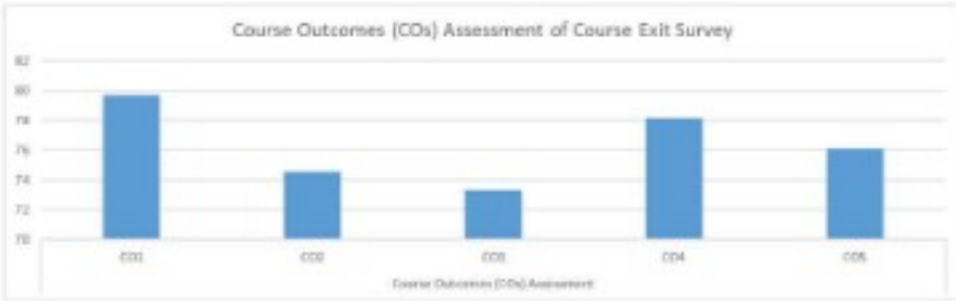
Course Instructor
Department of Electrical Engineering
GITA Autonomous College, Bhubaneswar

Section B: Course Outcomes (COs) Assessment

SlNo.	RollNo	RegdNo.	Name	CO1	CO2	CO3	CO4	CO5
1	2000001	2001287480	ABHIJEET MAHAPATRA	5	5	5	5	5
2	2000002	2001287490	AKASH KUMAR	5	3	3	3	3
3	2000003	2001287470	ANKIT KUMAR DEHURY	4	4	4	4	4
4	2000004	2001287482	BAIKUNTHA BISWAL	5	5	3	4	3
5	2000005	2001287471	BISHNEEH KUMAR SAHAL	4	5	5	5	5
6	2000006	2001287472	DHEERAJ MALLICK	4	3	3	3	3
7	2000007	2001287483	HARIHAR KUMAR	3	3	3	3	3
8	2000008	2001287473	IMRAN RANJAN NAYAK	5	5	5	5	5
9	2000009	2001287484	MRUSINGHA SWAIN	5	5	3	3	3
10	2000010	2001287474	PANKAJ KUMAR PATRA	4	4	4	4	4
11	2000012	2001287485	SURYANARAYAN ROYCHOUDHURY	4	2	2	2	2
12	2000013	2001287487	TPS NARAYAN BEHERA	4	3	3	3	3
13	2000014	2001287488	SUSHIL BHUYAN	5	5	5	5	5
14	2000015	2001287189	ABHIJIT RATHSHARMA	4	4	4	4	4
15	2000016	2001287180	ABHISEK PADHI	3	3	3	3	3
16	2000017	2001287190	ABHISH BASABATULLA	4	5	5	5	5
17	2000018	2001287182	AJAY KUMAR	5	5	5	5	5
18	2000019	2001287191	AKLANTA MOHANAPRA	4	4	4	4	4
19	2000020	2001287188	ANIKEU PRADHAN	5	5	5	5	5
20	2000021	2001287183	ANITA PRIYADARSHINI SAHOO	3	3	3	3	3
21	2000022	2001287179	ANUJ KUMAR	5	5	5	2	1
22	2000023	2001287172	ARIHANT KUMAR	3	3	3	3	3
23	2000024	2001287174	ASHUTOSH KUMAR PANDEY	4	4	4	4	4
24	2000025	2001287175	BIJAYA ORAM	3	3	3	3	3
25	2000026	2001287176	BISHAKHA PANDA	5	2	5	1	1
26	2000027	2001287193	CHANDAN KUMAR PATRO	5	5	5	5	5
27	2000028	2001287192	CHINMAY CHANDAN SAHOO	5	5	5	5	5

29	2000029	22D1CE7129	DEBA PRASAD BEHERA	4	4	4	4	4
30	2000030	22D1CE7130	DEBASHIS RAVA	3	3	3	3	3
31	2000031	22D1CE7131	DEBASHIS SAHOO	5	5	4	4	4
32	2000032	22D1CE7132	DULI DEEPALI TUDU	3	3	4	4	4
33	2000033	22D1CE7133	DURGA MADHAB PALAI	3	3	3	3	3
34	2000034	22D1CE7134	JAJATIKESHARI NAYAK	3	3	3	3	3
35	2000035	22D1CE7135	RAJALAXMI GUTAR	5	3	3	3	3
36	2000036	22D1CE7136	SAI SWARUP RADHAN	4	4	4	4	4
37	2000037	22D1CE7137	S SUBHAM PATRO	3	3	4	4	4
38	2000038	22D1CE7138	SOUBAVI KUMAR	3	3	4	4	4
39	2000039	22D1CE7139	SUBAS SAHOO	5	5	5	3	5
40	2000040	22D1CE7140	RAJESH KUMAR JENA	4	4	4	4	4
41	2000041	22D1CE7141	SAI JEEVAN	3	3	3	3	3
42	2000042	22D1CE7142	B SHIK BHUSAN MAHATABAY	3	3	4	4	4
43	2000043	22D1CE7143	ROSHAN MOHANTY	5	5	5	5	5
44	2000044	22D1CE7144	SAKHAWES HUSSEN	4	4	4	4	4
45	2000045	22D1CE7145	B BHAL MOHANTRA	5	5	5	5	5
46	2000046	22D1CE7146	SOMIT SONU MALLICK	3	3	3	3	3
47	2000047	22D1CE7147	ABHISHEK KUMAR NAYAK	5	1	3	3	4
48	2000048	22D1CE7148	M LADRISWARI DALEI	3	3	1	3	3
49	2000049	22D1CE7149	ANANA BHATTA	4	4	4	3	3
50	2000050	22D1CE7150	AVINYA RAJAK	3	3	3	4	5
51	2000051	22D1CE7151	KUNAL MURMU	3	1	3	3	4
52	2000052	22D1CE7152	AMAN RAY SAMANT	3	4	3	3	3
53	2000053	22D1CE7153	SHUBHANKAR SANGRAM SINGH	3	3	3	3	3
54	2000054	22D1CE7154	ADITYA FOREY	4	5	4	4	5
55	2000055	22D1CE7155	DHANESWARA HANSDAH	3	3	3	3	4
56	2000056	22D1CE7156	SAROJ KUMAR MAHATRA(	3	4	3	3	3
57	2000057	22D1CE7157	SURAJ KUMAR DAS	3	3	3	3	3
58	2000058	22D1CE7158	ASHISH BOHARIYA	3	3	3	3	1
59	2000059	22D1CE7159	RAHUL KUMAR MAJHI	3	3	4	3	3
60	2000060	22D1CE7160	ABHASH MISHRA	3	3	3	3	4
61	2000061	22D1CE7161	RAKIM RANJAN SAHOO	4	4	1	4	3
62	2000062	22D1CE7162	AKASH KUMAR BEHERA	3	3	3	3	3
63	2000063	21D1CE7163	SUBHASHREE NAYI	3	1	1	3	3

83	21055.30	21212E7105 SUKADEV SAHU	3	3	3	3	4
84	21055.31	21212E7107 JANMEJAY DASH	4	4	3	3	3
85	21055.32	21212E7108 KABIR SETHI	3	3	3	3	3
86	21055.33	21212E7109 VIPUL RAI	3	3	3	3	4
	AVERAGE		3.6046512	3.7272727	3.3	3.3	3.8372093
	PERCENTAGE		72.09	74.54	73.33	73.18	76.74



Section C: Course Effectiveness

Section C: Course Effectiveness (DA-Course Attributes)

SNo.	RollNo	PageNo.	Name	DA1	DA2	DA3	DA4	DA5	DA6	DA7
1	2055001	2001287468	ABINASH MAHAPATRA	5	5	5	5	5	5	5
2	2055002	2001287469	AKASH KUMAR	5	5	5	5	5	5	5
3	2055003	2001287470	ANKIT KUMAR DEHURY	4	4	4	4	4	4	4
4	2055004	2001287452	BANJANTHA BISWAL	5	5	4	5	5	5	5
5	2055005	2001287471	BIDHNESH KUMAR SAHU	4	5	5	5	5	5	5
6	2055006	2001287472	DHEERAJ MALLICK	4	5	5	5	5	5	5
7	2055007	2001287455	HARSHVAP KUMAR	5	5	5	5	5	5	5
8	2055008	2001287475	MANAS RANJAN NAYAK	5	5	5	5	5	5	5
9	2055009	2001287456	VIPLENDRA SWAIN	5	5	5	5	5	5	5
10	2055010	2001287474	RAHUL KUMAR PATRA	4	4	4	4	4	5	4

11	3080010	2021257465	SURYANKITA RAYCHOUDHURY	4	3	3	3	3	3	3
12	3080013	2021257467	TRIL NARAYAN BEHERA	4	3	3	3	3	3	3
13	3080014	2021257468	SUSHIL BAGYAN	5	5	5	5	5	5	5
14	3080015	2021257155	ABHIJIT RATHSHARMA	4	4	4	4	4	4	5
15	3080016	2021257158	ABHISEK PADHI	3	3	3	3	3	3	3
16	3080017	2021257160	ABINASH BHABANJIJA	4	5	5	5	5	5	5
17	3080018	2021257162	AJAY KUMAR	5	5	5	5	5	5	5
18	3080019	2021257164	AKLANTA BOHARATRA	4	4	4	4	4	3	4
19	3080020	2021257166	ANANDJ PRADHAN	3	3	3	3	3	3	3
20	3080021	2021257168	ANITA ITI HADAR BHAI SAHOO	3	3	3	3	3	3	3
21	3080022	2021257170	ANUJ KUMAR	5	5	3	1	5	5	5
22	3080023	2021257172	ARHANT KUMAR	3	3	3	3	3	3	3
23	3080024	2021257174	ASHUTOSH KUMAR PANDEY	4	4	4	4	4	4	4
24	3080025	2021257176	BIKASINI ORAM	3	3	3	3	3	3	3
25	3080026	2021257179	BISHAKHA PANDA	3	3	1	1	3	3	4
26	3080027	2021257180	CHANDAN KUMAR PATRO	5	5	5	5	5	5	5
27	3080028	2021257182	CHINMAY CHANDAN SAHOO	3	3	3	3	3	3	3
28	3080029	2021257184	DEBA PRASAD BEHERA	4	4	4	4	4	4	4
29	3080030	2021257185	DEBASHIS RANA	3	3	5	5	3	3	3
30	3080031	2021257188	DEBASHIS SAHOO	5	5	4	4	5	5	5
31	3080032	2021257190	DULI DEEPALI TUDU	3	3	4	4	3	3	3
32	3080033	2021257192	DURGA MADHAB PALAI	3	3	3	3	3	3	3
33	3080034	2021257194	JAJATIN GHAR NAYAK	5	5	5	5	5	5	5
34	3080035	2021257195	KALALAXMI SUTAR	5	3	5	5	3	3	3
35	3080036	2021257198	SAI SAMRUP PADHAN	4	4	4	4	3	4	4
36	3080037	2021257197	S SUBHAM PATRO	3	3	4	4	3	3	3
37	3080038	2021257199	SOURAV KUMAR	3	3	4	4	3	3	3
38	3080039	2021257150	SUMAN SAHOO	5	5	5	5	5	5	5
39	3080040	2021257200	RAJESH KUMAR JENA	4	4	4	4	4	5	4
40	3080041	2021257201	SAI JEEVAN	3	3	3	3	3	3	3
41	3080042	2021257202	BISWA BHUSAN MAHAKARAY	5	5	4	4	5	5	5
42	3080043	2021257203	ROSHAN MOHANTY	5	5	5	5	5	5	5
43	3080044	2021257204	SAKIA ANEESH UDDIN	4	4	4	4	3	4	4
44	3080045	2021257205	BISHAL MOHAPATRA	5	5	5	5	5	5	5
45	3080046	2021257206	SUMIT SOLU MALLICK	3	3	3	3	3	3	3

46	3060047	2021057227	ABHISHEK KUMAR NAYAK	3	1	3	4	3	3	1
47	3060048	2021057228	NILADRIBIHARI DALEI	1	1	0	3	1	1	0
48	3060049	2021057229	ANANNA BHATTA	4	4	3	3	4	4	4
49	3060050	2021057210	AMIYA MAJHI	1	1	4	5	1	1	1
50	3060051	2021057211	KUNAL MURMU	2	1	2	4	0	2	1
51	3060052	2021057212	ANNA RAY SAMANT	0	4	1	1	0	1	0
52	3060053	2021057213	SHUBHANKAR SANGRAM SINGH	1	1	0	0	1	1	0
53	3060054	2021057214	ADITYA POREY	4	0	4	0	0	4	4
54	3060055	2021057215	DHANESWARA HANSDAH	0	0	1	4	1	0	0
55	3060056	2021057216	SAROJ KUMAR MAHAPATRA (	0	4	0	0	0	1	4
56	3060057	2021057217	SURAJ KUMAR DAS	1	0	0	1	1	1	1
57	3060058	2021057218	ASHISH MOHARANA	1	1	2	1	4	1	1
58	3060059	2021057219	RAHUL KUMAR MAJHI	0	1	0	1	1	4	4
59	3060060	2021057220	ABINASH MISHRA	0	1	1	4	0	1	0
60	3060061	2021057221	RASHI RANJAN SAHOO	4	4	4	2	0	4	1
61	3060062	2021057222	AKASH KUMAR BEHERA	2	1	0	1	1	1	0
62	2155L29	2121057105	SUBHASHREE NAIK	1	1	0	0	0	1	0
63	2155L30	2121057106	SUKADEV SAHU	1	0	1	4	1	4	4
64	2155L31	2121057107	JANMEJAY DASH	4	4	1	1	0	1	0
65	2155L32	2121057108	HABIB SETHI	1	1	0	0	1	1	4
66	2155L33	2121057109	VIRAL RAJ	1	0	0	4	4	1	0
		Average		1.984848	1.727273	1.666667	1.666667	1.515152	1.666667	1.727273
		Percentage		79.69	74.54	73.15	75.00	75.00	73.62	75.74

Employer Survey

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

Alumni Survey:

Feedback is taken from alumni. The questionnaire/format in the alumni 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.
Indirect PO attainment = 40% of Current Student Feedback + 30% of Alumni Feedback + 30% of Employer Feedback.	Indirect PSO attainment = 40% of Current Student Feedback + 30% of Alumni Feedback + 30% of Employer Feedback.

Indirect PO attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
Current Student	2.55	2.21	2.19	2.19	2.09	2.09	2.44	2.28	2.90	2.27	2.08	2.29
Alumni	3.08	3.6	3.45	3.1	3.65	3.4	3.25	3.25	3.25	3.4	3.7	3.5
Employer	3.1	3.6	3.2	3.4	3.5	3.3	3.6	3.5	3	3.1	2.8	2.5
Current *0.4 + Alumni*0.3+ Employer * 0.3	3.015	3.044	2.947	2.87	2.951	2.886	3.06	2.941	2.875	2.856	2.59	2.716

Indirect PSO attainment

	PSO1	PSO2	PSO3
Current Student	2.99	2.95	2.91
Alumni	3.6	3.55	3.65
Employer	3	2.9	2.7
Current Student *0.4 +Alumni * 0.3 +Employer * 0.3	2.994	2.918	3.125

A Student Feedback Form is a valuable tool for collecting students opinions on courses, teaching methods, and overall learning experiences. It helps educators identify strengths, areas for improvement, and stu

Students feedback format

GITA Autonomous College, Bhubaneswar

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

Section C: Suggestions for Improvement

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

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

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

4. Any other comments or feedback:

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

Dean Academics
OTA Autonomous College, Bhubaneswar

Other feedback form formats

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredite

Employer Feedback Form for Assessment of Program Outcomes (POs) and Pr

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 f

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

Assessment of Program Outcomes (POs)

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

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Nee

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

Assessment of Program Specific Outcomes (PSOs)

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

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Nee

Sl. No.	Program Specific Outcome (PS
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.

3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.

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

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Alumni Feedback Form for Assessment of Program Outcomes (POs), Program Specific Outcomes

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 achieve

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 - Ban

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

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

Assessment of Program Specific Outcomes (PSOs)

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

(3 - Excellent, 2 - Very Good, 1 - Good, 2 - Satisfactory, 1 - Nee

Sl. No	Program Specific Outcome (PS
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.
3	To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.

Assessment of Program Educational Objectives (PEOs)

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

(3 - Excellent, 2 - Very Good, 1 - Good, 2 - Satisfactory, 1 - Nee

Sl. No	Program Educational Objectives (P
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 SITA Autonomous College, Bhubaneswar contributed to your professional growth?

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

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

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

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

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

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 student.

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

Assessment of Program Outcomes (POs)

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

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Poor

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

12	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning

Assessment of Program Specific Outcomes (PSOs)

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

(5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Poor

Sl. No	Program Specific Outcome (PSO
1	To empower the students to become practicing engineers so as to solve the global problems.
2	To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.
3	To empower the students to design and specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.

Additional Feedback

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

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

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

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

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

(Affiliated to BPUT, Odisha, Approved by AICTE, Accredite

Students' Satisfaction Survey (SSS)

Dear Student,

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

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

Section 1: Teaching-Learning and Academic Environment

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

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

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

Section 2: Infrastructure and Learning Resources

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

Section 3: Career Readiness and Placement Support

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

Section 4: Overall Satisfaction and Suggestions

1. How satisfied are you with the overall learning experience at SITA 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

3.3.2 Provide results of evaluation of each PO & PSO (05)

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6
Power Syst	2.48	2.47	2.48	2.48	2.47	2.45
Industrial P	2.54	2.53	2.53	2.53	2.53	2.54
Microproce	2.54	2.53	2.53	2.53	2.53	2.54
Analog Ele	2.54	2.53	2.53	2.53	2.53	2.54
Electromag	2.34	2.35	2.34	2.34	2.35	2.35
Engineering	2.48	2.48	2.47	2.47	2.50	2.11
Engineering	2.47	2.47	2.47	2.47	2.48	1.84
Basic Elect	2.47	2.49	2.47	2.42	0	0
Basics of C	2.47	2.48	2.48	2.42	2.48	0
Communica	2.47	2.44	2.44	2.48	2.48	0
Control Sys	2.53	2.54	2.53	2.53	2.53	0
Electrical M	2.55	2.55	2.54	2.55	2.55	0
Electrical M	2.55	2.53	2.53	2.52	2.57	0
High Voltag	2.51	2.52	2.51	2.54	2.55	0
Power Elec	2.54	2.55	2.53	2.54	2.54	0
Engineering	2.43	2.45	2.45	2.33	2.48	2.47
Engineering	2.48	2.42	2.48	2.27	0	0
Basics of M	2.43	2.44	2.48	2.33	0	0
Engineering	2.47	2.47	2.48	2.33	2.48	0
Programmi	2.43	2.47	2.48	2.33	2.48	2.45
Business o	2.43	2.47	2.48	2.33	0	2.45
Engineering	2.48	2.48	2.47	2.48	2.48	2.45
Environmer	2.47	0	0	0	0	2.45
Digital Elec	2.36	2.37	2.36	2.38	2.36	0
Electrical A	2.6	2.62	2.54	2.58	2.54	0
Power Syst	2.38	2.37	2.38	2.38	2.38	0
HVDC & FA	2.53	2.51	2.52	2.51	2.51	2.53
Electrical M	2.36	2.36	2.37	2.38	2.36	2.39
Communica	2.48	2.47	2.48	2.48	2.47	2.15
Power Elec	2.47	2.48	2.48	2.48	2.47	2.45

Data structu	2.48	2.2	2.5	2.4	0	0
Organizatio	2.5	2.2	2.2	2.5	2.5	0
Universal H	2.4	2.2	2.50	1.94	2.2	0
Engineering	2.5	2.47	2.50	2.50	2.2	1.94
Basic Electr	2.5	2.5	2.24	2.5	2.57	0
Constitution	2.94	2.47	2.36	0	0	0
Digital Sign	2.94	2.50	2.50	2.50	2.50	2.94
Electric Circ	0	2.50	2.48	0	0	0
Essence of	2.2	2.4	2.25	2.2	0	0
Environmen	2.4	2.25	2.50	2.33	2.33	0
Eng. Chem	2.29	2.4	2.38	2.50	0	0
Basic Electr	2.5	2.50	2.57	2.38	0	2.38
Basics of C	2.34	2.48	2.11	2.50	2.48	2.48
Engineering	2.50	2.34	2.15	2.94	2.37	2.34
English Lan	2.47	2.35	2.50	1.94	2.50	0
Eng. Physic	2.2	2.5	2.11	2.50	0	0
Basics of M	2.5	2.57	2.34	2.47	0	0
Workshop P	2.4	2.5	2.2	2.48	2.1	2.4
Programmin	2.50	2.50	2.48	2.47	2.11	0
Analog Ele	2.48	2.48	2.2	2.50	2.50	2.47
Data structu	2.50	2.50	2.44	2.38	2.38	2.48
Electrical M	2.50	2.47	2.50	2.38	2.11	2.48
Electrical M	2.48	2	0	2.28	2.38	2.48
Digital Elect	2.50	2.50	2.50	2.4	2.34	2.38
Mini Project	2	3	2.48	2.48	2.50	3
Electrical M	2.38	2.25	2.5	2.4	2.50	2.11
Control syst	2.38	2.50	2.11	1.94	2.47	2.38
Power elect	2.50	2.50	0	0	0	2.47
Microproces	2.38	2.38	2.11	2.50	2.5	2.5
Power syste	2.50	2.38	2.47	2.11	2.38	2.27
Seminar /	2.38	2.4	2.94	2.5	0	0
EC-Lab	2.48	2.38	2.11	2.50	2.50	2.34

Mini- PRO.	2.84	2.8	3	3	3	3
Basic Elect	2.84	2.85	2.82	2.84	2.4	2.25
Major PRO.	2.82	2.85	2.86	3	3	1
Advance Cr	2.72	2.71	2.73	2.72	2.7	3
Network Ha	2.42	2.4	2.4	2.37	2.56	3
Network Ha	2.12	2.12	1.92	2.12	1.68	3
Employabili	2.4	2.2	2.8	1.6	3	3
Employabili	2.8	3	3	1.8	2.4	3
Summer Int	3	3	2.8	2.4	2.4	1.8
Mini Project	3	3	3	3.2	2.4	1.8
Employabili	3	3.2	1.8	3	3	3
Mini Project	2.4	3	2.8	3	3	1.8
Employabili	1	2	2	2.8	1.8	3
Seminar-II	3	2.8	2.8	3	3	1.8
Comprehen	3	2.8	2.8	2.8	2.4	1.8
Grand Viva	2.8	2.8	2.4	2.8	3	2.8
Internship	3	3.2	1.8	2.4	2.8	2.47
IOT	2.47	2.48	2.47	2.48	2.49	2.48

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6
Student Sur	2.88	2.88	2.91	2.88	2.91	2.17
Employer S	2.16	1.92	2.04	2.16	2.04	2.16
Alumni Sur	2.47	2.43	2.51	2.31	2.04	2.1
ParentSurv	2.4	2.37	2.04	2.31	2.09	2.26

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5
InDirect Attainment	2.24	2.20	2.23	2.28	2.27
Direct Attainment	2.45	2.44	2.41	2.45	2.41

PSO Attainment

Course	PSO1	PSO2
Power System Protect	2.45	2.47

Industrial Process Con	2.83	2.83
Microprocessor and Mi	2.82	2.82
Analog Electronic circ	2.82	2.82
Electromagnetic Theor	2.35	2.35
Engineering Mathemat	2.46	2.47
Engineering Chemistry	2.88	2.88
Basics of Civil Enginee	2.47	2.46
Communicative Englis	2.47	2.49
Control System Engine	2.89	2.84
Electrical Machines-II	2.89	2.89
Electrical Measuremen	2.88	2.84
High Voltage Engineer	2.83	2.83
Power Electronics	2.85	2.84
Engineering Mathemat	2.46	2.83
Engineering Physics	3	3
Engineering Mathemat	2.46	2.46
Environmental Science	0	2.47
Digital Electronic Circu	2.37	2.37
Power System Operatio	2.42	2.41
Electrical Power Transi	2.82	2.87
HVDC &FACTS	2.89	2.83
Electrical Machines-I	2.37	2.38
Communication Engine	2.46	2.47
Power Station Enginee	2.48	2.47
Data structure using C	2.3	2.3
Organisational Behavio	2.8	2.47
Network theory	2.4	2.8
Universal Human Value	2.35	2.46
Engineering Economics	2.8	2.8
Basic Electrical Engine	2.47	2.39
Constitution of India	2.3	0
Digital Signal Processin	2.82	2.82
Electric Drives	3	2.33
Essence of Indian Kno	2.4	0

Entrepreneurship Deve	3	2.25
Eng. Chemistry Lab	1	1
Basic Electronics Engi	3	2.3
Basics of Civil Enginee	3	2
Major PROJECT	3.83	9
Minor PROJECT	2.11	2.24
ED-Lab	2.2	2.25
Seminar-I	2	2.35
Power system -Lab	2.25	2
Microprocessor and Int	3	2
Summer internship	3	9
Power electronics -Lab	2.25	2.35
Control system -Lab	2.25	2.47
Electrical Machines-II L	3	2.45
Mini Project-I	2.25	2.3
Digital Electronics Circ	2.35	2.35
Electrical Measurement	2.35	1
Electrical Machines-I	2.35	2.45
Data structure using C	2	2.25
Analog Electronic circ	2.2	1.84
Programming for Probl	2.25	3
Basics of Mechanical E	3	2.3
Basic Electrical Engine	2.25	2.25
Eng. Physics Lab	2.35	2
Advance Control Syste	2.72	2.71
Network theory Lab	2.72	1.68
Basic Electronics Engi	2.5	2.1
Basics of Mechanical E	2.45	2.45
Engineering mechanics	2.44	2.46
Programming for Probl	2.3	2.41
Business communicatio	2.45	2.45
Engineering Drawing-I	1	1.8
English Language Lab	1	1.7
Workshop Practice	1.8	2.1

Internship	3	3
Grand Viva	3	2.4
Seminar-II	2.4	2
Comprehensive Viva	1	1.2
Min Project-III	2.8	3
Employability Skill-IV	2.4	2
Min Project-II	2.8	3
Employability Skill-III	2	1
Employability Skill-II	2.2	2.4
Employability Skill I	1.8	2.4
IOT	2.46	2.47

PSO Attainment Indirect

Survey	PSO1	PSO2
Student Exit Survey	2.28	2.18
Employer Survey	1.8	2.1
Alumni Survey	2.54	2.45
Parent Survey	2.28	2.28

PSO Attainment Level

Courses
Direct Attainment
InDirect Attainment

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 (CAYm
Sanctioned intake of the program (N)	60	60	60	60	60	60	120
Total number of students admitted in that year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	45	51	49	53	51	52	45
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	5	4	5	5	4	5
Separate division students, if applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 +N3)	45	56	53	58	56	56	50

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)
2024-25 (SAY)	45
2023-24 (SAYm1)	56
2022-23 (SAYm2)	53
2021-22 (SAYm3)	58
2020-21 (UY0)	56
2019-20 (UY0m1)	56
2018-19 (UY0m2)	50

Table 4.3

Year of entry	Total No of students admitted in the program (M1 +M2 +M3)	
		1 year
2024-25 (DAY)	46	
2023-24 (DAYm1)	56	51
2022-23 (DAYm2)	53	48
2021-22 (DAYm3)	66	55
2020-21 (LYD)	66	51
2019-20 (LYDm1)	66	62
2018-19 (LYDm2)	66	48

4.1 Enrolment Ratio (20)

	N (From Table 4.1)	M (From Table 4.1)
2024-25 (DAY)	46	47
2023-24 (DAYm1)	65	51
2022-23 (DAYm2)	53	48

Average((51 + 62 + 48) / 3) : 53.33

Assessment : 15.33

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
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	60.00
Y Number of students who have graduated without backlogs in the stipulated period	60.00
Success Index [Z= Y / X]	0.94

Average SI [(SI1 + SI2 + SI3) / 3] : 0.80

Assessment [10 * Average SI] : 10.00

4.2.2 Success rate in stipulated period (5)

Item	Latest Year of
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	60.00
Y Number of students who have graduated in the stipulated period	60.00
Success Index [Z= Y / X]	1.00

Average SI [(SI1 + SI2 + SI3) / 3] : 1.00

Assessment [5 * Average SI] : 5.00

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	CAYm1 (2023-24)
Mean of CGPA or mean percentage of all successful students(X)	8.80
Total number of successful students (Y)	60.00
Total number of students appeared in the examination (Z)	60.00
API [X * (Y/Z)]	8.80

Average API [(API 1 + API2 + API3) / 3] : 8.40

Assessment [AverageAPI] : 8.40

4.4 Placement, Higher Studies and Entrepreneurship (20)

Item
Total No of Final Year Students(N)
No of students placed in the companies or goverment sector(X)
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)
No of students turned entrepreneur in engineering/technology (Z)
Placement Index [(X+Y+Z)/N] :

Average Placement [(P1 + P2 + P3)/3] : 0.00

Assessment [10 * Average Placement] : 25.00

Program Name : Electrical Engineering
Assessment Year : 2021-24 (CAYm1)

S.No	Student Name	Enrolment No
1	ABINASH MAHAPATRA	2021207468
2	AKASH KUMAR	2021207469
3	AMIT KUMAR DEHURY	2021207470
4	BAIKUNTHA BISWAL	2021207462
5	BISHWESH KUMAR SAHAL	2021207471
6	DHEERAJ MALLICK	2021207472
7	HARIHAR KUMAR	2021207463
8	IMRAN RAHMAN NAYAK	2021207473
9	KRUSANDAN SWAIN	2021207464
10	PANKAJ KUMAR PATRA	2021207474
11	SURYAKANTA PAYCHOUDHURY	2021207465
12	TPS NARAYAN BEHERA	2021207467
13	SUSHIL BHUYAN	2021207466
14	ABHIJIT RATHSHARMA	2021207168
15	ABHISEK PADHI	2021207158
16	ABINASH BASABANJUA	2021207159
17	AJAY KUMAR	2021207162
18	ANJANTA MOHANTRA	2021207164
19	ANKEV PRADHAN	2021207166
20	ANTA PRIYADARSHINI SAHOO	2021207160
21	ANUJ KUMAR	2021207170
22	ARIHANT KUMAR	2021207172
23	ABHUTOSH KUMAR PANDEY	2021207174
24	BIJAGNI ORAM	2021207176
25	BISHAKHA PANDA	2021207178
26	CHANDAN KUMAR PATRO	2021207169
27	CHIRANJIT CHANDAN SAHOO	2021207163
28	DEBA PRASAD BEHERA	2021207154
29	DEBASHIS RANA	2021207155
30	DEBASHIS SAHOO	2021207153
31	DULI DEEPALI TUDU	2021207165
32	DURGA MOHAN PALAI	2021207152
33	JAJATIKESHARI NAYAK	2021207154

34	RAJALAXMI SUTAR	2021207168
35	SA SHARUF RAZHAK	2021207169
36	S SUBHAM PATRO	2021207167
37	SOURAV KUMAR	2021207168
38	SUMAN SAHOO	2021207169
39	RAJESH KUMAR JENA	2021207205
40	SA JEEVAN	2021207201
41	B SIVA BHUSHAN MAHATARAY	2021207202
42	ROSHAN MOHANTY	2021207203
43	SAHA AWESHUDDIN	2021207204
44	B SHAL BOHUPATRA	2021207209
45	SOMIT SORU MALLICK	2021207206
46	ABHISHEK KUMAR PARIDA	2021207207
47	VIJAYBIHARI DALEI	2021207208
48	ANSHA BHATTA	2021207209
49	AJAYA BALAK	2021207210
50	KUNAL MURMU	2021207211
51	ANNA RAY SAMANT	2021207212

Assessment Year : 2022-23 (CAYm2)

S.No	Student Name	Enrollment No
1	AADITYA KUMAR	1801287577
2	AAVIYA MOHANTY	1801287578
3	AVISAL PRAVADEEPTA	1801287580
4	ABHISH RANJAN SHUKLA	1801287581
5	AVINASH PATTNAIK	1801287582
6	DHANANJAY PRAMANIK	1801287583
7	EJAZ AHMED KHAN	1801287584
8	GOUTAM MALIK	1801287585
9	HRITESH KUMAR	1801287586
10	IMANAS RANJAN BARIK	1801287587
11	MOHAMMAD ZAID OSMAN	1801287588
12	P CHANAKYA KUMAR	1801287589
13	ROHIT KUMAR MAHTO	1801287590
14	SAHIL SOURAV SAHU	1801287591
15	TAPASWINI SADKHI	1801287402
16	ABHISHEK SAHOO	1801287044
17	ADWAITA SAHU	1801287045
18	AMIT KUMAR BIDWAL	1801287046
19	ANUP KUMAR PANDA	1801287060
20	ARUNIMA GIRI	1801287062
21	ASHUTOSH PANDA	1801287064
22	AVINASH KUMAR	1801287066
23	BIJNATH BALAI	1801287068
24	BHAGABAT TARAK	1801287069
25	DILLIP HANSDAH	1801287074
26	DIPANJAN DASH	1801287076
27	DIPTANWEE SINGH	1801287078
28	SUBRATH KUMAR SAMAL	1801287079
29	SWAKSHYA PATTNAIK	1801287080
30	AVIKTA PRADHARSHINI	1801287081
31	ABHIJIT JAGADEV	1801287082
32	BHANUPRATAP SINGH	1801287084
33	AKASH HIRALAL RAUTDAS	1801287085

34	ASHIS KUMAR BEHERA	1801287068
35	ASHUTOSH BEHERA	1801287067
36	BHABAN SHANKAR PATI	1801287069
37	BIKASH KUMAR SWAIN	1801287089
38	CHIRANJIBI MISHRA	1801287083
39	DEEPAK SAMANTRAY	1801287091
40	KUMAR ABHISAK SUMAN	1801287092
41	PRATAP RANJAN MAHAPATRA	1801287093
42	PREETAM KUMAR ROUT	1801287094
43	SANTANU KUMAR MAJHI	1801287095
44	SOMNATH PATTANAIK	1801287096
45	SONALI PANDA	1801287097
46	SOUMYA RANJAN ROUL	1801287098
47	SUBHAKANTA NANDA	1801287099
48	SUBHAM SAHU	2021287081
49	SUBHASISU PALAI	2021287084
50	SUJIT DAS	2021287085

Assessment Year : 2021-22 (Online)

S.No	Student Name	Enrollment No
1	LAXMIDHAR BOHIDAR	1921287087
2	PRAKASH KUMAR SAHOO	1921287088
3	SHASHANKA SHEKHAR MALLICK	1921287084
4	SOUMYARANJAN BHOI	1921287089
5	PRAGATI RANJAN DALEI	1921287080
6	RABINDRA KUMAR JENA	1921287081
7	PRIYANKA TRIPATHY	1921287082
8	SACHIDANANDA PRADHAN	1921287087
9	SATYABRAT TRIPATHY	1921287083
10	SOURAV KUMAR CHUNNU	1921287085
11	SWASTIK PRADHAN	1921287070
12	UTSAV KUMAR JAISWAL	1921287071
13	VIDYA PRASAD	1921287072
14	ADITYA BISHRA	1921287073
15	ASHWIN MEHER	1921287074
16	SUNIL KUMAR SAHOO	1921287075
17	ANUP KUMAR NATH	1921287076
18	BIDAL KUMAR DHAN	1921287077
19	DEBASHIS GOSWAMY	1921287079
20	GYANENJAY ROUT	1921287081
21	AKHILESH RANJAN	1901287018
22	ANIL KUMAR RAVANI	1901287030
23	ANKIT BANSL	1901287038
24	ANUBHAB MISHRA	1901287043
25	ARIJIT MISHRA	1901287050
26	BISWAJIT DASH	1901287076
27	DEBADISH NAYAK	1901287091
28	GOPAL MUKHERJEE	1901287155
29	J P KAUSIK ROUT	1901287172
30	KAVITA PATEL	1901287105
31	KUMAR GAURAV RAJ	1901287190
32	N. SUNKUSHRAO	1901287165
33	PRAGYAPARAMITA MUND	1901287174

34	SHUBHAM KUMAR KESHRI	1921287045
35	SURYAKANTA NAYAK	1921287285
36	VIKASH KUMAR SHUKLA	1921287310
37	ABHISHEK SATPATHY	1921287049
38	ABINASH LENKA	1921287060
39	ANISH MALLICK	1921287061
40	BIDU MUNDARI	1921287052
41	BISWAJIT KOHARANA	1921287053

4.5 Professional Activities (20)

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

4.3.1. Professional societies/chapters and organizing engineering events

Sl No	Professional society/Chapter	Session
1	ELECTRA	2023-24
2	National Seminar on "Applications of Artificial Intelligence to Power Electronics Based Drives (NSAAIPED-2024)	2023-24
3	National Seminar on "Power Electronics Based Drives" (NSPED-2023)	2023-24
4	Institution of Engineers (India)	2023-24
5	ISTE	2023-24
6	ELECTRA	2022-23
7	National Seminar on "Industrial Automation" (NSIA-2022)	2022-23
8	Institution of Engineers (India)	2022-23
9	ISTE	2022-23
10	ELECTRA	2021-22
11	ISTE	2021-22
12	National conference on optimization and renovation of electric power system for overcoming global power crises (OEOGP -2021)	2021-22
13	ACTE (NODHOB	2021-22
14	Institution of Engineers (India)	2021-22

ISTE Institutional Membership:

The Indian Society for Technical Education admitted GITA as an Institutional Member in 2005. This helps the institute to improve the quality and relevance of technical education. By becoming the institutional member, the institute can benefit from vario

ISTE Student Chapter:

Starting Month/ Year: October 2005

The major objectives of the ISTE are:

1. Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
2. to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.
3. providing guidance and training to students to develop better learning skills and personality.

National Seminar on Applications of Artificial Intelligence to Power Electronics Based Drives (NSAAIPED 2024):

The Department of Electrical Engineering (GITA Autonomous College, BHUBANESWAR) conducted a National Seminar on "Applications of Artificial Intelligence to Power Electronics Based Drives (NSAAIPED-2024)"from 6.9.2024 to 14.9.2024 Hon'ble Department Head, Dr. Soraja Kumar Dash introduced the guests and briefed about the importance of the Seminar. The meeting was attended by Hon'ble Chairman, Principal, Vice Principal, DOA, Director T and P, HOD, EEE & Dean Administration who g the vote of thanks was offered by Dr. S.C. Mohapatra, Vice Principal GITA Autonomous College.

DEOSP-2021

The objective of the AICTE sponsored DEOSP-2021 (optimization and relaxation of electric power system for overcoming global power crisis) conference is to elaborate on the influence of energy policy instruments on the promotion of solar thermal, effective policy instruments are discussed. Moreover, the existing Indian policy instruments for ST market deployment are elaborated, and successful policy instruments in other Asian countries are studied. Policy instruments in India are limited and mo the targets set by India, thus promoting sustainable energy behaviour.

4.3.2 Publication of technical magazines, newsletters, etc. (3)

Publication of technical magazines, newsletters, etc.

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

Year	Publication	Chief Editor	Publisher
2023-24	Electro Vision	Dr. S.K. Dash	SITM Autonomous College
2022-23	Electro Vision	Dr. S.K. Dash	SITM Autonomous College
2021-22	Electro Vision	Dr. S.K. Dash	SITM Autonomous College

4.3.3 Participation in inter-institute events by students of the program of study (12)

4.3.3. Participation in inter-institute events by students of the program of study

Inter Institute Events by Students of EE

Sl. No	Name of the Student	Branch	Achievements	Institution/ Organization	Session
1	AJAY KUMAR PANDIT	EE	2nd prize for paper presentation in the international conference in Renewable energy integration in to smart grid : A multi-disciplinary approach to technology modelling and simulation	CUTICE ,Bhubaneswar	2023-24
2	DANGUR,OHA N SOREN	EE	2nd prize in paper presentation in the Symposium on Power Electronics and control (POPECO-2024	VIT Bhubaneswar	2023-24
3	ABIT MOHANTY	EE	International conference on Automation, Signal processing, Instrumentation and Control	VIT,Vellore,	2023-24
4	NITISH KUMAR		2ND Prize in InSPC-2024	SIET, Bhubaneswar	2023-24
5	RAJASHREE NAYI		1st prize in Paper Presentation in national seminar on (RSVS-2024)	SIET, Bhubaneswar	2023-24
6	CHINMAYA SAHOO		2ND prize for paper presentation in national seminar on (PSVS-2024)	EAST, Bhubaneswar	2023-24
7	PIYUSH KUMAR NAYAK		2nd prize for paper presentation in the national conference on Smartgrid technology	SOA(University Bhubaneswar	2023-24
8	PRASANTA KUMAR PRADHAN		1st prize for paper presentation in the national seminar on ASAIL	SIET Bhubaneswar	2023-24

9	P CHINMAYA KUMAR	EE	2nd prize for paper presentation in the national seminar on power system optimization involving softcomputing techniques	SIET, Sunabeda	2022-23
10	BODI SAGAR	EE	2nd prize for paper presentation in the national seminar on industrial automation involving powerelectronic based drives	SEC, Bhubaneswar	2022-23
11	SARO KUMAR DAS	EE	2nd prize for paper presentation in the national seminar on AI&ML	GIFT Bhubaneswar	2022-23
12	SAHU, SOURAV SAHU	EE	2ND Prize in paper presentation in the national seminar Industrial Automation(IGDA-2023)	KIIT, Bhubaneswar	2022-23
13	SUKADEV SAH U	EE	1ST prize for paper presentation in the TEQIP-III sponsored national seminar RAIDEA 2022	SITM, Bhubaneswar	2022-23
14	HABIB SETH	EE	2nd prize for paper presentation in the national conference on Smartgrid technology	SOA University, Bhubaneswar	2022-23
15	ADITYA PEREY	EE	2nd prize for paper presentation in the national conference on smart energy generation technicques	KIIT, Bhubaneswar	2022-23
16	N LAKHMIHARI DAURI	EE	2nd prize for paper presentation in the national conference on energy generation from waste	KIIT, Bhubaneswar	2021-22

17	MANAS RANJAN BARIK	BE	2ND prize for paper presentation in the departmental co-curricular event 'Electrovision 2022'	DEC, Bhubaneswar	2021-22
18	SUMIT KUMAR MEHETA	BE	2ND Prize in IUPP-2021	DIET, Bhubaneswar	2021-22
19	TARASHINI BADAIK	BE	1st prize in Paper Presentation in national seminar on (PSVS-2021)	DIET, Bhubaneswar	2021-22
20	ABHIJIT JAGADEV	BE	3RD prize for paper presentation in national seminar on (PSVS-2021)	DIET, Bhubaneswar	2021-22
21	BHAGUPRATA P SWAIN	BE	2nd prize in paper presentation in student colloquium-2021	IIT, Bhubaneswar	2021-22

4.2.3.1. Participation in national/international competitions/events by students of the program of study

Academic Year: 2023-24

Sl. No.	Name of the student	Organised college	Tournament	Result
01	ANIT MOHANTY	GIET Gunupur	SENTAPO 2024 (Badminton)	Runners up trophy & Cash prize
02	ASHIS DAHA	GIFT,BBSR	FESTRONIX 2024(Long jump)	3rd Prize
03	DAIBURUDHAR SOREN	GITA,BBSR	AHVAAN 2024(Tennis)	Runners up trophy & Cash prize
04	SAROJ KUMAR DAS	GUTM,BBSR	University Sports Council(Cricket)	Winner & Cash prize
05	SAI ASWINI MOHANTY	IIIT,Srikakulam	IIIT Inter College Sports meet(Cricket)	Man Of the Match & Cash Prize
06	DHANANJAYA SAHOO	CET,BBSR	CET Inter college Sports Meet(Volly Ball)	Runners up & Cash prize
07	NITISH KUMAR	RIEC,BBSR	RIEC Inter college Sports Meet(Badminton	Winner & Cash prize
08	RAJASHREE NAIK	SOA UNIV ,BBSR	SOA Annual Sport [2024](Badminton)	Runners up & Cash prize

Academic Year: 2020-21

Sl. No.	Name of the student	Organised college	Tournament	Result
01	NITISH KUMAR	VSSUT,Burla	Inter university Sports Meet(Cricket)	Runners up trophy & Cash prize
02	SANTOSHASUP MALLICK	SOA,BBSR	Inter University Sports Feet(Volybal)	2nd Prize
03	AMIYA MAJHI	SIT,BBSR	Inter College Sports Meet(Cricket)	Winner & Cash prize
04	ABINASH MISHRA	CUTM,BBSR	University Sports Council(Cricket)	Winner & Cash prize
05	RAJESH SOUDA	IGIT,Sarang	IGIT-Inter College Sports meet(Cricket)	Man Of the Match & Cash Prize
06	RASMI RANJAN SAHOO	CET,BBSR	CET-Inter college Sports Meet(Vely Ball)	Runners up & Cash prize
07	VILADR(BHAR) DALEI	REC,BBSR	REC Inter college Sports Meet(Badminton	Winner & Cash prize

Academic Year: 2021-22

Name of the student	Organised college	Tournament	Result
SAUVIATH SAUVI	BPUT,RKL	BPUT Inter University sports meet	Winner & Cash prize
DINANJAN DASH	NIST,Berahmpur	Inter College Sports Meet(Cricket)	Winner & Cash prize
SAMIKSHYA SATTVIKI	KIIT,BBSR	Inter College Sports Meet(Cricket)	Runners up & Cash prize
RASMIRANJAN SAHOO	CVRC,BBSR	Volyeball 2021(Shuffle)	Winner & Cash prize
VILADR(BHAR) DALEI	KIIT,BBSR	KIIT Fest 2021(Javelin)	2ND place & Cash Prize
ABHISHEK SAHOO	CET,BBSR	ATHSY 2021(Chess)	Winner & Cash prize

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 P
1	BABOI KUMAR DASH	ADWPD8123Q	MB.W. Tech and PhD	14/07/2008	POWER SYSTEM ENGINEERING	11	6	0
2	PRADEEP KUMAR ROUTRAY	AAFPR7160E	MB.W. Tech and PhD	16/05/2015	POWER SYSTEM ENGINEERING	1	0	0
3	BIBHUDATTA PANIGRAHY	APVPP1521J	MB.W. Tech and PhD	28/04/2018	POWER SYSTEM ENGINEERING	0	0	0
4	CHITTA RANJAN BEHERA	AMJPB0287E	MB.W. Tech and PhD	08/11/2018	POWER SYSTEM ENGINEERING	2	0	0
5	SANJUKTA NAYAK	ADRPN0636K	MB.W. Tech and PhD	26/04/2018	POWER SYSTEM ENGINEERING	1	0	0
6	SAMAGRANGHU DAS	AFDPD4777N	MB.W. Tech and PhD	13/07/2015	POWER SYSTEM ENGINEERING	4	1	0
7	PRIYADARSINI PRADHAN	AOVPP8019Q	MB.W. Tech and PhD	05/07/2018	POWER SYSTEM ENGINEERING	4	0	0
8	RABI NARAYAN ROUT	AKDPR1404K	MB.W. Tech and PhD	05/07/2018	POWER SYSTEM ENGINEERING	2	0	0
9	SUREHDRA PATTANAIK	BMJPP0965P	MB.W. Tech and PhD	16/07/2020	POWER ELECTRONICS	1	0	0
10	SMITA MISHRA	AROPM0861D	MB.W. Tech and PhD	13/07/2015	COMMUNICATION ENGINEERING	2	0	0
11	SUJIT KHAMARI	AKEPK3081N	M.E/M.Tech	16/05/2012	POWER SYSTEM ENGINEERING	3	0	0
12	SURAJ RANJAN BISWAL	ALVPB2487C	M.E/M.Tech	11/08/2012	POWER SYSTEM ENGINEERING	3	0	0
13	TANVIA KUMAR	AYBPK7771M	M.E/M.Tech	27/06/2017	POWER SYSTEM ENGINEERING	1	0	0
14	BIKHENDRA KUMAR MOHANTY	CDEPM7216D	M.E/M.Tech	16/06/2012	POWER SYSTEM ENGINEERING	1	0	0
15	SOFIA SWEETLIN	BHSPS9452K	M.E/M.Tech	24/05/2015	POWER SYSTEM ENGINEERING	1	0	0
16	DHANAY KUMAR PANDA	BPPPP0758H	M.E/M.Tech	06/05/2015	POWER SYSTEM ENGINEERING	1	0	0
17	PRADOSH KUMAR KHUNTIA	BHYPK8710H	M.E/M.Tech	28/06/2013	POWER SYSTEM ENGINEERING	1	0	0
18	SUSHREE DEBASMITA MOHAPATRA	CBDPM1943E	M.E/M.Tech	06/06/2016	POWER SYSTEM ENGINEERING	1	0	0
19	SUBHASHREE OJHA	AUSPO7080F	M.E/M.Tech	24/06/2016	POWER SYSTEM ENGINEERING	1	0	0
20	PRAFULLA KUMAR PARIDA	ADVPP3776D	M.E/M.Tech	13/06/2012	POWER SYSTEM ENGINEERING	0	0	0
21	KUMARES ROUT	ALXPR3048N	M.E/M.Tech	16/06/2008	POWER SYSTEM ENGINEERING	0	0	0
22	AMIT BHADWAJ	BTWPB1611L	M.E/M.Tech	24/06/2016	POWER SYSTEM ENGINEERING	0	0	0
23	BASAN BIHARI BISWAL	BVSPB7580B	M.E/M.Tech	24/06/2016	POWER SYSTEM ENGINEERING	0	0	0
24	MONALISA SAHOO	BBUPS7304B	M.E/M.Tech	06/05/2015	POWER SYSTEM ENGINEERING	1	0	0
25	SOUMYA PATTANAIK	BKPPP0490D	M.E/M.Tech	24/06/2016	POWER SYSTEM ENGINEERING	0	0	0
26	ATANBHU DAS	AGSPD0832D	MB.W. Tech and PhD	01/07/2020	POWER SYSTEM ENGINEERING	0	0	0
27	SANGRAM KESARI NAYAK	AJGPN0630F	MB.W. Tech and PhD	01/07/2020	POWER SYSTEM ENGINEERING	4	0	0
28	AYESHA RAFIQUE	AVUPR8024J	M.E/M.Tech	24/06/2016	POWER SYSTEM ENGINEERING	0	0	0
29	BANALATA PRIYADARSHANI DEO	DVHPD0590Q	MB.W. Tech and PhD	13/06/2022	POWER SYSTEM ENGINEERING	2	0	0
30	JYOTISHMAYAN PATTANAYAK	DYCPP0941Q	M.E/M.Tech	12/06/2018	POWER SYSTEM ENGINEERING	1	0	0
31	DILLIP KUMAR MANDAL	AFLPM4089H	M.E/M.Tech	12/06/2018	POWER SYSTEM ENGINEERING	1	0	0
32	ABHISH RANJAN	DRJPR6186K	M.E/M.Tech	24/07/2020	POWER SYSTEM ENGINEERING	1	0	0
33	VISHAL KUMAR SAH	GJNPS7552C	M.E/M.Tech	24/07/2020	POWER SYSTEM ENGINEERING	1	0	0

34	SIDDHARTHA BEHERA	PAUPB3951H	M.E/M.Tech	08/01/2019	POWER ELECTRONICS	1	0	0
35	SANTANU SAHOO	CDLPS4141E	M.E/M.Tech	09/10/2024	POWER SYSTEM ENGINEERING	1	0	0
36	BHABANI SHANKAR RAZ	FTUPR0757Q	M.E/M.Tech	09/10/2023	POWER SYSTEM ENGINEERING	1	0	0
37	SHIBA KUMAR ACHARYA	AHYPA6837H	MB.M. Tech and PhD	08/11/2018	POWER CONTROL AND DRIVES	2	1	0
38	SURYA NARAYAN MOHANTY	APWPM2632R	M.E/M.Tech	16/09/2010	POWER ELECTRONICS	3	0	0
39	SANORAM RANJAN NOH	CAHPR4235N	M.E/M.Tech	27/09/2017	POWER SYSTEM ENGINEERING	1	0	0

3.1 Student-Faculty Ratio (SFR) (20)

UG

No. of UG Programs in the Department: 1

Year of Study	CAY (2024-25)			
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admit
2nd Year	60	6	60	4
3rd Year	60	4	60	6
4th Year	60	0	60	5
Sub-Total	180	10	180	15
Total	180		180	
Grand Total	190		195	

PG

No. of PG Programs in the Department: 1

Year of Study	CAY (2024-25)	
	Sanction Intake	
1st Year	18	18
2nd Year	18	18
Total	36	36
Grand Total	36	36

SFR

No. of UG Programs in the Department: 1

No. of PG Programs in the Department: 1

Description	CAY (2024-25)		CAY-1 (2023-24)
Total No. of Students in the Department(S)	231	Sum total of all (UG+PG) students	231
No. of Faculty in the Department(F)	16	FT	16
Student Faculty Ratio(SFR)	14.44	SFR=S/FT	14.44
Average SFR	14.75	SFR=(SFR1+SFR2+SFR3)/3	

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

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (along-away with the terminology of visiting/adjunct faculty, wherever/ever) who have taught for 3 consecutive semesters in the corresponding

1. Shall have the AICTE prescribed qualifications and experience.

2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.

3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

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

	Total number of regular faculty in the department
DAY(2024-25)	15
DAYm1(2023-24)	15
DAYm2(2022-23)	15

Average SFR for three assessment years : 14.78

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20)

Year	Professors		
	Required Fr	Available	Required F
DAY(2024-25)	1.00	4.00	2.00
DAYm1(2023-24)	1.00	4.00	2.00
DAYm2(2022-23)	1.00	4.00	2.00
Average Numbers	1.00	4.00	2.00

Cadre Ratio Marks [(AP1 / RP1) + (AP2 / RP2) * 0.6] + [(AP3 / RP3) * 0.4] * 10 = 20.00

5.3 Faculty Qualification (30)

	X	Y	P
2024-25(SAY)	12	4	11.00
2023-24(CAYm1)	12	3	11.00
2022-23(CAYm2)	11	5	11.00

Average Assessment : 24.12

3.4 Faculty Retention (10)

Description	2023-24 (CAYm1)
No of Faculty Retained	10
Total No of Faculty	11
% of Faculty Retained	100

Average : 132.00

Assessment Marks : 10.00

3.5 Faculty competencies in correlation to Program Specific Criteria (15)

The competency and proficiency of faculty members is assessed based on their academic qualifications, specialized training, certifications, accomplishments, and research publications. They utilize their subject expertise to guide students in enrich their knowledge by publishing research in reputed journals and offering their expertise to industries through consultancy services. Faculty competency is measured based on their excellence in following the key areas / program specific areas

S.NO	PROGRAM SPECIFIC CRITERIA	NAME OF THE FACULTY	FACULTY COMPETENCY ATTAINED THROUGH
1.	Basic Electrical	Prof. Chitta Ranjan Behera	Developed E-Content, Lab Manual, Question Bank For Basic Electrical Engineering Course, Attended Many FDPs Related To The Course
		Prof. Priyadarsini Pradhan	Developed E-Content, Lab Manual, Question Bank For Basic Electrical Engineering Course, Attended Many FDPs Related To The Course
		Prof. Rabi Narayan Rout	Developed E-Content, Lab Manual, Question Bank For Basic Electrical Engineering Course, Attended Many FDPs Related To The Course
		Prof. Amrabtu Das	Developed E-Content, Lab Manual, Question Bank For Basic Electrical Engineering Course, Attended Many FDPs Related To The Course
2.	Network Device	Prof. Saroj Kumar Dash	Developed E-Content, Lab Manual, Question Bank For Network Device Course, Attended Many FDPs Related To The Course
		Prof. Priyadarsini Pradhan	Developed E-Content, Lab Manual, Question Bank For Network Device Course, Attended Many FDPs Related To The Course
		Prof. Banalata Priyadarshani Das	Developed E-Content, Lab Manual, Question Bank For Network Device Course, Attended Many FDPs Related To The Course
3.	Analogue Electronics	Prof. Sangram Keshari Nayak	Developed E-Content, Lab Manual, Question Bank For Analogue Electronics Course, Attended Many FDPs Related To The Course
		Prof. Sahasramshu Das	Developed E-Content, Lab Manual, Question Bank For Analogue Electronics Course, Attended Many FDPs Related To The Course
		Prof. Surya Narayan Mohanty	Developed E-Content, Lab Manual, Question Bank For Analogue Electronics Course, Attended Many FDPs Related To The Course

4.	Digital Electronics	Prof. Sanji Kumar Dash	Developed E-Content: Lab Manual, Question Bank For Digital Electronics Course, Attended/Many PDPs Related To The Course
		Prof. Sanjoka Nayak	Developed E-Content: Lab Manual, Question Bank For Digital Electronics Course, Attended/Many PDPs Related To The Course
		Prof. Bhabani Shankar Mnc	Developed E-Content: Lab Manual, Question Bank For Digital Electronics Course, Attended/Many PDPs Related To The Course
5.	Electrical Measurement	Prof. Sangram Keshari Nayak	Developed E-Content: Lab Manual, Question Bank For Electrical Measurement Course, Attended/Many PDPs Related To The Course
		Prof. Bibhudatta Pattanay	Developed E-Content: Lab Manual, Question Bank For Electrical Measurement Course, Attended/Many PDPs Related To The Course
		Prof. Sasikant Sahoo	Developed E-Content: Lab Manual, Question Bank For Electrical Measurement Course, Attended/Many PDPs Related To The Course
6.	Electrical Machine	Prof. Shiba Kumar Acharya	Developed E-Content: Lab Manual, Question Bank For Electrical Machine Course, Attended/Many PDPs Related To The Course
		Prof. Bibhudatta Pattanay	Developed E-Content: Lab Manual, Question Bank For Electrical Machine Course, Attended/Many PDPs Related To The Course
		Prof. Sangram Ranasingh	Developed E-Content: Lab Manual, Question Bank For Electrical Machine Course, Attended/Many PDPs Related To The Course

7.	Power Electronics	Prof. Bibhudatta Pattanayak	Developed E-Content, Lab Manual, Question Bank For Power Electronics Course, Attended Many FDPs Related To The Course
		Prof. Rabi Narayan Rout	Developed E-Content, Lab Manual, Question Bank For Power Electronics Course, Attended Many FDPs Related To The Course
		Prof. Siddhartha Behera	Developed E-Content, Lab Manual, Question Bank For Power Electronics Course, Attended Many FDPs Related To The Course
8.	Control System	Prof. Priyadarsini Padhan	Developed E-Content, Lab Manual, Question Bank For Control System Course, Attended Many FDPs Related To The Course
		Prof. Rabi Narayan Rout	Developed E-Content, Lab Manual, Question Bank For Control System Course, Attended Many FDPs Related To The Course
		Prof. Sabikan Sahoo	Developed E-Content, Lab Manual, Question Bank For Control System Course, Attended Many FDPs Related To The Course
9.	Power System	Prof. Saroj Kumar Dash	Developed E-Content, Lab Manual, Question Bank For Power System Course, Attended Many FDPs Related To The Course
		Prof. Priyadarsini Padhan	Developed E-Content, Lab Manual, Question Bank For Power System Course, Attended Many FDPs Related To The Course
		Prof. Siddhartha Behera	Developed E-Content, Lab Manual, Question Bank For Power System Course, Attended Many FDPs Related To The Course

10	Electric Drives	Prof. Rabi Narayan Rout	Developed E-Content, Lab Manual, Question Bank For Electric Drives Course, Attended Many FDPs Related To The Course
		Prof. Bibhudatta Sahoo	Developed E-Content, Lab Manual, Question Bank For Electric Drives Course, Attended Many FDPs Related To The Course
		Prof. Saheesnnitv Das	Developed E-Content, Lab Manual, Question Bank For Electric Drives Course, Attended Many FDPs Related To The Course

Faculty Name	Qualification	Area of Specialization	Relevant Courses Taught	Industry/ Research / Teaching Experience (Years)	Competency Level (Beginner/ Intermediate/ Advanced)	Alignment with Program Specific Criteria (IEEE/IE/ AICTE)
SWAGATIKA PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
SWAPNA SUBHADARSHINI PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
SWARNAPRAVA PATTNAIK	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TANMAYA KUMAR SWAIN	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TANUJA PATTANAIK	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TANUSREE PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TAPAS KUMAR PANIGRAHI	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TAPASWINI PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TARUN KUMAR PATRA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TEJASWINI PATTNAIK	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
TUSHAR KANTI BEHERA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
UMESH CHANDRA PATI	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
UPASANA PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
VAISHALI RAJ	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
VIKASH KUMAR GUPTA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
VIKRAM KESHARI	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
VISHAL KUMAR	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
YASHASWINI PANDA	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
YOGESH KUMAR SAHU	MTECH	Power System Engineering	Power System Protection, Power System Operation and Control, Power System Analysis	2	Intermediate	Meets AICTE & IEEE Power Systems Requirements
SAROJ KUMAR DASH	MTECH, Tech and PhD	Power System Engineering	Power System Analysis, Network Theory, Advance Control System	23	Advanced	Meets AICTE & IEEE Power Systems Requirements
PRADEEP KUMAR ROUTRAY	MTECH, Tech and PhD	Power System Engineering & Management	Entrepreneurship Development, Project Management	18	Advanced	Meets AICTE requirements for Power Systems Requirements and Management Studies
SHIBA KUMAR ACHARYA	MTECH, Tech and PhD	Power Control And Drives	Electrical Machines, Power System Protection	13	Advanced	Meets AICTE & IEEE Power Systems Requirements
CHITTA RANJAN BEHERA	MTECH, Tech and PhD	Power System Engineering	Basic Electrical Engineering, Soft computing, High Voltage DC Transmission Systems	28	Advanced	Meets AICTE & IEEE Power Systems Requirements
SAMAGRAMS HU DAS	MTECH, Tech and PhD	Power System Engineering	Electrical Power Transmission & Distribution	24	Advanced	Meets AICTE & IEEE Power Systems Requirements

BIBHUDATTA PARADKAR	M.E/M. Tech and PhD	Power System Engineering	Power Electronics, Electrical Machine, Electrical Measurement and Measuring Instrument	21	Advanced	Fulfils AICTE & IEEE Criteria for Drives and Converters, Electrical Machines & Measurement.
PRIYADARSINI PRADHAN	M.E/M. Tech and PhD	Power System Engineering	Control System Engineering, Basic Electrical Engineering	21	Advanced	Aligns with AICTE Criteria for Control Systems.
RABI NARAYAN ROUT	M.E/M. Tech and PhD	Power System Engineering	Electric Drives, Basic Electrical Engineering	21	Advanced	Fulfils AICTE & IEEE Criteria for Drives and Converters.
SANJUKTA NAYAK	M.E/M. Tech and PhD	Power System Engineering	Digital Electronics Circuit	15	Advanced	Fulfils AICTE & IEEE Criteria for Electronics Circuits.
ATMABHU DAS	M.E/M. Tech and PhD	Power System Engineering	Digital Signal Processing, Industrial Power Control and Drives	15	Advanced	Meets AICTE Requirements for Signal processing and Industrial Control Devices.
SHIVSHAKTI KESHARI NAYAK	M.E/M. Tech and PhD	Power System Engineering	Microprocessor and Micro Controller, Analog Electronics and Circuits	14	Advanced	Meets AICTE Requirements for Microprocessor and Electronics circuits
SANJUKTA PRIYADARSHANI DEO	M.E/M. Tech	Power System Engineering	Electrical Measurement and Measuring Instrument	10	Intermediate	Meets AICTE Requirements for Instruments and Measurement.
SIDDHARTHA BEHERA	M.E/M. Tech	Power System Engineering	High Voltage Engineering	10	Intermediate	Meets AICTE & IEEE Power Systems Requirements
SANTANAT SAHOO	M.E/M. Tech	Power System Engineering	Power station Engineering	10	Intermediate	Meets AICTE & IEEE Power Systems Requirements

BHABANI SHANKAR MINZ	M.E/M.Tech	Power System Engineering	Renewable Energy Systems	10	Intermediate	Supports AICTE & IEEE Smart Grid & Renewable Energy Criteria
SURYA NARAYAN MOHANTY	M.E/M.Tech	Power Electronics	Smart Grid	15	Advanced	Supports AICTE & IEEE Smart Grid & Renewable Energy Criteria
SWORNAV PANASIYOH	M.E/M.Tech	Power System Engineering	Communication Engineering, Sensors and Transducers	10	Intermediate	Meets AICTE & IEEE Power Systems Requirements

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

Faculty members of the department follows innovative teaching methodologies in the class room in addition to the conventional methods like chalk duster method, sharing learning materials and question answer session in every class. These innovativ

- Faculties are using methods like role play, brainstorming etc. to explain students complex topics and algorithms.
- Experts from industry and reputed institution have been invited to teach the students in specialized areas.
- Faculty members involve the students to an online learning mode through google classrooms and conduct analytical quiz through Google forms.
- Simulation based learning for theoretical concepts and use of latest tools
- Students are exposed to latest developments through regular industrial visit
- Faculty encourage the use of community websites like Github, Open source software etc. while carrying out student projects
- Students are encouraged to carry out the research based projects which leads to the publication
- Students and faculties are encouraged to take up courses provided by coursera
- Flipped Classroom Approach – Faculty members adopt flipped learning, where students review lecture materials before class, allowing in-class time for discussions, problem-solving, and hands-on activities.
- Project-Based Learning (PBL) – Real-world projects and case studies are integrated into the curriculum to enhance problem-solving skills and encourage creativity among students.
- Gamification and Interactive Learning – The use of coding challenges, hackathons, and game-based learning tools like Kahoot!, Code Combat, and Learn Code Karate boosts student engagement and motivation.
- AI and Adaptive Learning Systems – AI-powered platforms and intelligent tutoring systems are used to provide personalized learning experiences, identifying areas where students need more support.
- Industry Collaboration– Partnerships with tech companies help faculty integrate real-world case studies, guest lectures, and mentorship programs into the curriculum.
- MOOCs and Blended Learning – Faculty members leverage online courses from platforms like NPTEL Coursera, edX, and Udemy to supplement traditional classroom instruction.
- Cloud-Based Labs and Virtual Machines – Remote labs allow students to practice programming, networking, and cybersecurity exercises without requiring physical infrastructure.
- Cross-Disciplinary and Research-Oriented Learning – Encouraging students to work on interdisciplinary projects that combine AI, IoT, and data science fosters research-oriented learning.
- Assessment Innovations – The use of online coding assessments, peer reviews etc. are most criteria are used for fair and efficient evaluation of student progress.

GITA MODEL FOR IDEAL TEACHING

These innovative teaching strategies help create a dynamic and effective learning environment, preparing students for the rapidly evolving field of computer science

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

Name of the faculty	Wei 3 Per Faculty		
	2023-24(CAYm=)	2022-23(CAYm2)	2021-22(CAYm3)
SAROJ KUMAR DASH	4.00	4.00	3.00
PRADEEP KUMAR RAUTRAY	3.00	3.00	2.00
BHISA KUMAR ACHARYA	4.00	3.00	3.00
BANABIHARI PU DAS	3.00	4.00	3.00
CHITTARANJAN BEHERA	4.00	4.00	3.00
BIBHUDATTA PANIGRAY	4.00	4.00	3.00
PRIYADARSINI PRADHAN	4.00	3.00	3.00
RABINARAYAN ROUT	4.00	4.00	3.00
SANJUKTA NAYAK	3.00	3.00	3.00
ATANBHU DAS	4.00	3.00	3.00
SANGRAM KESHARI NAYAK	4.00	4.00	3.00
BANALATA PRIYADARSHAN DEO	3.00	2.00	2.00
SIDDHARTHA BEHERA	4.00	1.00	1.00
SANTANAYA SAHOO	4.00	1.00	1.00
SHAGAN SHANKAR MINZ	4.00	1.00	1.00
SURYA NARAYAN MOHANTY	4.00	3.00	3.00
SANGRAM PANIGRAHI	4.00	3.00	2.00
Sum	54.00	50.00	42.00
SF = Number of Faculty required to comply with 20:1 Student:Faculty Ratioas per 6.1	11.00	11.00	11.00
Assessment=[21Sum / 0.5SF)]	24.91	21.27	22.91

Average assessment over 3 years : 15.00

3.5 Research and Development (75)

3.6.1 Academic Research (2)

Sl.No.	Author(s) Name	Title of Publication	Journal Name	Volume, Issue and page No.	Year of publication	DOI	Scop SCI/
Research Papers: 2023							
1	Prof.(Dr.) Sanjiv Kumar Dash	Bell-Shaped Fuzzy Decision Tree: A Novel Approach for Improved Decision Making	IJKTSS	Accepted	2023	https://ascentejournals.org/PaperDirectory/Journal/IJKTSS/2023/1/0.pdf (https://ascentejournals.org/PaperDirectory/Journal/IJKTSS/2023/1/0.pdf)	Scop.
Research Papers: 2024							
1	Prof.(Dr.) Sanjiv Kumar Dash	Power control strategy with multiple motalities. A black hole-based strategy for determining the ideal power flow challenges in smart grid involving combined economic and emission objective.	Journal of Nonlinear Analysis and Optimization	15, 2, 521-532	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20July-December%202024/01_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue.%2002,%20July-December%202024/01_online.pdf)	UGC
2	Prof.(Dr.) Sanjiv Kumar Dash	Combined economic and Emission dispatch using Black hole optimization algorithm	Journal of Nonlinear Analysis and Optimization	15, 2, 451-460	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20July-December%202024/01_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue.%2002,%20July-December%202024/01_online.pdf)	UGC
3	Prof.(Dr.) Sanjiv Kumar Dash	Optimizing power of PV module using modified MPP for standalone load	International Journal of Power Electronics and Drive Systems (IJPEDS)	15, 2, 461-469	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20July-December%202024/05_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue.%2002,%20July-December%202024/05_online.pdf)	UGC
4	Prof.(Dr.) Sanjiv Kumar Dash	Improved PSO method for Combined Economic Dispatch using hybrid differential evolution	JES Journal	18(2):1165-1168	2024	https://geda.seasure.com/index.php/IJPEDS/article/view/227/141/682 DOI: 10.11591/geda.v15.i2.pp159-165 (https://geda.seasure.com/index.php/IJPEDS/article/view/227/141/682DOI:10.11591/geda.v15.i2.pp159-165)	Scop.
5	Prof.(Dr.) Sanjiv Kumar Dash		JES Journal	20(3):5459-5501	2024	https://journalesgroups.org/jesarticle/view/5440/4499 (https://journalesgroups.org/jesarticle/view/5440/4499)	Scop.

6	Prof (Dr.) Sanjiv Kumar Dash	Combined Economic E mission Dispatch Involving AI Techniques Using Anti-Predatory Particle Swarm Optimization	International conference (IEEE) on artificial intelligence and quantum computing (ICAIQC-2024)	GITA Autonomous College, Bhubaneswar	2024	https://www.gita.edu.in/gita/ICAIQC/ICAIQC/Upload/List%20of%20Accepted%20Papers.pdf (https://www.gita.edu.in/gita/ICAIQC/ICAIQC/Upload/List%20of%20Accepted%20Papers.pdf)	Scop, Conte
7	Prof (Dr.) Sanjiv Kumar Dash	Integrated economic dispatch using fuzzy logic based decision rules	International conference (IEEE) on artificial intelligence and quantum computing (ICAIQC-2024)	GITA Autonomous College, Bhubaneswar	2024	https://www.gita.edu.in/gita/ICAIQC/ICAIQC/Upload/List%20of%20Accepted%20Papers.pdf (https://www.gita.edu.in/gita/ICAIQC/ICAIQC/Upload/List%20of%20Accepted%20Papers.pdf)	Scop, Conte
8	Prof Dr Pradeep Kumar Ravula	Power management strategy in solar electric vehicle incluse of BTC on distance with performance in dual-circuit transmission lines identification of fault and its types in facts compensated transmission lines by the method of wavelet entropy identification of fault and its types in facts compensated transmission lines by the method of wavelet entropy	Journal of Nonlinear Analysis and Optimization	15.2.333-342	2024	https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202446_online.pdf (https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202446_online.pdf)	UGC
9	Prof Shiva Kumar Acharya		Journal of Nonlinear Analysis and Optimization	15.2.460-468	2024	https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202493_online.pdf (https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202493_online.pdf)	UGC
10	Prof Shiva Kumar Acharya		Journal of Nonlinear Analysis and Optimization	15.2.469-479	2024	https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202492_online.pdf (https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202492_online.pdf)	UGC
11	Prof Chitta Ranjan Behera		Journal of Nonlinear Analysis and Optimization	15.2.469-479	2024	https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202492_online.pdf (https://www.jnao-nu.com/Vol.%2015%20Issue%2002%20(July-December%2024)%20202492_online.pdf)	UGC

10	Prof Chitta Ranjan Behera	Impact of PPC on distance relay performance in dual-circuit transmission lines Coordination in tele circuit protection for under-reach scenarios without residual current contributions Coordination in tele circuit protection for under-reach scenarios without residual current contributions Impact of PPC on distance relay performance in dual-circuit transmission lines Identification of fault and its types in facts compensated transmission lines by the method of wavelet entropy A novel framework for implementing optimal power distribution network planning approaches	Journal of Nonlinear Analysis and Optimization	15(2):466-468	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/466_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/466_online.pdf)	UGC
12	Prof. Sahashrarshu Das		Journal of Nonlinear Analysis and Optimization	15(2):469-487	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf)	UGC
14	Prof. Bibhudatta Pattanayi		Journal of Nonlinear Analysis and Optimization	15(2):469-487	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf)	UGC
15	Prof. Bibhudatta Pattanayi		Journal of Nonlinear Analysis and Optimization	15(2):469-488	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf)	UGC
16	Prof. Bibhudatta Pattanayi		Journal of Nonlinear Analysis and Optimization	15(2):469-479	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf)	UGC
17	Prof Priyadarshi Pradhan		International Journal of System Assurance Engineering and Management	15: 2411-2458	2024	https://doi.org/10.1007/s13198-024-02255-5 (https://doi.org/10.1007/s13198-024-02255-5)	Scop.
18	Prof Priyadarshini Pradhan	Junction less MOSFET: A review	Journal of Nonlinear Analysis and Optimization	15(2):469-503	2024	https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf (https://www.jnao-nu.com/Vol-15-Issue-2-July-December-2024/469_online.pdf)	UGC

19	Prof Priyatosh Pradhan	Coordination in twin circuit protection for under-reach scenarios without residual current contributions Electromagnetic based lightning creator	Journal of Nonlinear Analysis and Optimization	15:2,459-467	2024	https://www.jnao-nu.com/Vol.%2015,%20Issue.%2002,%20(July-December%2017%2020224)/06_online.pdf (https://www.jnao-nu.com/Vol%2015,%20Issue.%2002,%20(July-December%2017%2020224)/06_online.pdf)	UGC
20	Prof Rabi Narayan Rout	implementing effects of classifying points for delaying steamer in an terminals	Journal of Nonlinear Analysis and Optimization	15:2,480-487	2024	https://www.jnao-nu.com/Vol.%2015,%20Issue.%2002,%20(July-December%2017%2020224)/40_online.pdf (https://www.jnao-nu.com/Vol%2015,%20Issue.%2002,%20(July-December%2017%2020224)/40_online.pdf)	UGC
21	Prof Rabi Narayan Rout	Coordination in twin circuit protection for under-reach scenarios without residual current contributions	Journal of Nonlinear Analysis and Optimization	15:2,459-467	2024	https://www.jnao-nu.com/Vol.%2015,%20Issue.%2002,%20(July-December%2017%2020224)/06_online.pdf (https://www.jnao-nu.com/Vol%2015,%20Issue.%2002,%20(July-December%2017%2020224)/06_online.pdf)	UGC
22	Prof Amartha Das	Photonics-based high sensitivity sensor for investigation of heavy metal in industrial water: A novel particle swarm optimization	Journal of Optics, Springer India	pp.1-9.	2024	https://doi.org/10.1007/s12596-024-01744-x (https://doi.org/10.1007/s12596-024-01744-x)	Scopus
23	Prof Amartha Das	framework for addressing economic emission dispatch with wind energy incorporation	Journal of Nonlinear Analysis and Optimization	448-460	2024	https://www.jnao-nu.com/Vol.%2015,%20Issue.%2002,%20(July-December%2017%2020224)/02_online.pdf (https://www.jnao-nu.com/Vol%2015,%20Issue.%2002,%20(July-December%2017%2020224)/02_online.pdf)	UGC
24	Prof Sangram Ranasingh	Derivation of the fault current in lightning strokes from remote electromagnetic fields considering inclined channel geometry	Journal of Nonlinear Analysis and Optimization	15:2,466-516	2024	https://www.jnao-nu.com/Vol.%2015,%20Issue.%2002,%20(July-December%2017%2020224)/37_online.pdf (https://www.jnao-nu.com/Vol%2015,%20Issue.%2002,%20(July-December%2017%2020224)/37_online.pdf)	UGC

26	Prof.Sakkarl Sahoo	AI Integration in Education and Academic Institutions	Journal of Nonlinear Analysis and Optimization	15(2),461-470	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20(July-December%2012024)/03_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue%2002,%20(July-December%2012024)/03_online.pdf)	UGC
28	Prof.Shabani Shankar Mirji	Discover artificial intelligence	Journal of Nonlinear Analysis and Optimization	15(2),842-849	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20(July-December%2012024)/88_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue%2002,%20(July-December%2012024)/88_online.pdf)	UGC
27	Prof. Sangram Keshari Naik	Understanding of bandgap engineering in a 2D photonic structure for the realization of narrow white light.	Journal of Optics	pp:1-6	2024	https://link.springer.com/article/10.1007/s12596-024-01806-0 (https://link.springer.com/article/10.1007/s12596-024-01806-0)	Scop.
30	Prof. Sangram Keshari Naik	DFIG and SVR control technique working together to control wind power integration joint grid voltage	Journal of Nonlinear Analysis and Optimization	15(2),916-941	2024	https://www.jnao-nu.com/Vol.%2015%20Issue.%2002,%20(July-December%2012024)/55_online.pdf (https://www.jnao-nu.com/Vol%2015%20Issue%2002,%20(July-December%2012024)/55_online.pdf)	UGC
29	Prof. Sangram Keshari Naik	Studies on semiconduction-based long-period fiber grating structure in realize memory application: an alternate of OD, DVD, and Blu-ray storage devices"	Journal of Optics	pp:1-10	2024	https://link.springer.com/article/10.1007/s12596-024-01952-y (https://link.springer.com/article/10.1007/s12596-024-01952-y)	Scop.

Research Papers 2023

1	Prof.(Dr).Ganga Kumar Dash	Quantum behaved artificial bee colony based conventional controller for optimum dispatch	International Journal of Electrical & Computer Engineering	13(2, 1280-1271	2023	https://doi.org/10.11591/ijece.v13i2.pp1280-1271 (https://doi.org/10.11591/ijece.v13i2.pp1280-1271)	Scop.
2	Prof.(Dr).Ganga Kumar Dash	Approaches for bi-objective non-linear regression in a difficult road economic dispatch problem	International Journal of Electrical & Computer Engineering	13(4, 4153-4160	2023	https://doi.org/10.11591/ijece.v13i4.pp4153-4160 (https://doi.org/10.11591/ijece.v13i4.pp4153-4160)	Scop.

3	Prof (Dr) Sanjib Kumar Deo	Multi Objective Generation Dispatch for Bulky Thermal Power Plants Using Novel Canada Goose Optimization Algorithm Simultaneous Effect of EMI on LLDPE and POMS Rubber Blends and its Nanocomposites for Cable Application	IEEE Xplore	30th October 2023	979-8-3503-3225-4	DOI: 10.1109/SCI57405.2022.10284755 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10284755&casa_token=Pe-u5rDmUoIAAAAA:rE03LwYkWpYnDnwHRqb2PWgAunqkpWRauC1rd1i2RRjUnnqRVdzOtonqcTyTnAfgWoRgmSCanIe	Scop.
4	Prof Bishudatta Parkeray	ACS omega	6.1	605-609	2021	https://doi.org/10.1021/acsomega.2c06766 (https://doi.org/10.1021/acsomega.2c06766)	Scop.

Research Papers: 2022

1	Prof. Bishudatta Parkeray	High density polyethylene and metal oxides based nanocomposites for high voltage cable application	Journal of Applied Polymer Science	139, 11 ,51757	2022	https://onlinelibrary.wiley.com/doi/abs/10.1002/app.51757 (https://onlinelibrary.wiley.com/doi/abs/10.1002/app.51757)	Scop.
2	Prof Priyadarsini Padhee	Energy loss allocations in radial distribution networks considering average hourly variation of load with renewable DGs	International Journal of Electrical Engineering and Informatics	14,3,605-630	2022	https://www.ijeei.org/docs-1168597975f34b6f7f28c8.pdf (https://www.ijeei.org/docs-1168597975f34b6f7f28c8.pdf)	Scop.
	Prof Amalendu Das	A proposal for vacuum ultraviolet birth using plasmonic-based photonic crystal fibre	Indian Journal of Physics	96,6,1813-1819	2022	https://link.springer.com/article/10.1007/s12648-021-02111-2 (https://link.springer.com/article/10.1007/s12648-021-02111-2)	Scop.

Research Papers: 2021

1	Prof Shiva Kumar Acharya	Harmonic Profile Enhancement of Grid Connected Fuel Cell through Cascaded H-Bridge Multi-Level Inverter and Improved Squirrel Search Optimization Technique	Energies	14, 23, 7947	2021	https://doi.org/10.3390/en14237947 (https://doi.org/10.3390/en14237947)	Scop
2	Prof. Gangam Kishan Naik	Realization of photonic memory using S-T-a-H-o structures through S-R-T Analysis	Wireless Personal Communications	27, 0, 2141-2147	2021	https://link.springer.com/article/10.1007/s00542-020-05095-y (https://link.springer.com/article/10.1007/s00542-020-05095-y)	Scop

5.3.2 Sponsored Research (0)

2023-24 (CAYm1)

Project Title	Duration
AICTE Assisted Idea Lab fo	3 yrs

2022-23 (CAYm2)

Project Title	Duration
AICTE Assisted Idea Lab fo	3 yrs

2021-22 (CAYm3)

Project Title	Duration
AICTE Assisted Idea Lab fo	3 yrs

Cumulative Amount (X + Y + Z) = 3140000.00

3.6.3 Development activities (10)

3.6.3.1 Product Development

E-Bicycle, E-Auto rickshaw, E- Bike, Automatic dishwasher, Drone, 180/240A power factor improvement panel, 350/480A power factor improvement panel, PLC based hydro bath system fountain

Patents by faculty member

S.N	YEAR	NAME OF THE INVENTOR	PATENT TITLE
1	2024	Prof. (Dr.) Sanoj Kumar Dash	DYNAMIC RESOURC
2	2024	Prof. Bibhudutta Pattnay	HIGH-EFFICIENCY TI
3	2024	Prof. Priyadarshini Pradhan	HIGH-EFFICIENCY TI
4	2024	Prof. Rabinarayan Rout	HIGH-EFFICIENCY TI
5	2023	Prof. Saheliveeraku Das	IOT BASED AUTOMA
6	2023	Prof. Amrutru Das	IOT BASED AUTOMA
7	2023	Prof. Sangram Keshari Nayak	IOT BASED AUTOMA
8	2021	Prof.Bhola Kumar Acharya	A QUALIFICATION AN

3.6.3.2 Research laboratories

ISDC has been established. Various activity under ISDC center viz. PLC Programming, Robotics, machine learning, AI, Block chaining, MATLAB simulation, PSPICE Analysis, Motor winding, Domestic wiring practices etc. are imparted to studer

3.6.3.3 Working models/charts/monograms etc.

- Charts displayed in all Laboratories
- The department has many models created by students and have been displayed in research Laboratory.
- This prototype models helps the students to understand the working of basics and recent technologies in a better manner. Also, this can be used for better teaching and learning process.

3.6.4 Consultancy (from Industry) (20)

2023-24 (CAYm1)

Project Title	Duration	Funding Agency
[illegible]	1st November	UGC/FDS
Assessment wo	1st August 202	Universities Gu

2022-23 (CAYm2)

Project Title	Duration	Funding Agency
Assessment wo	15th July 2022	Apollo Builders

2021-22 (CAYm3)

Project Title	Duration
Assessment writing and eval	25th September

Cumulative Amount(X + Y + Z) = 1400000.00

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

Faculty Performance Appraisal letter is collected from each faculty in which they need to show their innovations and research for their self-renewal to cope up with changes in technology and develop expertise for effective implementation of curri

Key points for faculty appraisal are:

1. Professional Society Membership
2. Professional Society Chapter (Student Branch) and the activities
3. Result Analysis and Actions on that to improve higher grades
4. Remedial Coaching
5. Q papers of other Universities and Q bank generation
6. Books with the latest Editions, well known publishers an internationally valid author to be followed
7. Workshops to be organized
8. Scope for attending ATAL Workshop and Coursera faculty development program.
9. Professional Networking
10. Experiment list to be revised and to be prepared and circulated in group to avoid duplication
11. Scope for faculty up gradation by NPTEL / Swayam courses
12. Additional Content to be covered other than regular curriculum.
13. Research work and activities and projects/consultancy to be carried out
14. Open House to be kept for the students to obtain informal evaluation
15. Other initiatives for department, College and Campus
16. Industry Interactions and Visits
17. Placements related efforts
18. Improvements in T-L Process and Pedagogies/Innovations
19. More publications
20. Exposure on Magazines, Journals, Articles to be increased

Membership of Professional Bodies by Faculty Members

Sl. No.	Faculty Name	Name Of Professional Body	Member Type	Membership Number
1.	Dr SAROJ KUMAR DASH, Prof & HOD,EE	ISTE	Life Member	LM27789
		IE (India)	Fellow Member	F-71512-I
2.	Prof. SAHABRAMBHU DAS	IE	Member	S-888870-2
3.	Prof. PRIYADARSINI PRADHAN	ISTE	Life Member	LM30884
4.	Prof. BIBHUDATTA RAJKARAY	IE	Member	S-043330-0
5.	Prof. RABI NARAYAN ROUT	IE	member	S-043329-0

6.	Prof. SANJAYA RAYAK	IOTE	Life Member	IH/0/0001
7.	Prof. SARALATA PRIYADARSHANI DEO	IOTE	Life Member	IH/0/0002
8.	Prof. SIDDHARTHA BEHERA	IOTE	Member	U-234353
9.	Prof. SANTHANTA SAHOO	IE	Member	U-007317
10.	Prof. SHABAN SARWAR WAZ	IE	Member	U-750853
11.	Prof. SURYA NARAYAN MOHANTY	IOTE	Life Member	IH/0/0091
12.	Prof. SANORAM RAWADIYA	IOTE	Life Member	IH/0/154

MPTEL/C SURSONA Certification

Sl. No	Name of the Faculty	Name o
1	Dr. S.K.Dash	Comm/Su
		English For Effec
2	Prof. S. Pahkay	Introducti
		Developmen
		Polymer Ma
		Processing of Polyme
		The Joy of Cor
3	Prof. P.Prachar	Electri
4	Prof. S.Das	Electri
		Introduc
		Introducti
		Electric
		Compute
		Ma
		The Joy of Cor

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

CAY	Name of Faculty	Designation	Topic	Date	Duration
2023-24	Dr. P.K. Hota	Professor	Multi-objective Generation Dispatch using Neuro-Fuzzy Technique	01/02/2024 to 03/02/2024	04 Hours
	Dr. Nidhi Mishra	Professor	Applications of Power Electronics to Electrical Engineering	07/02/2024 to 09/02/2024	04 Hours
	Mr. Praveen Kumar Patnaik	Chief Engineer, OPTCL	Gas insulated grid substation	04/04/2024 to 06/04/2024	04 Hours
	Mr. A.K. Panda	Ex DGM OPTCL	Power System Protection	11/09/2023 to 14/09/2023	04 Hours
	Mr. C.R. Das	Ex DGM TATA Steel, Bisra	PLC and Automation	14/09/2023 to 15/09/2023	03 Hours
	Dr. D.P. Bagarti	Professor	Power Electronics based Drives	26/10/2023 to 28/10/2023	03 Hours
	Dr A.K. Barisal	Professor	Optimization of Electric Power System	15/11/2023 to 18/11/2023	04 Hours
2022-23	Dr B.K.Panigrahi	Professor	Application of Particle swarm Optimization Technique for Electric Power System	04/02/2023 to 11/02/2023	04 Hours
	Dr S.Samanta ray	Professor	Smart Grid	15/03/2023 to 18/03/2023	03 Hours
	Dr. D.P. Bagarti	Professor	Power Electronics based Drives	03/04/2023 to 06/04/2023	03 Hours
	Dr A.K. Barisal	Professor	Optimization of Electric Power System	11/08/2022 to 13/08/2022	03 Hours
	Mr. Praveen Kumar Patnaik	Chief Engineer, OPTCL	Gas insulated grid substation	15/09/2022 to 17/09/2022	03 Hours
	Mr A.K. Panda	Ex DGM OPTCL	Power System Protection	27/10/2022 to 29/10/2022	03 Hours
	Mr. C.R. Das	Ex DGM TATA Steel, Bisra	PLC and Automation	10/11/2022 to 12/11/2022	03 Hours

2021 - 22	Dr B.C Babu	Professor	Power electronics based Drives	19/02/2022 to 12/03/2022	08 Hours
	Dr. S. Panda	Professor	Fuzzy Logic & Neural Network	17/02/2022 to 19/02/2022	08 Hours
	Mr. Prasant Kumar Patnaik	Director(operations), OPTCL	Gas insulated grid substation	01/04/2022 to 09/04/2022	08 Hours
	Mr. A.K. Panda	Ex DGM OPTCL	Power System Protection	12/08/2021 to 14/08/2021	08 Hours
	Mr. C.R. Das	Ex DGM TATA Steel, Sundergarh	PLC and Automation	16/09/2021 to 18/09/2021	08 Hours
	Dr A.K. Barisal	Professor	Optimization of Electric Power System	28/10/2021 to 30/10/2021	08 Hours
	Dr. S.P Nayak	Professor	Power Electronics based Drives	11/11/2021 to 13/11/2021	08 Hours

6 FACILITIES AND TECHNICAL SUPPORT (50)

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

Sr. No	Name of the Laboratory	Number of students per batch (Batch Size)	Name of the important Equipment	Weekly utilization status(If the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Power System	5	1. DC shunt m	4 HOURS	Chandan Kum	Lab Assistant	Diploma in Ele
2	Basic Electrica	5	1. Dc Shunt	2HOURS	Santih Kumar	Lab Assistant	Diploma in Ele
3	Electrical Mach	5	1 I-Phase Vari	4	Prabhu Prasad	Lab Assistant	Diploma in Ele
4	Electrical Instr	5	1 Speed contr	4	Sudhir Kumar	Lab Assistant	Diploma in Ele
5	Network Devlo	5	1 Band pass fi	4	Sudhir Kumar	Lab Assistant	Diploma in Ele
6	Electrical Mac	5	1 AC and DC S	4	Chinmay Kumi	Lab Assistant	Diploma in Ele
7	Control System	5	1 AC servo mo	4	Chinmay Kumi	Lab Assistant	Diploma in Ele
8	Project Lab	5	1 Hydraulic st	4	Soumya Ranja	Lab Assistant	Diploma in Ele

9.2 Laboratories maintenance and overall ambiance (10)

Maintaining laboratories and ensuring a good overall ambiance in the electrical department requires a combination of cleanliness, safety, organization, and a conducive learning environment. Here are some key aspects to focus on:

1. Laboratory Maintenance:

- Keep workstations, floors, and equipment clean to avoid dust accumulation that can impact electrical components.
- Periodically check and calibrate measuring instruments, oscilloscopes, power supplies, and other lab equipment to ensure accuracy.
- Ensure all wiring is properly insulated and labeled to avoid electrical hazards. Damaged wires should be replaced immediately.
- Tools, components, and equipment should be stored systematically with clear labels.
- Ensure proper airflow and cooling systems, especially for high-power equipment.
- Keep fire extinguishers, emergency exits, and first-aid kits accessible.
- Update software and maintain computers used for simulations and circuit design.

2. Overall Ambiance of the Electrical Department:

- Ensure bright, flicker-free lighting for precision work and comfortable seating arrangements.
- Reduce unnecessary noise from machinery and create quiet zones for focused work.
- Display safety guidelines, circuit diagrams, and instructions for easy reference.
- Use energy-efficient lighting and implement e-waste disposal policies.
- Maintain a mix of individual and group workstations to encourage teamwork and discussion.
- Decorate the space with posters of famous electrical engineers, circuit diagrams, and inspirational quotes to encourage students.

9.3 Safety measures in laboratories (10)

Sr. No	Laboratory Name	Safety Measures
1	Power system lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
2	Basic electrical lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
3	Electrical Machine lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
4	Electrical drives lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
5	Network Device lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
6	EMW LAB	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
7	CS lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.
8	Project lab	1. Fire extinguisher is present in the lab to avoid hazards/short circuits. 2. All the students are instructed to wear safety gloves, safety shoes while performing an experiment. 3. " of the fire alarm to detect smoke inside the lab for safety purposes. 7. One first aid box is present in the lab for initial treatment.

6.4 Project laboratory (20)

Sl. No.	Name of the Facilities	Utilization
1.	Matlab Installed version software	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
2.	PLC	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
3.	AVR studio 4.0	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
4.	SCADA	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
5.	Allen Bradley SCS.	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
6.	Python	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
7.	JAVA	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
8.	Project seminar hall which includes projector, PC system, software, audio systems.	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities presentation.
9.	R & D Lab	UG/PG students, Research Scholars and Faculty members utilize the R & D Lab for their projects and research activities.
10.	Project Lab	UG/PG students, Research Scholars and Faculty members utilize the R & D Lab for their mini projects, projects, and research activities.
11.	Internet of 200Mbps(Airtel) and Wi-Fi of 20Mbps	UG/PG students, Research Scholars and Faculty members utilize the internet and Wi-Fi facility for their Project and research activities.
12.	10KVA UPS 240 VDC along with batteries	Used in case of Power failure in all PC System.

7 CONTINUOUS IMPROVEMENT (75)

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

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

POs	Target Level	Attainment Level
PO 1 : Engineering Knowledge		
PO 1	2.13	2.43
curriculum revisions remedial classes practical projects student mentoring enhanced assessments		
PO 2 : Problem Analysis		
PO 2	2.08	2.40
advanced problem-solving exercises study discussions mentoring sessions specialized workshops focused assessment enhancements		
PO 3 : Design/development of Solutions		
PO 3	1.91	2.38
ACTION1: Students are motivated to include all standard parameters and constraints according to National and International safety norms and to address environmental concerns		
PO 4 : Conduct Investigations of Complex Problems		
PO 4	1.75	2.39
ACTION1: Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level.		
PO 5 : Modern Tool Usage		
PO 5	1.75	2.39
ACTION1: Modern labs are developed to demonstrate the use of modern tools like MATLAB, PLC, SCADA etc. to specify fulfillment of requirement in engineering applications in new industrial era.		
PO 6 : The Engineer and Society		
PO 6	1.82	2.29
ACTION1: To understand the safety concerns and social aspects, students visited industry to expand their practical knowledge with the effect of imposed practices in engineering.		
PO 7 : Environment and Sustainability		
PO 7	1.56	2.33
ACTION1: Students are encouraged to indulge in projects, in which global and environmental issues are involved, with respect to consumption of energy and utilization of renewable energy resources.		
PO 8 : Ethics		
PO 8	1.77	2.30
Yoga classes are conducted to improve the moral values. 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	1.68	2.35
ACTION1: Institute has initiated Program which provides a platform to work in individual as well as a group in the fields of Engineering helps the students to groom the skills like leadership, effective team member.		
PO 10 : Communication		

PO 10	1.67	2.32
ACTION1: Soft skills training is imparted to students to enhance various aspects of communication technical skills by group discussions, presentations and real- learning outcomes.		
PO 11 : Project Management and Finance		
PO 11	1.80	2.33
The awareness created among the student regarding the management principles and managing projects. Introduction of project budgeting and cost estimation in coursework.		
PO 12 : Life-long Learning		
PO 12	1.66	2.33
ACTION1: Using ICT facilities, such as PPTs, live demonstration of tools imparted using video lecture. ACTION2: Encouraging participation in research activities and skill development programs.		

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

PSOs	Target Level	Attainment Level
PSO 1 : To empower the students to become practicing engineers so as to solve the global problems.		
PSO 1	2.13	2.97
Action 1 : Provide industry exposure, research opportunities, hands-on training, interdisciplinary learning, problem-solving projects, mentorship, and global collaborations to enhance skills.		
PSO 2 : To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.		
PSO 2	1.77	2.39
Action 1: Offer research opportunities, industry collaborations, entrepreneurial training, mentorship programs, skill development workshops.		
PSO 3 : To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.		
PSO 3	1.68	2.33
Action Taken: Provide hands-on training, industry projects, research opportunities, advanced labs and expert mentorship.		

7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

1. Introduction

The Academic Audit for the Department of Electrical Engineering at DTA Autonomous College, Bhubaneswar, was conducted in compliance with the National Board of Accreditation (NBA) requirements. This audit aimed to assess the quality of educati

2. Objectives of the Academic Audit

- To ensure adherence to Outcome-Based Education (OBE) as per NBA norms.
- To evaluate the curriculum, syllabus, and academic activities.
- To review faculty development programs and research contributions.
- To assess student performance, placements, and career development initiatives.
- To verify the availability and utilization of infrastructure, laboratories, and library resources.
- To ensure effective teaching-learning methodologies and continuous improvements.

3. Methodology Adopted

- Internal academic audit conducted periodically by the Academic Audit Committee.
- External academic audit by experts from academia and industry.
- Review of course files, student performance records, and feedback mechanisms.
- Analysis of faculty research, publications, and funded projects.
- Interaction with students, faculty members, and stakeholders.

4. Key Observations and Compliance to NBA Requirements

4.1 Curriculum and Teaching-Learning Process

- The syllabus was reviewed and revised to align with industry requirements and emerging technologies.
- OBE framework implemented, with Course Outcomes (COs) mapped to Program Outcomes (POs).
- ICT-enabled teaching methodologies adopted, including Learning Management Systems (LMS).
- Continuous Internal Evaluation (CIE) implemented effectively.

4.2 Faculty Development and Research

- Faculty members encouraged to participate in Faculty Development Programs (FDPs) and workshops.
- Research publications in SCI/Scopus-indexed journals increased significantly.
- Collaboration with industries and MoUs signed for joint research projects.
- Incentives provided for research activities and funded projects.

4.3 Student Performance and Placements

- Student mentoring and counseling system strengthened.
- Skill development and certification programs introduced.
- Internship opportunities enhanced through industry collaboration.
- Placement cell actively engaged in training and industry connect initiatives.

4.4 Infrastructure and Laboratory Facilities

- Laboratories upgraded with modern equipment and software tools.
- Digital library and e-resources made available for students and faculty.
- Smart classrooms and online learning platforms introduced.
- Safety measures and standard operating procedures implemented in laboratories.

4.5 Continuous Improvement and Feedback System

- Feedback from students, alumni, and employers incorporated into academic planning.
- Stakeholder meetings conducted to review academic effectiveness.
- Action plans formulated and implemented based on audit recommendations.
- Regular monitoring and follow-up on improvement measures.

5. Actions Taken for Continuous Improvement

1. Curriculum Enhancement:
    - Revised and introduced new courses on emerging technologies like AI, IoT, and Electric vehicles.

- Industry-relevant content and practical exposure enhanced.

2. Faculty Development Initiatives:
3. Encouraged faculty to complete online certification courses (NPTEL, Coursera, etc.).
4. Organized in-house FDPs and invited industry experts for knowledge sharing.
5. Strengthened soft skills and technical training sessions.
6. Expanded industry tie-ups for internships and live projects.
7. Installed additional computing facilities and software tools.
8. Enhanced the library with latest e-books, journals, and databases.
9. Faculty encouraged to apply for research grants from DST, AICTE, etc.
10. Motivated students to participate in hackathons and technical competitions.
11. Student Development and Placements:
12. Infrastructure Upgradation:
13. Strengthening Research and Innovation:

9. Conclusion

The Academic Audit helped in identifying key areas for improvement and ensuring compliance with NBA accreditation requirements. The Department of Electrical Engineering remains committed to continuous enhancement of academic quality, researc

Academic Audit Flowchart

A. DEPARTMENT DETAILS

Name of the Department:

Name of Program: B.Tech

Academic year 2023 - 24

I Year- 2nd Sem II Year- 4th Se

No. of Theory courses offered

No. of Practical classes offered

B. FACULTY: STAFF STRENGTH

Teaching

Professors	Associate Professors	Assistant Professors

C. FACULTY DETAILS

Sl. No	Name of the Faculty Member	PAN No	H Qualifi Spec

D. COURSE DELIVERY:

From Core Dept

Year/Semester (Theory & Labs)	No. of Faculty	No. of Courses	Credits
II Year– 3rd Sem			
II Year– 4th Sem			
III Year– 5th Sem			
III Year– 6th Sem			
IV Year– 7th Sem			
IV Year– 8th Sem			

E. WORK LOAD DETAILS FOR ODD SEMESTER

Sl. No	Name of the faculty member	Name(s) of the Theory / Lab

** Add additional sheet if necessary for each semester

F. COURSE LESSON PLAN PREPARATION AND VERIFICATION

Description

No. of course lesson plans prepared before the commencement of class work

No. of course lesson plans prepared within one week after the commencement of class work

No. of courses for which course lesson plans are not prepared

No. of courses verified by Internal Verifier (Senior Faculty/HOD)

No. of courses for which the Lesson Plans are modified after verification

No. of courses not verified

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

F (a). CO Po PSO attainment

Course title	Co attainment	Po attainment	PSO attainment

F (b). CO, PO, PSO attainment of the department

Particulars	Overall Attainment Value	Program for improving overall attainment in coming Year	Remarks
CO Attainment for the department			
PO Attainment for the department			
PSO Attainment for the department			

G. STUDENT MENTORING SYSTEM

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not?

Note : Check Mentor books for Auditing

Sl. No Name of the Mentor

H. The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities

Soft Skills

Language and Communication Skills

Life Skills (Yoga, Physical fitness, Health and Hygiene)

Awareness of Trends in Technology

Hide The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities
1. Soft skills, 2. Language and communication skills, 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Name of the Capacity Development and Skill Enhancement programme Year of implementation

i.Number of outgoing students who got placement during the year / Details of the projects undertaken in this year

(a) Projects undertaken Number of outgoing students who got placement during the year :

Project Guide	Major area of the project	Project title	Numbers of students under this project group	Published / Patented	Remarks

(b) Placement

Intake Strength	Admitted	Graduated	Placed	Higher study	Remarks

J. VALUE ADDED COURSES OFFERED

Sl. No	Name of the value-added courses (with 30 or more contact hours) offered	Duration of

K. Patents published / awarded

Sl No	Year	Name of the inventor	Patent title	Application No	Awarded	Remarks

K (a) External Projects details

Name of the Principal Investigator/ Co-Investigator (If applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding

L. Number of teachers recognised as research guides

L (a) : Details of teachers recognised as research guides

Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty / Sc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether reco

M. Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

M(a) Details of Workshops/Seminars conducted on Intellectual Property Rights (IPR), Research Methodology, Entrepreneurship and Skill Development during the year

Name of the Workshop/ Seminar	Number of Participants

N. Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/

N(a) - Total number of Citations in Scopus during the year

N(b) - Total number of Publications in Scopus during the year (details)

N(c) - Total number of Publications in Web of Science during the year

O. Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

O(a) - Details of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the year (only functional MoUs with ongoing activities to be considered)

Sl. No.	Name of the Institution/ industry/ corporate house	5

P. Details of Lab Equipment Available / procured in Department Laboratory.

Sl. No.	Existing Lab Equipment	Specification	Make	Date of Procurement	Cost	Remark

Q. MINUTES OF THE MEETING

Internal Department Meeting minutes showing the discussion on the following issues (Ref: Department Meetings Register)

1. Subject Allocation
2. Lesson plans
3. Syllabus Coverage
4. Mentoring
5. Projects
6. Publications
7. Workshop / Seminars
8. Any other information

Comments of the auditor:

R. BEST PRACTICES FOLLOWED IN THE DEPARTMENT

List	Describe

S. Clubs Operational in the Department

T. Curricular activities of the Department including awards received by students & Faculties

Name	Student / Faculty	Award	Remarks

U. Extra-curricular activities of the Department including awards received by students& Faculties

Name	Student / Faculty	Award	Remarks

V. Social Outreach Programmes of the Department like Unnat Bharat etc

Name	Student / Faculty	Award	Remarks

W. List of major projects of the Department

Name of the company	Faculty	Project title	Funding details / status

X. Green Audit and Plantation done by Department

Activities	date	Particulars	Associated Faculty	Remarks

Y. Facilities created for Differently Students

Z. New software procured

Sl. No.	Name of the Software	Cost	Uses / particulars Remarks

Z(a). Annual competition of activities

Sl. No.	Name of the Activity	Date	Particulars Remarks

2. SWOC ANALYSIS

Particulars Remarks

STRENGTH

WEAKNESS

OPPORTUNITIES

CHALLENGES

Comments of the auditor:

Comments of the auditor:

Name and Signatures of Auditors

Signature of HoD with Seal

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, OD
ROURKELA

FORMAT FOR ACADEMIC AUDIT FOR THE ACADEMIC YE
TO BE FILLED BY COLLEGE

GENERAL INFORMATION

Name & Affiliation of the Academic Auditors :

1. Name and Address of the College :

2. Name of the Trust :

3. Year of establishment of College :

4. Status of AICTE Approval for 2024-25 (Yes/No) :

(Please enclose the EOA of AICTE for 2024-25 duly entered by Principal/Director - Annexure-I)

5. Status of Approved Courses for 2024-25 (As per Format below - Annexure-II):

SI.	Name of Course	Level UG/PG	AICTE Approved Intake	Seats Filled via by CUSS-2024	Vacancy, if any

6. Deficiency Report of AICTE and Compliance thereof, if any (Annexure-III):

7. Phone Nos and e-mail address :

Item	Principal / Director	Office Estt. Section	Examination Section
Mobile / Cell No.			
Telephone No.			
Fax No.			
e-mail Id.			

8. Internet facility if available (specify the bandwidth) :

9. Specify the web portal address :

10. Accreditation Status (Yes/No) :

Discipline	NAAC/ NBA/ Others	Year of Accreditation

11. Whether examination halls are covered with CCTV cameras & in working condition (Yes/No) :

If Yes, Please indicate the number of cameras installed & in working conditions :

Date : (Official Seal)

ACADEMIC DETAILS

1. Name of the Principal/Director :

Date of Birth :

Date of joining in the college :

Qualification & Experience of Principal/Director :

Course	Specialisation	Year	University/Institute	Class/Div	Experience
Ph.D					
PG					
UG					

2. Whether the Principal/ Director has adequate qualifications & experience as per AICTE norms: Yes/No

3. Status of Affiliation :

(Copy of Affiliation Letter for 2024-25 (Annexure-4)

4. Approved Course Fee :

Academic Session	Approved Course Fee in Rs.
2020-21	
2021-22	
2022-23	
2023-24	
2024-25	

Please furnish photocopy of Fee Structure as approved by Govt. of Odisha (Annexure-5)

5. Number of Academic Departments in the Institute :

Please furnish List (Annexure-6)

6. Number of Departments in the Institute other than Academics :

Please furnish List (Annexure-7)

7. Academic Infrastructure/Student Data :

a. Details of Class Rooms (Annexure-8) :

Sl.No.	Class Room Nomenclature	Sitting Capacity	Room Area in sq.m.	Score (5-10)

	TOTAL			

b. Details of Laboratories (Annexure-III) :

Sl.No.	Laboratory Nomenclature	Sitting Capacity	Floor Area in sq.m.	Score (0-10)
	TOTAL			

Date :

(Official Seal)

c. Discipline-wise figure of Students for academic year 2024-25 (Annexure-IV):

Sl. No.	Discipline	1st Sem.	3rd Sem.	5th sem.	7th sem.	8th sem.	Total	Score (0-10)
				Grand Total				

d. Classification of Students for the academic year 2024-25

Discipline	Boys			Girls			Boarders	Physically Challenged
	Gen	SC	ST	Gen	SC	ST		

e. Discipline-wise figure of Students for academic year-2024-25 (Annexure-VI) :

Sr. No.	Discipline	1st Sem	3rd Sem	5th sem	7th sem	9th sem	Total	Score (0-10)
Grand Total								

1. Classification of Students for the academic year 2024-25 :

Discipline	Boys			Girls			Boarders	Physically Challenged
	Gen	SC	ST	Gen	SC	ST		

2. Computational Facility (Annexure-II) :

Sr.No.	Computer Centre Nomenclature	Sitting Capacity	No. of Terminals (Stand-alone/ Dumb/ Server)	Floor Area in sq.m.	Score (0-10)
	TOTAL				

Please furnish details of computational and networking facilities available in the computer centres

1.

Score (0-10)

Band width of Internet connectivity :

4. Status of implementation of NWDCT Project :

Score (0-10)

ii. No. of Licensed Software installed for use by faculty & students :

List of Licensed Software :

-
-
-
-

Date : (Official Seal)

iv

Score (0-10)

Computer Centre Timings :

v. Status of uploading DCF-I in web portal of www.aicte.gov.in (http://www.aicte.gov.in) : (Yes/No)

Score (0-10)

3 Library Facility

i. Plinth Area in sqm :
ii. Total Number of Titles (Furnish List, Annexure-III) :
iii. Total Number of Books (Furnish List, Annexure-III) :
iv. Total Number of E-Books (Furnish List, Annexure-III) :
v. Number of Journals Subscribing (Furnish List, Annexure-III) :
vi. Number of E-Journals Subscribing (Furnish List, Annexure-III) :
vii. Number of Reading Rooms :
viii. Sitting Capacity of each Reading Room :
ix. Library Timings :
x. Number of borrowing cards issued per student :
xi. Number of News Papers and Magazines (Furnish List, Annexure-III) :
xii. Internet connectivity in the Library meant for students (Yes/No) :
xiii. Number of Terminals in the Library having Internet Connectivity :
xiv. Printing/Photocopying facility in the Library meant for students (Yes/No) :
xv. Other digital content available :

iii. Faculty / Staff / Student Activities

a. Total number of Faculty Members (Annexure-III) :

Sl. No	Name of faculty	Designation	Deptt.	Date of Joining	Qualification	BPUT Regd. No	Score (0-10)

b. Total number of Supporting Staff other than Academic (Annexure-III):

Sl. No.	Name of Staff	Designation	Deptt.	Date of Joining	Qualification	Remarks	Score (0-10)

c. If faculty members are paid as per the A.I.C.T.E. norm (Yes/No):

d. Whether tutorial classes are taken regularly (Yes/No):

e. Whether internal assessments are conducted as per the University norms (Yes/No):

f. No. of student indiscipline cases reported during last year(2024-25):

Due to ragging :

Due to any other reasons :

No of cases reported and action taken if any, to prevent the student indiscipline.

Date : (Official Seal)

g. Whether there is Anti-ragging Committee and Anti-ragging Squad functioning in the College (Yes/No):

h. Whether there is Grievance Redressal Centre functioning in the College (Yes/No):

i. Telephone No. and E-Mail of a Grievance Redressal Centre:

Score (0-10)

each

11 Research and Co-curricular Activities (Please furnish details) :

a. Research Facility created for Faculty and Students. (Furnish List. Annexure-01)
b. Facility developed for projects of students (Furnish List. Annexure-02)

i. No. of students undertaking hardware based projects :
ii. No. of students undertaking software/simulation based projects :

c. Number of Research papers published by faculty and students in refereed Journals/Conferences during 2024-25 (Furnish List. Annexure-03)
d. Number of Research Grants/Projects received during 2022-23 from various Govt./Non-Govt. Agencies (Furnish List. Annexure-04)
e. Workshops/ Seminars/ Conferences conducted by the Institution during 2024-25 (Furnish List. Annexure-05) :

Date	Title of Program	Sponsoring Agency	No. of Participants	No. of papers presented

Score (0-10)

12. Performance of pass out students

(Furnish List. Annexure-06)

a. Academic Performance of 2023-24 pass out batch :

Discipline	Annual Intake	Number of Students as per CGPA in the range indicated				
		8.0	8.0	7.0	6.0	6.0

Score (0-10)

b. Employment Performance of 2024-25 pass out batch (Campus/Off-Campus) :

Name of Organization/Company	Discipline	No. of Students selected for Employment

Score (3-10)

c. No. of Students qualified in GATE/CAT/GRE etc.

Score (3-10)

d. No. of Students joined for higher study

Score (3-10)

12. Extracurricular Activities

Membership of Professional Bodies by Faculty members

(Furnish List. Annexure-07) :

a. Details of activities carried out under SWAYAM/Oli scheme

(Furnish List. Annexure-08) :

Date : (Official Seal)

b. Details of activities carried out under NCC and NSS scheme

(Furnish List. Annexure-09) :

Score (3-10)

14. Show Cause/Warning issued by AICTE :

Please furnish Compliance submitted to AICTE, if any (Annexure-06)

Score (0-10)

15. Show CauseWarning served by Govt. of Odisha:

Please furnish Compliance submitted to Govt., if any (Annexure-51).

Score (0-10)

16. Show cause / warning served by BPUT

17. Audited Balance sheet of 2023-24)

18. Submission of Data uploaded to AICTE and the corresponding deficiency report of the college for the Academic year 2024-25

Score (0-10)

19. Availability of data in website of the institution Excellent / Good / To be improved

Score (0-10)

20. Feedback mechanism available Yes / No (If yes enclose list)

21. Special awards /recognition received

Score (0-10)

22. No of Faculty attended training programme (give details)

Score (0-10)

23 No. of training programmes conducted for faculty/staff/students

Score (0-10)

24 No. of faculty who are continuing with institution for more than 3 years

25 No. of faculty participated in e-evaluation and no. of scripts evaluated by them

Score (0-10)

26 No. of e-resources (e-books/e-journals/e-databases/e-content) developed

27 No. of Specialization run in M. Tech/ M.Pharm/ M.Arch

28 No. of M.Tech/ M.Pharm/ M.Arch students in each Specialization

29 No. of Ph. D students registered against each faculty (Give name, date of registration and name of the faculty supervisor)

30 Any other relevant information

Full Signature of the Principal

(Core & Seal)

BIJUPATNAIK UNIVERSITY OF TECHNOLOGY, OD
ROURKELA

(FOR UNIVERSITY USE)

FORMAT FOR ACADEMIC AUDIT TO BE FILLED BY AUDITORS (WITH

1. Name of the College/Institution

2. Date of visit by the Auditors

3. Courses of study

4. Time table for each courses

5. Faculty details with their teachers registration photographs & CV

6. Attendance Sheet

7. Fee collected course wise for the year 2024-25

8. Fee structure of the college

9. Fee structure of Fee Structure Committee

10. Financial Audited Statements for the year 2024-25

In case of score between 0-3 and 8-10 the score should be supported by detail justification

Observation of the Auditor

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

SL NO	Year	Number of Students Passed	No of Student Placed	Quality Placement	Core Industry Placement	Pay Package in lacs/annum
1	2023-24	88	81	27	28	4.65-16.65
2	2022-23	88	60	22	29	4.6-14.25
3	2021-22	53	41	17	22	3.5-13.5

SL NO	Year	Number of Students Passed	No of Student Placed	Higher Study	Entrepreneur
1	2023-24	88	01	10	00
2	2022-23	88	00	08	00
3	2021-22	53	01	04	00

7.4 Improvement in the quality of students admitted to the program (10)

Item		2024-25	2023-24
National Level Entrance Examination JEE MAIN	No of students admitted	44	40
	Opening Score/Rank	55218	90648
	Closing Score/Rank	202135	287567
State/ University Level Entrance Examination/ Others CUSE	No of students admitted	1	0
	Opening Score/Rank	188	193
	Closing Score/Rank	0	359
Name of the Entrance Examination for Lateral Entry or lateral entry details CUSE	No of students admitted	0	0
	Opening Score/Rank	0	283
	Closing Score/Rank	0	523
Average CBSE/any other board result of admitted students(Physics, Chemistry&Maths)		72	71

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 (%)		
							CAY	CAYm1	CAYm2
BUKYA MGHP	BGGPM5823E	M.SC (Mathematics) and PhD	02/03/2015	Numerical Analysis	Associate Professor	01/07/2013	100	100	100
RABINDRA PA	AHBPP0142G	M.SC (Mathematics) and PhD	01/08/2010	Fluid dynamics	Associate Professor	01/01/2014	100	100	100
PRASANT KUI	BCBPP7275J	M.Sc. and PhD	09/04/2015	Language and Communication	Associate Professor	04/06/2018	100	100	100
SAROJ KANTH	AGRPN6943C	M.Sc. and PhD	10/10/2016	Language and Communication	Associate Professor	02/08/2018	100	100	100
AMBUJA SAM	CKSPS6139Q	M.Sc. and PhD	10/10/2000	Organic Chemistry	Associate Professor	04/12/2017	100	100	100
ASHA MSHR	CSUPH7228D	M.SC (Mathematics) and PhD	11/08/2021	Numerical Analysis	Associate Professor	01/03/2021	100	100	100
SHAIDKHU KI	AIDXP8874N	M.SC (Mathematics) and PhD	20/09/2014	Solid State Physics	Associate Professor	25/10/2005	100	100	100
SANTI PRADA	ALUPM7757M	M.SC (Mathematics) and PhD	20/11/2017	Photonics	Associate Professor	01/02/2008	100	100	100
BRANCH NA	AOSPD1080B	M.SC (Mathematics) and PhD	19/11/2018	Numerical Analysis	Associate Professor	15/06/2006	100	100	100
MANOBANJAN	AILPB1971A	M.SC (Mathematics) and PhD	09/08/2011	Numerical Analysis	Associate Professor	05/08/2008	100	100	100
RADABHARI I	AVHPM6094H	M.Sc. and PhD	25/10/2021	Language and Communication	Assistant Professor	12/12/2011	100	100	100
RABIBHANJAI	CKSPP0102G	M.Sc	09/01/2010	Plasma Physics	Assistant Professor	12/03/2013	100	100	100
RASHMIRAJA	FKFPS4552C	M.Sc	22/10/2019	Graph Theory	Assistant Professor	01/07/2017	100	100	100
DEEPANJAN P	AGRPP2804C	M.Sc	20/08/2019	Business Management	Assistant Professor	08/07/2017	100	100	100
BRANCH NA	CARPP9017J	M.Sc	17/10/2017	Nano Technology	Assistant Professor	08/07/2017	100	100	100
UTKALIKA RAI	BAYPR4438J	M.Sc. and PhD	30/08/2003	Language and Communication	Assistant Professor	08/07/2017	100	100	100
NAJNAWATA	DSAPP1124K	M.Sc	17/08/2017	Language and Communication	Assistant Professor	04/12/2017	100	100	100
DIPAK KUMAR	APDPS5477H	M.Sc. and PhD	26/10/2021	Micro Economics	Assistant Professor	04/07/2017	100	100	100
BHABANI SAH	CSZPS7742G	M.Sc. and PhD	20/10/2021	Numerical Analysis	Assistant Professor	03/12/2018	100	100	100
BHARAT CHAI	AEFPC3571C	M.Sc. and PhD	20/10/2010	Physical Chemistry	Assistant Professor	02/11/2012	100	100	100
PAYU GANDA	BUPD9721N	M.Sc	04/08/2010	Inorganic Chemistry	Assistant Professor	04/06/2018	100	100	100
PRADEEP KU	AIUPB9144K	M.Sc. and PhD	19/10/2015	Fuzzy Optimization	Assistant Professor	03/12/2013	100	100	100

RAJENKUMAR	BXRPR7442J	M.Sc	27/11/2010	Physical Chemistry	Assistant Professor	04/06/2018	100	100	100
SONALIKA PR	CHJPP8123Q	M.Sc	14/08/2015	Language and Communication	Assistant Professor	16/06/2018	100	100	100
PRITISH SHA	BCPPS6099C	M.Sc. and PhD	20/11/2015	Language and Communication	Assistant Professor	21/10/2018	100	100	100
SAGARIKA DA	BRZPD6121G	M.Sc. and PhD	27/10/2000	Language and Communication	Assistant Professor	02/09/2019	100	100	100
LYNDON DON	ADPPT4680D	M.Sc. and PhD	22/10/2019	Language and Communication	Assistant Professor	01/12/2021	100	100	100
SABITA POUL	BSHPP6056H	M.Sc. and PhD	24/10/2015	Language and Communication	Assistant Professor	01/03/2021	100	100	100
SAJAYAKANT	AKCPS5347J	M.Sc. and PhD	22/10/2010	Analytical Chemistry	Assistant Professor	01/03/2021	100	100	100
MATHA VENK	DEVPS4234R	M.Sc	27/03/2015	Business Management	Assistant Professor	28/12/2018	100	100	100
ROUKUN DEV	CHRPD5710J	M.Sc. and PhD	28/10/2019	Language and Communication	Assistant Professor	02/03/2021	100	100	100
RAJIB KUMAR	AOQPD6008R	M.Sc. and PhD	24/11/2014	Language and Communication	Assistant Professor	02/03/2009	100	100	100
CHINMAYEE S	AOXPD1175A	M.Sc	29/09/2014	Physical Chemistry	Assistant Professor	01/02/2008	100	100	100
SUBHASHREE	APHPS6312H	M.Sc. and PhD	23/11/2009	Numerical Analysis	Assistant Professor	04/09/2004	100	100	100
LAXMIKANTA	AKUPM4040P	M.Sc. and PhD	29/10/2014	Condensed Matter Physics	Assistant Professor	10/10/2011	100	100	100
DHARMADHA	AEXPS7569G	M.Sc. and PhD	11/10/2007	Language and Communication	Professor	16/06/2018	100	100	100
SARADA PRA	ADPPM1085H	M.Sc. and PhD	20/11/2017	Organic Chemistry	Professor	01/06/2009	100	100	100
SARADEVDU	AGVPA7504L	M.Sc. and PhD	14/07/2008	Physical Chemistry	Professor	10/12/2011	100	100	100
SARATA CHAT	ABSPM5432E	M.Sc. and PhD	01/07/1982	Inorganic Chemistry	Professor	08/09/2008	100	100	100
KEDAR NOHA	AHPPM6070J	M.Sc. and PhD	13/03/2009	Industrial Chemistry	Professor	27/06/2008	100	100	100
KISHORE KUA	ALPPK0285H	M.Sc. and PhD	01/08/2017	Fuzzy Commission	Professor	09/10/2004	100	100	100
SHIVARANI K	ASLPP1066Q	M.Sc. and PhD	29/03/2012	Language and Communication	Professor	28/07/2008	100	100	100
N LAKSMI TR	AWXPT3548E	M.SC (Mathematics) and PhD	10/10/2002	Fluid dynamics	Associate Professor	03/10/2003	100	100	0
BHABANI SHA	FTUPM7870Q	M.E/M.Tech	05/10/2005	ELECTRICAL ENGINEERING	Assistant Professor	08/01/2004	50	0	0
PRITAM RIKA	ATAPM6166K	M.E/M.Tech	10/08/2020	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	08/07/2004	50	0	0
ANANYAKAU	IDUPK1223H	M.E/M.Tech	24/08/2004	ELECTRONICS AND COMMUNICATIONS ENGINEERING	Assistant Professor	01/07/2004	50	0	0
BIRAJA SHAN	AGIPP6093D	M.SC (Mathematics) and PhD	14/08/2003	Graph Theory	Associate Professor	11/06/2003	100	100	0

MADHUSMITA	MXPPM7445Q	M.SC (Mathematics) and PhD	17/07/2023	Fluid dynamics	Assistant Professor	09/08/2023	100	100	0
MAITRI ARVAP	BPUPM6234A	M.Sc. and PhD	01/09/2023	Industrial Chemistry	Assistant Professor	01/09/2023	100	100	0
SAIRA SHAIK	LPGPS8883H	M.Sc	20/08/2022	Language and Comunication	Assistant Professor	01/09/2023	100	100	0
PRITEEM MOH	AOEPH5536J	M.Sc. and PhD	20/10/2009	Language and Comunication	Professor	01/09/2004	100	0	0
ARPITA ANAND	DUZPD7811G	M.Sc. and PhD	20/08/2019	Numerical Analysis	Professor	02/09/2004	100	0	0
SANKARDAN	BWOPS7432H	MEM. Tech and PhD	02/09/2021	ICT Web Technology	Associate Professor	02/09/2010	0	100	100
MOHAMMED J	BGUPM0416J	MEM. Tech and PhD	02/09/2022	IoT Machine Learning	Associate Professor	08/12/2021	0	100	100
SUDHIR KUMA	AHBPP7242H	MA	15/10/2017	Language and Communication	Assistant Professor	01/11/2023	100	100	0
SWADHIN APP	CJBPP8871L	M.E/M.Tech	10/08/2018	CIVIL ENGINEERING	Assistant Professor	07/03/2017	60	60	60
ABHIJYOTI S	BHCPS6201H	M.E/M.Tech	09/07/2017	CIVIL ENGINEERING	Assistant Professor	09/10/2017	50	50	50
BISWAJIT SAH	KUJPS9886Q	M.E/M.Tech	09/08/2018	MECHANICAL ENGINEERING	Assistant Professor	09/12/2018	60	60	60
PURNIMA SAH	DTKPS5046C	M.E/M.Tech	15/07/2017	MECHANICAL ENGINEERING	Assistant Professor	07/04/2017	50	50	50
CHIRANJEEB	DJGPP4767F	M.E/M.Tech	11/07/2018	MECHANICAL ENGINEERING	Assistant Professor	02/07/2018	50	50	50
PRATIK SARA	HPUPS7199L	M.E/M.Tech	09/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	05/07/2017	50	50	50
TANMAYBEU	AVPPB0496Q	M.E/M.Tech	03/07/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	03/07/2017	60	60	60
SWAPNARAN	CWPPS7417N	M.E/M.Tech	09/07/2018	ARTIFICIAL INTELLIGENCE	Assistant Professor	09/07/2018	50	50	50
DEEPAK KUM	BORPS7140D	M.E/M.Tech	01/11/2017	COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE	Assistant Professor	01/07/2017	60	60	60
PRIYANKA DU	BOGPD9460P	M.E/M.Tech	05/07/2017	COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	Assistant Professor	05/07/2017	60	60	60
SUSHREE SYA	BAZPM0236F	M.E/M.Tech	07/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	07/07/2017	50	50	50
ABHADHA SA	BGOPB7007D	M.E/M.Tech	01/07/2017	COMPUTER SCIENCE AND ENGINEERING IoT	Assistant Professor	01/07/2017	60	60	60
CHINMAYA KL	BPWPK7736K	M.E/M.Tech	03/07/2017	COMPUTER SCIENCE AND ENGINEERING ICT	Assistant Professor	03/07/2017	60	60	60
BISWAJIT SAH	CORPB0838G	M.E/M.Tech	04/07/2017	ARTIFICIAL INTELLIGENCE	Assistant Professor	08/07/2017	50	50	50
ABHILASH CH	AZPPC9428E	M.E/M.Tech	01/07/2019	COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE	Assistant Professor	01/07/2019	60	60	60
SUDHANSHU	BORPS7197J	MBA & Ph.D	11/10/2018	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	05/03/2018	60	60	60
TANAYA KUMA	AYBPK7771M	MBA & Ph.D	17/10/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	04/07/2017	50	50	50

MONALISA SA	GBJPS7234B	MBA	06/07/2017	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	06/07/2017	60	60	60
DUSMANTA K	CPWPS9472K	MBA & Ph.D	26/09/2015	MASTERS IN BUSINESS ADMINISTRATION	Assistant Professor	16/08/2018	60	60	60

Year	Number Of Students(approved intake strength) N	Number of Faculty ma
2022-23(DAY-IX)	1020	54
2023-24(DAY-I)	1080	60
2024-25(DAY)	1200	61
Average	1100	60

AverageFYSPR : 0.00

Assessment [(0 * 10) / AverageFYSPR] : 0.00

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

Total Marks 4.00

Institute Marks : 4.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SPR of 20:1)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2022-23	34	18	61	4.00
2023-24	34	18	64	4.00
2024-25	38	21	65	4.00

Average Assessment : 4.00

5.3 First Year Academic Performance (10)

Total Marks 0.40

Institute Marks : 0.40

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	0.40	0.41	0.32
Total Number of successful students(Y)	1125.00	1065.00	902.00
Total Number of students appeared in the examination(Z)	1125.00	1065.00	902.00
API [X*Y/Z]	0.40	0.41	0.32

Average API[(API1+API2+API3)] : 0.40

Assessment = Average API : 0.40

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

Total Marks 10.00

0.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (3) Institute Marks : 3.00

- In line with the course objectives, the curriculum has been meticulously designed by the institution and is being strictly followed. The teaching/learning process has been structured accordingly. In addition to traditional blackboard teaching, we incorporate PowerPoint presentations and demonstrations using various physical models to emphasize the practical aspects of the subjects.
- Students are also provided opportunities to visit project sites and industries to enhance their skills. Continuous evaluation is carried out through assignments, quiz, surprise test, mid-term examination, seminars, laboratory assessments, and project work. Students are regularly informed of their performance to help them identify areas for improvement.
- Additionally, students are given opportunities and platforms to pursue and enhance their interests beyond academics. It has been observed that many students excel in their chosen fields of interest, demonstrating notable progress and success.
- Feedback is regularly collected from students, parents, alumni, employers, industry experts, and academic professionals to identify potential modifications for improving the achievement of the desired course outcomes. The departments advisory committee, along with the 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 CO's Mapping: 25 Marks / 25 Marks **Total: 15+25= 40 Marks**
		End Semester Examination: 60 Marks (External Exam)
	Indirect Attainment	Course Exit Survey
	Computation of Direct CO attainment in the Course: **40% of Internal Examination attainment + 60 % of End Semester Exam attainment**	
	Computation of Overall CO attainment in the Course: **80 % of Direct CO attainment + 20 % of Indirect CO attainment**	
LAB	**Direct Attainment**	**Assessment Tool** (planning and execution of Experiment, interpretation of the Results, Report writing and viva voce)
	Indirect Attainment	Course Exit Survey

Computation of Overall CO attainment in the Course: 80 % of Direct CO attainment + 20 % of Indirect CO attainment			
Project		Direct Attainment (external assessment 80% weightage and 20% internal assessment)	Assessment Tool (Project execution and Presentation, Viva-Voce and Report writing)

Description of Attainment Level for Direct Assessment		
Assessment Methods	Attainment Levels	
Internal assessment - Quiz + Assignment+ Mid exam	Level 1	50 to 59% of the students secure 75 % or more marks
	Level 2	60 to 69% of the students secure70% or more marks.
	Level 3	>=70% of the students secure 70% or more marks

External Assessment (End semester exam)	Level 1	50 to 59% of the students secure 50 % or more marks
	Level 2	60 to 69% of the students secure 60% or more marks
	Level 3	>=70% of the students secure 70% 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.

5.4.2 Record the attainment of Course Outcomes of all first year courses (5) Institute Marks : 5.00

Sl. No.	Course Code	Course Name	course Code	CO1	CO2	CO3	CO4	CO5	Avg.
1	C101	Mathematics-I	20BTTS0101	1.54	2.45	2.67	2.35	2.12	2.15
2	C102	Engineering Chemistry	20BTTS0102	2.50	2.40	2.44	2.80	2.50	2.58
3	C103	Basic Electronics Engineering	20BTTS0103	2.62	2.70	2.73	2.45	2.27	2.64
4	C104	Basics of Civil Engineering	20BTTS0104	2.40	2.60	2.67	2.45	2.12	2.588
5	C131	Communicative English	20BTTH0101	2.2	2.50	2.6	2.25	2.06	2.568
6	C132	Eng. Chemistry Lab	20BTTP0102	2.25	2.50	2.39	2.27	2.06	2.382
7	C133	Basic Electronics Engineering Lab	20BTTP0103	2.00	2.50	2.37	2.25	2.40	2.376
8	C134	Basics of Civil Engineering Lab	20BTTP0104	2.11	2.25	2.40	2.6	2.2	2.332
9	C135	Engineering Graphics & Design Lab	20BTTP0105	2.45	2.20	2.27	2.35	1.94	2.274
10	C151	English Language Lab	20BTTH0101	2.4	1.84	2.39	2.27	2.5	2.332
11	C154	Mathematics-II	20BTTS0204	2.50	2.45	2.6	2.35	2.35	2.488
12	C152	Engineering Physics	20BTTS0202	2.45	2.30	2.11	1.94	2.31	2.174
13	C151	Basic Electrical Engineering	20BTTS0201	2.50	2.40	2.39	2.94	2.54	2.62
14	C154	Basics of Mechanical Engineering	20BTTS0203	2.35	2.40	2.50	2.25	2.35	2.404
15	C155	Engineering mechanics	20BTTS0205	2.60	2.47	2.11	2.31	2.12	2.242

19	C159	Programming for Problem Solving using C	20BTES5259	2.48	1.84	2.39	2.38	2.38	2.90
17	C152	Business communication and life skills	20BTHS5252	2.80	2.11	2.39	2.14	2.26	2.27
18	C151	Engg. Physics Lab	20BTPS5251	2.93	2.47	2.39	2.40	2.16	2.58
19	C151	Basic Electrical Engineering Lab	20BTPS5201	2.53	2.42	2.39	2.04	2.04	2.52
20	C153	Basics of Mechanical Engg. Lab	20BTPS5253	2.06	2.33	2.48	2.53	2.50	2.488
21	C159	Workshop Practice	20BTPE5259	2.40	2.8	2.49	2.37	2.47	2.488
22	C151	Programming for Problem Solving using C Lab	20BTPE5251	2.53	2.48	2.47	2.40	2.5	2.48

5.3 Attainment of Program Outcomes from final year courses (20) Total Marks 20.00

6.3.1 Indicate results of evaluation of each relevant PO and/or PSO, if applicable (10) Institute Marks : 10.00

POs Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engine	2.49	2.48	2.47	2.47	2.5	2.11	0	0	0	0	0	2.48
Engine	2.47	2.47	2.47	2.47	2.48	1.89	0	0	0	0	0	0
Basic I	2.47	2.48	2.47	2.42	0	0	2.77	2.48	0	0	2.47	2.48
Basics	2.47	2.48	2.48	2.42	2.48	0	2.77	2.49	0	2.48	2.47	2.48
Comm	2.47	2.44	2.44	2.48	2.48	0	2.77	2.47	0	2.48	2.47	1.48
Engine	2.43	2.48	2.45	2.5	2.48	2.47	2.77	2.48	2.47	2.47	2.47	2.48
Engine	2.48	2.42	2.48	2.27	0	0	0	0	0	0	30	0
Basics	2.45	2.44	2.46	2.5	0	0	0	0	0	2.48	2.45	2.47
Engine	2.47	2.47	2.45	2.5	2.48	0	0	0	2.45	2.48	2.45	2.47
Engine	2.42	2.47	2.45	2.5	2.48	2.45	2.47	2.48	2.49	2.48	2.45	2.47
Basics	2.42	2.47	2.45	2.5	0	2.45	2.47	2.48	0	0	2.48	2.47
Basic I	2.5	2.5	2.24	2.5	2.97	0	0	0	0	2.47	2.55	2.47
Eng. C	2.28	2.4	2.39	2.5	0	0	0	0	0	0	0	2.5
Basic I	2.5	2.5	2.97	2.28	0	2.55	2.11	2.5	0	0	0	2.47
Basics	2.34	2.48	2.11	2.68	2.48	2.45	0	0	0	0	2.28	2.38
Engine	2.5	2.34	2.16	2.64	2.37	2.34	2.28	2.28	2.11	0	0	2.2
Englsh	2.47	2.38	2.5	1.64	2.5	0	0	2.11	2.4	2.58	2.11	2.47
Eng. P	2.2	2.5	2.11	2.5	0	0	0	0	0	0	0	0
Basics	2.5	2.57	2.34	2.47	0	0	2.48	2.11	2.34	2.2	2.28	2.4
Workst	2.4	2.5	2.2	2.48	2.1	2.4	1.88	2.5	2.11	2.48	2.48	2.48
Engine	2.5	2.55	2.45	2.47	2.11	0	0	2.11	2.45	2.48	1.95	2.64
Basic I	2.38	2.55	2.5	2.64	2.4	2.28	0	0	0	0	2.38	2.58

PO Attainment Level

PSOs Attainment

Course	PSO1	PSO2	PSO3
Engine	2.45	2.47	2.48
Engine	2.5	2.48	2.48
Basic1	2.5	2.1	2.48
Basic	2.47	2.49	2.48
Comm	2.47	2.49	2.48
Engine	2.45	2.53	2.48
Engine	0	0	0
Basic	2.45	2.48	2.47
Engine	2.44	2.48	2.5
Fragile	2.5	2.41	2.48
Busine	2.45	2.48	2.1
Basic1	2.47	2.59	2.59
Eng. C	0	0	2.5
Basic1	3	2.2	2.25
Basic	3	2	2.5
Engine	3	1.9	2.2
Englar	3	1.7	2.3
Fragile	2.33	2	2.19
Workst	1.5	2.1	2.2
Basic	2	2.2	2.48
Basic1	2.25	2.38	2.4
Eng. P	2.33	2	2.25

PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	2.48	2.29	2.42
PSO Attainment	2.48	2.29	2.42

5.1.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10) Institute Marks : 10.00

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

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.5	2.470	Regularly evaluate course content to ensure alignment with PO1, which typically emphasizes applying engineering knowledge. Incorporate real-world problem-solving, design projects, and case studies to strengthen analytical skills. Conduct periodic reviews through stakeholder inputs, including faculty, industry experts, alumni, and students. Use rubrics, surveys, and performance metrics to assess student achievements.
curriculum revisions remedial classes practical projects student mentoring enhanced assessments			
PO 2 : Problem Analysis			
PO 2	2.19	2.287	These include introducing problem-solving workshops and real-world case studies to enhance analytical and critical thinking skills. Industry-oriented projects and internships provide students with exposure to complex engineering problems, encouraging them to apply theoretical knowledge practically. Collaborative learning sessions and group discussions are conducted to foster teamwork and exchange of ideas. Faculty mentorship ensures personalized guidance to address individual weaknesses. Additionally, continuous assessment through quizzes, assignments, and mock evaluations helps monitor progress and reinforces conceptual understanding to meet the desired outcomes effectively.
advanced problem-solving exercises study discussions mentoring sessions specialized workshops focused assessment enhancements			
PO 3 : Design/development of Solutions			
PO 3	2	2.140	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.
Students are motivated to include all standard parameters and considerations according to National and International safety norms and to address environmental concerns			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.982	1.984	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
Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level.			
PO 5 : Modern Tool Usage			
PO 5	1.791	1.589	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
Modern labs are developed to demonstrate the use of Modern tools like MATLAB, PLC, SCADA etc. to specify fulfillment of requirement in engineering applications in real industrial era.			
PO 6 : The Engineer and Society			
PO 6	1	1.171	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.
To understand the safety concerns and social aspects, students visited industry to expand their practical knowledge with the effect of improved practices in engineering.			
PO 7 : Environment and Sustainability			

PO 7	0.909	0.870	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
Students are encouraged to indulge in projects, in which global and environmental issues are involved, with respect to consumption of energy and utilization of renewable energy resources.			
PO 8 : Ethics			
PO 8	0.60	1.000	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
Yoga classes are conducted to improve the moral values. More courses/topics on ethics, business ethics will be added. Invited/guest lectures may be arranged related to value education.			
PO 9 : Individual and Team Work			
PO 9	1.045	0.909	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in electrical engineering.
Institute has initiated Program which provides a platform to work in individual as well as a group. In the fields of Engineering helps the students to groom the skills like leadership, effective team member.			
PO 10 : Communication			
PO 10	1.356	1.410	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.
Soft skills training is imparted to students to enhance various aspects of communication/technical skills by group discussions, presentations and real learning outcomes.			
PO 11 : Project Management and Finance			
PO 11	1.1	1.231	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.
The awareness created among the student regarding the management principles and managing projects. Introduction of project budgeting and cost estimation in courseworks.			
PO 12 : Life-long Learning			
PO 12	1.704	1.579	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.
ACTION1: Using ICT facilities, such as PPTs, live demonstration of topics imparted using video lectures. ACTION2: Encouraging participation in research activities and skill development programs.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To empower the students to become practicing engineers so as to solve the global problems.			
PSO 1	2.500	2.450	Empower students to become practicing engineers to solve global problems through innovation, sustainability, and technological advancements.
Action 1 : Provide industry exposure, research opportunities, hands-on training, interdisciplinary learning, problem-solving projects, mentorship, and global collaborations to enhance skills.			
PSO 2 : To enable students to undertake higher studies, collaborative research and entrepreneurship in the global environment.			
PSO 2	1.950	1.95	Enable students to pursue higher studies, collaborative research, and entrepreneurship in a global environment through innovation and interdisciplinary learning.
Action 1 : Offer research opportunities, industry collaborations, entrepreneurial training, mentorship programs, skill development workshops.			
PSO 3 : To empower the students to design any specific product required for industry and society using the knowledge of network theory, power system, control system and power electronic based drives.			
PSO 3	1.88	2.025	Empower students to design industry-specific products using network theory, power systems, control systems, and power electronic-based drives for societal needs.
Action Taken: Provide hands-on training, industry projects, research opportunities, advanced labs and expert mentorship			

9 STUDENT SUPPORT SYSTEMS (50) Total Marks 50.00

9.1 Mentoring system to help at individual level (I) Total Marks 5.00

include blanks : 0.00

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 and moments 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 which 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, supporting, empathetic, positive, non-judgmental and good listeners.
- The mentor is a role guide, educational companion and agent of change for the student.
- Mentors have the skills to observe and provide constructive feedback.
- The mentors continuously monitor, counsel, guide and motivate in all academic matters.
- They help in choice of electives, project, summer training etc.
- Contact parents/guardians if needed, for academic irregularities, negative demeanour, 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/Head 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 's 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/Viva/ 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 atleast 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.

3.2 Feedback analysis and record corrective measures taken, if any (10) Total Marks 10.00

Institute Marks : 12.00

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

Corrective Measures:

Year	No. of faculty members acquiring less than 70%feedback	Corrective action taken
2023-24	01	Counseling by DAC
2022-23	01	Counseling by DAC
2021-22	01	Counseling 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 Newton's 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 lab/tutorial sessions (if applicable)	☐	☐	☐	☐	☐
6	Use of real-world examples and problem-solving approaches	☐	☐	☐	☐	☐
7	Opportunities for interaction and doubt clarification	☐	☐	☐	☐	☐

Section D: Suggestions for Improvement

1. What did you like the most about the 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 ☐ Undecided ☐ Others)

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 3: 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 BPUT, Odisha, Approved by AICTE, Accredited by NAAC)

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

Section C: Suggestions for Improvement

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

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

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

4. Any other comments or feedback

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

Dean Academics
GITA Autonomous College, Bhubaneswar

GITA Autonomous College, Bhubaneswar

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

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

Dear Alumnus/Alumna,

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

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

Assessment of Program Outcomes (POs)

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

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

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

Assessment of Program Specific Outcomes (PSOs)

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

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

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

Assessment of Program Educational Objectives (PEOs)

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

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

Sl. No.	Program Educational Objectives (PEO)	Rating (1 to 5)
1.	Core Knowledge: Graduates will have a strong foundation in mathematics, 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, mentorship, or industry collaborations? (Yes/No)
4. Any other suggestions/comments:

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

Signature: _____
Date: _____

GITA Autonomous College, Bhubaneswar

SRM 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 SRM Autonomous College Graduates Employed in Your Organization: _____

Assessment of Program Outcomes (POs)

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

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

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

12.	Life-long Learning: Recognition of the need for and the ability to engage in independent and lifelong learning.	

Assessment of Program Specific Outcomes (PSOs)

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

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

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

Additional Feedback

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

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

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

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

Signature: _____
Date: _____
GTA Autonomous College, Bhubaneswar

GTA Autonomous College, Bhubaneswar

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

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

Dear Parent/Guardian,

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

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

Assessment of Program Outcomes (POs)

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

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

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

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

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

Additional Feedback

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

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

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

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

Signature: _____
Date: _____

SITM Autonomous College, Bhubaneswar

9.3 Feedback on Facilities (5) Total Marks 5.00

include blanks : 0.00

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 Feedback Committee 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 for immediate implementation.

GITA Autonomous College, Bhubaneswar

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Students' Satisfaction Survey (SSS)

Dear Student,

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

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

Section 1: Teaching-Learning and Academic Environment

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

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

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

Section 2: Infrastructure and Learning Resources

Sl. No.	Parameters	Rating (1 to 5)
1.	Availability and accessibility of library resources (books, e-resources, etc.).	

2.	Functionality and accessibility of computing facilities and laboratories.	
3.	Internet and Wi-Fi availability for academic purposes.	
4.	Classroom environment, seating, lighting, and overall cleanliness.	
5.	Sports, extracurricular activities, and recreational facilities.	

Section 3: Career Readiness and Placement Support

Q. 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

9.4 Self-Learning (5) Total Marks 5.00

Include Marks : 5.00

Self-Learning

- Library facility available beyond working hours
- Recorded video sessions 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 centralized computer facility with internet even beyond class working hours.

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

9.3 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 dissemination of information through website.
- Counseling 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 13 years.
- In house GATE coaching class is conducted for each batch of students.
- In house aptitude building courses (Quantitative Aptitude and Reasoning) are imparted to the students from the beginning of first semester.
- In house programming skill improvement courses (Java, Python, C, and) 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 80 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 often select reputed universities.
- The effectiveness of the training program is analysed by the feedback collected from each and every student and the continuous improvement in the placement record.

Infrastructure of Training & Placement Cell of ISTA

S.No	Room No	Area	Other Facilities	Remarks
1	Placement Room – 1	800sq.Mtr	A.C D.D.Tables and Chairs	Used for conducting GD Practice and tests during Campus Placement Drives
2	Placement Room – 2	80 Sq.Mtr	A.C D.D.Tables and Chairs	Used for conducting GD Practice and tests during Campus Placement Drives
3	PlacementOffice	54.20Sq.Mtr	A.C Strong Arrangement to Offic ers	Used to strong all Officers
4	TrainingRoom	1050sq.Mtr	A.C, LCD Projector, Audio-visual Unit	Used for providing training Soft skill and technical to students

5	Smart Room	100 Sq.Mtr	A.C. LCD Projector,Audio-visualUnit	Used for providing training&softskill and technical instruments
6	Auditorium	250 sq. mtr	A/C, Audio-visual systemwith LCD Projector	Used for holding Seminars,Interaction with industryprofessionals and thePlacementTalksyConvenies
7	Personal InterviewRooms(3)	20sq.mtr.e ach	A/C, Interview Tablewith computer chairs	Used for conducting mockPersonal Interviews duringtraining and th duringCampusPlacement Drives
8	Pantry	40 sq. mtr	A.C. Dining Hall	Used for Providing quicklunchbot during meetings andCampus Placement Drives
9	Rest Room	30 sq. mtr	A.C. double toilet&bath	Used for delegates to take restat the time of need duringCampus Placement Drives

Office bearers with responsibilities:

Sl.No.	Designation	Responsibilities
1	Director Corporate Relation	Heads the dept ,takes decisions, monitorsactivities, reviews performance ,recommends measures for improvement
2	Asst. Director Corporate	Meets companies, motivate and convinces them for interaction,arranges campus placement drives
3	TrainingHead	Arranges resource persons for training, imparts soft skillstraining
4	SeniorPlacementOfficer	Meets companies motivate and convince them formaketion,arranges campus placement drives
5	PlacementOfficer	Meets companies motivate and convince them formaketion,arranges campus placement drives
6	TrainingOfficer	imparts soft skill training
7	TrainingCoordinator	Co-ordinates with resource persons,maintains offcial recordsof training

8	Data Entry Operator	Keeps all types of records,panda database of students toocompanies helps in placement activities

The Director, Corporate Relations heads the Training and Placement Department controlling two individual wings under him. He is responsible for managing the department and taking all the decisions that are helpful for the students of the institution. The Training Head arranges the resource personal 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 department to know about the breadth and depth of course material required for imparting effective training and also participates in technical training as and when required. The placement record of the institution is persistently increasing year by year.

5.6 Entrepreneurship Cell Total Marks 5.00

include blanks : 0.00

EDP & IPC Center, an autonomous non-profit body established in 2011, is sponsored by the widely acclaimed SITM Autonomous College, Bhubaneswar, the foremost technological institute in the outskirts of the city of Bhubaneswar, in the state of Odisha. To pursue its mission, SITM 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 onwards in 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.

OBJECTS:

1. Entrepreneurship is a vehicle that facilitates inclusive growth of society.

2. Entrepreneurship education, training and counseling can hasten the emergence of progressive entrepreneurship.

3. Entrepreneurship encourages youth to seek innovation and challenges thus leading to optimal utilization of resources and wealth creation.

4. Increased incidents of entrepreneurship are an indicator of national economic growth.

5. The nation can be placed on a high growth trajectory by unleashing its enormous growth potential through an entrepreneurship culture.

LIST OF ACTIVITIES OF EDP AND IPC CELL:

Sl No.	Date	Activity/Function/Competitions/Venue	Participants/Audience	Speaker/Resource Person	Photos
1	12TH Jul 2021	Selection and interview of aspirant & leaders for current session	Students of 2nd year& 3rd year. Around 40 students for different areas of events were selected.	Prof. N.P.Patro	

3	25th Oct 2021	Quiz and Poster Designing Competition.	All together 23 students Participated including both the category	Prof. N.P Patro and all Pre B -leaders	
3	3rd Jan 2022	Promotion work for EAC programme in upcoming months	All B-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 Hayden Convention hall	Five B-leaders of BDF & I/PC Centre	Mr. D.S Ravindra Raju, Chairman CII Odisha Mr Tapan Kumar Chand, Chairman & MD, NALCO Shri Binaya K Singh, IAS, MD & CEO of DCAC Shri Sanjeev Chopra, secretary, Dept. of mission S, DIIC, IPICOL Mr. Sanjay Patnaik, Vice Chairman CII, Odisha	
5	11th Mar to 12th March 2022	Entrepreneurship Awareness Camp 2022 (EAC 1)	110 B.tech students registered their names for the programme	Sri S.K. Rath, MSME Sri Gopal Roy, EDII, BBSR Mr.Damodar Mishra, NABARD Prof Pol. Mohanty, BPA Mr.Dibyasingh Mishra, DIC	

8	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	UNGARAJ BISCUITS(P) LTD/Parle Biscuits Chandaka, Near Silicon Engg. College Bhubaneswar	
9	11th Apr 2022 to 14th Apr 2022	Entrepreneurship Awareness Camp 2022 (EAC 2)	50 Btech students participated in the programme. This is the valedictory session with issue of certificates of participation.	Chief Guest Sri D P Pattnaik Executive Director- EDII Bhubaneswar Mr.Damodar Mishra, NABARD Dr.Sangram Mohanty MSME Sri B.P Panda, EDII Sri S.V Ram, WSHE Sri Gopa Roy, EDII, BBSR	
10	16th 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. Manitheaver Industrial Estate, Bhubaneswar, Odisha 751007	
11	12th Aug 2022	Session 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. U.P Pano, Prof. Dr.M.K Mishra	
12	22nd October 2022	Quiz and Poster Designing Competition on the occasion of 3rd Anniversary of EDP & IPC Centre	All together 49 students Participated including both the category	Prof. U.P Pano and all the E-leaders	

11	19th Dec-20th Dec 2013	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 2013	Debate competition organised by the EDP & IPC cell.	50 students Participated in the event.	Prof. S.P Patro, Prof. Dr.A.K Mishra Prof Bidyadhar Rout Prof. Sujit Khandai Prof. Surya Narayan Mohanty Prof. P.K Mohanty	
13	3rd Feb 2013 to 8th Feb 2013	Entrepreneurship Awareness Camp 2013 (EAC 1)	60 Batch students registered their names for the programme	Prof Baisali Prasad, NEN Dr S.K. Nath, IIEMB Dr Gopal Roy, EDII, BBSR MrSamudar Mishra, NABARD MrDibyasinghKhora, DIC	
14	7th Feb 2013	Industry visit for the EAC 1	All the participants of EAC 1 along with branch coordinator and some of the Sreaders	In the campus of (INDARA) BISCUITS(P) LTD(Rare Biscuits Chandaka, Near Silicon Engg. College Bhubaneswar, after the industry visit	
15	22nd Mar 2013	Interactive session on Start ups at Mayfair Conventional Hall	Five Sreaders of EDP & I PC Centre	MrRajeshwaranVice President, Google, South East Asia	

16	28th Feb to 3rd March 2023	B-week 2023 in GITA Campus	10 groups participated in the competition and at the end of the program all the participants gave the presentation regarding their business performance.	Top performers in the competion were awarded with cash prize after the presentation.	
17	31th Mar 2023 to 2nd Apr 2023	Entrepreneurship Awareness Camp 2023 (EAC 2)	80 B-tech students registered their names for the programme	Dr S K Nath, MANE Sri Gopal Ray, EDII, BBSR M Damodar Mishra, NABARD Prof P K Mohanty, GITA M 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 B-leaders	Press Session with S.S.N Panda, Chairman, Joy Bharat Masala Group, after the industry visit by the participants of the EAC.	
19	16th Aug 2023	Selection and interview of aspirant B- leaders for current session	Students of 2nd year & 3rd year. Around 45 students for different areas of events were selected.	Prof. N.P Patra, Prof.Dr.K.K Mishra	

20	18th Oct 2023 to 21st Oct 2023	Entrepreneurship Awareness Camp 2023 (EAC 1)	93 B.Tech students registered their names for the programme	Sri Dibyajyoti Mishra, DIC Sri Maheswaraiah, DIT, Sri Damodar Mishra, Nalgarh Sri S Panda, EDII, BBSR Sri Gopal Roy, EDII, BBSR	
21	9th Nov 2023	Workshop on Entrepreneurship Development Skills	60 Students participated in workshop	Sri Raman Das, INDRA Group, Prof. N.P Patro, Prof (Dr.) K. Mishra	
22	12th Dec to 23rd 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	
23	3rd Jan 2024 to 19th Jan 2024	Faculty Development Program in Entrepreneurship 2024	75 faculties took part in the programme.	The FDP was conducted by EDP & IPC Centre CITA, Bhubaneswar in association with EDII in the aegis of NSTEDB	

	11th January 2024	Career Counseling organised by EDP & IPC Centre	250 students from all branches took part in the programme.	The programme was coordinated by Prof N.P Patro,&Prof(Dr.Manoj Pradhan.	

9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

Institute Marks : 12.00

The institution provides ample scope for the students to participate in social service activities through various activities. 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 activities 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 message. 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 a large number of spectators. The Athletic Society provides a great scope for the students of the institution to prove themselves physically and for imbibing sportsmen spirit in themselves. The students of the institution achieved great success in various competitions organised 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	Bina Global University, BBDP	16.03.24-20.03.24	Inter university sports meet	Cricket	Runners up trophy & cash
2	GIET, GGSIP	1/03/24-2/03/24	Engineers Cup- 2K24	Football	Champions Trophy & Cash
3	TITE, BBDP	02/03/24-05-03-24	Summer T-20 cup	Cricket	Champions Trophy & Cash
4	MIEMT, Bura	7/03/24-14/03/24	IUBM-2K24	Football	Runners up trophy & cash
5	IHGT, Santampur	04-03-2024 -07.03.2024	Inter college sports meet	volley	Runners up trophy & cash Prize
6	GITA, BBDP	24/02/24-28-02-24	ICAT-2K24	Basket ball	Champions Trophy & Cash
7	DSC, BBDP	09-03-24-11-03-24	ICSM-2024	Cricket	Champion's Trophy & Cash Prize.
8	CVRICE, BBDP	20/03/24-26/03/24	ICSM-2024	volley	Runners up trophy & Cash

Achievements in inter college sports meet (2022-23)

Sl. No	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements

1	Birla Global University,BBSR	18.01.23-20.01-23	Inter university sports meet	Cricket	Runners up trophy & cash
2	CET, BBSR	19/02/23-21/02/23	Engineers Day-2K23	Football	Champions Trophy & Cash
3	ITER, BBSR	23.01.23-26.01-23	SummerT-20 cup	Cricket	Champions Trophy & Cash
4	VSSUT, Burla	12/02/23-14/02/23	IUSM-2K23	Volley	Runners up trophy & cash
5	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTSAHAN 2K23	Volley	Runners up trophy & Cash
6	IGIT, Saranga	09/03/23-12/03/23	All Odisha Sports Carnival UTSAHAN 2K23	Basket ball	Runners up trophy & Cash
7	NIST, Berhampur	04.05.2023 -07.05.2023	Inter college sports meet	Cricket	Runners up trophy & cash Prize
8	GITA, BBSR	24/02/23-26-02-23	IGNT-2K23	Cricket	Champions Trophy & Cash
9	CEC, BBSR	26-01-23-27-01-23	ICSM-2023	Football	Champion's Trophy & Cash Prize
10	CVRCE, BBSR	23/02/23-26/02/23	ICSM-2023	Football	Runners up trophy & Cash

Achievements in inter college sports meet (2021-22)

Sl. No	Place of participation	Date of Participation	Name of the Event	Team Participation	Achievements
1	Orissa Institute of Technology,BBSR	04-02-22 to 06-02-22	10th ICSM-2022	Volley Ball	Champion's Trophy & Cash prize
2	NIST, Berhampur	15-02-22 to 18-02-22	4th VALLIANT CUP-2K22	Volley Ball	Champion's Trophy & Cash prize
3	RITE, Bhubaneswar	21-02-22 to 23-02-22	ICSM-2022	Cricket	Runners up trophy & Cash prize

4	GITA, Bhubaneswar	17-02-22 to 19-02-22	Dr MP Memorial IOST-2K22	Cricket	Runners up trophy & Cash prize
5	Biju Patnaik University, BBSR	27-02-22 to 28-02-22	IOSM-2022	Cricket	Runners up trophy & Cash prize
6	ABIVP, Odisha	27-04-22-29-04-22	Inter college cricket tournament-2K22	Cricket	Runners up trophy & Cash prize
7	BPUT, Odisha	01-04-22-03-04-22	Pinto Memorial cricket tournament-2K22	Cricket	Champions Trophy & Cash prize
8	CET,BBSR	14-03-22-17-03-22	Engineers Cup-2K22	Whip ball	Runners up trophy & Cash prize
9	CUTM, BBSR	17-12-21-19-12-21	CITLS-2K21	Cricket	Champion's Trophy & Cash prize
10	VSSUT, Burla	12-02-22-17-02-22	IOSM-2K22	Whip	Champions Trophy & Cash prize
11	TITE, BBSR	03-04-22-09-04-2022	Survivor(T-20 Inst	Cricket	Champions Trophy & Cash prize
12	CVR GE, BBSR	12-02-22-17-02-22	IOSM-2022	Football	Champions Trophy & Cash prize
13	GEC, BBSR	03-01-22-08-01-22	IOSM-2022	Football	Runners up trophy & Cash
14	AIIMS, BBSR	08-01-22-12-01-22	IOSM-2022	Basket Ball	Runners up trophy & Cash
15	Trident Academy of Technology	22-12-21-24-12-21	Inter college Sports meet-2K21	Cricket	Runners up trophy & Cash prize

Co-Curricular Activities:

(2022-23)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievements
1	SADHANA SEKHAR RANDA	Coading, SIIT, BBSR	Aug, 2023	2nd
2	ARIJEET CHAKRA	Dric Building, GITA, BBSR	Jan, 2024	2nd
3	ROHIT PATEL	ROBO WAR, CUTCE University, BBSR	Oct, 2023	1st
4	ABHUTOSH KANGSARAJ	Paper Presentation, GITA, BBSR	Jan, 2024	3rd

4	BHAVAN SHANKAR PANIGRAHI	INNOVADON, GITA, BBSR	Jan, 2024	2nd
5	JADASON LUBUN	CART Design, KIIT University, BBSR	Nov, 2023	2nd
7	LOKESH PRASAD SINGH	Start Up India, CET, BBSR	Dec, 2023	2nd
8	SOUBHAGYA RANJAN JENA	DGMO, GIET, Gunupur	Jan, 2024	3rd
9	ADITYA KUMAR PATRA	Technical Paper Presentation, GIET, BBSR	Sept, 2023	3rd
10	ANKIT PRADHAN	C- Coding, KIIT University, BBSR	Aug, 2023	3rd
11	ASISH KUMAR NAYAK	Bio-CART, Trident, BBSR	Jan, 2024	2nd
12	DURGA MADHAB SAHOO	HACKATHON, SOA University	Sept, 2023	2nd
13	JATIN AMRESH KUMAR SAHOO	Project Fair, GITA, BBSR	Jan, 2024	1st
14	ARUNANSHU MISHRA	Paper Presentation, GIET, BBSR	Nov, 2023	2nd
15	BIDYUT PRADHAN	RNMS, CIRCE University, BBSR	Sept, 2023	3rd

(2023-24)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	BISWAJEET DAS	Panthalahon, CVRC University	Oct, 2022	2nd
2	ARUSDIPTA NAYAK	Paper Presentation, CET, BBSR	Aug, 2022	2nd
3	CHIRU SAHA	CIRCUITRIX, Silicon, BBSR	Sept, 2022	3rd
4	SUDHANSHU SEKHAR AGRAL	HACKATHON, SOA University	Oct, 2022	3rd
5	MD SAIF	Technical Paper Presentation, HVBB, BBSR	Dec, 2022	2nd
6	YOPHAN PRADHAN	ROBO WARFAIR, VSSUT, Burla	Jan, 2023	1st
7	RAJAN KUMAR KUSHWAHA	Project Fair, GITA, BBSR	Jan, 2023	1st
8	DIPENDRA KUMAR PANDEY	CAD Modelling, GIET, BBSR	Sept, 2022	2nd
9	BIKASH KUMAR NAYAK	TECH QUIZ, GITA, BBSR	Oct, 2022	1st
10	MOHAMMED AQUIB JAWED	Ship Building, GITA, BBSR	Jan, 2023	1st
11	KALUHAL KUMAR	Robotics Competition, GIET, Gunupur	Oct, 2022	2nd
12	SURESH KUMAR PRADHAN	Treasure Hunt, GITA, BBSR	Jan, 2023	1st
13	RAMESWAR SUNA	Paper Presentation, CET, BBSR	Jan, 2023	1st
14	JYOTIPRAKASH ROUT	C- Coding, KIIT University	Oct, 2022	3rd

19	MEER NADEEM ASHRAF	HACKATHON CONDUCTED @ SIT, REWA	Sept. 2022	1st

(2021-22)

Sl. No.	Name of the Participants	Name of the Event	Month & Year	Achievement
1	ABHISHEK BALMIKIISH	Paper Presentation, SIET, BBSR	Aug. 2021	2nd
2	ARPAN SAIG	Ship Building, GITA, BBSR	Jan. 2022	2nd
3	ABHIJIT TRIPATHY	Robotics Competition, SIET, BBSR	Dec. 2021	1st
4	SIDDHARTH PRADHAN	CAD Modelling, GIFT, BBSR	Jan. 2022	2nd
5	BHARATKRUSHNA SWAINTAGHONAR	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, SIET, Gunupur	Nov. 2021	3rd
10	MD SHEESH SHOAN	Paper Presentation, GITA, BBSR	Dec. 2021	2nd
11	SIDHIT MRIDUL	C- Coding, KIIT University, BBSR	Jan. 2022	3rd
12	HARSH RAJ	CAD Modelling, CVRCE University	Oct. 2021	2nd
13	PRAJNAYA SWARAM BEHURA	Technical Paper Presentation, GIFT, BBSR	Nov. 2021	1st
14	JITENDRA JENA	HACKATHON, SOA University	Dec. 2021	2nd
15	RADHUBIR MAJHI	C- Coding, IVIT, Rourkela	Sept. 2021	3rd
16	PRANAV SANGADHAR MOHANTY	Paper Presentation, SIET, BBSR	Jan. 2022	2nd
17	MD SAHDAB BADA	Bridge Building, GITA, BBSR	Jan. 2022	3rd
18	SASHANKA SEKHAR PANDA	Modelling in CAD, Tridem, BBSR	Dec. 2021	2nd

Cultural Activities:

Cultural activities are encouraged in the institute and a group of faculty members guide, help and conduct activities such as Bhumi, Dansa and Drama. Inter departmental literary programmes is conducted every year. Students are actively participating in various inter-university cultural events. Activities of this kind help the students to mould their personality. A Cultural Co-Ordinator is coordinating all the cultural activities. Annual Cultural festival organized every year. More than 02 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 activities. 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 interest/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 organised in the institution or outside. The details of the achievements is given below:

Sl. No.	Date	Program Name	Place	Nos. of Students Present
1	27.11.2023	Afforestation and Tree plantation	Chhatabara	30
2	25.12.2023	Literacy	Kamala	50
3	03.01.2024	Programmes of Women & Child Care	Madanpur	70
4	09.02.2024	AIDs Awareness	Raghunathpur	80
5	15.02.2024	Dental Camp	GITA, Campus	85
6	23.02.2024	Anti-liquor Campaign	Arisala, Hatpur	105
7	26.02.2024	Blood Donation Camp	GITA, Campus	102
8	29.03.2024	Afforestation and Tree plantation	Madanpur	87
9	04.07.2023	Literacy	Raghunathpur	94
10	16.12.2023	Programmes of Women & Child Care	Bindrasgiri	75
11	17.08.2022	AIDs Awareness	Arisala, Hatpur	90
12	07.12.2022	Dental Camp	Arisala, Hatpur	80
13	09.08.2021	Anti-liquor Campaign	Kamala	40
14	06.12.2021	Blood Donation Camp	Madanpur	70
15	21.02.2023	Afforestation and Tree plantation	Raghunathpur	85
16	22.08.2021	Operation Cleaning	Balaraghunathpu r	95
17	21.11.2022	Programmes of Women & Child Care	Arisala, Hatpur	90
18	11.09.2023	AIDs Awareness	Raghunathpur	75
19	16.10.2023	Dental Camp	Jagakara	80
20	27.09.2022	AIDS awareness	Jamchori	70

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

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

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

Vision of Institute:

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

Mission of the Institute:

1. To impart high quality professional education to students worldwide, fostering innovation, technological advancement, discipline, effective communication skills, and strong moral values.
2. To provide a broad-based education that ensures the holistic development of students.
3. To leverage expertise in science, technology, and management to deliver comprehensive training in visualizing, synthesizing, and executing projects.
4. To nurture a spirit of entrepreneurship and innovation among students.
5. To undertake sponsored research and offer consultancy services 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 (15) Institute Marks : 15.00

Strategic Goals and Objectives

Year 1: Strengthening Academic Framework

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

Year 2: Research and Innovation Enhancement

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

Year 3: Industry-Academia Collaboration

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

Year 4: Infrastructure and Digital Transformation

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

Year 5: Institutional Growth and Global Outreach

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

Implementation Strategies

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

Monitoring and Evaluation

- Establish a Strategic Plan Implementation Committee for regular progress tracking.
- Conduct annual reviews and stakeholder feedback sessions.
- Align key performance indicators (KPIs) with accreditation and ranking frameworks.

- Utilize benchmarking with top institutions to assess performance improvements.
- Publish an annual strategic progress report for transparency and accountability.

10.13 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, SSI, Odisha	Chairman
2.	Dr. Chandra Dhoaj Panda	Secretary, QSI, Odisha	Member
3.	Dr. Bhanshi Narayan Panda	Vice Chairman, GITA Autonomous College, Bhubaneswar	Member
4.	Mrs. Basanta Manjari Panda	Trustee, VBST, Sonapur	Member
5.	Mrs. Pratima Panda	Trustee, VBST, Sonapur	Member
6.	Dr. L. N. Singh	Head, Department of Physics, Dean (R&D) 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, (IAS) (SAG)	Addl. Secy. to Government, Department of Skill Development and Technical Education, Govt. of Odisha (State Govt. Nominee)	Member
9.	Er. Manu Govind Mishra	Managing Director, Reinhardt Solutions Pvt Ltd	Member
10.	Dr. Pradeep Kumar Rautray	Dean Administration (Staff Representative)	Member
11.	Dr. Kishore Kumar Mishra	Dean Academics (Staff Representative)	Member
12.	Dr. Manmatha Kumar Raut	Principal	Secretary

Academic Council

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

Functions of the Academic Council:

The Academic Council shall have powers to:

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

- Perform such other functions as may be assigned by the Governing Body.

S.N	NAME	DESIGNATION	POSITION
1.	Prof. M.K. Rout	Principal	Chairman
2.	Prof. Srilatha Behera	Dean, SRIC, CUTR Bhubaneswar	Member
3.	Prof. Sujit Kumar Khuntia	Director (I/C, SPUT, Odisha, Rourkela	Member
4.	Dr. Vishwadhab 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 (WB)	Member
7.	Mr. Radhakanta Samantara	Vice-President, Infinite Computer Solutions, India	Member
8.	Dr. Sriram Panda	Director, IMT Bhubaneswar	Member
9.	Prof. Bhubyanjaya 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. Rautray	Dean Admin.	Member
13.	Prof. S.P.Patro	PIC (ECPS, IPC)	Member
14.	Prof. Srikanth Patro	Asso. Professor, Dept. ASEH	Member
15.	Prof. T.P. Panigrahi	HoD CSE	Member
16.	Prof. P.K. Bal	HoD CSE,DS	Member
17.	Prof. Bijayalaxmi Panda	HoD CST	Member
18.	Prof. P.K. Giri	HoD CST	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. Joygopal Jena	HoD CE	Member
25.	Prof. D.B. Mishra	HoD MCA	Member
26.	Prof. Janardan Dash	HoD MBA	Member
27.	Prof. B.P. Mishra	PIC (R&D)	Member

Board of studies:

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

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

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

DEPARTMENT OF CSIT

S.N	NAME	AFFILIATION	POSITION
1	Dr.Pankaj Kumar Sh	Professor& Head, Dept. of CSIT	Convener
2	Prof. (Dr.) Sanjaananda Mishra	Professor Dept. of CSE, IIIT, Sonepur	Member (Academia Expert)
3	Dr. Manas Ranjan Senapati	Asso. Professor, Head Dept. of IT, VSSUT, Burla	Member (Academia Expert)
4	Mr. BibekanandaBehera,	Senior Consultant- Technology Head (Azure Cloud Architect), Infosys, Bangalore	Member (Industry Expert)
5	Mr. Abdhs Kumar Nayak	Software Engineer, Motorola Solutions, Bangalore	Member (Alumni)
6	Prof. (Dr.) Dh Sanjeev Kumar Dash,	Professor, Dept. of CSE, SIT, Bhubaneswar	Member (BPUT Nominee)
7	Mr. Debasish Das	Asst. Professor, Dept. of CSIT	Member
8	Mr. Chandrakant Mallick,	Asst. Professor, Dept. of CSIT	Member
9	Mr. Subha Ranjan Das	Asst. Professor, Dept. of CSIT	Member
10	Mr. Lopamudra Das	Asst. Professor, Dept. of CSIT	Member

DEPARTMENT OF ECE

S.N	NAME	APPLIATION	POSITION
1	Prof.(Dr.) Dilip Kumar Nayak	Head, Dept. of ECE	Chairman

2	Prof.(Dr.) Tapas Kumar Patra	Dept. of Electronics and Instrumentation Engg., CUTM, 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 EEE	Member
5	Prof.(Dr.) Sarita Misra	Asst. Professor, Dept. of EEE	Member
6	Prof.Pranjya Paramita Pradhan	Asst. Professor, Dept. of EEE	Member
7	Prof.P.S. Das	Asst. Professor, Dept. of EEE	Member
8	Prof.(Dr.) Chandra Sekhar Mishra,	Asst. Professor, Dept. of EEE	Member
9	Prof. Sujit Khamari	Asst. Professor, Dept. of EEE	Member

DEPARTMENT OF EEE

S.N	NAME	AFFILIATION	POSITION
1	Dr. S.K. Swain	HOD EEE,	Chairperson
2	Dr. Srikalpa Behera	Professor, CUTM, EEEM,	Member (Academician)
3	Dr. P.C. Panda	Retd. Professor, IIT, Roorkee	Member Academician
4	Dr. D.P.Bagarthy	Assoc. Professor, CUTM,	Member (University Representative)
5	Er. Sukalyan Das	CEO, UNITECH, 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. A. Das	Asst. Professor, Dept. of EEE	Member

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, SITM,Autonomous College, Bhubaneswar	Chairman
2	Dr. P.K. Pandey	Dean Administration (Nominated by Governing Body)	Member
3	Dr. Jogdeep Jena	HOD CE (Nominated by Principal)	Member
4	Smt. Srimanitha Dehuri	Finance Officer of the Affiliating University	Member
5	Mr. K.K. Mishra	Accounts Officer, SITM,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.Rout	Principal	Chairman&Convener
2	Prof.(Dr.)K.K.Mishra	Dean,Academics	Member
3	Prof.(Dr.)Sasank Kumar Pradhan	Professor & HOD ,Department of Comp. Sc & Application, Utkal University	Member ,External-Academic
4	Dr.Hemadhara Tripathy	Senior System Analyst,IBM	Member ,External– Industry
5	Prof.(Dr.)S.K.Patra	Professor+HOD,ECE,NIT Rourkela	Member ,External-Academic
6	Mr.Manas Kumar Mishra	CEO, NEHAN Education Pvt. Ltd	Member ,External– Industry
7	Prof.(Dr.)Sonali Mishra	Retd. Principal, NIT Rourkela	Member ,External-Academic
8	Mr.A.Bhattacharya	DSM in charge, HOD Design, RSP Rourkela	Member ,External– Industry
9	Prof.(Dr.)Arabinda Routray	Professor,GE,IIT Kharagpur	Member ,External-Academic

10	Sr.Hr/nMaster	CEO,UTechEnterprises,Ltd	Member - External – Industry
11	Prof.(Dr.)D.P.Bagarty	Professor EHOD,EE Dept.,DIET,Bhubaneswar	Member - External-Academic
12	Sr.Ir.K.Mishra	Suptd.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, live & order environment, research facility, library & computing facility etc.

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.K.Rout	Principal	Chairman
2	Prof.(Dr.)K.K.Mishra	Dean, Academics	Convenor
3	Prof.(Dr.)P.K.Rautray	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. HSS	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.Rout	Principal	Chairman
2	Prof.S.P.Mohanty	Prof.-in-Charge	Member
3	Dr.B.K.Hota	Librarian	Convenor
4	Prof. C.K.Nayak	Representative, ME	Member

6	Prof. S. D. Pekley	Representative, EE	Member
8	Prof. S. K. Nayak	Representative, EEE	Member
7	Prof. S. Mishra	Representative, CSE	Member
9	Prof. S. Pradhan	Representative, ECE	Member
5	Prof. R. B. Mishra	Representative, ME	Member

Purchase Committee:

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

Sl.No.	Name	Designation	Position
1	Prof.(Dr.)M.K.Rout	Principal	Chairman
2	Prof.(Dr.)P.K.Rautray	Dean, Administration	Convenor
3	Prof.(Dr.)A.K.Mishra	Dean, Academics	Member
4	Prof.(Dr.) M. K. Pradhan	Dean Research &Development	Member
5	Prof.(Dr.) S.C.Mohapatra	Dean Student Welfare	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. From and technology involvement & updating state of the art technology implementation is the sole responsibility of this Wing.

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

General Procedure of Recruitment (Appointment Rules):

All posts at the Institute shall normally and, as far as possible, be filled by advertisement, but, the "GB" shall be the sole competent 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 traveling 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):

i) 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.

ii) 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.

iii) 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.

iv) Assistant Professor to Professor:**

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

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

** A faculty member serving as Assistant Professor may be considered for promotion to the post of Associate Professor if he/she/they (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 5 years of teaching experience out of which 3 years must be as an Assistant Professor(3) has at least 250 research merit points or equivalent research/academic work to his/her credit.

10.1.4 Decentralization in working and grievance redressal mechanism (5) Institute Marks : 5.00

Decentralisation 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 comprises 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.) R. K. Rout	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, IDM
3	Prof.(Dr.) Sanat Chandra Mohapatra	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 IQAC	Overall Quality assessment and development of the Institution
7	Prof.(Dr.) A. S. Gahlaut	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 Rayi	Warden of Girls' Hostels	Administration of Girls' Hostels

Women's Grievance Cell:

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

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

Grievance Redressal Committee

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

SC/ST grievance Committee

S.N	NAME	DESIGNATION	POSITION
1	PROF.(DR.) M.K. ROUL	PRINCIPAL	CHAIRMAN

2	PROF (DR.) M.K. PRADHAN	PROFESSOR & HEAD (ME)	CONVENER
3	MR. P.K. DASH	ASST. ADMINISTRATIVE OFFICER	MEMBER
4	PROF (DR.) KEDAR MAHAPATRA	ASSO. PROF. (SSH)	MEMBER
5	PROF AMIT SINGH DEHURY	ASST. PROF. (ME)	MEMBER
6	PROF RABI NARAYAN ROUT	ASST. PROF. (ME)	MEMBER
7	PROF CHITARANJAN BEHERA	ASST. PROF. (EEE)	MEMBER
8	MR. BIDHUYUTA BHOI	LAB. ASST. (ME)	MEMBER

Student Grievance Redressal Committee (CSGRC)

SN	NAME	DESIGNATION	POSITION
1.	PROF. (DR.) M.K. ROUL	PRINCIPAL	CHAIRPERSON
2.	PROF. (DR.) M.K. PRADHAN	DEAN (R&D) & HoD ME	CONVENOR-MEMBER
3.	COR. (DR.) P.K. RAUTRAY	DEAN (ADMIN	MEMBER
4.	PROF. (DR.) K.K. MISHRA	DEAN ACADEMICS	MEMBER
5.	PROF. (DR.) N.P. PATRO	DIRECTOR, IQAC	MEMBER

6.	PROF. (DR.) T.P. PANIGRAHI	HoD, CSE	MEMBER
7.	PROF. (DR.) D.K.NAYAK	HoD, ECE	MEMBER
8.	PROF. (DR.) DEEPTIBALA MISHRA	HoD, MCA	MEMBER
9.	PROF. (DR.) KEDAR MOHAPATRA	1st Yr. Coordinator	MEMBER
10.	PROF. AMIT SINGH DEHURY	Warden of Boys' Hostels	MEMBER
11.	PROF. SHIFA SHAMI	Warden of Girls' Hostels	MEMBER
12.	PROF. SHARMILA PATNAIK	Asst. Professor, MBA	MEMBER
13.	Respective HoD of involved students	HoDs	MEMBER
14.	Respective Proctors of the involved student.	Proctors	MEMBER

ANTI-RAGGING COMMITTEE (2024-25)

S. N.	Name	Designation	Position
1.	Prof. M.K. Rout	Principal	Chairman
2.	Sri Bijaya Kumar Barik	Inspector-In-Charge, Infovalley Chhatabar, Bhubaneswar	Member
3.	Sri Nilu Mohapatra, OAS (I)	Tahasildar, Jatni	Member
4.	Mr. Pramod Kumar Samantaray	Local Radio Taxi Service	Member

5.	Dr. P.K. Rautray	Dean Admin	Member
6.	Prof. S.K. Panigrahi	CoA	Member
7.	Prof. M.K. Pradhan	HoD, ME & Convener Anti-Ragging Squad	Convener
8.	Prof. M.P. Pani	PIC (EDP & LFC) & Coordinator IQAC	Member
9.	Prof. B.P. Mishra	PIC (R&D)	Member
10.	Prof. K.K. Mishra	Dean Academics	Member
11.	Prof. T.K. Panigrahi	HoD, CSE	Member
12.	Prof. P.K. Bal	HoD, CSE (AI & AML)	Member
13.	Prof. P.K. Dik	HoD, CST	Member
14.	Prof. Bijayalaxmi Panda	HoD, CBT	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. Jayagopal Jena	HoD, CE	Member
19.	Prof. D.B. Mishra	HoD, MCA	Member
20.	Prof. P.K. Suar	HoD, MBA	Member
21.	Prof. Amit Singh Dahuja	Warden of Hostels (Boys)	Member
22.	Prof. Shifa Sharmi	Warden of Hostels (Girls)	Member
23.	Mr. Sushanta Upadhyaya	PARENT REPRESENTATIVE	Member
24.	Mr. Ajay Kumar Sahoo		Member
25.	Akanksha Bansal CSE, 2nd yr	STUDENT REPRESENTATIVE (SERVER)	Member
26.	Krishna Mohanty,CSDS,2nd yr		Member
27.	Anshuli Mohanty, ME, 2nd yr		Member
28.	Hanish Kumar Sahoo, CBT	STUDENT REPRESENTATIVE (FRESHER)	Member
29.	Deganta Upadhyaya, CSE (AI)		Member
30.	Arman Paul, CSE		Member

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

The Dean Administration looks after the financial requirement for day to day activities of the institution. The Governing Body of the institution has authorized the Principal to approve an amount of Rupees Two Lakh per month. This amount is spent for the overall management and maintenance of the institution. In addition, all the HODs of engineering departments are authorized to draw an imprested 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 imprested amount provided to the HODs is utilised 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 imprested 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 imprested 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, SITA Autonomous College, Bhubaneswar	Chairman
2	Dr. P.K. Pasmey	Dean Administration (Nominated by Governing Body)	Member
3	Dr. Jogadish Jena	HOD, CE, (Nominated by Principal)	Member
4	Smt. Smrutirekha Sahoo	Finance Officer of the Affiliating University	Member
5	Mr. K.K. Mishra,	Accounts Officer, SITA Autonomous College, Bhubaneswar	Member

6.1.4 Transparency and availability of correct/unambiguous information in public domain (3) Institute Marks : 3.00

The institution has provided all the necessary information in the website www.gita.edu.in (http://www.gita.edu.in) owned by the institution. All the information provided in the website is in accordance with the Right to Information Act, 2005. The institution also has an Information 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.

6.2 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 2022-2023

Total Income: 510094413				Actual expenditure(Rs. ...): 87194881			Total No. Of Students: 6134
Fee	Govt.	Grants	Other sources(specify) Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
724007950	0	0	56098764	63944729	166040946	0	13000.21

Table 2 - CFYm1 2022-2023

Total Income: 709965804				Actual expenditure(Rs. ...): 74809989			Total No. Of Students: 4719
Fee	Govt.	Grants	Other sources(specify) Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
589902403	0	130159	75518223	58047349	160013862	0	15971.87

Table 3 - CFYm2 2021-2022

Total Income: 525534001				Actual expenditure(Rs. ...): 59405424			Total No. Of Students: 4150
Fee	Govt.	Grants	Other sources(specify) Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
548014329	0	447484	72448388	41858834	137708900	0	13310.72

Table 4 - CFYm3 2020-2021

Total Income: 526562400				Actual expenditure(Rs. ...): 59878122			Total No. Of Students: 3938
Fee	Govt.	Grants	Other sources(specify) Interest, Exam	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
489486400	3622800	389089	59914092	43597709	126119521	0	14652.87

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 Build-Up	6000000	5249021	6000000	6018388	7600000	7599435	7500000	6656890
Library	1000000	9260724	0400000	9248000	8000000	7629000	8000000	8094479
Laboratory equipment	5000000	7494000	5000000	5215371	5700000	5643040	5000000	5226231
Laboratory consumables	5000000	4501594	7500000	2462381	7500000	2040971	7500000	7402979
Teaching and non-teaching sal	4700000	3500000	4000000	3999995	2927000	2917524	2915000	2997081
Maintenance and spares	5000000	4100001	5000000	5012021	5000000	5461785	4800000	4267480
R&D	3000000	2739490	3000000	3420970	4200000	1480000	4200000	4051374
Training and Travel	2000000	1627000	1800000	1219131	1800000	1193117	1800000	1487410
Miscellaneous Expenses*	6000000	2388790	6000000	1840970	6000000	3888041	1800000	1844980
Others, specify	6000000	7371980	6000000	7830714	6000000	6160080	6000000	6400980
Total	45750000	47154301	77250000	74909346	57300000	55464434	54100000	53478130

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

The budgets 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 (5) Institute Marks : 5.00

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 (5) Institute Marks : 5.00

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

10.3 Program Specific Budget Allocation, Utilization (20) Total Marks 20.00

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 2022-2024

Total Budget: 14760000		Actual expenditure(st...): 11985551		Total No. Of Students: 210
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,06,60,000	96,19,000	89,68,960	90,19,911	99660.39

Table 2 :: CFYm1 2022-2023

Total Budget: 10400000		Actual expenditure(st...): 10109000		Total No. Of Students: 231
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,06,60,000	99,00,000	97,34,920	93,19,468	70377.92

Table 3 :: CFYm2 2021-2022

Total Budget: 9560000		Actual expenditure(st...): 7971000		Total No. Of Students: 241
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
86,60,000	90,00,000	86,68,560	14,00,270	2955.76

Table 4 :: CFYm3 2020-2021

Total Budget: 9560000		Actual expenditure(st...): 9390200		Total No. Of Students: 230
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
86,60,000	29,00,000	84,05,240	29,93,960	39878.35

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	1346700	1500000	1230500	1500000	1315400	1500000	1007700
Software	500000	340250	500000	480320	450000	432560	400000	398540
Laboratory consumable	110000	103351	100000	77400	100000	90940	100000	096500
Maintenance and spares	1200000	1123560	1200000	1102560	1100000	1062500	1000000	987400
R & D	2000000	1720000	1500000	1000000	1100000	1000000	1100000	1100000

Training and Travel	230000	180000	150000	100000	150000	100000	150000	100000
Miscellaneous Expenses*	00	0	0	0	0	0	0	0
Total	14166000	11965861	12600000	10115200	9450000	7071050	8500000	6300200

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 Utilisation of allocated funds (20) Institute Marks : 20.00

The HODs are responsible for utilisation 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 utilisation every month in HODs committee meetings. Utilisation of allocated funds during the budget year is thus ensured.

10.4 Library and Internet (20) Total Marks 20.00

10.4.1 Quality of learning resources (hardcopy) (10) Institute Marks : 10.00

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, Wide 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 benefited 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, text-to-speech tools, and captioned videos help students with disabilities.
- Multilanguage resources enable students from diverse linguistic backgrounds to understand concepts better.

3. Cost-Effective Learning

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

4. Personalized & Self-Paced Learning

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

5. Bridging the Digital Divide

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

6. Institutional Support for Accessibility

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

Supporting Students for Self-Learning Activities:

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

1. Providing Access to Diverse Learning Resources

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

2. Implementing Learning Management Systems (LMS)

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

3. Encouraging Research & Project-Based Learning

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

4. Faculty Mentorship & Peer Learning

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

5. Digital Literacy & Self-Learning Skills Development

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

6. Assessment & Recognition of Self-Learning

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

Library Profile

The Library at SYA Autonomous College, established in 2004, 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 200 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 GITA is fully automated with KOHA software, streamlining cataloguing, circulation, acquisition, and OPAC services for seamless resource access and efficient management.

Sl. No.	Particulars	Quantity
1	Carpet Area	24604.8 Sqft.
2	Reading Room	1377.81 Sqft.
3	Reading Room strength	300
4	Total no. of Books (Titles including MBA & MCA)	8286
5	Total Number of Books (Volumes including MBA & MCA)	43373
6	Total no. of e-Journals	1421
7	Total No. of e-Books	11000
8	Total No. of Systems for e- Library	40
9	Total no. of Magazines	15
10	Total no. of News Paper	11

Library Services

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

Library Best Practices

1. Library Automation or Computerization through LIBSYS
2. Web OPAC (Online Public Access Catalogue)
3. Display of New Arrivals
4. Reprocess 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	Air Tel, Wafa
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 all 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 OUTCOME (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 3-4 program specific outcomes.

PSO1	To empower the graduates to become practicing engineers who can provide the global solutions.
PSO2	To enable graduates to undertake higher studies, collaborative research and entrepreneurship in the global environment.
PSO3	To empower the graduates to design any system, product, process for society and society, using the knowledge of network theory, power system, control system and power electronics related areas.

Declaration

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

- I undertake that the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institutes had 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. Manisetha Kumar Rout
Designation : Principal
Signature :

Seal of The Institution :

Place : Bhubaneswar
Date : 24/01/2025 12:58:02