# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

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

# Part A: Institutional Information

1 Name and Address of the Institution	on										
VEER SURENDRA SAI UNIVERSITY O PO. BURLA ENGINEERING COLLEGE			A)								
2 Name and Address of Affiliating U		Y									
3 Year of establishment of the Institu 2009	ution:										
4 Type of the Institution:											
Institute of National Infortance				0 /	Autonomous						
<ul><li>University</li></ul>				0	Any other(pleas	se specify)					
O Deemed University											
5 Ownership Status:											
O Central Government		☐ Trust									
O State Government		Society									
O Government Aided		☐ Section	25 Company								
O Self financing		☐ Any Oth	er(Please Specify)								
6 Other Academic Institutions of the	Trust/Society/C	company etc	., if any								
Name of Institutions		Year of E	Establishment			Prograi	ms of Study	Lo	cation		
7 Details of all the programs being o	iffered by the In:	stitution und	der consideration	:							
Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	То	Program for consideration	Program for Duration
M.Tech CSE	PG	1995	1995	18	No	18	Granted accreditation for 3 years for the period (specify period)	2018	2021	No	2
M.Tech VLSISP	PG	2012	2012	18	No	18	Eligible but not applied		-	No	2
M.Tech RFMWE	PG	2014	2014	18	No	18	Eligible but not applied			No	2
B.Tech in Electronics and Telecommunication Engineering	UG	1972	1972	30	Yes	120	Granted accreditation for 6 years for the period (specify period)	27/07/2006	30/06/2022	Yes	4
Sanctioned Intake for Last Five Year	rs for the B.Tech	n in Electror	nics and Telecomr	nunication	Engineering						
Academic Year					Sano	tioned Intak	re				
2023-24					120						

120

120

120

120

### 8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Electrical Engg.
3	Under Graduate	Engineering & Technology	Mechanical Engg.
4	Under Graduate	Engineering & Technology	Production Engg.
5	Under Graduate	Engineering & Technology	Electronics & Telecommunications Engineering

9 Total number of employees

2022-23

2021-22

2020-21

2019-20 2018-19

### A. Regular\* Employees (Faculty and Staff):

Items		2023-24		2022-23		021-22
items	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	119	122	122	124	124	125
Faculty in Engineering (Female)	56	56	56	56	56	56
Faculty in Maths, Science & Humanities teaching in engineering program (Male)		32	32	32	32	33
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	6	6	6	6	6	6
Non-teaching staff (Male)	110	117	117	129	129	139
Non-teaching staff (Female)		11	11	11	11	11

### B. Contractual\* Employees (Faculty and Staff):

Items		2023-24		2022-23		1-22
Renis	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	12	12	11	11	10	10
Faculty in Engineering (Female)	7	7	6	7	5	5
Faculty in Maths, Science & Humanities teaching in engineering Programs (Male)	10	10	11	11	9	9
Faculty in Maths, Science & Humanities teaching in engineering Programs (Female)	12	12	13	14	10	12
Non-teaching staff (Male)	60	76	76	91	91	114
Non-teaching staff (Female)	06	08	08	08	08	11

### 10 Total number of Engineering students:

Engineering and Technology- UG	Shift1	☐ Shift2
Engineering and Technology- PG	Shift1	☐ Shift2
Engineering and Technology- Polytechnic	Shift1	☐ Shift2
МВА	Shift1	☐ Shift2
MCA	Shift1	☐ Shift2

#### Engineering and Technology- UG Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	2859	2790	2671
Total no. of Girls	1132	1025	962
Total	3991	3815	3633

### Engineering and Technology- PG Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	149	197	240
Total no. of Girls	117	118	146
Total	266	315	386

### Engineering and Technology- MCA Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	57	49	43
Total no. of Girls	21	20	17
Total	78	69	60

### 11 Vision of the Institution:

To emerge as an internationally acclaimed Technical University to impart futuristic technical education and creation of vibrant research enterprise to create quality engineers and researchers, truly world class leader and unleashes technological innovations to serve the global society and improve the quality of life.

### 12 Mission of the Institution:

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

- Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- $\bullet \ \ \text{Collaborative partnership with industries and academia within and outside the country in learning and research.}$
- Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- Facilitating technology transfer, innovation and economic development to flow as natural results of research where ever appropriate.
- Expanding curricula to cater broader perspectives.
- Creation of service opportunities for upliftment of the society at large.

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

Head of the Institution					
Name	Prof. Banshidhar Majhi				
Designation	Vice Chancellor				
Mobile No.	8056201404				
Email ID	vc@vssut.ac.in				

# NBA Coordinator, If Designated

Name	Dr. Sasmita Behera
Designation	Assistant Professor
Mobile No.	9437367106
Email ID	sbehera_eee@vssut.ac.in

# PART B: Criteria Summary

Critera 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	88.96
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	165.65
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	44.69
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	950

## 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)

Total Marks 50.00

Total Marks 5.00 Institute Marks: 5.00

To emerge as an internationally acclaimed Technical University to impart futuristic Vision of the institute serve the global society and improve the quality of life.

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and

need based research through

- Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- Collaborative partnership with industries and academia within and outside the country in learning and research.
- Mission of the institute
- Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- Facilitating technology transfer, innovation and economic development to flow as natural results of research where ever appropriate.
- · Expanding curricula to cater broader perspectives.
- Creation of service opportunities for upliftment of the society at large.

Electronics Engineering Department endeavors to facilitate state of the art technical education in the field of electronics engineering by infusing scientific temper in the students leading towards research and to grow as centre of excellence in the field of electronics engineering. The goal of this department is to provide an education to our students that are directly applicable to problems and situations encountered in real life and thus foster a successful career. Vision of

Department

Mission Mission Statements Maintaining state of the art research facilities to provide enabling environment to create, analyze, apply and disseminate knowledge Mission of Fortifying collaboration with world class R&D organizations, educational M2 institutions, industry and alumni for excellence in teaching, research and Department consultancy practices to fulfil 'Make in India' policy of the Government. Providing the students with academic environment of excellence, leadership, ethical guidelines and lifelong learning needed for a long МЗ

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

productive career.

Total Marks 5.00

Institute Marks: 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To acquire competency in solving real-life problems and to design/develop sustainable and cost effective products according to the prevailing socio-economic context.
PEO2	To make them enable to excel in their professional career/entrepreneurial skill/research and higher studies.
PEO3	To provide opportunity to work and communicate effectively in a team and to engage in the process of life-long learning.
PEO4	To develop communication skills and interpersonal skills and preparing them for providing self-employment.
PEO5	To provide opportunity to apply basic and contemporary science, engineering, experimentation skills to identify hardware/software problems in the industry and academia and be able to develop practical solutions to them.

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

Total Marks 15.00 Institute Marks: 15.00

- . The vision and mission of the University is available at: http://www.vssut.ac.in
- The vision and mission of the University are also displayed through notice boards across the campus.
- The vision and mission of the Department is available at: https://www.vssut.ac.in/department.php?url=electronics-and-tele-communication
- The vision and mission of the Department are also displayed through notice boards inside the Department.
- The Programme Educational Objectives of the B.Tech. Programme in Electronics & Telecommunication Engineering is available at: https://www.vssut.ac.in/department.php?url=electronics-and-tele-communication (https://www.vssut.ac.in/department.php?url=electronics-and-tele-communication)
- The PEOs are also displayed through notice boards inside the department.

### Process of dissemination among stake holders

List of stakeholders: Internal & External

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

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

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

Apart from this, Vision and Mission is disseminated to the stakeholders of the programs through

faculty meetings, FDPs, student awareness workshops, student induction programs, and parent teacher meetings etc.

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

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

Total Marks 15.00 Institute Marks : 15.00

The Department of Electronics and Telecommunication Engineering adheres to a standardized procedure for formulating the vision and mission of the department. The department has a writing committee responsible for creating the first versions of the vision and mission statements. These statements are developed with careful consideration of the department's short- and long-term objectives, ensuring they are in line with the vision and mission of the University. The initial statements are then modified in response to input from both internal and external stakeholders, including:

- Graduates
- Alumni
- Parents
- Faculty members
- Industry representatives
- Eminent academicians
- IQAC
- Management of the University

Lastly, the University Academic Council approves the vision and mission statements.

### Process for defining Programme Educational Objectives

The course objectives of an engineering degree programme are concise statements that outline the anticipated accomplishments of graduates in their professional endeavors, specifically highlighting the tasks and successes expected during the first years after graduation. Initially, these objectives should contribute to the accomplishment of the departments purpose. Furthermore, the students who complete the degree are anticipated to play a pivotal role in the advancement of society by actively contributing to its growth and development.

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

Total Marks 10.00

Institute Marks: 10.00

PEO Statements	M1	M2	M3
To acquire competency in solving real-life problems and to design/develop sustainable and cost effective products according to the prevailing socio-economic context.	3 ~	3 ~	3 ~
To make them enable to excel in their professional career/entrepreneurial skill/ research and higher studies.	3 ~	3 🔻	3 v
To provide opportunity to work and communicate effectively in a team and to engage in the process of life-long learning.	3 ~	3 🔻	3 🔻
To develop communication skills and interpersonal skills and preparing them for providing self-employment.	3 ~	3 🔻	3 ~
To provide opportunity to apply basic and contemporary science, engineering, experimentation skills to identify hardware/ software problems in the industry and academia and be able to develop practical solutions to them.	3 ~	3 🔻	3 ~

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

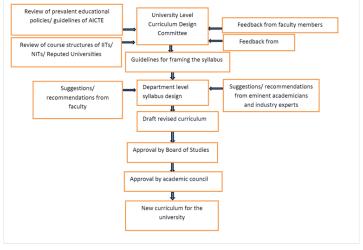
Total Marks 100.00

2.1 Program Curriculum (30)

# 2.1.1 State the process for designing the program curriculum $\left(10\right)$

Institute Marks : 10.00

The curriculum design process of the University is a methodical procedure that involves the involvement of the University level committee and the Department level board of studies. The school has used many strategies in the curriculum design process to achieve the desired program results. The comprehensive process for designing the curriculum is shown in figure below.



(Figure 1)

2.1.2 Structure of the Curriculum (5) Institute Marks : 5.00

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	BMA2101	Mathematics-I		1	0	4	4	0	4
2	BCH2101	Chemistry		0	3	6	3	1.5	4.5
3	BEC2101	Basic Electronics	3	0	3	6	3	1.5	4.5
4	BCS2102	Programming for Problem Solving	3	0	3	6	3	1.5	4.5
5	BCE2102	Basic Civil Engg.	3	0	3	6	3	1.5	4.5
6	BIN2101	Induction Programme and participation in Clubs/Societies	0	0	0	0	0	0	0
7	BMA2201	Mathematics - II	3	1	0	4	4	0	4
8	BHU2102	English For Business Communication	3	0	3	6	3	1.5	4.5
9	BPH2101	Physics	3	0	3	6	3	1.5	4.5
10	BEE2101	Basic Electrical Engg.	3	0	3	6	3	1.5	4.5
11	BME2101	Engineering Mechanics	3	0	3	6	3	1.5	4.5
12	BYG2201	NSS/NCC/Yoga	0	0	0	0	0	0	0
13	BMA2301	Mathematics-III	3	1	0	4	4	0	4
14	BEC2307	Network Theory	3	0	3	6	3	1.5	4.5
15	BEC2305	Analog Electronics Circuit	3	0	3	6	3	1.5	4.5
16	BEC2306	Signals & Systems	3	0	3	6	3	1.5	4.5
17	BHU2303	Economics for Engineers	3	0	0	3	3	0	3
18	BEC2393	Simulation Lab-I	0	0	3	3	0	1.5	1.5
19	BNC2301	Essence of India Traditional Knowledge	0	0	0	0	0	0	0
20	BEC2409	Digital System Design	3	1	3	7	4	1.5	5.5
21	BEC2406	Principles of Analog & Digital Communication	3	0	3	6	3	1.5	4.5
22	BEC2407	Advanced Electronics Circuit	3	0	3	6	3	1.5	4.5
23	BEC2408	EMFT & Transmission Lines	3	0	0	3	3	0	3
24	BHU2301	Organisational Behaviour	3	0	0	3	3	0	3
25	BEC2496	Design & Testing Lab	0	0	3	3	0	1.5	1.5
26	BNC2401	Environmental Sciences	0	0	0	0	0	0	0
27	BNC2402	Summer Internship/ Training	0	0	0	0	0	0	0
28	BEC2507	Microprocessor & Microcontroller	3	0	3	6	3	1.5	4.5
29	BEC2506	Integrated Circuits & Systems	3	0	3	6	3	1.5	4.5
30	BEC2503	Digital Signal Processing	3	0	3	6	3	1.5	4.5
31	BEC2509	Professional Elective –I	3	0	0	3	3	0	3
32	BIT2505	Open Elective –I	3	0	0	3	3	0	3
33	BHU2502	Financial Management, Costing, Accounting, Balance Sheet & Ratio Analysis	2	0	0	2	2	0	2
34	BEC2603	Microwave Engineering	3	0	3	6	3	1.5	4.5
35	BEC2606	Wireless & Mobile Communication	3	0	0	3	3	0	3
36	BEC2607	Professional Elective –II	3	0	3	6	3	1.5	4.5
37	BEC2604	Professional Elective-III	3	0	0	3	3	0	3
38	BCE2612	Open Elective-II	3	0	0	3	3	0	3
39	BHU2501	Professional Ethics, Professional Law &Human Values	2	0	0	2	2	0	2
40	BEC2695	Simulation Lab-II	0	0	3	3	0	1.5	1.5
41	BNC2601	Summer Industry Internship/ Training/ Project	0	0	0	0	0	0	0
42	BEC2709	Wave Propagation & Antenna Engineering	3	0	0	3	3	0	3
43	BEC2702	Computer Communication & Networks	3	0	0	3	3	0	3
44	BEC2705	Professional Elective-IV	3	0	0	3	3	0	3
45	BPE2712	Open Elective-III	3	0	0	3	3	0	3
46	BEC2794	Project - I	0	0	6	6	0	3	3
47	BEC2793	Advanced Communication Lab.	0	0	3	3	0	1.5	1.5
48	BEC2795	Seminar on internship	0	0	3	3	0	1.5	1.5
49	BEC2809	Professional Elective-V	3	0	0	3	3	0	3
50	BEC2807	Professional Elective-VI	3	0	0	3	3	0	3

51	BCE2808	Open Elective-IV	3	0	0	3	3	0	3
52	BEC2894	Project II	0	0	12	12	0	6	6
53	BEC2895	Seminar on Project	0	0	2	2	0	1	1
		Total	115	4	92	211	119	46.0	165.0

2.1.3 State the components of the curriculum (5)

Institute Marks: 5.00

Course Components	Curriculum Content (% of total number of credits of the program )	Total number of contact hours	Total number of credits
Basic Sciences	12.73	24.00	21
Engineering Sciences	5.45	18.00	9
Humanities and Social Scienc	11.52	24.00	19
Program Core	45.45	93.00	75
Program Electives	10.91	18.00	18
Open Electives	7.27	12.00	12
Project(s)	5.45	18.00	9
Internships/Seminars	1.21	4.00	2
Any other (Please specify)	0	0.00	0
Total number of Credits			165

# 2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in

Institute Marks: 10.00

The curriculum for the B. Tech, program in Electronics and Telecommunication Engineering ensures a well-rounded education by including courses from different fields such as Science, Mathematics, Engineering Science, Humanities and Management. It also includes professional core courses, professional electives, open elective projects, and internship components. The syllabus for each course has been meticulously crafted to align with the curriculum in order to achieve the Program Outcomes (POs) and Program Specific Outcomes (PSOs) outlined for the program.

The methodology used to ascertain the degree of adherence to POs and PSOs.

- Figure 1 depicts the process of curriculum creation.
- The course outcomes of all courses are aligned with the POs and PSOs, indicating their degree of correlation on a scale of 1 (low), 2 (medium), and 3 (high). The
- The courses are designed to cover all POs and PSOs thoroughly, and each course is linked to at least one PO with a high degree of correlation.
  Additionally, it made sure that there is a strong link between the number of courses and all POs and PSOs. The course and PO mapping of all the required courses are included in the program articulation matrix. Guest lectures, seminars, industry trips, etc., make up for the curricular gaps shown by the low degree of course mapping with PO/PSO.
- The cumulative internal evaluation and end-of-semester assessment are used to determine the accomplishment of the POs and PSOs. Indirectly achieving POs and PSOs also involves collecting feedback from companies, graduates, and alumni. Lastly, the achievement of POs and PSOs is determined by weighing the relative importance of direct and indirect accomplishment.

Table 2.1.4: Satellite Communication

	PO1	PO2	PO3	PO4	PO5	PO6	P07	P08	PO9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO1	3	2	2	3 ;	:	1	1		-	-	-	1	3	3	1
CO2	3	3	3	2 :	3 :		2		-	-	+	1	3	3	2
СОЗ	2	2	3	3 :	:		1		-	-	-	1	3	3	3
CO4	2	2	3	2 ;	3 :	3	2		-	-	-	1	3	3	2
CO5	3	3	3	3 ;	3 :		2		-	-	-	1	3	3	1
Averag e	2.6	2.6	3	2.6 :	2.6	2.2	1.6					1	3	3	1.8
Roundi ng off	3	3	3	3 :	3 :	2	2					1	3	3	2

2.2 Teaching-Learning Processes (70) Total Marks 70.00

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Institute Marks: 15.00

## $\textbf{2.2.1 Describe Processes followed to improve quality of Teaching \& Learning} \ (15)$

The Institute has implemented a comprehensive teaching and learning approach that incorporates several student-centered methodologies designed to enhance the learning experience. The curriculum and courses undergo regular updates to meet the needs industry, address global concerns, and align with the desired learning goals and Blooms taxonomy levels. The Department of Electronics Engineering has a methodical approach to enhance the teaching and learning process, which in turn improves the performance of the students. The departments method for Teaching-Learning and Quality Improvement is centered on certain criteria.

- The university formulates the academic calendar for BTech programs and distributes it to the Deans, HOS, and faculty members of the Schools. The academic calendar includes the chronological sequence of events such as student reporting, class commencement, mid-semester session and end semester session. The academic activities are strictly adhering to the Academic Calendar.
- Subject allocation for each course occurs in the preceding semester based on faculty specialty and student preferences. This allows faculty members enough time to strategize their teaching methods for each subject.
- The department-level PIC time table meticulously coordinates the schedules of all faculty members to guarantee the smooth operation of the program.
  Each course is assigned a course committee, led by a course coordinator, who collaborates with the course instructors to create the course handout. The course
- handout provides comprehensive information about the course, including the course code, course credit, course material, course result, lesson plan, assessment system, activity calendar, and recommended textbooks and reference books. The lesson plan provides a comprehensive overview of the subjects that will be taught in each session, including the mapping of course outcomes and the specific chapters in the textbook or reference book that will be covered.
- The course instructor is responsible for creating and distributing the teaching/lecture materials to the students. The lab instructions are sent to the students together
  with the course material for the lab course. The lab guides are created well in advance and undergo a thorough review by the individual PIC lab, who will make any
  necessary revisions.
- Each students are assigned a subject or practical issue that is relevant to the course objectives. They are then directed to use e-media, journals, site visits, and group discussions to gather information and resources. Subsequently, they undergo evaluation and are required to share their work, therefore fostering a conducive learning atmosphere and providing assistance to their peers.
- We arrange for highly skilled and knowledgeable guest lecturers who possess specialized expertise and extensive experience. These individuals provide valuable
  insights into real-world practices and cutting-edge strategies that are currently being used in the industry. This enhances the overall comprehension and learning
  experience for the students.
- Students are also encouraged to enhance their learning by using video lectures, animations, various pictures, open courseware, e-Resources Journals & Articles, Coursera, MOOCs, and NPTEL. These resources provide students with valuable insights and knowledge in their respective domains.
- The activities encompass the practical application of strategies in real-world situations, gaining an understanding of limitations, recognizing the pertinent social, environmental, legal, and economic consequences, and analyzing the resulting effects. Additionally, the activities conducted every year under the banner of TECHTRONIX involve resolving real-life complex problems with the aid of simulations and models that are relevant to the objective.
- Regular Course Committee meetings are held to assess the performance of students and determine appropriate measures for both high-achieving and underperforming students.

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

Institute Marks: 15.00

The students courses are categorized into theoretical and practical courses. Each of these courses undergoes a series of examinations to evaluate the students performance, as outlined below:

### Theory courses

- Continuous evaluation (20 marks): The students performance is assessed via various assignments and learning activities conducted throughout the semester for the course. The organization, allocation, and assessment of activities and assignments are facilitated by various methods such as quiz, surprise test. etc.
- The mid-semester examination (30 marks): This examination, is performed during the middle of the semester. It has a weightage of 30 marks and evaluates the students understanding of a specific portion of the curriculum. The syllabus for the examination is determined and communicated by the department board of studies in consultation with other course professors.
- . End-of-semester assessment (50 marks): Students are assessed using a closed-book exam that covers the complete course material.

#### Practical courses

- Continuous or Internal assessment (60 marks): Students are assessed according to their performance, understanding of ideas, ability to work as part of a group, oral examination, and documentation related to various experimental tasks, simulations, programming, and learning activities assigned and completed over the semester.
- End Semester examination (40 marks); The evaluation of students is determined by their performance in a specific experimental or practical assignment, which must be accomplished within a certain time frame and under continuous supervision. Additionally, their performance in the final semester oral examination is also taken

VSSUT has established protocols for conducting examinations, which include the creation of question papers for both mid-semester and end-semester exams, as well as ongoing assessment via various activities. Below are the guidelines for each component of evaluation.

#### A. Ongoing assessment via educational exercises for every theoretical course:

The ongoing assessments activities have been specifically intended to enhance learning among students. The exercises should be organized in a manner that allows the course instructor to evaluate the students performance in several categories, as well as their progress towards achieving the desired course goals. The table below provides a set of recommended practices for the elements mentioned above. Course instructors have the freedom to choose and implement a teaching method that aligns with or goes beyond the recommended guidelines.

Learning Practice

Focus

### Continuous Evaluation through learning activities for each theory course:

	· ·	•
	Synchronous Discussion	Give a list of questions to a group of 20–30 students. Encourage response sharing.
Group	Collaborative Discussion	Separate the information set into five or six sections. Give five or six students a portion of the information. Permit information exchange and continued subgroup development.
	Group Assignment	Assign members of a group of five to six the following roles: researchers, presenters, schedule and records manager, project manager, and so on. Give students a project that they can finish in a semester.
Brain	Innovative skill	Assigning real time problems and asking for solution to student groups.
Teasing	Case Study	Identification of problems, stakeholders, solutions, effects, and repercussions is expected of students.
	Research need identification	In order to determine a relevant research need, students are expected to read through review papers and sets of research publications. The required research, background information, and a summary of the literature should all be included in a two-page report.
	Info-graphic	To elucidate, characterize, and illustrate the provided data, method, or process.
Creative	Written summary	Students are expected to compose a one-page synopsis based on a particular section of a course, text, or research article.
	Physical model/ mathematical model/ soft- model	The task for the student is to create a suitable model.
	Assignments	list of issues or cases that need to be resolved and submitted
Problem solving	Modeling and simulation	Students are expected to create mathematical models, algorithms, and codes, as well as to simulate using the proper tools.
Preparing for higher education	Quiz	The course questions should be answered by students in accordance with the requirements of the GATE, CES, CS, and other competitive exams.
Self	Self assessment	Students are to evaluate the caliber of their work using the specified standards.
Self evaluation	Reflection on learning	A written report outlining the students pre-course goals, learning outcomes, and the efficiency of particular teaching resources

Brief description

### **B. Internal Question Papers Quality**

The following procedures are used to sustain the quality of the internal question paper. The procedure undergoes periodic assessment and updates.

- . The department board of studies determines the curriculum for the internal examination and solicits a question pool from the committee members.
- The subject instructor prepares the questions by adhering to the specified criteria.
  - $\ensuremath{\mathrm{a}}.$  Alignment of specific questions in the exam with the corresponding COs.
  - b. Aligning each question paper with the corresponding tiers of questions according to Blooms Taxonomy,

- c. Aligning each question paper with the corresponding chapters of the course.
- d. Ultimately, the questions quality is assessed by considering the established criteria of Blooms Taxonomy and its alignment with the content of the chapter and course objectives.
- After the evaluation sheet data found to meet the quality standards, the question paper is submitted to Faculty-In-Charge Examination.
- C. Evaluation of the final semester examination papers quality

The following procedure is used to maintain the quality of the final examination question paper.

- The department board of studies suggests selecting four or five faculty members to create the end semester question paper.
- Department board of studies is responsible for determining the list of faculty members who will set the end semester papers (two or three members). The paper setters are faculty members from various prestigious institutions in India. The list is shared with the dean academics and controller of examiner.
- The paper setter adheres to the following criteria while preparing the question paper.
- 1. Alignment of specific questions on the exam with their corresponding COs.
- 2. Aligning each question paper with the corresponding tiers of questions according to Blooms Taxonomy.
- ${\it 3. A lignment of certain question papers with the corresponding chapters of the course.}\\$

### Format of Question Paper for Midsemester

Question No.	Learning Level as per Bloom's Taxonomy	Description	Marks	Course outcome(CO)/ Performance Indicator(PI)
Q 1 (a)- (c)	Learning levels 1 ,2 and 3.	Questions based on remembering, understanding and application.	20% of total marks to be assigne d to Q1.	CO 1,2,3.  Pls related to learning level 1,2 and 3 as per Bloom's taxonomy.
Q 2 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.	16% of	CO 1 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 3 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.	total marks to be assigne d to each question	CO 2 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 4 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.		CO 3 Pis related to learning level 4,5 and 6 as per Bloom's taxonomy.

### Format of Question Paper for End semester

Question No.	Learning Level as per Bloom's Taxonomy	Description	Marks	Course outcome(CO)/ Performance Indicator(PI)
Q 1 (a)- (e)	Learning levels 1 ,2 and 3.	Questions based on remembering, understanding and application.	20% of total marks to be assigne d to Q1.	All COs Pls related to learning level 1,2 and 3 as per Bloom's taxonomy.
Q 2 (a)- (b)	Learning levels 4,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.		CO 1 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 3 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.	16% of	CO 2 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 4 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.	total marks to be assigne d to each question	CO 3 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 5 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.		CO 4 Pls related to learning level 4,5 and 6 as per Bloom's taxonomy.
Q 6 (a)- (b)	Learning levels 4 ,5 and 6.	Questions based on analysis, evaluation, design, innovation, formulation.		CO 5 Pis related to learning level 4,5 and 6 as per Bloom's taxonomy.

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# D. Quality of the Evaluation

The following methods have been established to ensure the quality of answer script assessment. The procedure undergoes periodic assessment and subsequent updates.

- The evaluator evaluates the answer scripts and awards mark to the individual answers.
  The course coordinator devises an evaluation scheme, which is sent to all evaluators and students.
- Given the Universitys emphasis on openness, the answer sheets are given for student inspection. Students review their answer papers digitally and request a

2.2.3 Quality of student projects (20) Institute Marks : 20.00

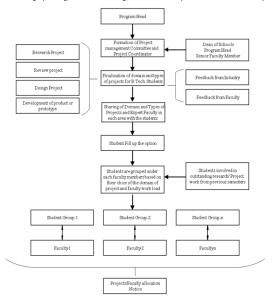
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According to the curriculum for B.Tech. in Electronics and Telecommunication Engineering, each student is required to complete one project during the 7th and 8th semesters.

Tools	Marks	Credit
7th Semester (Internal evaluation)	100	3
8th Semester (External evaluation)	100	6

### A. Identification of Projects and allocation methodology to faculty members

Figure 2.2.3 provides a description of the process associated with project identification, allocation, and monitoring. The HOD appoints a project coordinator who is responsible for the strategic planning, efficient scheduling, and successful implementation of all activities pertaining to student project work.



(Figure 2.2.3 illustrates the process for the Project Allocation approach.)

#### B. Planning, Scheduling, Monitoring and Execution

Step	Task	Process description
		Projects are selected by faculty members and/or
Step-1	Project Identification	students based on their own areas of interest. Fig.
		2.2.3 illustrates the intricate procedure.
		Students are given projects and guides are allocated
04 0	Allotment	to them. Students are allocated the laboratory and
Step-2	Allotment	supplied with resources for the development of their
		projects.
	Continuous	The projects development is reviewed weekly by the
Step-3		guide. The ongoing development is also evaluated via
	Monitoring	regular assessment by a panel.
		Students are required to provide a demonstration of
		how the project functions. Students are required to
		explain the operational principles of their project.
		Students are required to provide a detailed explanation
Step-4	Evaluation	of the implementation technique, design process of
		components, performance of the system, application
		of projects, and future scopes in presence of external
		examiners. Finally, students are required to submit the
		project report.

### C. Project Evaluation Scheme

• Evaluation of performance in Project components is conducted independently by the project guide, panel members, reviews, and external evaluators. The evaluation considers several aspects like the creation of models/prototypes, construction materials, use of current engineering equipment, project work quality, innovation, student presentation, viva, reviews, report writing, and individual contributions.

Table 2.2.3: A detailed project assessment scheme

SI No.	Evaluation Component	Evaluation Type	Marks	Components of Evaluation
1	Final Evaluation	Presentation, viva and report submission	50-panel	Report-15 Presentation-1 5 Viva(QnA)-20
2			25-supervisor	Content of project
3			25-external	Overall

# D. Category and significance of the initiatives and their impact on achieving the POs

Project results upon completion of the course, students will possess the ability to:

- CO1: Conduct a comprehensive analysis of specific technical concerns and establish a clear project aim.
- CO2: Propose a clear plan for executing the project within the specified timeframe.
- CO3: Utilize basic engineering principles, employ sophisticated technical expertise, utilize contemporary engineering tools, conduct experiments, and rigorously evaluate the resulting data.
- CO4: Develop engineering solutions and design system components or processes while taking into account public health, safety, and welfare, as well as global, cultural, social, environmental, and economic issues.
- CO5: Demonstrate proficiency in both independent work and collaborative work across diverse professional environments, while adhering to ethical principles.

# Mapping of project CO with PO/PSO

S.No.	Project CO	Relevance to PO	Relevance to PSO
1.	CO1	1,2,4,6,12	-
2.	CO2	1,2,4,9,10	-
3.	CO3	1,2,5	1,2
4.	CO4	1,2,3,4,5,7,8,11,12	1,2,3
5.	CO5	6,8,9,10,11,12	3
	2. 3. 4.	S.No. CO  1. CO1  2. CO2  3. CO3  4. CO4	S.No. CO Helevance to PO  1. CO1 1,2,4,6,12 2. CO2 1,2,4,9,10 3. CO3 1,2,5 4. CO4 1,2,3,4,5,7,8,11,12

2.2.4 Initiatives related to industry interaction (10)

Institute Marks : 10.00

The department of Electronics and Telecommunication Engineering has established a robust collaboration between the industry and academics to optimize the advantages for the students. The department has implemented many projects to foster a dynamic relationship with the industry, a few of which are outlined below. Participation of the industry in the program design and curriculum

- Involvement of the industry in Industry Supported Laboratories
- Partial completion of the course:
   Presentations given by professionals from the industry
- Educational events focused on hands-on learning and discussions
- Industrial visits
- Industry Electives
   Industry involvement in Research
- Industry involvement in student projects
- Internships

### Industry Internship

Company names where students have undertaken internship in last 4 years.

S. No.	2023-24	2022-23	2021-22	2020-21	2019-20
l	Hindustan Aeronautics Limited Koraput Division	Name of Organisation	IIIT Allahabad	Samagrah foundation	Hindustan Aeronautics Limited
2	NALCO,IOCL	NIT ROURKELA	NTPC	Tata steel Utilities and Infrastructure Services Limited	INDIAN RAILWAYS
3	Code Inbound Rttc,Bsnl		SAIL, RSP	Rttc BSNL	BSNL
4	Radical AI	SAIL	Indian Institute of Information Technology	Internshala	Integrated Test Range(ITR), Chandipur
5	EDX CTTC RTTC, BSNL iServeU		сттс		
6	GyanSys Inc.	East Coast Railways, Sambalpur	ITR- DRDO	Maven Silicon	Airport Authority Of India
7	East coast railway	IIIT ALLAHBAD	Oil and Natural Gas Corporation (ONGC)	ORIGINTECH	Birla Tyres, Balasore
8	I. R. E. L(India) Limited	Hindustan Aeronautics Ltd, Sunabedha	East Coast Railway		East Coast Railways
9	Tata electronics pvt Ltd	CTTC, Bhubaneswar	Indian Railways		National Thermal Power Corporation, Kaniha
10	Ordnance Factory Badmal	Internshala	Hindustan Aeronautics Limited		Odisha Power Transmission Corporation Limited
11	Sherlock Games	Coincent	Youth India foundation, Burla		
12	Med tour easy	Proof & Experimental Establishment (PXE), DRDO	Viral Fission		IREL (India) Limited (Formerly Indian Rare Earths Ltd)
13	Great Learning academy	BSNL	East Coast Railways		Doordarshan Kendra , Bhubaneswar
14	ITR DRDO	Techgeering Solutions Private Limited	iServeU		National Alumnium company Itd. Nalco nagar
15	Central Tool Room & Training Centre(CTTC), BHUBANESWAR	RAIL VIKAS NIGAM LIMITED(RVNL)	NALCO,IOCL		National Academy of Broadcasting and Multimedia
16	Pantech Solutions	Defence Research and Development Organisation	Internshala		All India Radio,Shillon g
17	Ritz Fintech And Allied Services	The Anantkaal	PXE DRDO		

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18	DRDO Chandipur	Graduate Us	MCL		
19	Internshala	AICTE Edu Skills (supported by PaloAlto cybersecurity academy)	Southern eastern railway		
20	NALCO	Palo Alto	Vodafone Idea		
21	NTPC	SAIL, Rourkela Steel Plant, Rourkela, Odisha	East Coast Railways		
22	The Sparks Foundation	Central Tool Room and Training centre	iServeU		
23	Central Tool Room and Training Centre	East Coast Railway	NALCO,IOCL		
24	MCL	Origin Tech	JSPL		
25 26	JSPL JSW	RTTC NALCO	Hindalco JSW		
27	Hindalco	Indian Institute of technology, madras	Central Tool Room and Training Centre		
28	Aditya Birla	MCL H.Q			
29	IOCL	NIIT Foundation			
30	Rourkela Steel plant	ROURKELA STEEL PLANT			
31	SAIL	East Coast Railway			
32	East Coast Railways	Udemy			
33	BSNL BHUBANESWAR	Indian Oil Corporation Limited			
34	OPGC	Indian Rare Earths Limited (IREL)			
35	Rapidsoft technologies	BSNL-ALTTC			
36	Solytics Partners	Bharat Electronics Limited			
37	iServeU	East Coast Railway			
38	Internshala	BEL			
39	Lifespark Technologies	Defence Research and Development Organisation			
40	ITR ( DRDO )	RTTC, BSNL, BHUBANESWAR			
41	Intrainz	Coursera			
42	Maven Silicon IIT KGP (Indian	Jp morgan			
43	In Ker (Indian Institute of Technology Kharagpur)	Coincent			
44	Gyansys	Southern eastern railway			
45	SAIL	Indian Railways			
46	ORIGINTECH	IIRS,DEHRADU N			
47	Proof and Experimental Establishment (PXE DRDO)	Skill Development on telecom testing			
48	INTERNSHALA	Jindal	1	1	
49	BSNL,CTTC	Vodafone idea limited			
50	SAIL	Vodafone Idea			
51	Oasis Infobyte	Nalco			
52	Bharat Intern	Skolar			
53	East Coast Railway	MCL			
54 55	BSNL MCL	Origin Tech Graduate Us			
56	NALCO	aradudic US			
57	MotionCut				
58	EAST COST		1		
59	DRDO				
60	Kfintech				
61	Indian railway, SAIL				
	1		1	1	

62	HAL		
63	BSNL		

### Impact Analysis

- Students cultivate a professional demeanor, acquiring the proficiency to present their research at esteemed national and international conferences and journals.
   Additionally, students have achieved accolades in project design competitions at the state, national, and worldwide levels.
- Increase in students proficiency in cutting-edge technologies.
- As students acquire more skills necessary for their development. Gain a competitive advantage in the job market.
  Enhanced opportunities for targeted development in students
  Smooth transition into employment

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

Institute Marks: 10.00

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Process	Implementation	Impact
Summer training and internship are included in the curriculum plan.	Summer training is an obligatory element of the curriculum, and chosen students participate in an internship program. These components are also considered key Academic requirements and are based on credits. Previously, students would undergo a four-week summer training during the fourth semester and a four-week internship during the sixth semester at esteemed commercial or public sector businesses. During the fourth semester. In addition, the department offers in-house training programs in collaboration with industry specialists, which students have the option to participate in during their sixth semester. Students are required to do a one-month internship in the industry in order to get lirsthand experience in a genuine industrial setting. In eighth semester the students are allowed to do internship for six months in the industries.	Students are immersed in an authentic industrial setting, which alters their perspective as aspiring engineers and inspires them to confront obstacles in a genuine industrial context.

# Industry internship/summer training

### Year 2023-24

S No	Full Name of Student	Roll No.	Name of Internship Organisation	Location
1	BISWAJIT SWAIN	2102070091	HINDUSTAN AERONAUTICS LIMITED	SUNABEDA,KORAPUT
1		2102070091	NALCO,IOCL	
2	Ritika Sahu		·	Angul,Paradip
3	Amit Kumar satapathy	2102070023	HAL	Koraput
4	ABHIJIT MISHRA	2102070015	Code Inbound LLP	Noida
5	K Kundan Kumar Subudhi	2102070088	Hindustan Aeronautics Limited Koraput Division	Sunabeda, Koraput
6	Amit Kumar satapathy	2102070022	Radical AI	Newyork
7	Subhranshu Pradhan	2002070128	Tata Electronics	Bangalore
8	Monalisa Ray	2102070101	EDX	EDX
9	Anisha Mishra	2002070097	GyanSys Inc.	Bangalore, Karnataka
10	Pragya Pandey	2102070066	HAL	Koraput
11	Sonam Mishra	2102070120	East coast railway	Sambalpur
12	Sidharth Sahu	2102090075	I. R. E. L(India) Limited	Matikhalo, Ganjam, Odisha
13	Gopal jain	2002070093	Tata electronics pvt Ltd	Benguluru
14	Diptimayee Satapathy	2102070087	Hindustan Aeronautics Limited	Sunabedha, Koraput
15	Avipsha Mishra	2102070079	Ordnance Factory Badmal	Badmal, Balangir, Odisha
16	Diptimayee Satapathy	2102070087	Hindustan Aeronautics Limited	Sunabeda, Koraput
17	Sambit Kumar Sahoo	2102070032	Sherlock Games	Bhubaneshwar
18	Soumik parida	2102070032	Med tour easy	Kollata
19	Adarsh Soham Acharya	2102070019	HAL	Koraput
20	Om Prasad Nayak	2102070063	Great Learning academy	remote
21	Kushalata Behera	2102110017	Hindustan Aeronautics Limited	Sunabeda ,koraput
22	Ajit Kumar Jena	2002070033	ITR DRDO	Chandipur, Balasore, Odisha
23	Itishree Sahu	2102070073	Central Tool Room & Training Centre(CTTC), BHUBANESWAR	Bhubaneswar
24	B Ashish Kumar Patro	2102070058	Pantech Solutions	Hyderabad
25	Abhijeet Sahoo	2102070064	Ritz Fintech And Allied Services	Chennai
26	Sobhit Kumar Pradhan	2102070086	Hindustan aeronautics limited	Sunabeda koraput
27	Aditya Panch	2002110003	DRDO Chandipur	Chandipur, Balasore
28	Rudra Prasad Rath	2102070045	Hindustan aeronautics limited	Sunabeda, koraput
29	Priyanka Xalxo	2102070114	Central Tool Room and Training Centre	Bhubaneshwar
30	Amar Kumar Sahoo	2203070009	Internshala	Online
31	Aditya Narayan Dash	2202070031	HINDUSTAN AERONAUTICS LIMITED, SUNABEDA	Koraput, SUNABEDA -03 ,763002
32	Ayush pattnaik	2202070013	NALCO	Angul
33	Ayush pattnaik	2201070013	NTPC	Talcher
34	Ayush pattnaik	2202070013	MCL	Odisha
35	Bedananda Jena	2102070122	The Sparks Foundation	Singapore
36	Aditya Tirkey	2102070122	Central Tool Room and Training Centre	Bhubaneswar
37	Subham.S.Bidyadhar Behera		MCL	Talcher
	*		NTPC	Talcher
38	Subham.S.Bidyadhar Behera		_	
39	Subham.S.Bidyadhar Behera		Nalco	Talcher
40	Subham.S.Bidyadhar Behera		JSPL	Angul
41	Chamanraj Naik	2102110002	COHORT - 5(SALESFORCE DEVELOPER)	N/A
42	Subham.S.Bidyadhar Behera		JSW	Angul
43	Subham.S.Bidyadhar Behera	2202070043	Hindalco	Sambalpur
44	Subham.S.Bidyadhar Behera	2202070043	Aditya Birla	Sambalpur
45	Swagatika Panda	2303070007	IOCL	Paradeep
			-	

47         Processor Services         Description         Production           48         Responder proportion         Colonization         Gallaction           58         Responder proportion         Colonization         Production           58         Selection         Colonization         Colonization           58         Selection         Colonization         Colonization           58         Selection         Colonization         Colonization           58         Selection         Colonization         Colonization           58         Allentic Selection         Colonization         Production           59         Application         Colonization         Production           60         Production         Colonization         Production           60         Selection         Colonization         Colonization         Colonization           60         Selection         Colonization         Colonization         Colonization           60         Selection         Colonization         Colonization         Colonization           61         Reception         Colonization         Colonization         Colonization           62         Reception         Colonization         Colonization         R	46	Swagatika Panda	2303070007	Rourkela Steel plant	Rourkela
69                 Standard Marked Schame                 CHICA                Marked Marked Schame                 Performance Accordance                  Performance Accordance                      Performance Accordance                       Performance Accordance                       Performance Accordance                       Performance Accordance                       Performance Accordance	47	BHAGYASHREE PANDA	2303070006	loci	Pradeep
50         December Memorane         1907/0018         Ease Coast Relayer         Month Accordate           17         1 Frager Same         1907/018         Case Coast Relayer         Month Accordate           18         1 Frager Same         1907/018         Case Coast Relayer         Month Accordate           18         1 Frager Same         1907/019         Case Coast Relayer         Month Accordate           19         Parkel Toward         1907/019         1917         Case Coast Relayer         1917           19         Parkel Same         2000/000         Month Coast Accordate         1918           20         Parkel Same Accordate         2000/000         Month Coast Accordate         1918           20         Parkel Same Accordate         2000/000         Month Coast Accordate         1918           21         Parkel Same Accordate         2000/000         Parkel Same Accordate         1918           21         Parkel Same Accordate         2000/000         Parkel Same Accordate         1918           22         Parkel Same Accordate         2000/000         Parkel Same Accordate         1918           22         Parkel Same Accordate         2000/000         Parkel Same Accordate         1918           22         Parkel Same Acc	48	Bhagyashree panda	2303070006	SAIL	Rourkela
15         Authorisation Page 1         CODITION 1         East Code Reliable (Microsoft Act Countries)         Myster Countries         Physical Processor           15         30 Microgram Control         100 Microgram Countries         100	49	Bhagya shree panda	2303070006	CTTC	Bhubaneswar
48 De 18	50	Shradha Mohapatra	2102070039	East Coast Railways	Khordha, Cuttack
50         R. Marchall District         PRESENT DISTRICT         BERNAMENSON SCHOOL         BERNAMENSON SCHOOL         BERNAMENSON SCHOOL         BERNAMENSON SCHOOL         BERNAMENSON SCHOOL         CONTROL         C	51	Sraddha Suman Patra	2102070118	East Coast Railway	Khurda And Cuttack
45 Post Process Services         PALA SERVICES         Chalanter Services         SERVICE SERVICES         Chalanter Services         Chalant	52	Sthiti Pragyan Samant	2102070107	East coast railway	Khurda and Cuttack
565         Polysie Fischer Finity         Print Decision         Print Deci	53	Sai Nandini	2102070027	BSNL BHUBANESWAR	Bhubaneswar
69/2007         Programma Robons         Control Scotter Marken         Montal Scotter Marken         Montal Scotter Marken	54	Ronesh Tarenia	2202070027		odisha
58         Amount Student         Processor         Amount Student         Processor         Butter Student           60         Decks and Students         2000/07/19 /r         Solytics Parties         Recent         Butter Student	55	Ayushi Simran Prusty	2102070098	IREL	Chattarpur , Ganjam
68 Mill Sundays Marks         SOUTH Print Minists         Money Support Vision Minists         Money Support	56	Priyadarshini Sahoo	2102020051	NALCO Angul	Angul
69/16/2006/John Franch Malabot         0000000077         Repolated technologies         Guiparion           61	57	Abhishek biswal	2102070020	OPGC	itps banharpali
60         Post Control         Separate Microsophes         Separate Microsophes         Filtrono           61         Rust and Control         1807/0007         Hordunal American Microsophes         Suntable Microsophes         Microsophes           62         Rust and Microsophes         2007/0007         Hustranitation         Hustranitation           63         Rust and Microsophes         2007/0007         Hustranitation         Hustranitation           64         Microsophes         2007/0007         Hustranitation         Hustranitation           65         American Claim         2007/0007         DPDO         Charlego Englisher           66         American Claim         2007/0007         DPDO         Charlego Englisher           67         American Claim         2007/0007         Hustranitation         Beacher           68         American Claim         2007/0007         Course Tomor A Francing Genes (CTTC)         Britanican Microsophes           70         Nillian Cheekee Predict         1800/00000         Charlego Englisher           71         Nillian Cheekee Predict         1800/00000         Charlego Englisher           72         American Salary         2007/0000         Charlego Englisher         Hustranitation           73         America	58	Smruti Sucharita Mishra	2002070071	Marquee Semiconductor	Bhubaneswar
60         Designation Market (Cont.)         1000/1000/1000         Secret (Cont.)         Behave (Cont.)         1000/1000         10000/1000         1000/1000         1000/1000         <	59	Sanjeev Kumar Mahato	2002070127	Rapidsoft technologies	Gurgaon
60         Besthalt Ordin         1902/1007         Hirty John Assertation         Substantion Membrane         Description         Honore           64         Assertation Membrane         2002/1014         Literation Section         Municipal         Municipal           65         Amonto Death         2002/1014         Chrony Company         Death Assertation           67         Amonto Death         2002/1014         Chrony Company         Chrony Company           67         Amonto Death         2002/1014         Chrony Company         Chrony Company           67         Amonto Death         2002/1012         Chrony Company         Death Company           69         Minister Company         2002/1012         Chrony Company         Death Company           70         March Company         2002/1012         Chrony Company         Death Company           71         Amonto Asset         2002/1012         Monos Stock         Death Company           72         Amonto Asset         2002/1012         Monos Stock         Death Company           73         Amonto Asset         2002/1012         Monos Stock         Death Company           74         Amonto Asset         2002/1012         Monos Stock         Death Company           75	60	Debabrata Mohapatra	2002070047	Solytics Partners	Remote
60         No. mather brunches         2000077004         International         Horses           64         Debatoria Miniparian         2000077045         Litesport Neckrodegies         Muestee           66         Aminisa Drain         200007044         FITE (DRDD)         Chandegue (Rassene)           67         Aminisa Radia         200007044         BRIDO         Chanders           68         Aminisa Radia         200070044         BRIDO         Belance           70         Adapt Service         20007004         Present         Broad           71         Natio Colorida Parcia         20007002         Present         BRIDO           71         Natio Colorida Parcia         20007002         Present         BRIDO           72         Assist Radia         20007002         Present         BRIDO         Chanders           73         Nation Sale         20007002         Present Section         Brida         Brida           74         France Sale         20007002         Manusca Machine         Brida         Brida           75         Sampad Mahatay         20007004         Crit Section Handward         Brida         Brida           76         Sampad Mahatay         20007004         Gyport Section<	61	Rudramadhaba Mishra	2002070064	iServeU	Bhubaneswar
Montania Managama	62	Baishakhi Guin	2102070067	Hindustan Aeronautics Limited	Sunabeda, Koraput
60         Chembay Number Note         2000/7918         TRY (DRD)         Changur (Balsone)           67         Adays Shyl         2000/79122         DRDO         Balsone           68         Archips Deshi         2000/79122         DRDO         Beguar (Kanstala)           70         Survival Abeler         2000/79123         DRDO         Beguar (Kanstala)           71         Millor Godrick Periads         2000/7912         DRDO         Drawford (Kanstala)           72         Millor Sandaria         2000/7902         DRAW Horizon         DROWN           72         Millor Sandaria         2000/7902         Marce Silvon         Berglatur           73         Saryen Sabat         2000/7902         Marce Servicorduzior         Britan Ace Ace           74         Farlan & Call         2000/7902         Marce Servicorduzior         Britan Ace Ace           75         Sargend Meherry         2000/7903         Granday Republication         Britan Ace Ace           77         Aberrian Abriage         2000/7904         TITO BROD         Charadigur, Bilasone           78         Britan Abriage         2000/7904         TITO BROD         Ballacero, Calcha           79         Prilan Saray         2000/7904         TITO BROD <td< td=""><td>63</td><td>Rasik mohan munda</td><td>2002070108</td><td>Internshala</td><td>Home</td></td<>	63	Rasik mohan munda	2002070108	Internshala	Home
6F         Chrysing Kimar Raul         2021/01/24         DRDO         Bestone           67         Ambrito Bash         2002/01/24         DRDO         Bestone           68         Ambrito Bash         2002/01/24         Intramar         Bengalaru (Karnasha)           78         Self Wahrene         2002/01/24         Pattech Polaba India Pri Ltd         Bengalaru (Karnasha)           78         Self Wahrene         2002/01/24         Pattech Polaba India Pri Ltd         Home           78         Self Wahrene         2002/01/24         Manage Selficen         Bengalaru           78         Self Wahrene         2002/01/24         Manage Selficen         Bengalaru           78         Selfia Selfia         2002/01/24         Karpas Selfia         2002/01/24         Karpas Manage         British Anage         2002/01/24         KARPA (KARRA)         2002/01/24         KARPA (KARRA)         2002/01/24         KARPA (KARRA)         ANAGA KUMAR SINGH         1002/01/24         KARPA (KARRA)         2002/01/24         KARPA (KARRA)         Bengalaru         1002/01/24         KARPA (KARRA)         Bengalaru         1002/01/24         KARPA (KARRA)         Bengalaru         Bengalaru         1002/01/24         KARPA (KARRA)         Bengalaru         Bengalaru         Bengalaru         Anage Karra	64	Debabrata Mohapatra	2002070047	Lifespark Technologies	Mumbai
67 P.         Adity Singh         2002***015***         DRDO         Batacor           68 America Namer         2002/07/48         Ireatina         Bergahuru (Karnation)           70 Unsidars Aleier         2002/07/49         9000         Ohesitatus Selection           71 Staff Valenderman         2002/07/19         PRINCE Charles (CTTC)         Browners           72 Million Continue Transition         2002/07/19         Print American         Home Charles           73 Staff Staff Staff         2002/07/19         Month Staff         Browners           74 Farth And         2100/07/09         Month Staff         British Staff           75 Sanged Michaely         2000/07/09         If KIP Policile Institute of Technology (Nanagaur)         Philade Staff           76 Marchia Ashinaty         2000/07/09         If KIP Policile Institute of Technology (Nanagaur)         Philade Staff           77 American American         2100/07/09         If KIP Policile Institute of Technology (Nanagaur)         Philade Staff           78 Partia Staff         2100/07/09         If KIP Policile Institute of Technology (Nanagaur)         Philade Staff           79 Partia Staff         2000/07/19         If KIP Policile Institute of Technology (Nanagaur)         Black Staff           70 Partia Staff         2000/07/19         If KIP Policile Institute of Tech	65	Amitosh Dash	2002070148	ITR ( DRDO )	Chandipur ( Balasore )
68         Aminos Dach         2002/1014         February         Bergatur (Kamataka)           69         Urswinsta Meller         8003/7007         Contral Tool Room & Training Centre (CTTC)         Brishamewar           71         Natio Gebrus Parkan         1000/7002         Pattech Probable India P Lt Id         Home           72         Faste Barrian         2000/7002         Pattech Probable India P Lt Id         Home           73         Faste Barrian         2000/7002         Marian Room         British Room         British Room           74         Faster Acad         2000/7002         Marian Room         British Room         British Room           75         Sampan Mahamy         8000/7002         If CRID PROD         Character, Management           76         Faster Acad         8000/7003         If CRID PROD         Character, Management           78         Partian Room         9000/7003         If IT DRDO         Character, Management           78         Partian Pangiam         91000/7003         If IT DRDO         Character, Management           78         Partian Room         9000/7003         If IT DRDO         Character, Management           80         Partian Room         90000/7003         If IT DRDO         Character, Management	66	Chinmay Kumar Rout	2002070061	DRDO	Chandipur,Balasore
69         Unabarts MeHer         2002/07/09 Discovered         Central Too Room & Training Centre (CTTC)         Brobaneser           70         Sully Michaelanna         2003/07/07 Discovered         DRDO         Chardrous Balascre           71         Master Gorden         2003/07/07 Discovered         Persohn Park         Homes           72         Fashan Salani         2003/07/07 Discovered         Memore Sticco         Bergaturu           74         Fashan Azad         2003/07/07 Discovered         CTT Cell-BURNESWAR         BHUBANESWAR PATIA           75         Saspand Mohamity         2003/07/07 Discovered         ITT CELL PURDO         Chardrous Centre           76         Sandaria Mohamity         2003/07/07 Discovered         ITT CEDIO         Chardrous Centre           77         Assarcias Mohamity         2003/07/07 Discovered         TTD DRDO         Chardrous Centre           78         Parks Salani         1003/07/17 Discovered         TTD DRDO         Chardrous Centre           79         Parks Salani         1003/07/17 Discovered         TTD DRDO         Chardrous Centre           80         Bellina Paragrami         1003/07/17 Discovered         TTD DRDO         Chardrous Centre           81         Ashipier Salani         2003/07/17 Discovered         TTD DRDO	67	Aditya Singh	2002070122	DRDO	Balasore
70         Suji Valvavenma         2002/00073         PORDO         Observable parked         Edestroop           70         Nillis Gobinde Fanda         1005/00022         Parisich Product India Pri Ltd         Hone           71         Albeit Barriad         2000/00022         Manageae Semiconducter         Brudanceauer           72         Albeit Barriad         2000/00022         CTTC BHURNANESWAR         BHURNANESWAR PATIA           75         Sampad Mohamy         2000/00020         ETTC BHURNANESWAR         BHURNANESWAR PATIA           76         SMARA JUMARI SINCH         2000/00020         ETTC BHURNANESWAR         BHURNANESWAR PATIA           76         Berlink Parligeris         2100/00013         TITL DRDO         Chandigue, Berling           76         Berlink Parligeris         2100/00013         TITL DRDO         Chandigue, Berling           78         Brillis Parligeris         2100/00012         TITL DRDO         Chandigue, Berling           78         Brillis Parligeris         2100/00012         TITL DRDO         Chandigue, Berling           80         Brillis Parligeris         2100/00012         TITL DRDO         Chandigue, Berling           81         Hearmante Sudhi         2000/000012         ARISANA         Reparling <t< td=""><td>68</td><td>Amitosh Dash</td><td>2002070148</td><td>Intrainz</td><td>Bengaluru ( Karnataka)</td></t<>	68	Amitosh Dash	2002070148	Intrainz	Bengaluru ( Karnataka)
Nish Cabrids Parala   2020/197012   Particul Prolable India Pri List   Home   Bengatura   Bengatura   2020/197012   Mawer Silicon   Bengatura   Bengatura   2020/197012   Mawer Silicon   Bengatura   Bengatura   2020/197012   Mawer Silicon   Bengatura   Bentan Assal   2020/197012   Mawer Silicon   Bengatura   Bentan Assal   2020/197012   Mawer Silicon   Bengatura   Bentan Assal   2020/197012   Mawer Silicon   Bentan Assal   2020/197014   Tirk QP (Indian Institute of Technology Khangpur)   Khangpur Weet Bengal   Marchan Halland   Marchan Institute of Technology Khangpur)   Khangpur Weet Bengal   Marchan Halland   Marchan Institute of Technology Khangpur)   Bengatura   Bengatura   Marchan Institute of Technology Khangpur)   Bengatura   Bengatura   Marchan   Marchan Institute of Technology Khangpur)   Bengatura   Bengatura   Marchan Institute of Technology Khangpur)   Bengatura   Ben	69	Umakanta Meher	2002070001	Central Tool Room & Training Centre (CTTC)	Bhubaneswar
20   Asilon Baris   200070012   Maryens Silcon   Bengalum   Bubusaneswart	70	Sujit Vishwakarma	2002070073	DRDO	Chandipur, Balasore
20   Asilon Baris   200070012   Maryens Silcon   Bengalum   Bubusaneswart					, ,
73         Silvyam Sabat         0000700022         Marques Semiconductor         Bhubaneswar           74         Fartan Azada         CTTC BHUBANESWAR HANDA         BHUBANESWAR PATIA           75         Sampad Mohamy         200000009         IT KSP (Indian Institute of Technology (Namagaur)         I Humany West Rengal           76         Asadria Mohamy         2000070145         Gynanys         Bargone           77         Asadria Mohamy         2000070145         Gynanys         Bargone           8         Brisia Parighant         210007012         TITE DRDO         Chandigur           9         Paria Research         210007012         SAIL         Blosson Cubria           18         Harumanti Sodir         20007016         ORTHAN CARRES         Browness           18         Abrigue Yanda         210070014         NTERNISHALA         Ortherplace Balasore           18         Sagar China         200070019         NTERNISHALA         Ortherplace Balasore           18         Sagar China         200070019         NTERNISHALA         Ortherplace Balasore           18         Sagar China         200070019         NTERNISHALA         Ortherplace Balasore           19         Arighiga Tanakar         20007011         BRILL         B					
7-4         Fartan Azad         100070005         CTTC B-UBANESWAR         B-HUBANESWAR PATIA           75         Sampad Moharty         0000700509         IT KRP (infain Instaltue of Technology Khanagpur)         Khanagpur, Weat Bengal           77         Abardika Michaely         0000700509         IT KRP (infain Instaltue of Technology Khanagpur)         Chanagpur, Weat Bengale           78         Brillan Pangalh         110007013         TTR DRDO         Balasova, Odniha           79         Prillan Samul         110007013         TTR DRDO         Daharijur           80         Prillan Samul         10007013         SAL         Bourseld           81         Harumantus Sudro         20027013         SAL         Bourseld           82         Shrayanin Swam         200207018         ORNGINTECH         Sanabalpur           83         Shrijenin Swam         200207014         TITT (PRDO         Chardipur, Balasore           84         Shrijenin Swam         200207014         TITT (PRDO         Chardipur, Balasore           85         Shrijenin Swam         200207014         TITT (PRDO         Chardipur, Balasore           86         Shrijenin Swam         200207013         SASHITA (AR         Chardipur, Balasore           87         Ayaniga Baranaga					ů .
75         Sampad Minharity         2002070059         IT KGP (bridain Institute of Technology Khunagpur)         Khanagpur, West Bergal           76         SWARAL KIJMAR SINCH         2002070146         Grandpur, Ediatore           78         British Panigrahi         2002070145         Grandpur, Ediatore           78         British Panigrahi         2103070012         TIR, DRDO         Chandipur           80         British Panigrahi         2103070012         SAIL         Roundle           81         Harumaniu Sudhir         2002070058         Prof. American College         SAIL         Roundle           82         Shriyanin Swalin         2002070058         Prof. and Experimental Ediabilityment (PKE DRDO)         Characipur, Ediatore           84         Saiger Ghosh         2002070058         Prof. and Experimental Ediabilityment (PKE DRDO)         Characipur, Ediatore           85         S. Mohr         2002070058         PALL         Sunaboda           86         Aminya Famani         2002070019         BRIN, CTIC         Bhibbaneware           87         Ayush pattinak         2002070019         SAIL         Poulsel           88         Aminya Famani         2002070019         SAIL         Poulsel           91         Anyush pattinak         <					
78         SWARAJ KUMAR SINCH         2002/10146         TITR, ORDO         Chardipur, Balasore           77         Asamika Meharity         2002/10145         Syrineys         Bargiere           79         Pratik Swain         2109/1012         ITD DRDO         Balasoro, Odstala           79         Pratik Swain         2109/1012         TITR, DRDO         Chardipur           80         Brilka Pangrah         1100/1012         SAIL         Rounded           81         Hartumanu Sudir         2002/1012         SAIL         Rounded           82         Shreyansh Swain         2002/1016         Proof and Experimental Establishment (PXE DRDO)         Chardipur, Balasore           83         Ashiyet Yadav         2102/1014         NTERNSHALA         Online platform of INTERNSHALA           85         S MoH         2100/10193         BRDO-TIT         Chardipur, Balasore           86         A Sagar Ghosh         2100/10193         BSNLCTTC         Bhubaneswar           87         Ayush patriak         2002/10193         BSNLCTTC         Bhubaneswar           88         Tammy Marine         2002/10193         BRDO-PXE         Chardipur, Balasore           91         Ashiri S Arasina         2002/10193         BRDO-PXE         Ch					
77         Abantika Mohanty         2002070145         Cyaneys         Bengiore           78         Bisika Panignah         2103070131         ITR DRDO         Balasone, Goldra           80         Briska Panignah         2103070131         ITR DRDO         Chandipur           81         Hannmanis Sudinir         2002070137         ORIGINITICH         Senhalipur           83         Abhijea Yadaw         2010070147         Poll Michard Epishment (PEDRO)         Chandigur, Balasone           84         Shryaman Swah         2010070147         Poll Michard Epishment (PEDRO)         Chandigur, Joshanone           85         Sh Mahijaan         2010070144         DRDO-ITR         Chandigur, Joshanone           86         Sh Mahijaan         2010070134         DRDO-ITR         Chandigur, Joshanone           86         Amiya Balania         201007013         SSAIL         Bornary         Chandigur, Joshanone           86         Amiya Balania         202007013         SSAIL         Bornary         Chandigur Balasone           86         Amiya Balania         202007013         SSAIL         Bornary         Chandigur Balasone           80         Amiya Balania         202007013         SSAIL         Bornary         Chandigur Balasone <t< td=""><td></td><td>,</td><td></td><td></td><td></td></t<>		,			
78         Brillia Penigrahi         £103070013         TITR DRDO         Balassere, Odeha           79         Prelisit Swain         £103070012         TITR, DRDO         Chandigur           81         Perika Fragraphi         £10907013         SAIL         Flowheda           81         Harumantu Sudhir         2002070037         OPHGINTECH         Sambalpur           82         Shriyenin Nawain         2002070038         Prod and Experimental Establishment (PKE DRDO)         Chandigur, Balascre           83         Ashijeer Yader         £100070034         INTERNSHALA         Online platform of INTERNSHALA           84         Sagar Ghosh         2002070134         DRDO-TITR         Chandigur, Editator           85         Shohil         £100070003         HAL         Surabeda           86         Arriya Brajan Dhanua         £202070013         SSAIL         Floureda           87         Ayung patralak         £202070013         SSAIL         Floureda           88         Tarriya Maria         £202070014         DRDO         Chandigur, Balascre           89         Ashirita Nawak         £202070019         PRDO         Chandigur, Balascre           91         Mariany Janea         £202070017         PRDO         Chandigu					
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68         British Paringrahi         2103/70013         SAIL         Rouried           81         Hannamanu Sudhir         2002/70137         ORISINTECH         Sambalpur           82         Shreyandh Swain         2002/70149         NTERNSHALA         Online platform of INTERNSHALA           83         Abhjee Yadar         2002/70134         DBDO-TR         Chandpur, Balacore           84         Sagar Ghosh         2002/70134         DBDO-TR         Chandpur, Balacore           85         Arryan Farania Pharua         2102/70131         SBNL, CTT         BRubanewar           86         Arryan Farania Pharua         2202/70013         SAIL         Bouréela           87         Arryan Asana         2002/70014         SAIL         Bouréela           88         Arrayan Asana         2002/70019         DRDO-PXE         Chandpur Balacore           90         ASHRITA NAYAK         2002/70020         PERDO-PXE         Chandpur Balacore           91         Marina Balana         2002/70020         Perlaman Marina         2002/70020           92         Perlama Marina         2002/70020         Perlaman Marina         2002/70020           93         Jahika Pradhan         2002/70020         Parlaman Marina         2002/70020					
81         Harumantu Sudhir         2002/70197         ORIGINTECH         Sambalpur           82         Shriyaranis Nwain         2002/70194         Not and Experimental Establishment (PKE DRDO)         Chandipur, Balsacore           83         Abhijeel Yadav         210207014         INTERNISHALA         Online platform of INTERNISHALA           84         Sayar Chooth         2002070144         DRDO-ITR         Chandipur, odshina           85         Minya Ranjan Dharua         210207013         BSLCTTC         Bhubaneswar           86         Ariya Ranjan Dharua         210207013         SAIL         Routela           88         Arannya Jena         200207014         DRDO-PKE         Chandipur, Balsacre.           89         Arannya Jena         200207014         DRDO-PKE         Chandipur, Balsacre.           80         Arannya Jena         200207014         DRDO         Chandipur, Balsacre.           81         Marinta Marka         200207014         DRDO         Chandipur, Balsacre.           81         Marinta Marka         200207014         DRDO         Chandipur, Balsacre.           81         Marinta Marka         200207014         DRDO         Chandipur, Balsacre.           82         Parlatim Marka         200207012					·
82         Shriyayarah Swain         2002070058         Proof and Experimental Establishment (PXE DRDO)         Chandipur, Balasore           83         Abnjieri Yadaw         2103070014         INTERNSHALA         Online platform of INTERNSHALA           84         Sagar Chosh         200207014         DRDO TR         Chandipur, Delhard           85         S Mohit         2103070030         HAL         Sunabada           86         Arilya Rarjan Dharua         2102070113         BSNL,CTTC         Bhubaneswar           87         Ayush patriask         200207014         DRDO PXE         Chandipur, Balasore           89         Aranya Jerna         200207014         DRDO PXE         Chandipur, Balasore           90         ASHRITA NAYAK         2002070060         DRDO Chandipur, Balasore         Chandipur, Balasore           91         M Sambit Kumar         2002070060         DRDO         Chandipur, Balasore           92         ASHRITA NAYAK         2002070060         DRDO         Chandipur, Balasore           93         Ishiha Fradhan         2002070060         DRDO         Chandipur, Balasore           94         Ishiha Fradhan         2002070060         DRDO         Chandipur, Balasore           95         Pathu Kumar Singh         2002					
83         Abbijeer Yadaw         2102070014         INTERNSHALA         Ontine platform of INTERNSHALA           84         Sagar Ghosh         2002070134         DRDO-ITR         Chandjour, odsha           85         S Mohit         2102070013         DRDO-ITR         Chandjour, odsha           86         Amya Ranjan Dharua         2102070113         DRDO-ITR         Bhubaneswar           67         Ayush pathraik         202070013         SAIL         Rountela           88         Tammoy Mishra         2002070091         DRDO-PXE         Chandjour, Balasore.           90         ASHIRTA NAYAK         2002070060         TITO.DRDO         BALASONE, CDISHA           91         M Sambit Kurnar         2002070060         TITO.DRDO         BALASONE, CDISHA           92         Pratham Maihra         2002070060         TITO.DRDO         Chandigur Colsha           93         Ishika Pratham         2002070060         DRDO         Chandigur Colsha           94         Ishika Pratham         2002070070         DRDO         Chandigur Colsha           95         Rahul Kumar Singh         2002070070         Bala Cosat Raliway         Bhubaneswar           96         Lawrence Lirkan Sahoo         2002070077         BSNL         Bhubane					· ·
84         Sagar Chosh         200270134         DRDO-TITR         Chandpur, odisha           85         S Mohit         210370003         HAL         Sunabeda           86         Aniya Patrijank         210270013         BSNLCTTC         Brhubaneswar           87         Ayush patrinalik         202070013         SAIL         Rouriela           88         Tannoy Mishra         202270014         DRDO-PXE         Chandpur, Balasore.           89         Ananya Jena         200270000         DRDO-DYE         Chandpur, Balasore.           91         M Sambit Kumar         200270000         TITLDRDO         BALASORE, Odisha           92         Pratham Mishra         200270102         DRDO         Chandpur Ddisha           93         Ishika Pradhan         200261083         Casis Infobyte         New Dehi           94         Ishika Pradhan         200261083         Casis Infobyte         New Dehi           95         Rahu Kumar Singh         200270037         DRDO         Angul           96         Lawrence Linkan Sahoo         200270037         NALCO         Angul           97         Lawrence Linkan Sahoo         200270037         MCL         Angul           101         Anblehav Kramar Pra	82	Shreyansh Swain	2002070058	Proof and Experimental Establishment (PXE DRDO)	Chandipur, Balasore
86         Arniya Ranjan Dharuu         2102070113         BSNL_CTTC         Brlubaneswar           87         Ayush pattraik         2202070019         SAIL         Rourtela           88         Taramy Mishra         2002070091         DRDO-PXE         Chandjour, Balasore.           90         AshritTA NAYAK         2002070060         ITR_DRDO         BALASORE_ODSHA           91         M Sanbit Kumar         2002070062         Defence Research and Development Organisation         Balasore, Odsha           92         Pratham Mishra         2002070120         DRDO         Chandipur Odsha           93         Ishika Pradhan         2002070120         DRDO         Chandipur Odsha           94         Ishika Pradhan         200201063         Gasis Infobyte         New Dehi           95         Rahul Kumar Singh         2002070132         East Coast Railway         Brlubaneswar           96         Lawrence Lirkan Sahoo         2002070037         NALCO         Angul           97         Lawrence Lirkan Sahoo         2002070037         NTPC         Angul           100         Sobhik Kumar Pradhan         2102070037         MCL         Angul           101         ANUBHAY KHAMARI         21020070037         MCL         Angul					·
87         Ayush patrialik         2202070013         SAIL         Rourkela           88         Tanmoy Mishra         2002070914         DRDO DRDO Chandipur, Balasore.           89         Ananya Jena         2002070144         DRDO Chandipur Balasore.           90         ASHRITA NAYAK         2002070062         DRDO BALASORE,ODISHA           91         M Sambit Kumar         2002070062         Defence Research and Development Organisation         Balasore, Odisha           92         Pratham Mishra         2002070120         DRDO Chandipur Odisha           93         Ishika Pradhan         2202061063         Oasis Infobyte         New Delhi           94         Ishika Pradhan         2002070132         East Cast Rallway         Brubaneswar           95         Rahul Kumar Singh         2002070037         NALCO         Angul           97         Lawrence Lirikan Sahoo         2202070037         NTPC         Angul           98         Lawrence Lirikan Sahoo         2202070037         MCL         Angul           101         ANUBHAV KHAMARI         2102070088         Hindustan aeronautics limited         Sunabeda koraput           102         SARBESWAR DASH         2203070009         Central tool and Training Centre         Brubaneswar				DRDO-ITR	·
88         Tammoy Mishra         2002070091         DRDO-PXE         Chandipur, Balasore.           89         Ananya Jena         2002070144         DRDO         Chandipur Balasore           90         ASHRITA NAYAK         2002070060         ITR, DRDO         BALASORE, ODISHA           91         M Sambit Kumar         2002070120         Defence Research and Development Organisation         Balasore, Odisha           93         Ishika Pradhan         2002070120         DRDO         Chandipur Odisha           94         Ishika Pradhan         202051063         Osais Infobyte         New Delhi           95         Rahul Kumar Singh         202051033         Bharat Intern         Bhopal           96         Lawrence Linkan Sahoo         202070037         ANALCO         Angul           97         Lawrence Linkan Sahoo         202070037         NTFC         Angul           98         Lawrence Linkan Sahoo         202070037         MCL         Angul           101         ANUBHAV KHAMARI         2102070036         Hindustan aeronautics limited         Sunbada koraput           102         SaRBESWAR DASH         203070037         MCL         Angul           103         Aditya Tirkey         1120270036         MoltonCut         Be	84	Sagar Ghosh	2002070134	DRDO-ITR HAL	Chandipur , odisha
88         Anarya Jena         2002070144         DRDO         Chandipur Balasore           90         ASHRITA NAYAK         200270060         ITR,DRDO         BALASORE,DDISHA           91         M Sambil Kumar         2002070020         Defence Research and Development Organisation         Balasore, Odisha           92         P Fratham Miehra         2002070020         DRDO         Chandipur Odisha           94         Ishika Pradhan         2002061063         Dasta Infobyte         New Delhi           95         Rahul Kumar Singh         2002070122         East Coast Railway         Bhubaneswar           96         Lawrence Linkan Sahoo         202070037         NALCO         Angul           97         Lawrence Linkan Sahoo         202070037         NTPC         Angul           98         Lawrence Linkan Sahoo         202070037         MCL         Angul           100         Sobhit Kumar Pradhan         2102070037         MCL         Angul           101         ANUBHAV KHAMARI         110209005         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAV KHAMARI         2102070105         Central tool and Training Centre         Brubaneswar           104         Omkar Mandal         2102070105	84 85 86	Sagar Ghosh S Mohit	2002070134 2103070003	DRDO-ITR HAL	Chandipur , odisha Sunabeda
90         ASHRITA NAYAK         2002070060         ITR.DRDO         BALASORE,ODISHA           91         M Sambit Kumar         2002070062         Defence Research and Development Organisation         Balasore, Odisha           92         Pratham Mishra         2002070120         DRDO         Chandipur Odisha           93         Ishika Pradhan         2020061063         Osais Infobyte         New Delhi           94         Ishika Pradhan         2020061063         Bharat Interm         Bhopal           95         Rahul Kumar Singh         2002070132         East Coast Railway         Bhubaneswar           96         Jawrence Linkan Sahoo         2002070037         NALCO         Angul           97         Jawrence Linkan Sahoo         202070037         NTPC         Angul           98         Jawrence Linkan Sahoo         202070037         MCL         Angul           100         Sobhit Kumar Pradhan         2102070066         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAW KHAMARI         2102090054         NALCO         Angul           102         SARBESWAR DASH         220307005         DRDO         BALASORE           103         Aditya Tirkey         210207019         Central tool and Training	84 85 86	Sagar Ghosh S Mohit Amiya Ranjan Dharua	2002070134 2103070003 2102070113	DRDO-ITR HAL BSNL,CTTC	Chandipur , odisha Sunabeda Bhubaneswar
91         M Sambit Kumar         2002070062         Defence Research and Development Organisation         Balasore, Odisha           92         Pratham Mishra         2002070120         DRDO         Chandipur Odisha           93         Ishika Pradhan         220201063         Oasis Infobyte         New Delhi           94         Ishika Pradhan         220201032         Bharat Intern         Bhopal           95         Rahul Kumar Singh         2002070132         East Coast Railway         Bhubaneswar           96         Jawrence Linkan Sahoo         2202070037         NALCO         Angul           97         Jawrence Linkan Sahoo         2202070037         NTPC         Angul           98         Jawrence Linkan Sahoo         2202070037         MCL         Angul           100         Sobhit Kumar Pradhan         2102070086         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAV KHAMARI         2102070086         PRDO         BALASORE           103         Aditya Tirkey         2102070199         Central tool and Training Centre         Bhubaneswar           104         Omkar Mandal         210207005         DRDO         BALASORE           105         Tushar Kart Soren         210207006	84 85 86 87	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik	2002070134 2103070003 2102070113 2202070013	DRDO-ITR HAL BSNL,CTTC SAIL	Chandipur , odisha Sunabeda Bhubaneswar Rourkela
92         Pratham Mishra         2002070120         DRDO         Chandipur Odisha           93         Ishika Pradhan         2202061063         Oasis Infobyte         New Delhi           94         Ishika Pradhan         2202061063         Bharat Intern         Bhopal           95         Rahul Kumar Singh         202070037         East Coast Railway         Bhubaneswar           96         Lawrence Linkan Sahoo         2202070037         NALCO         Angul           97         Lawrence Linkan Sahoo         2202070037         BSNL         Bhubaneswar           98         Lawrence Linkan Sahoo         2202070037         MCL         Angul           100         Sobhit Kumar Pradhan         2102070037         MCL         Angul           101         ANUBHAV KHAMARI         2102070086         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAV KHAMARI         2102090054         NALCO         Angul           102         SARBESWAR DASH         2203070005         DRDO         BALASORE           103         Aditya Tirkey         2102070109         Central tool and Training Centre         Bhubaneswar           104         Omkar Mandal         2102070005         MotionCut         Remote <td>84 85 86 87 88</td> <td>Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra</td> <td>2002070134 2103070003 2102070113 2202070013 2002070091</td> <td>DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE</td> <td>Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore.</td>	84 85 86 87 88	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra	2002070134 2103070003 2102070113 2202070013 2002070091	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore.
15	84 85 86 87 88 89	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena	2002070134 2103070003 2102070113 2202070013 2002070091 2002070144	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore
Same	84 85 86 87 88 89	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK	2002070134 2103070003 2102070113 2202070013 2002070091 2002070144 2002070060	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA
95         Rahul Kumar Singh         2002070132         East Coast Railway         Bhubaneswar           96         Lawrence Linkan Sahoo         2202070037         NALCO         Angul           97         Lawrence Linkan Sahoo         2202070037         BSNL         Bhubaneswar           98         Lawrence Linkan Sahoo         2202070037         NTPC         Angul           100         Sobhit Kumar Pradhan         2102070086         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAY KHAMARI         2102070086         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAY KHAMARI         2102070086         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAY KHAMARI         2102090084         NALCO         Angul           102         Anditya Tirkey         2102070095         DRDO         BALASORE           103         Aditya Tirkey         2102070199         Central tool and Training Centre         Bhubaneswar           104         Omkar Mandal         2102070109         Central tool and Training Centre         Bhubaneswar           105         Tushar Kant Soren         2102070108         CTTC         Bhubaneswar           107         Ankita Rayaguru	84 85 86 87 88 89 90	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar	2002070134 2103070003 2102070113 2202070013 2002070091 2002070144 2002070060 2002070062	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha
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Semilar   Semi	84 85 86 87 88 89 90 91 92	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan	2002070134 2103070003 2102070113 2202070013 2002070091 2002070144 2002070060 2002070120 2202061063	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi
98         Lawrence Linkan Sahoo         2002070037         NTPC         Angul           99         Lawrence Linkan Sahoo         2002070037         MCL         Angul           100         Sobhit Kumar Pradhan         2102070066         Hindustan aeronautics limited         Sunabeda koraput           101         ANUBHAV KHAMARI         2102090054         NALCO         Angul           102         SARBESWAR DASH         2203070005         DRDO         BALASORE           103         Aditya Tirkey         2102070109         Central tool and Training Centre         Bhubaneswar           104         Omkar Mandal         2102070108         CTTC         Bhubaneswar           105         Tushar Kant Soren         2102070108         CTTC         Bhubaneswar           106         SARBESWAR DASH         203070005         EAST COST RAILWAY         BHUBANESWAR           107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kflintech         Hyderabad           109         Rohit Kumar Patra         200207005         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         200207002         Indian	84 85 86 87 88 89 90 91 92 93	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Anarya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan	2002070134 2103070003 2102070113 2202070013 2002070091 2002070144 2002070062 2002070062 2002070120 2202061063 2202061063	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal
Survence Linkan Sahoo   202070037   MCL   Angul	84 85 86 87 88 89 90 91 92 93 94	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2002070132	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Offence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar
Name	84 85 86 87 88 89 90 91 92 93 94 95	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2002070132 2202070132 2202070037	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Offence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul
100	84 85 86 87 88 89 90 91 92 93 94 95 96	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2002070132 2202070037 2202070037	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar
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102         SARBESWAR DASH         2203070005         DRDO         BALASORE           103         Aditya Tirkey         2102070109         Central tool and Training Centre         Bhubaneswar           104         Omkar Mandal         2102070108         CTTC         Bhubaneswar           105         Tushar Kant Soren         2102070108         CTTC         Bhubaneswar           106         SARBESWAR DASH         2203070005         EAST COST RAILWAY         BHUBANESWAR           107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilal, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070019         Mar	84 85 86 87 88 89 90 91 92 93 94 95 96 97	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Offence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Angul
103	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037 2202070037 2202070037	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Angul Sunabeda koraput
104         Omkar Mandal         2102070075         MotionCut         Remote           105         Tushar Kant Soren         2102070108         CTTC         Bhubaneswar           106         SARBESWAR DASH         2203070005         EAST COST RAILWAY         BHUBANESWAR           107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070000         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         <	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2202070132 2202070037 2202070037 2202070037 2202070037 2202070037 2102070086 2102070086	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Offence Research and Development Organisation DRDO Oasis Infobyte Bharat Interm East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Angul Sunabeda koraput Angul
105         Tushar Kant Soren         2102070108         CTTC         Bhubaneswar           106         SARBESWAR DASH         2203070005         EAST COST RAILWAY         BHUBANESWAR           107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH	2002070134 2103070003 2102070113 2202070011 2002070091 2002070062 2002070120 2202061063 2202070132 2202070037 2202070037 2202070037 2202070037 2202070037 2202070037 2102070086 2102090054 2203070005	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO  DRDO DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Angul Sunabeda koraput Angul BALASORE
106         SARBESWAR DASH         203070005         EAST COST RAILWAY         BHUBANESWAR           107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey	2002070134 2103070003 2102070113 2202070013 2002070091 2002070060 2002070062 2002070120 2202061063 2202070132 2202070037 2202070037 2202070037 2202070037 2202070037 2102070086 2102090054 2203070052 210207019	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar
107         Ankita Rayaguru         2002020077         DRDO         Chandipur           108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR ,DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey	2002070134 2103070003 2102070113 2202070013 2002070091 2002070062 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037 2102070086 2102090054 2203070019 2102070199 210207019	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote
108         Krityeeprava Subhadarshini         2002070082         Kfintech         Hyderabad           109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR ,DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Cawrence Linkan Sahoo Mushar Mandan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren	2002070134 2103070003 2102070113 2202070013 2002070061 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037 2102070086 2102070109 2102070109	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar
109         Rohit Kumar Patra         2002070050         Central tool room and training centre         Bhubaneswar           110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda, koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Cawrence Linkan Sahoo Caw	2002070134 2103070003 2102070113 2202070013 2002070061 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2102070086 2102070109 2102070109 2102070109 2102070108	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR,DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar BHUBANESWAR
110         Sandeep Manohar padhi         2002070020         Indian railway, SAIL         Bhilai, Rourkela           111         Nikita mohanta         2103070008         ITR, DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda, koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Sores SARBESWAR DASH Ankita Rayaguru	2002070134 2103070003 2102070113 2202070013 2002070061 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070036 210207005 2102070199 2102070198 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2203070005 2102070108 2203070005	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar BHUBANESWAR Chandipur
111         Nikita mohanta         2103070008         ITR ,DRDO         Chandipur, balasore           112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Cawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Cawrence Linkan Sahoo Lawrence Linkan Sahoo Cawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini	2002070134 2103070003 2102070113 2202070013 2002070091 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070037 2102070062 2102070109 2102070109 2102070108 2202070037 210207005 2102070109 2102070108 2202070075 2102070108 2202070082	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar BHUBANESWAR Chandipur Hyderabad
112         Ruddhi Panigrahy         2002070019         PXE,DRDO         Chandipur           113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 100 101 102 103 104 105 106 107 108	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra	2002070134 2103070003 2102070113 2202070013 2002070091 2002070062 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070037 2102070062 2102070109 2102070109 2102070108 2203070005 2102070108 2203070005 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2102070108 2202070075 2002070082 20020707082	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar
113         Nikita mohanta         2103070008         HAL         Sunabeda , koraput           114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 100 101 102 103 104 105 106 107 108 109 110	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi	2002070134 2103070003 2102070113 2202070013 2002070091 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070037 2102070062 2102070109 2102070109 2102070108 2202070037 210207005 2102070108 220207005 2102070108 220207005 2202070082 20020707082 20020707082 20020707082	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar Remote Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar Bhilai, Rourkela
114         Ananya Anuska         2002070023         Marqueesemi India PVT LTD         Bhubaneswar           115         Ruddhi Panigrahy         2002070019         BSNL         Sambalpur           116         Abhisek Kumar         2002030129         Hindustan Aeronautics Limited         Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Tarrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta	2002070134 2103070003 2102070113 2202070013 2002070091 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070082 2102070109 2102070109 2102070108 2203070005 2102070108 2202070082 2002070082 2002070082 2002070082 2002070080	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR_DRDO ITR_DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR_DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar Bhilai, Rourkela Chandipur, balasore
115     Ruddhi Panigrahy     2002070019     BSNL     Sambalpur       116     Abhisek Kumar     2002030129     Hindustan Aeronautics Limited     Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 1111 1112	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta Ruddhi Panigrahy	2002070134 2103070003 2102070113 2202070013 2202070091 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070036 2102070050 2102070109 2102070108 2203070005 2102070108 2203070005 2102070108 2203070005 2202070082 2002070052 2002070050 20020707020 2103070008	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR_DRDO ITR_DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR_DRDO PXE_DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar BHUBANESWAR Chandipur Bhubaneswar Angul Chandipur Bhubaneswar Angul Bhubaneswar Bhilai, Rourkela Chandipur
116 Abhisek Kumar 2002030129 Hindustan Aeronautics Limited Sunabeda	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 1111 1112	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta Ruddhi Panigrahy	2002070134 2103070003 2102070113 2202070013 2202070091 2002070062 2002070120 2202061063 2202061063 2202070037 2202070037 2202070037 2202070036 2102070050 2102070109 2102070108 2203070005 2102070108 2203070005 2102070108 2203070005 2202070082 2002070052 2002070050 20020707020 2103070008	DRDO-ITR HAL BSNL_CTTC SAIL DRDO-PXE DRDO ITR_DRDO ITR_DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR_DRDO PXE_DRDO	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar BHUBANESWAR Chandipur Bhubaneswar Angul Chandipur Bhubaneswar Angul Bhubaneswar Bhilai, Rourkela Chandipur
	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 1111 1112 1113	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta Ruddhi Panigrahy Nikita mohanta	2002070134 2102070013 2102070113 2202070013 2202070091 2002070062 2002070120 2202061063 2202061063 2202070132 2202070037 2202070037 2202070036 210207005 2102070109 2102070108 2203070005 2102070108 220307005 2102070082 200207005 200207075 2002070082 2002070082 2002070092 2103070008	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO JITR,DRDO Defence Research and Development Organisation DRDO Casis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR,DRDO PXE,DRDO HAL	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar Bhilai, Rourkela Chandipur, balasore Chandipur Sunabeda , koraput
117 Arijit Prasad Sahoo 2002070004 IserveU Bhubaneswar	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 110 111 1112 1113 1114	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta Ruddhi Panigrahy Nikita mohanta Rudya Anuska	2002070134 2103070003 2102070113 2202070013 2002070061 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037 2102070052 2102070052 2102070052 2102070052 2102070052 2102070082 2002070052 2102070082 2002070052 2102070082 2002070052 2102070082 2002070052 2002070052 2002070052 2002070052 21030700082 2002070052 21030700082 2002070019 21030700082 2002070019	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Casis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR,DRDO PXE,DRDO HAL Marqueesemi India PVT LTD	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar Bhilai, Rourkela Chandipur, balasore Chandipur, balasore Chandipur Sunabeda , koraput Bhubaneswar
	84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 110 111 111 111 111 111 111	Sagar Ghosh S Mohit Amiya Ranjan Dharua Ayush pattnaik Tanmoy Mishra Ananya Jena ASHRITA NAYAK M Sambit Kumar Pratham Mishra Ishika Pradhan Ishika Pradhan Rahul Kumar Singh Lawrence Linkan Sahoo Lawrence Linkan Sahoo Lawrence Linkan Sahoo Sobhit Kumar Pradhan ANUBHAV KHAMARI SARBESWAR DASH Aditya Tirkey Omkar Mandal Tushar Kant Soren SARBESWAR DASH Ankita Rayaguru Krityeeprava Subhadarshini Rohit Kumar Patra Sandeep Manohar padhi Nikita mohanta Ruddhi Panigrahy Nikita mohanta Ananya Anuska Ruddhi Panigrahy	2002070134 2103070003 2102070113 2202070013 2002070061 2002070062 2002070120 2202061063 2202070037 2202070037 2202070037 2202070037 2202070037 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2102070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052 2002070052	DRDO-ITR HAL BSNL,CTTC SAIL DRDO-PXE DRDO ITR,DRDO Defence Research and Development Organisation DRDO Oasis Infobyte Bharat Intern East Coast Railway NALCO BSNL NTPC MCL Hindustan aeronautics limited NALCO DRDO Central tool and Training Centre MotionCut CTTC EAST COST RAILWAY DRDO Kfintech Central tool room and training centre Indian railway, SAIL ITR,DRDO PXE,DRDO HAL Marqueesemi India PVT LTD BSNL	Chandipur , odisha Sunabeda Bhubaneswar Rourkela Chandipur, Balasore. Chandipur Balasore BALASORE,ODISHA Balasore, Odisha Chandipur Odisha New Delhi Bhopal Bhubaneswar Angul Bhubaneswar Angul Sunabeda koraput Angul BALASORE Bhubaneswar Remote Bhubaneswar BHUBANESWAR Chandipur Hyderabad Bhubaneswar Bhilai, Rourkela Chandipur, balasore Chandipur, balasore Chandipur Sunabeda , koraput Bhubaneswar Bhilai, Rourkela Chandipur Sunabeda , koraput Bhubaneswar Bhubaneswar Bhilai, Rourkela Chandipur Sunabeda , koraput Bhubaneswar Sambalpur

118	Soumya Behera	2002070136	ITR ,DRDO	Chandipur,Balasore
119	Suraj Kumar Pal	2002070039	DRDO	Chandipur
120	Soumya Behera	2002070136	SAIL	Rourkela
121	Disha Swain	2002070143	Drdo	Chandipur
122	Soumya Swaroop Patro	2002100062	Tata Electronics Private Limited	Bangalore , Karnataka
123	Subhendu kumar sahoo	2002070055	DRDO	Balasore , Odisha
124	Kamal Kumar Sahu	2103070007	Eduskills	Bhubaneswar
125	Pradeep Kumar Das	2203070008	Industry Academia community	Mumbai, Maharashtra
126	Adyasha Nanda	2103070001	HAL	Koraput
127	Adyasha Nanda	2103070001	DRDO	Baleswar
128	Adyasha Nanda	2103070001	CISCO	Na
129	Britika Panigrahi	2103070013	Data Analytics (IBM Skillbuild)	Virtual
130	Sruti Garnayak	2102070106	CTTC	Bhubaneswar
131	Dibyans Meher	2203070010	Kodacy	Scientific Platforms And Cosmic Explorations (SPACE), Kerla, PIN-68663
132	Subhashree Bastia	2102070043	HAL	Koraput
133	Dibyans Meher	2203070010	Solana	268 Bush St #3131, San Francisco, United States
134	Dwarikanath Sahu	2002090129	Tata Electronics	Hosur
135	Gulshan Kumar Sahu	2102070126	HAL	Sunabeda
136	Sanskar Choudhury	2202070036	Central Tool Room and Training Centre (CTTC)	Bhubaneswar , Odisha
137	Sanskar Choudhury	2202070036	NALCO	Angul
138	Ritika Sathua	2202070087	Jsp	Angul
139	Akankshya Adishree Nayak	2002070084	DRDO, Chandipur	Chandipur, Balasore
140	Harsh Ranjan	2002070034	iServeU PVT. LTD.	Bhubaneswar, Odisha, India
141	Chinmaya Kumar Mohanty	2002070126	DRDO	Chandipur, Balasore
142	Sangram Jena	2103070006	DRDO	Balasore
143	SANJUKTA GIRI	2002070002	Iserveu	Bhubaneswar
144	Badal Kumar Sahoo	2202070006	Nalco	Angul
145	Adarsh Panda	2002020029	FLUX MEDIA PRIVATE LIMITED	Remote
146	Adarsh Panda	2002020029	Steel Authority of India Limited , RSP	Rourkela
147	Priyanka Routray	2202070081	сттс	Patia,Bhubaneswar
148	Subhashree Mohan Swain	2002070129	IserveU	Bhubaneswar

### Year 2022-23

S. No.	Full Name of Student	Roll No.	Name of Internship Organisation	Location	
1	Manas Kumar Dey	2102070041	Hal	Koraput sunabeda	
2	Monalisa Ray	2102070101	NIT ROURKELA	Rourkela	
3	Shatarupa panda	2102070006	Rttc,Bsnl	Bhbaneswar,odisha	
4	Priyanka Priyadarshinee	2203070007	SAIL	Rourkela steel plant (RSP)	
5	Pragya Pandey	2102070066	сттс	Bhubaneswar	
6	Shitikantha Nanda	2102070037	East Coast Railways, Sambalpur	Sambalpur	
7	Rashmi Ranjan Dishri	2102070001	IIIT ALLAHBAD	Allahabad	
8	Nandan Kumar Sethi	2102070127	Hindustan Aeronautics Ltd, Sunabedha	Sunabedha, Koraput	
9	Gopal jain	2002070093	CTTC, Bhubaneswar	Bhubaneswar	
10	SUDEEPTA KUMAR PATEL	2102070004	Internshala	Online	
11	Sonam Mishra	2102070120	East coast railway	Sambalpur	
12	Rudra Prasad Swain	2102070012	Coincent	Bengaluru, Karnataka	
13	SASHWATI MISHRA	2102110008	HINDUSTAN AERONAUTICS LIMITED (HAL)	Sunabeda, Odisha	
14	Tapas Kumar Behera	2102070099	Hindustan Aeronautics Limited	Sunabeda, Koraput	
15	ANSUMAN DAS	2002070032	Proof & Experimental Establishment (PXE), DRDO	CHANDIPUR, BALASORE	
16	Soumik parida	2102070022	BSNL	Kolkata	
17	Itishree Sahu	2102070073	ROURKELA STEEL PLANT, SAIL	ROURKELA, ODISHA	
18	Mirza Maheer Haque Baig	2203070011	Techgeering Solutions Private Limited	Bhubaneswar, Odisha	
19	SASHWATI MISHRA	2102110008	RAIL VIKAS NIGAM LIMITED(RVNL)	Bhubaneswar,Odisha	
20	Rohit Mishra	2002110016	Defence Research and Development Organisation	Chandipur, Balasore, Odisha	
21	Amiya Ranjan Boxi	2102070026	The Anantkaal	Surat, Gujrat	
22	Amiya Ranjan Boxi	2102070026	Graduate Us	Bhubneswar, Odisha	
23	Tapas Kumar Behera	2102070099	AICTE Edu Skills (supported by PaloAlto cybersecurity academy)	N/A	
24	Biswajit Sethi	2102070100	Palo Alto	Burla	
25	Pallabi Parimita Nayak	2102070046	SAIL, Rourkela Steel Plant, Rourkela, Odisha	Rourkela, Odisha	
26	Smruti Ashcharya Padhi	2102070065	Sail,Rourkela steel plant	Rourkela	
27	Mohit Kumar Dora	2102070025	Hindustan Aeronautics Limited	Sunabeda, Koraput	
28	Dwitee krushna chanda	2102070090	DRDO, chandipur	Balasore	
29	Soumendra Das	2202070056	Central Tool Room and Training centre	Bhubaneswar	
30	Aditya Tirkey	2102070109	Rourkela Steel Plant	Rourkela, Odisha	
31	Ankita Seth	2102070104	East Coast Railway	Bhubaneswar	
32	Nilanjan Mukherjee	2002070011	ITR - DRDO, Chandipur	Chandipur, Balasore	
33	Soumya Ranjan Maharana	2102070117	Rourkela Steel Plant	Rourkela , Odisha	
34	SUBHAM KUMAR SAHOO	2102070110	ROURKELA STEEL PLANT	ROURKELA, SUNDARGARH	
35	Swagat Acharya	2102070124	HAL	Koraput	
36	Bikram Keshari sahu	2102070082	В	Begetbiz	
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37	Diptimayee Satapathy	2102070087	HAL	Sunabeda , Koraput
38	Sanjeev Kumar Mahato	2002070127	Origin Tech	VSSUT,Burla
39	Prasoon Nayak	2002070017	RTTC	Bhubaneswar
40	Supriya Bhue	2102070115	NALCO	Nalco nagar, Angul, Odisha
41	Swostika Das Umakanta Meher	2002070095	DRDO  Paginnal Talanam Training Contra	Balasore Bhubaneswar
43	Pratik Bishi	2103070011	Regional Telecom Training Centre  Indian Institute of technology, madras	Chennai
44	Ranjit Panigrahi	2002070141	ITR, DRDO	Chandipur, Baleshwar
45	Akash Kumar Routray	2002070067	ITR Chandipur	Chandipur, Balasore
46	SWARAJ KUMAR SINGH	2002070146	MCL H.Q	Burla
47	Ranjit Panigrahi	2002070141	NIIT Foundation	New Delhi
48	Rohit Kumar	2102070018	SAIL	Rourkela
49	ALOK MISHRA	2102070056	ROURKELA STEEL PLANT	ROURKELA
50	Faizan Akram	2102050023	Rourkela Steel Plant	Rourkela
51 52	Asmi Jena Anwesha Meher	2002070080 2102070044	Defence Research and Development Organisation, DRDO  East Coast Railway	Chandipur,Balasore Sambalpur
53	Hanumantu Sudhir	2002070137	Indian railways	Sambalpur
54	Sambit Kumar Sahu	2102070036	Rourkela Steel Plant	Rourkela , Odisha
55	Chiranjibi Biswal	2102070016	Udemy	Online
56	Sudarsan Ghosi	2102070055	MCL	Burla, Sambalpur
57	Sulata Jena	2102070050	Indian Oil Corporation Limited	Paradeep , Odisha
58	Asit Sahoo	2102070053	Indian Rare Earths Limited (IREL)	Matilhalo, Berhempur, Odisha
59	Sagar Ghosh	2002070134	BSNL-ALTTC	Ghaziabad
60	Akankhya Nanda	2102070061	Indian Rare Earths Limited (IREL)	Matikhalo, Berhampur,Odisha
61	Allipsa Sethi	2002070109	Bharat Electronics Limited  NALCO	Bengaluru, Karnataka
63	S Mohit Bikash Mahapatra	2103070003 2203070001	CTTC	Damanjodi Bhubaneswar, Odisha
64	Ananya Jena	2002070144	East Coast Railway	Bhubaneswar
65	Aparna Routray	2002070149	BEL	Banglore
66	Ananya Jena	2002070144	DRDO	Chandipur Balasore
67	Tanisha Mohanta	2002070139	Defence Research and Development Organisation	Dehradun
68	Saswati Mishra	2102070010	RTTC, BSNL, BHUBANESWAR	BHUBANESWAR
69	Pratham Mishra	2002070120	Hindustan Aeronautics Limited	Koraput Odisha
70	Susmita Thatei	2203070006	Steel Authority of India Limited, Rourkela	Rourkela, sundargarh
71	Dibya Jyoti sahoo	2102070121	Coursera	Virtual
72	Rahul Kumar Singh	2002070132	Hindustan Aeronautics Limited	Sunabeda, Koraput
73 74	Kishan panda Subhranshu Pradhan	2002070128	Jp morgan ITR.DRDO	Hydrabad  DRDO, Chandipur
75	Asharani Patra	2102070081	Hindustan Aeronautics Limited	Sunabedha, Koraput
76	Kirti Kausik Mishra	2002070024	Indian railways	East coast railway sambalpur
77	Ankita Swain	2102070059	Rourkela Steel Plant	Rourkela
78	SARBESWAR DASH	2203070005	IREL	IREL
79	Omkar Mandal	2102070075	Coincent	Remote
80	Gagan Kumar Pradhan	2002070077	ITR,DRDO	Chandipur
81	Meenakshi Murmu	2002070112	ALTTC, BSNL	Bhubaneswar
82	Prativa Bara	1802070111	SAIL	Rourkela
83	Nikita mohanta Biswas Kumar Nayak	2103070008 2002070104	Southern eastern railway  Indian Railways	Jamshedpur Khordha,Odisha
85	Snehashish Hati	2002070104	Nalco , Damanjodi	Damanjodi , koraput
86	Rohit Kumar Patra	2002070050	RTTC	Bhubaneswar
87	Snehashish Hati	2002070043	IIRS,DEHRADUN	Dehradun
88	Prativa Bara	1802070111	Skill Development on telecom testing	New Delhi
89	Ruddhi Panigrahy	2002070019	Railway	Sambalpur
90	Soumyakant Pati	2002070123	ITR, DRDO	Chandipur, Balasore
91	Siddhi Panigrahy	2002070006	PXE,DRDO	Chandipur
92	Siddhi Panigrahy	2002070006	BSNL Jindal	Sambalpur
93	Soumya Behera  Disha Swain	2002070136 2002070143	Jindai Hindustan Aeronautics limited	Angul Sunabeda
95	Disha Swain	2002070143	Vodafone idea limited	Bhubaneswar
96	Aman Raj Singh	2002070131	Rourkela Steel Plant(SAIL)	Rourkela
97	Deepshikha Mahapatra	2002070086	Vodafone Idea	Mumbai
98	Deepshikha Mahapatra	200207086	DRDO	Chandipur
99	Arpita Maheswari Singh	2102070102	NALCO, Angul	Angul
100	Prachi Priya Sahu	2102070103	SAIL	Rourkela
101	Sruti Garnayak	2102070106	Nalco	Angul
102	Arpita Maheswari Singh	2102070102	Skolar	Bengaluru
103	Sruti Garnayak Biswas Kumar Nayak	2102070106 2002070104	MCL Origin Tech	Talcher, Angul Online
104	Sujit Vishwakarma	2002070104	Graduate Us	Bhubaneswar
106	Abantika Mohanty	2002070075	E.Co.Rly	Khurda Road
107	Manas Ranjan Sahu	2002070049	NALCO	Damnjodi
108	RONAK MALLICK	2002070151	Indian Railways(East Coast Railways)	Khordha

109	Akankshya Adishree Nayak	2002070084	HAL, Sunabeda	Sunabeda
110	Akankshya Adishree Nayak	2002070084	Viral fission	Mumbai
111	T ACHYUTA PATRO	2303070003	ICSOFT	Bangalore
112	Chinmaya Kumar Mohanty	2002070126	BSNL	Bhubaneswar
113	Biswajit Sahoo	2002070044	The Sparks Foundation	Singapore
114	Bishwam Agrawal	2002070048	DRDO	Chandipur
115	Sivam Sahu	2002070046	OHPC	Burla
116	Chandan Konhar	2002070113	DRDO	Chandipur
117	Swastik Kumar Majhi	2102070092	Indian Railways	Sambalpur
118	KALPANA PANIGRAHI	2002070035	Tata Steel	Jamshedpur

### Year 2021-22

S. No.	Full Name of Student	Roll No.	Name of Internship Organisation	Location
1	Rohit Mishra	2002110016	Rourkela Steel Plant	Rourkela, Odisha
2	Nilanjan Mukherjee	2002070011	IIIT Allahabad	Prayagraj, UP
3	Sohana Khatun	2002020068	NTPC	Bilaspur Chhattisgarh
4	Deepak sunar	2002070100	SAIL , RSP	Rourkela
5	Akash Kumar Routray	2002070067	Indian Institute of Information Technology	Prayagraj
6	Ranjit Panigrahi	2002070141	RTTC, BSNL	Vani Vihar, Bhubaneswar
7	Allipsa Sethi	2002070109	ITR- DRDO	Chandipur, Odisha
8	Tanisha Mohanta	2002070139	Oil and Natural Gas Corporation (ONGC)	Dehradun
9	Ananya Jena	2002070144	East Coast Railway	Bhubaneswar
10	Ananya Jena	2002070144	RTTC BSNL	Bhubaneswar
11	Soumyakan t Pati	2002070123	HAL	Sunabeda
12	Siddhi Panigrahy	2002070006	Indian Railways	Sambalpur
13	RONAK MALLICK	2002070151	Hindustan Aeronautics Limited	Sunabeda, Koraput
14	Abantika Mohanty	2002070145	HAL, Sunabeda	Sunabeda
15	Akankshya Adishree Nayak	2002070084	Youth India foundation, Burla	Online
16	Akankshya Adishree Nayak	2002070084	Viral Fission	Mumbai,maharashtra
17	Nikhil Dang	2002070105	HAL, Koraput	KORAPUT, ODISHA

## Year 2020-21

S. No.	Full Name of Student	Roll No.	Name of Internship Organisation	Location
1	Allipsa Sethi	2002070109	Samagrah foundation	Internshala
2	Subhasis Gouda	2002070008	Tata steel Utilities and Infrastructure Services Limited	Jajpur road
3	Subhasis Gouda	2002070008	Rttc BSNL	Bhubaneswar
4	Abhisek Kumar	2002030129	Hindustan Aeronautics Limited	Sunabeda

## 3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Total Marks 175.00

Define the Program specific outcomes

PSO1	Apply the knowledge of electronic circuits, analog and digital communication, wireless communication, radar engineering and antenna systems to solve complex engineering problems in the discipline of Electronics and Telecommunication Engineering
PSO2	Develop suitable techniques and cutting-edge engineering hardware and software tools in Electronics and Telecommunication Engineering to solve practical problems.
PSO3	Aware of the impact of professional Electronics and Telecommunication Engineering solutions on social, economic, environmental and technological sustainability.

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

Total Marks 25.00

Institute Marks : 25.00

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

Course Name :		C2 01	Course Year :	2020-2021
Course Name	Statements			
Course Name		erent types of signals.		
C2 01.1		nd represent continuous and discrete time syst	ems	
C2 01.3		ne systems in time and frequency domain using		
C2 01.4		CTFT for different signals.	, rounds contoc.	
C2 01.5		TFT of different signals.		
	•	<u> </u>		
Course Name :		C2 02	Course Year :	2020-2021
Course Name	Statements			
C2 02.1		damentals of digital electronics logic circuits	VIDENIIV Decedes Feeder	
C2 02.2 C2 02.3		alyses modular combinational circuits with MUX	X/DEMOX, Decoder, Encoder	
C2 02.3		alyses synchronous sequential logic circuits memory decoding and implementation of funct	ion using Programmable Logic Devic	oc (PLDs)
G2 02.4 G2 02.5		appropriate EDA tools for digital logic design ar		es (TEDS).
G2 02.3	OSE TIDE & 8	appropriate LDA tools for digital logic design at	id Simulation	
Course Name :		C2 03	Course Year :	2020-2021
Course Name	Statements			
C2 03.1	Understand	basic concepts of a communication system		
C2 03.2	Understand	the analysis of baseband and passband signal	s in time domain and in the frequenc	y domain
C2 03.3		erstanding of various analog and digital modul		
C2 03.4	-	performance of receiver under transmission the		
C2 03.5	Understand	the application of concepts in modern wireless	communication systems	
Course Name :		C3 01	Course Year :	2021-2022
Course Name	Statements			
C3 01.1		nd solve basic binary math operations using the		croprocessor's and Microcontroller's internal architecture and its
C3 01.2				ta transfer instructions of the target microprocessor and microcontroller
C3 01.2				1086) and Microcontroller to meet specified performance requirements
C3 01.4				nbler utility of a microprocessor and microcontroller
C3 01.5		the electrical circuitry to the Microprocessor I/		
00 01.0	Domonoutate	The distinct should be the innerspectation in	o porto in ordor to interidoo trio proc	0000110 0000111111111111111111111111111
Course Name :		C3 02	Course Year :	2021-2022
Oarras Nama	C4-4			
Course Name	Statements	signals and systems		
C3 02.1		signals and systems.		
C3 02.2 C3 02.3		tal systems in time and frequency domain		
C3 02.3		m characterization through DFT and FFT.  and implementation of digital filters and systems		
C3 02.4 C3 02.5			5.	
C3 02.5	Officestatio s	ignal spectral estimation methods.		
Course Name :		C3 03	Course Year :	2021-2022
Course Name	Statements			
C3 03.1	Express the	design of rectangular and cylindrical waveguid	es at high frequency.	
C3 03.2	Analyze scat	ttering parameter and functioning of different m	icrowave components.	
C3 03.3	Apply basic	principles of high frequency microwave circuits	like filters and amplifiers.	
C3 03.4	Analyze deta	ail working of various microwave sources.		
C3 03.5	Demonstrate	e microwave propagation in atmospheric conditi	on.	
Course Name :		C4 01	Course Year :	2022-2023
Course Name	Statements			
C4 01.1	Demonstrate	the concept of radiation through mathematica	I formulation.	
C4 01.2	Evaluate per	formance characteristics of array antennas		
C4 01.3	Implement d	ifferent modes of radio wave propagation		
C4 01.4	Analyze and	design of microstrip patch antenna.		
C4 01.5	Apply basic	principles microwave propagation in atmospher	ric condition.	
Course Name :		C4 02	Course Vear	2022-2023
Course Name :		U4 U2	Course Year :	2022-2029

C4 02.2	Familiar with data link layer protocols with framing, flow control and error detection techniques along with wireless LAN, V-LAN and multiple access concepts
C4 02.3	Implement the basic IP protocols and building the skills of subnetting and routing mechanisms
C4 02.4	Express the transport layer protocols and how they can be used to assist in network design and implementation.
C4 02.5	Analyze the application layer protocols – DNS, Remote Logging (Telnet), SMTP, FTP, WWW, HTTP and SNMP.

Course Articulation Matrix

### 1 . course name : C201

Statements	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
Analyze diff	3	~	3	~	3	~	3	~	-	~	-	~	2	~	-	~	-	~	-	~	3	~	3	~
Implement :	3	~	3	~	3	~	3	~	2	~	-	~	3	~	-	~	-	~	-	~	3	~	3	~
Implement :	3	~	3	~	3	~	3	~	2	~	-	~	3	~	-	~	-	~	-	~	3	~	3	~
Analyze the	3	~	3	~	3	~	3	~	3	~	-	~	3	~	-	~	-	~	-	~	3	~	3	~
Implement	3	~	3	~	2	v	3	~	3	~	-	~	3	~	-	~	-	~	-	~	3	~	3	~
	3.00		3.00		3.00		3.00		2.00		0.00		3.00		0.00		0.00		0.00		3.00		3.00	
	Analyze diff Implement : Implement : Analyze the	Implement: 3 Implement: 3 Analyze the 3 Implement: 3	Analyze diff 3 v Implement: 3 v Implement: 3 v Analyze the 3 v Implement: 3 v	Analyze diff 3	Analyze diff         3         v         3         v         3         v           Implement:         3         v         3         v         3         v           Implement:         3         v         3         v         3         v           Analyze the         3         v         3         v         3         v           Implement:         3         v         3         v         2         v         3         v	Analyze diff 3	Analyze diff 3	Analyze diff 3	Analyze diff         3         V         3         V         3         V         -         V           Implement:         3         V         3         V         3         V         2         V         -         V           Implement:         3         V         3         V         3         V         2         V         -         V           Implement:         3         V         3         V         3         V         3         V         3         V         -         V	Analyze diff 3														

### 2 . course name : C202

Course	Statements	PO1		PO2		PO3		PO4		PO5		P06		P07		PO8		PO9		PO10		PO11		PO12	
C202.1	Analyze fur	3	~	3	~	2	~	2	~	3	~	2	~	3	~	-	~	3	~	3	~	2	~	3	~
C202.2	Design & aı	3	~	3	~	3	~	3	~	3	~	2	~	3	~	2	~	3	~	3	~	3	~	3	~
C202.3	Design & aı	3	~	3	~	3	~	3	~	3	~	2	~	3	~	2	~	3	~	3	~	3	~	3	~
C202.4	Understand	3	~	3	~	3	~	3	~	3	~	3	~	3	~	1	~	3	~	3	~	3	~	2	~
C202.5	Use HDL &	3	~	3	~	3	~	3	~	3	~	3	~	3	~	3	~	3	~	3	~	3	~	1	~
Average		3.00		3.00		3.00		3.00		3.00		2.00		3.00		2.00		3.00		3.00		3.00		2.00	

### 3 . course name : C203

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C203.1	Understand	3	~	3	~	2	~	2	~	2	~	2	~	3	~	2	~	2	~	2	v	2	~	2	~
C203.2	Understand	3	~	3	~	3	~	2	~	3	~	2	~	3	~	3	~	2	~	3	~	3	~	2	~
C203.3	Develop un	3	~	3	~	3	~	2	~	3	~	3	~	3	~	2	~	3	~	3	~	3	~	2	~
C203.4	Analyze the	3	~	3	~	2	~	3	~	3	~	3	~	3	~	2	~	2	~	3	~	3	~	2	~
C203.5	Understand	3	~	3	~	2	~	3	~	3	~	2	~	2	~	2	~	2	~	3	~	3	~	2	~
Average		3.00		3.00		2.00		2.00		3.00		2.00		3.00		2.00		2.00		3.00		3.00		2.00	

### 4 . course name : C301

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C301.1	Implement:	3	~	3	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	3	~
C301.2	Analyze an	3	~	3	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	3	~
C301.3	Evaluate the	3	~	3	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	3	~
C301.4	Analyze as:	3	~	3	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	3	~
C301.5	Demonstrat	3	~	3	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	3	~
Average		3.00		3.00		3.00		2.00		2.00		2.00		0.00		0.00		0.00		0.00		0.00		3.00	

### 5 . course name : C302

Course	Statements	PO1		PO2		РО3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C302.1	Characteriz	3	~	3	~	2	~	2	~	2	~	2	~	1	~	-	~	-	~	2	<b>v</b>	1	~	3	~
C302.2	Analyze dig	3	~	3	~	3	~	2	~	2	~	2	~	2	~	-	~	-	~	1	~	2	~	3	~
C302.3	Digital syste	3	~	3	~	3	~	2	~	3	~	1	~	2	~	-	~	-	~	2	<b>v</b>	2	~	3	~
C302.4	Realization	3	~	3	~	3	~	3	~	3	~	1	~	2	~	-	~	-	~	2	~	2	~	3	~
C302.5	Undestand	3	~	3	~	2	~	3	~	3	~	2	~	2	~	-	~	-	~	3	~	2	~	3	~
Average		3.00		3.00		3.00		2.00		3.00		2.00		2.00		0.00		0.00		2.00		2.00		3.00	

## 6 . course name : C303

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C303.1	Express the	2	~	3	~	3	~	3	~	3	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C303.2	Analyze sca	2	~	3	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C303.3	Apply basic	3	~	2	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C303.4	Analyze del	3	~	3	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C303.5	Demonstrat	2	~	2	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
Average		2.00		3.00		3.00		3.00		2.00		3.00		3.00		0.00		0.00		0.00		0.00		3.00	

### 7 . course name : C401

Course	Statements	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C401.1	Demonstrat	3	~	3	~	3	~	3	~	3	~	3	~	2	~	-	~	-	~	-	~	-	~	2	~
C401.2	Evaluate pe	3	~	3	~	3	~	3	~	3	~	3	~	2	~	-	~	-	~	-	~	-	~	2	~
C401.3	Implement	3	~	3	~	3	~	3	~	2	~	3	~	2	~	-	~	-	~	-	~	-	~	2	~
C401.4	Analyze anı	3	~	3	~	3	~	2	~	2	~	3	~	2	~	-	~	-	~	-	~	-	~	2	~
C401.5	Apply basic	3	~	3	~	3	~	2	~	1	~	3	~	1	~	-	~	-	~	-	~	-	~	2	~
Average		3.00		3.00		3.00		3.00		2.00		3.00		2.00		0.00		0.00		0.00		0.00		2.00	

8 . course name : C402

Course	Statements	PO1	ŀ	PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C402.1	Understand	2 ~		3	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C402.2	Familiar wit	3 ~		2	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C402.3	Implement 1	3 ~		3	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C402.4	Express th∈	2 🗸		2	~	3	~	3	~	2	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
C402.5	Analyze the	2 🗸		3	~	3	~	3	~	3	~	3	~	3	~	-	~	-	~	-	~	-	~	3	~
Average		2.00	:	3.00		3.00		3.00		2.00		3.00		3.00		0.00		0.00		0.00		0.00		3.00	

### 1 . Course Name : C201

PSO1		PSO2		PSO3	
3	~	3	~	3	~
3	~	3	~	3	~
3	~	3	~	3	~
3	~	3	~	3	~
3	~	3	~	3	~
3.00		3.00		3.00	
	3 3 3 3	3	3	3	3

### 2 . Course Name : C202

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

### 3 . Course Name : C203

Course	PSO1		PSO2		PSO3	
C203.1	2	~	2	~	2	~
C203.2	3	~	3	~	3	~
C203.3	3	~	2	~	3	~
C203.4	3	~	2	~	3	~
C203.5	3	~	2	~	3	~
Average	3.00		2.00		3.00	

### 4 . Course Name : C301

Course	PSO1		PSO2		PSO3	
C301.1	3	~	3	~	2	~
C301.2	3	~	3	~	2	~
C301.3	3	~	3	~	2	~
C301.4	3	~	3	~	3	~
C301.5	3	~	3	~	3	~
Average	3.00		3.00		2.00	

### 5 . Course Name : C302

Course	PSO	1	PSO	2	PSO3	
C302.1	3	~	3	~	1	~
C302.2	3	~	3	~	1	~
C302.3	3	~	3	~	3	~
C302.4	3	~	3	~	2	~
C302.5	3	~	3	~	2	~
Average	3.00		3.00		2.00	

## 6 . Course Name : C303

Course	PSO1		PSO2		PSO3	
C303.1	2	~	3	~	3	~
C303.2	-	~	-	~	2	~
C303.3	3	~	-	~	2	~
C303.4	2	~	2	~	2	~
C303.5	3	~	-	~	-	~
Average	3.00		3.00		2.00	

### 7 . Course Name : C401

Course	PSO1		PSO2	!	PSO3	
C401.1	3	~	3	~	2	~
C401.2	3	~	3	~	1	~
C401.3	3	~	2	~	1	~
C401.4	3	~	3	~	3	~
C401.5	3	~	3	~	3	~
Average	3.00		3.00		2.00	

8 . Course Name : C402

Course	PSO1		PSO2		PS	SO3	
C402.1	2	~	3	~	3		~
C402.2	3	~	2	~	3		~
C402.3	3	~	3	~	3		~
C402.4	2	~	2	~	3		~
C402.5	2	~	3	~	3		~
Average	2.00		3.00		3.0	00	
			0.00		0.,	-	_

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
BMA2101	3	3	2	2	2	3	PO7	PO8	PO9	PO10	2	3
BCH2101	3	3	2	PO4	PO5	PO6	3	PO8	PO9	2	2	3
BEC2101	3	2	3	3	3	PO6	PO7	PO8	PO9	PO10	3	3
BCE2102	3	2	2	2	2	2	3	PO8	2	2	2	3
BCS2102	3	3	3	3	2	PO6	PO7	PO8	2	PO10	PO11	3
BCH2191	3	1	2	PO4	2	PO6	3	PO8	2	PO10	2	PO12
BEC2191	3	2	2	3	3	PO6	PO7	PO8	PO9	PO10	3	3
BCE2192	3	2	2	2	1	3	3	PO8	2	2	2	3
BCS2191	3	3	3	3	2	3	PO7	2	3	PO10	PO11	3
BMA2201	3	3	2	2	1	3	3	PO8	PO9	PO10	1	3
BPH2102	3	3	3	2	1	PO6	PO7	PO8	PO9	2	PO11	2
BEE2101	3	3	2	3	3	2	3	PO8	PO9	PO10	3	3
BHU2102	PO1	PO2	PO3	2	PO5	2	2	PO8	2	3	PO11	PO12
BME2101	3	3	2	3	3	PO6	PO7	PO8	3	2	PO11	2
BPH2191	3	3	2	1	3	2	3	3	3	3	1	2
BEE2191	3	3	2	3	3	2	2	2	3	3	3	3
BME2192	PO1	PO2	1	2	2	2	2	2	3	2	2	3
BHU2191	PO1	PO2	PO3	PO4	PO5	3	2	PO8	2	3	PO11	PO12
BMA2301	3	3	2	2	3	3	1	PO8	PO9	PO10	2	3
BEC2307	3	3	3	3	2	3	2	2	3	PO10	3	3
BEC2305	3	3	3	3	2	2	2	PO8	PO9	PO10	3	3
BEC2306	3	3	3	3	2	PO6	3	PO8	PO9	PO10	3	3
BHU2303	PO1	PO2	PO3	PO4	PO5	2	2	3	2	PO10	3	2
BEC2391	3	3	3	3	3	2	2	PO8	PO9	PO10	PO11	3
BEC2396	3	3	3	2	3	2	3	2	3	PO10	PO11	3
BEC2395	3	3	3	2	3	PO6	3	PO8	PO9	PO10	PO11	3
BEC2393	3	2	3	3	3	3	3	PO8	PO9	PO10	PO11	2
BEC2409	3	3	3	3	3	2	3	2	3	3	3	2
BEC2407	3	3	3	3	3	2	3	2	3	3	3	3
BEC2406	3	3	2	2	3	2	3	2	2	3	3	2
BEC2408	3	3	3	2	3	PO6	3	3	3	2	PO11	3
BHU2301	PO1	PO2	PO3	PO4	PO5	2	2	3	2	PO10	3	2
BEC2494	3	3	3	3	3	2	3	3	3	3	3	2
BEC2498	3	3	3	3	3	2	3	2	3	3	3	3
BEC2496	3	3	3	3	3	2	3	3	3	3	3	3
BEC2499	3	3	2	3	3	2	3	2	2	2	3	2
BEC2507	3	3	3	2	3	2	PO7	PO8	PO9	PO10	PO11	3
BEC2506	3	3	2	3	3	3	3	PO8	PO9	PO10	3	3
BEC2503	3	3	3	2	3	2	2	PO8	PO9	2	3	3
BEC2509	3	3	2	3	3	2	1	PO8	PO9	PO10	PO11	1
BEC2593	3	0										
BEC2595	_	3	2	2	3	3	2	PO8	PO9	2	3	3
BEC2596	3	3	3	2	2	2	2 PO7	PO8	PO9	2 PO10		3
	3										3	
BEC2603		3	3	2	2	2	PO7	PO8	PO9	PO10	3 PO11	3
BEC2603 BEC2606	3	3	3	2	2	2	PO7 3	PO8	PO9	PO10 PO10	3 PO11 3	3
	3	3 3 3	3 2 3	3 3	2 2 2	2 3 3	PO7 3 3	PO8 PO8 PO8	PO9 PO9	PO10 PO10 PO10	3 PO11 3 PO11	3 2 3
BEC2606	3 2 2	3 3 3	3 2 3 3	2 3 3 3	2 2 2 2	2 3 3 3	PO7 3 3 3	PO8 PO8 PO8 PO8	PO9 PO9 PO9	PO10 PO10 PO10 PO10	3 PO11 3 PO11 PO11	3 2 3 3
BEC2606 BEC2607	3 2 2 3	3 3 3 3	3 2 3 3	2 3 3 3 2	2 2 2 2	2 3 3 3 2	PO7 3 3 3 PO7	PO8 PO8 PO8 PO8 PO8	PO9 PO9 PO9 PO9	PO10 PO10 PO10 PO10 PO10	3 P011 3 P011 P011 P011	3 2 3 3
BEC2606 BEC2607 BHU2501 BEC2604	3 2 2 3 PO1 3	3 3 3 3 3 PO2 3	3 2 3 3 2 2 2	2 3 3 3 2 PO4 2	2 2 2 2 2 2 PO5 3	2 3 3 3 2 3 2	PO7 3 3 3 PO7 2 3	PO8 PO8 PO8 PO8 PO8 PO8 PO8 PO8	PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011	3 2 3 3 2 3 2
BEC2606 BEC2607 BHU2501	3 2 2 2 3 PO1	3 3 3 3 3 PO2	3 2 3 3 2 2	2 3 3 3 2 PO4	2 2 2 2 2 2 PO5	2 3 3 3 2 3	PO7 3 3 3 PO7 2	PO8 PO8 PO8 PO8 PO8 3	PO9 PO9 PO9 PO9 PO9 2	P010 P010 P010 P010 P010 P010 P010	3 PO11 3 PO11 PO11 PO11	3 2 3 3 2 3
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695	3 2 2 3 PO1 3 2	3 3 3 3 3 PO2 3 3	3 2 3 3 2 2 2 3 3 3	2 3 3 3 2 PO4 2 3 3	2 2 2 2 2 2 PO5 3 2	2 3 3 3 2 3 2 3 2 3	PO7 3 3 3 PO7 2 3 3 2	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 3 2 2 2 2
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695 BEC2691	3 2 2 3 PO1 3 2 2	3 3 3 3 3 PO2 3 3 2	3 2 3 3 2 2 2 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3	2 2 2 2 2 2 PO5 3 2 2	2 3 3 3 2 3 2 3 2 3 3 2 2	PO7 3 3 3 PO7 2 3 3 2 2	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 2 3 2 2 2 2 2 2
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709	3 2 2 3 PO1 3 2 2 2 3 3 3 3	3 3 3 3 3 PO2 3 3 2 3	3 2 3 3 2 2 2 3 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3 3	2 2 2 2 2 2 POS 3 2 2 3	2 3 3 3 2 3 2 3 2 3 3 2 3 3 2 3	PO7 3 3 3 PO7 2 3 3 2 2 2	PO8	PO9	PO10 PO10 PO10 PO10 PO10 PO10 PO10 PO10	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 3 2 2 2 2 2 2 2 2 2 2
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695 BEC2709 BEC2709	3 2 2 3 PO1 3 2 2 2 3 3 3 2 2	3 3 3 3 3 PO2 3 3 2 3 3	3 2 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3 3 3	2 2 2 2 2 2 PO5 3 2 2 2 3 2	2 3 3 3 2 3 2 3 2 3 3 2 3 3 2 3 3	PO7 3 3 3 PO7 2 3 3 2 2 2 3	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 2 2 2 2 2 2 3 3
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695 BEC2709 BEC2702 BEC2705	3 2 2 3 PO1 3 2 2 3 3 3 2 2 3 3	3 3 3 3 3 PO2 3 3 2 3 3 3	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3 3 3 3	2 2 2 2 2 2 PO5 3 2 2 2 3 2 2	2 3 3 3 2 3 2 3 3 2 3 3 2 3 3 3 3	PO7 3 3 3 PO7 2 3 3 2 2 2 3 2	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 2 2 2 2 2 3 3 2 2
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2695 BEC2709 BEC2702 BEC2708	3 2 2 3 3 3 2 3 3 3 3 3 3	3 3 3 3 3 PO2 3 3 2 3 3 3 3 3	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3 3 3 3 3	2 2 2 2 2 2 PO5 3 2 2 2 3 2 2 3	2 3 3 3 2 3 2 3 3 2 3 3 2 3 3 3 3 3 3 3	PO7 3 3 3 PO7 2 3 3 2 2 2 2 2 2	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 2 2 2 2 2 3 3 2 2 3 3 3 3 3 3
BEC2606 BEC2607 BHU2501 BEC2604 BEC2693 BEC2691 BEC2709 BEC2702 BEC2702 BEC2708 BEC2708 BEC2793	3 2 2 3 3 2 2 3 3 3 3 3 3 3 3	3 3 3 3 3 PO2 3 3 2 3 3 3 3 2 2 3	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 2 PO4 2 3 3 3 3 3 3 3 3	2 2 2 2 2 2 PO5 3 2 2 2 3 2 2 3 3 3	2 3 3 3 2 3 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3	PO7 3 3 3 PO7 2 3 3 2 2 2 2 2 2 2	PO8	PO9	P010 P010 P010 P010 P010 P010 P010 P010	3 P011 3 P011 P011 P011 P011 P011 P011 P	3 2 3 3 2 2 2 2 2 2 3 3 2 2 3 3 3 3 3 3
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Course	PSO1	PSO2	PSO3
BCE2102	PSO1	PSO2	PSO3
BCE2192	PSO1	PSO2	PSO3

No.Holl OSCANDA OS			ı	
Bookers         Pool 1         Pool 2         Pool 3	BCH2101	PSO1	PSO2	PSO3
Bods         PROD         PROD           Bods         3         3	BCH2191	PSO1	PSO2	PSO3
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BEC2795       3       3       2         BEC2807       3       3       2         BEC2808       3       3       2         BEC2809       3       2       2         BEC2894       3       3       3         BEC2895       3       3       3         BEC2896       3       3       3         BEC2897       2       PSO3         BHU2102       PSO1       PSO2       PSO3         BHU2191       PSO1       PSO2       PSO3         BHU2301       PSO1       PSO2       2         BHU2303       PSO1       PSO2       2         BMA2101       2       2       2         BMA2201       2       2       2         BMA2301       2       2       2         BME2192       PSO1       PSO2       PSO3         BME2192       PSO1       PSO2       PSO3         BPH2101       2       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2793	2	2	1
BEC2807       3       3       2         BEC2808       3       3       2         BEC2809       3       2       2         BEC2894       3       3       3         BEC2895       3       3       3         BEC2101       2       PSO2       PSO3         BHU2102       PSO1       PSO2       PSO3         BHU2191       PSO1       PSO2       PSO3         BHU2301       PSO1       PSO2       2         BHU2303       PSO1       PSO2       2         BMA2101       2       2       2         BMA2201       2       2       2         BME2101       2       2       2         BME2101       2       PSO2       PSO3         BPH2101       2       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2794	3	3	3
BEC2808       3       2         BEC2809       3       2         BEC2894       3       3         BEC2895       3       3         BEC2896       3       3         BEE2101       2       PSO2         BHU2102       PSO1       PSO2         BHU2191       PSO1       PSO2         BHU2301       PSO1       PSO2         BHU2303       PSO1       PSO2         BHU2303       PSO1       PSO2         BMA2101       2       2         BMA2201       2       2         BMA2301       2       2         BME2101       2       PSO2         BME2192       PSO1       PSO2       PSO3         BME2192       PSO1       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2795	3	3	3
BEC2809       3       2       2         BEC2894       3       3       3         BEC2895       3       3       3         BEC2896       3       3       3         BEC2895       3       3       3         BEC2809       3       3       3         BEC2809       3       3       3         BEC2809       3       3       3         BEC2809       9       9       3         BHU2101       PSO1       PSO2       PSO3         BHU2101       2       2       2         BMA2201       2       2       2         BME2101       2       2       2         BME2101       2       PSO2       PSO3         BME2192       PSO1       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2807	3	3	2
BEC2894       3       3       3         BEC2895       3       3       3         BEE2101       2       PSO2       PSO3         BHU2102       PSO1       PSO2       PSO3         BHU2191       PSO1       PSO2       PSO3         BHU2301       PSO1       PSO2       2         BHU2303       PSO1       PSO2       2         BMA2101       2       2       2         BMA2201       2       2       2         BMA2301       2       2       2         BME2101       2       PSO2       PSO3         BME2192       PSO1       PSO2       PSO3         BPH2101       2       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2808	3	3	2
BEC2895       3       3       3         BEE2101       2       PSO2       PSO3         BHU2102       PSO1       PSO2       PSO3         BHU2191       PSO1       PSO2       PSO3         BHU2301       PSO1       PSO2       2         BHU2303       PSO1       PSO2       2         BMA2101       2       2       2         BMA2201       2       2       2         BMA2301       2       2       2         BME2101       2       PSO2       PSO3         BME2192       PSO1       PSO2       PSO3         BPH2101       2       PSO2       PSO3         BPH2101       2       PSO2       PSO3	BEC2809	3	2	2
BEE2101         2         PSO2         PSO3           BHU2102         PSO1         PSO2         PSO3           BHU2191         PSO1         PSO2         PSO3           BHU2301         PSO1         PSO2         2           BHU2303         PSO1         PSO2         2           BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3	BEC2894	3	3	3
BHU2102         PSO1         PSO2         PSO3           BHU2191         PSO1         PSO2         PSO3           BHU2301         PSO1         PSO2         2           BHU2303         PSO1         PSO2         2           BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3	BEC2895	3	3	3
BHU2191         PSO1         PSO2         PSO3           BHU2301         PSO1         PSO2         2           BHU2303         PSO1         PSO2         2           BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3           BPH2101         2         PSO2         PSO3	BEE2101	2	PSO2	PSO3
BHU2191         PSO1         PSO2         PSO3           BHU2301         PSO1         PSO2         2           BHU2303         PSO1         PSO2         2           BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3           BPH2101         2         PSO2         PSO3	BHU2102	PSO1	PSO2	PSO3
BHU2301         PSO1         PSO2         2           BHU2303         PSO1         PSO2         2           BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3	BHU2191	PSO1	PSO2	PSO3
BHU2303     PSO1     PSO2     2       BMA2101     2     2     2       BMA2201     2     2     2       BMA2301     2     2     2       BME2101     2     PSO2     PSO3       BME2192     PSO1     PSO2     PSO3       BPH2101     2     PSO2     PSO3       BPH2101     2     PSO2     PSO3				
BMA2101         2         2         2           BMA2201         2         2         2           BMA2301         2         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3				
BMA2201         2         2           BMA2301         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3           BPH2101         2         PSO2         PSO3				
BMA2301         2         2           BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3				
BME2101         2         PSO2         PSO3           BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3				
BME2192         PSO1         PSO2         PSO3           BPH2101         2         PSO2         PSO3				
BPH2101 2 PSO2 PSO3				
E   F302   F303				
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3.2 Attainment of Course Outcomes (75)

Total Marks 75.00

Institute Marks : 10.00

All the courses offered in the program curriculum are broadly classified into 3 categories with their individual assessment methods:

- 1. Theory courses
- 3. Project

Course outcome attainment for each type of course is discussed below.

#### Attainment of course outcomes for theory courses:

Course Category	Type of Assessment	Assessment Tools	Marks	Category	CO Attainment type
		Assignments, Quiz tests (Formative assessments)	20	Cumulative Internal Examination (CIE)	Formative type
	Direct	Mid Semester Examination	30	Cumulative Internal Examination (CIE)	Direct CO Att.
Theory		End Semester Examination	50	Semester End Examination (SEE)	(70% weightage)
	Indirect	Course Completion feedback			Indirect CO Att. (30% weightage)

#### Data Acquisition Process CO attainment of theory courses:

- For direct CO attainment, all the questions of mid-semester and end semesters are mapped with course outcomes during the preparation of the question paper.
- For the indirect CO attainment, semester-end feedbacks are collected by the department to acquire opinions about each CO from the students.
- During Covid 19, marks obtained by all the students from the online examinations are shared by the exam coordinator for CO attainment analysis
- Final computation of course outcomes attainment is done through spreadsheets by the concerned faculty. CO attainment information will be compiled by the course coordinators and information passed on to the School Quality Assurance Cell and Program Assessment Committee for subsequent decisions and actions.
- The calculation for attainments is performed after the declaration of end-semester examination results. All documentations related to attainments are maintained by the course coordinators.

#### Direct CO Attainment Process of a Theory Course:

	Threshold levels for direct CO Attainment
Level= 3	100 ≥ Percentage attainment in each CO ≥ Threshold <sub>1</sub>
Level= 2	Threshold <sub>1</sub> > Percentage attainment in each CO ≥ Threshold <sub>2</sub>
Level= 1	Threshold <sub>2</sub> > Percentage attainment in each CO > 0

(Threshold<sub>1</sub> =70%, Threshold<sub>2</sub>=40%)

Threshold values are decided by the Board of Study and may be altered to other values depending on the complexities and hardness of questions in the Mid and End Semester Examinations. Direct CO attainment is calculated for each student as shown below

Percentage attainment in each CO =

 $\frac{\text{Total marks obtained by the student corresponding to the particular CO}}{\text{Total marks allotted to questions mapped the particular CO}}$ 

For each student, levels are assigned according to all Cos according to the percentage attainment in each CO.

Attainment of each CO = Average of the levels obtained by all the students

Direct CO attainment of a course = Average of all five COs

## Indirect CO Attainment of a Theory Course:

For each CO, attainment levels are collected from all the students through feedback forms.

Attainment in each CO =

Indirect CO attainment of a course = Average of all five COs

Final CO Attainment level = (0.7) \* Direct CO Attainment + (0.3) \* Indirect CO Attainment

### Attainment of course outcomes for Sessional courses:

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

Course Category	Assessment Tools	Marks	Category	CO Attainment type
	For every experiment, evaluation is to be done for corresponding Course Outcomes through the performance of students, viva, record marks  End Semester Examination	80	Cumulative Internal Examination (CIE) Semester End	Direct CO Att.
Sessional	(Viva/ Test / Quiz)	20	Examination (SEE)	(70% weightage)
	Course Completion feedback			Indirect CO Att. (30% weightage)

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

	Threshold levels for Attainment							
Level 3	100 ≥ Percentage attainment in each CO ≥ Threshold <sub>1</sub>							
Level 2	Threshold₁ > Percentage attainment in each CO ≥ Threshold₂	Threshold <sub>1</sub> = 80% Threshold <sub>2</sub> = 60%						
Level 1	Threshold <sub>2</sub> > Percentage attainment in each CO > 0							

Threshold values are decided by the Board of Study and may be altered to other values

depending on the complexities and hardness of experiments.

Final CO Attainment level= (0.7) \* Direct CO Attainment + (0.3) \* Indirect CO Attainment

# ment of course outcomes for Projects:

A summary of different assessment components and respective weightage is given in the table below.

Course Category	Assessment	Marks	Category	CO Attainment type
Category	Tools			

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	For a project done by a student, evaluation is to be done for corresponding Course Outcomes through the performance of students. This evaluation is done by the respective guide.	80	Cumulative Internal Examination (CIE)	Direct CO Att.
Project	End Semester Examination	20	Semester End Examination	(70% weightage)
	(presentation, QnA)		(SEE)	
	Course Completion feedback			Indirect CO Att.
				(30% weightage)
Fir	nal CO Attainment level= (0.7) * Direct CO Attain	nment + (0.3)	* Indirect CO Attainme	ent

# Example of Course Outcomes (COs) Attainment of a theory course:

Target CO att=1.8 (60% of 3)

Α	В	С	D	Е	F	G	Н	- 1	J	K	L	М	N
	Program	Btech											
	Subject	XXX											
	Semester	5th											
	Branch	YY											
	AY	2019-2020											
								0-3 scale	%				
					Final Atta	inment (Di	rect)	1.74	0.58				
						tainment L		0.6	0.3				
							Levels	3	2				
			Average a	ttainment			>	1.72		1.50		2.06	
_					ıtage Attai					nent in (0-			
	Reg. No.	Name	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
1	1902070064	GARGI PATNAIK	0.45	0.53	0.45	0.35	0.60	2		2	2	2	
2	1902070065	KIRTI BHUSAN SE	0.25	0.33	0.08	0.00	0.70	1	2	1	1	3	
3	1902070066	SMRUTI RANJAN	0.40	0.65	0.48	0.45	0.50	2	3	2	2	2	
4	1902070067	VAKADI SAI PRAT	0.08	0.55	0.38	0.55	0.65	1	2	2	2	3	
5	1902070068	SIPAN PRADHAN	0.00	0.00	0.00	0.00	0.00	1	1	1	1	1	
6	1902070069	JYOTIRMAYEE PA	0.45	0.45	0.30	0.10	0.80	2	2	1	1	3	
7	1902070070	DISHANT SAHU	0.33	0.65	0.33	0.90	0.70	2	3	2	3	3	
8	1902070071	ADITYA PATRA	0.65	0.63	0.53	0.30	0.65	3	3	2	1	3	
9	1902070072	AKANKSHYA NAY	0.33	0.40	0.43	0.50	0.85	2	2	2	2	3	
10	1902070073	DEBI PRASAD PA	0.43	0.40	0.43	0.70	0.50	2	2	2	3	2	
11	1902070074	SHREEPREET SAH	0.73	0.63	0.40	0.15	0.45	3	3	2	1	2	
12	1902070075	SUBHASHREE DAY	0.15	0.03	0.20	0.45	0.75	1	1	1	2	3	
13	1902070076	RAJESH PATNAIK	0.30	0.33	0.48	0.70	0.30	1	2	2	3	1	
14	1902070077	STHITIPRAINA DA	0.23	0.28	0.05	0.20	0.55	1	1	1	1	2	
15	1902070079	M DILESWAR RAG	0.18	0.48	0.23	0.35	0.20	1	2	1	2	1	
16	1902070080	AMRUTA SAHU	0.50	0.50	0.43	0.70	0.40	2	2	2	3	2	
17	1902070081	SUGRIV KUMAR S	0.38	0.60	0.50	0.75	0.50	2	2	2	3	2	
18	1902070082	SWARNAMAYEE B	0.38	0.18	0.10	0.15	0.50	2	1	1	1	2	
19	1902070083	SUSHREE SIBARP	0.75	0.70	0.28	0.45	0.80	3	3	1	2	3	
20	1902070084	JAGAT JEEBAN MA	0.43	0.33	0.10	0.00	0.75	2	2	1	1	3	
21	1902070085	SUBHAM KUMAR	0.53	0.45	0.35	0.00	0.70	2	2	2	1	3	
22	1902070086	SRIYA SMRUTI SE		0.40	0.23	0.40	0.45	2		1	2	2	
22	MT	ET COat	tainme		COat	tainmen	n ss	Poat	tainmen	t Pso	attainme	nt l	(+)
	IVII	Coa	canillie	nonect	COat	tummen	manect	ruat	tamillen	FSU	accontine	and .	+
	A	В	c		D	E	F	G		н			

4	Α	В	C	D	E	F	G	H	1	
1										
2		Program	Btech							
3		Subject	XXX	1						
4		Semester	5th							
5		Branch	YY							
6		AY	2019-2020							
7							0-3 scale	%		
В				CO Atta	inment (In	direct)	2.60	0.87		
9										
10				2.79	2.77	2.32	2.42	2.68		
11					Attair	ment in (0	-3) scale			
2		Reg. No.	Name	CO1	CO2	CO3	CO4	CO5		
3	1	1902070064	GARGI PATNAIK	3	3	3	3			
4	2	1902070065	KIRTI BHUSAN SETHI	2			2	3		
5	3	1902070066	SMRUTI RANJAN MUDULI	3		3	3	3		
6	4	1902070067	VAKADI SAI PRATYUSH	2	3	3	3	3		
7	5	1902070068	SIPAN PRADHAN	2	3	3	2	2		
8	6	1902070069	JYOTIRMAYEE PATI	3	3	2	2	3		
19	7	1902070070	DISHANT SAHU	3	3	3	3	3		
20	8	1902070071	ADITYA PATRA	3	3	3	2	3		
1	9	1902070072	AKANKSHYA NAYAK	3	3	3	3	3		
22	10	1902070073	DEBI PRASAD PARIDA	3	3	3	3	3		
23	11	1902070074	SHREEPREET SAHU	3	3	3	2	3		
24	12	1902070075	SUBHASHREE DASH	3	2	2	3	3		
25	13	1902070076	RAJESH PATNAIK	3	3	3	3	2		
26	14	1902070077	STHITIPRAINA DAS	3	2	2	2	3		
27	15	1902070079	M DILESWAR RAO	2	3	2	3			
8	16	1902070080	AMRUTA SAHU	3	3	3	3	3		
9	17	1902070081	SUGRIV KUMAR SINGH	3	3		3	3		
0	18	1902070082	SWARNAMAYEE BISWAL	3	2	2	2	3		
1	19	1902070083	SUSHREE SIBARPITA DEY	3	3	2	3	3		
12	20	1902070084	JAGAT JEEBAN MAHARANA	3	3	2	1	3		
3	21	1902070085	SUBHAM KUMAR DAS	3		3	1			
4	22	1902070086	SRIYA SMRUTI SETH	3	3	2	3	3		
5	23	1902070087	SAHIL KUMAR BARICK	3	3	1	2	3		
36	24	1902070088	BIJAY MUNDARI	3	3	1		3		
7 4	25	MT E	COattainment	)irect	COatt	ainment	l Indirect		ainment	

Final CO attainment = (0.7) \* Direct CO Attainment + (0.3) \* Indirect CO Attainment

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

Institute Marks : 65.00

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<sup>= (0.7) \* (1.74) +(0.3) \* (2.60) =1.99 (</sup>target Attained)

Course Outcomes attainment levels for all courses with their respective target are listed below.

Course	Course Name	Direct CO Attainme nt	Indirect CO Attainme nt	Final CO Attainment	Target CO Attainme nt	Target achieved (Y/N)
BMA210	Mathematics-I	1.9	2.2	2.0	2.2	N
BCH210	Chemistry	2.1	2.4	2.2	2.2	Y
BEC210	Basic Electronics	2	2.1	2.0	2.2	N
BCE210	Basic Civil Engineering	2	2.2	2.1	2.2	N
BCS210	Programming for Problem Solving	2.1	2	2.1	2.2	N
BCH219	Chemistry Laboratory	2.3	2.4	2.3	2.2	Υ
BEC219	Basic Electronics Lab	2.2	2.1	2.2	2.2	Υ
BCE219	Engineering Graphics and Design	2.3	2.2	2.3	2.2	Υ
3CS219	Programming Lab	2.1	2	2.1	2.2	N
BMA220	Mathematics-II	2.2	2.4	2.3	2.2	Y
BPH210	Physics	2	2.1	2.0	2.2	N
BEE 2101	Basic Electrical Engineering	2	2.1	2.0	2.2	N
BHU210	English for Communication	2.2	2.4	2.3	2.2	Y
BME210	Engineering Mechanics	1.9	2.1	2.0	2.2	N
3PH219	Physics Laboratory	2.1	2.2	2.1	2.2	N
BEE219	BEE Laboratory	2.1	2.2	2.1	2.2	N
BME219	Workshop-1	2.2	2.4	2.3	2.2	Y
BHU219	Business Communication Skill Lab	2.3	2.2	2.3	2.2	Y
BMA230	Mathematics-III	2	2.1	2.0	2.2	N
BEC230	Network Theory	2.3	2.1	2.2	2.2	Y
BEC230	Analog Electronics Circuit	2.3	2.2	2.3	2.2	Υ
BEC230	Signals & Systems	2.2	2	2.1	2.2	N
3HU230	Economics for Engineers	2.4	2.3	2.4	2.2	Υ
BEC239	Analog Electronics Circuit Lab	2.2	2.4	2.3	2.2	Y
BEC239	Network Theory Lab	2.1	2.3	2.2	2.2	Y
BEC239	Signals & Systems Lab	2.3	2	2.2	2.2	Y
BEC239	Simulation-I Lab	2.4	2.3	2.4	2.2	Y
BEC240	Digital System Design	2.2	2.4	2.3	2.2	Y
BEC240	Advanced Electronics Circuit	2.3	2.1	2.2	2.2	Y
BEC240	Principle of Analog & Digital	2.1	2.3	2.2	2.2	Y
BEC240	Communication	1.9	2	1.9	2.2	N
3 3HU230	Organizational Behaviour	2.2	2.4	2.3	2.2	Υ
BEC249	Digital System Design Lab	2.3	2.4	2.3	2.2	Υ
BEC249	Advanced Electronics Circuit Lab	2.2	2.2	2.2	2.2	Y
BEC249	Design & Testing Lab	2.1	2.2	2.2	2.2	N
BEC249	Analog & Digital Communication Lab		2.2	2.1	2.2	Y
BEC250		2.3				
3EC250	Microprocessor & Microcontroller	2.1	2.0	2.1	2.2	N
BEC250	Integrated Circuits & Systems	2.4	2.2	2.3	2.2	Y
BEC250	Digital Signal Processing	2.3	2.1	2.2	2.2	Y
BEC259	Control system (Open Elective)	2.0	2.1	2.0	2.2	N
3	Digital Signal Processing Lab	2.3	2.2	2.3	2.2	Y

BEC259 5	Microprocessor & Microcontroller Lab	2.1	2.3	2.2	2.2	Y
BEC259 6	Integrated Circuits & Systems Lab	2.4	2.3	2.4	2.2	Υ
BEC260 3	Microwave Engineering	2.1	2.0	2.0	2.2	N
BEC260 6	Wireless & Mobile Communication	2.1	2.3	2.2	2.2	Υ
BEC260 7	Electronic Instrument and Measurements	2.2	2.4	2.3	2.2	Υ
BHU250 1	Professional ethics, Professional laws & human values	2.3	2.5	2.4	2.2	Y
BEC260 4	Digital Image Processing	2.1	2.0	2.1	2.2	N
BEC269 3	Microwave Engineering Lab	2.3	2.1	2.2	2.2	Υ
BEC269 5	Simulation-II Lab.	2.4	2.2	2.3	2.2	Υ
BEC269 1	Instrumentation Lab	2.3	2.0	2.2	2.2	Υ
BEC270 9	Wave Propagation & Antenna Engineering	2.3	2.3	2.3	2.2	Υ
BEC270 2	Computer Communication & Networks	2.2	2.0	2.1	2.2	N
BEC270 5	Information Theory & Coding	2.1	2.2	2.1	2.2	N
BEC270 8	Satellite Communication	2.1	2.3	2.2	2.2	Y
BEC279 3	Advanced Communication Lab	2.1	2.1	2.1	2.2	N
BEC279 5	Seminar on internship	2.4	2.6	2.5	2.2	Υ
BEC279 4	Minor Project	2.2	2.3	2.2	2.2	Υ
BEC280 7	Computer Organisation & System Architecture	2.1	1.9	2.1	2.2	Υ
BEC280 9	Advanced Communication Systems	2.4	2.6	2.5	2.2	Υ
BEC289 5	Seminar on Project	2.4	2.4	2.4	2.2	Υ
BEC280	Advanced Antenna Technology	2.1	2.1	2.1	2.2	N
BEC289 4	Major Project	2.4	2.3	2.4	2.2	Y
	1	- 1	1	l	1	

 $\textbf{3.3 Attainment of Program Outcomes and Program Specific Outcomes} \ (75)$ 

Total Marks 75.00

Institute Marks: 10.00

e - NBA

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

The Programme outcome assessment tools are categorized into direct and indirect methods of outcome assessment. Direct Programme outcome attainment is evaluated through the course outcome attainment. Indirect PO attainment is evaluated through based on questionnaire survey of various stake holders such as Graduates, Alumni and Employers. The details of frequency of collection and responsible authorities are given below.

Type of Assessme nt	Assessment Tools	Data Collection frequency	Responsible entity
Direct	CO Attainment of each	Once after each semester	Course coordinator
	Student survey, Alumni		Internal Quality
Indirect	Survey and Employer Survey	Once in a year	Assurance Cell (IQAC)

The process of direct and indirect PO attainment is described below

#### Direct assessment and evaluation of Program Outcomes and Program Specific Outcomes

The formula for the calculation of the POs attainment considering the relevant courses and their outcomes is given below:

Direct attainment  $i^{th}$  PO =  $PO_i = \frac{\sum_{j=1}^{N} co_j P_{ji}}{N}$ 

 $\emph{N}=$  Total number of courses,  $\emph{CO}_j=$  CO attainment of  $\ \emph{j}^{\it{th}}$  course

 $P_{ji}=\mathrm{value}$  given in the Program Articulation Matrix (PAM) for the  $j^{th}$  course and  $i^{th}$  PO

### Indirect assessment and evaluation of Program Outcomes and Program Specific Outcomes

Each year the Internal Quality Assurance Cell of the university conducts the student survey, alumni survey, and employer Survey. In each survey, the questions are prepared based on twelve program outcomes, and the corresponding answers are given in the form of ratings as 3, 2, 1, and 0. The average rating value for each PO is computed and is represented as indirect PO attainment. Similarly, surveys are taken for Program Specific Outcomes and the indirect attainments of PSOs are calculated.

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

Institute Marks : 65.00

## PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	P07	P08	PO9	PO10	PO11	PO12
BMA2101	2	2	1.3	1.3	1.3	2	2	PO8	PO9	PO10	1.3	2
BCH2101	2.2	2.2	1.5	PO4	PO5	PO6	2.2	PO8	PO9	1.5	1.5	2.2
BEC2101	2	1.4	2	2	2	PO6	PO7	PO8	PO9	PO10	2	2
BCE2102	2.1	1.4	1.4	1.4	1.4	1.4	2.1	PO8	1.4	1.4	1.4	2.1
BCS2102	2.1	2.1	2.1	2.1	1.4	PO6	PO7	PO8	1.4	PO10	PO11	2.1
BCH2191	2.3	.8	1.6	PO4	1.6	PO6	2.3	PO8	1.6	PO10	1.6	PO12
BEC2191	2.2	1.4	1.4	2.2	2.2	PO6	PO7	PO8	PO9	PO10	2.2	2.2
BCE2191	2.3	1.5	1.5	1.5	.8	2.3	2.3	PO8	1.5	1.5	1.5	2.2
BCS2192	2.3	2.1	2.1	2.1	1.4	2.3	PO7	1.4	2.1	PO10	PO11	2.3
BMA2201	2.3	2.3	1.5	1.5	.8	2.3	2.3	1.4 PO8	PO9	PO10	.8	2.1
BPH2102	2.3	2.3	1.5		.7	2.3 PO6	PO7	PO8	PO9	1.4	.8 PO11	1.4
BEE2101	2	2	1.4	1.4	2	1.4	2	PO8	PO9	1.4 PO10	2	1.4
BHU2102	PO1	PO2	PO3	1.5	PO5	1.5	1.5	PO8	1.5	2.3	PO11	PO12
BME2101	2	2	1.3	2	2	PO6	PO7	PO8	2	1.3	PO11	1.3
BPH2191	2.1	2.1	1.4	.7	2.1	1.4	2.1	2.1	2.1	2.1	.7	1.4
BEE2191	2.1	2.1	1.4	2.1	2.1	1.4	1.4	1.4	2.1	2.1	2.1	2.1
BME2192	PO1	PO2	.8	1.5	1.5	1.5	1.5	1.5	2.3	1.5	1.5	2.3
BHU2191	PO1	PO2	PO3	PO4	PO5	2.3	1.5	PO8	1.5	2.3	PO11	PO12
BMA2301	2	2	1.4	1.4	2	2	.7	PO8	PO9	PO10	1.4	2
BEC2307	2.2	2.2	2.2	2.2	1.5	2.2	1.5	1.5	2.2	PO10	2.2	2.2
BEC2305	2.3	2.3	2.3	2.3	1.5	1.5	1.5	PO8	PO9	PO10	2.3	2.3
BEC2306	2.1	2.1	2.1	2.1	1.4	PO6	2.1	PO8	PO9	PO10	2.1	2.1
BHU2303	PO1	PO2	PO3	PO4	PO5	1.6	1.6	2.4	1.6	PO10	2.4	1.6
BEC2391	2.3	2.3	2.3	2.3	2.3	1.5	1.5	PO8	PO9	PO10	PO11	2.3
BEC2396	2.2	2.2	2.2	1.4	2.2	1.4	2.2	1.4	2.2	PO10	PO11	2.2
BEC2395	2.2	2.2	2.2	1.5	2.2	PO6	2.2	PO8	PO9	PO10	PO11	2.2
BEC2393	2.4	1.6	2.4	2.4	2.4	2.4	2.4	PO8	PO9	PO10	PO11	1.6
BEC2409	2.3	2.3	2.3	2.3	2.3	1.5	2.3	1.5	2.3	2.3	2.3	1.5
BEC2407	2.2	2.2	2.2	2.2	2.2	1.5	2.2	1.5	2.2	2.2	2.2	2.2
BEC2406	2.2	2.2	1.4	1.4	2.2	1.4	2.2	1.4	1.4	2.2	2.2	1.4
BEC2408	1.9	1.9	1.9	1.3	1.9	PO6	1.9	1.9	1.9	1.3	PO11	1.9
BHU2301	PO1	PO2	PO3	PO4	PO5	1.5	1.5	2.3	1.5	PO10	2.3	1.5
BEC2494	2.3	2.3	2.3	2.3	2.3	1.6	2.3	2.3	2.3	2.3	2.3	1.6
BEC2498	2.2	2.2	2.2	2.2	2.2	1.5	2.2	1.5	2.2	2.2	2.2	2.2
BEC2496	2.1	2.1	2.1	2.1	2.1	1.4	2.1	2.1	2.1	2.1	2.1	2.1
BEC2499	2.2	2.2	1.5	2.2	2.2	1.5	2.2	1.5	1.5	1.5	2.2	1.5
BEC2507	2.1	2.1	2.1	1.4	2.1	1.4	PO7	PO8	PO9	PO10	PO11	2.1
BEC2506	2.3	2.3	1.6	2.3	2.3	2.3	2.3	PO8	PO9	PO10	2.3	2.3
BEC2503	2.2	2.2	2.2	1.5	2.2	1.5	1.5	PO8	PO9	1.5	2.2	2.2
BEC2509	2	2	1.4	2	2	1.4	.7	PO8	PO9	PO10	PO11	.7
BEC2593	2.3	2.3	1.5	1.5	2.3	2.3	1.5	PO8	PO9	1.5	2.3	2.3
BEC2595	2.2	2.2	2.2	1.4	1.4	1.4	PO7	PO8	PO9	PO10	PO11	2.2
									P09			
BEC2596	2.4	2.4	1.6	2.4	1.6	2.4	2.4	PO8		PO10	2.4 PO11	1.6
BEC2603	1.4	2	2	2	1.4	2	2	PO8	PO9	PO10	PO11	2
BEC2606	1.5					0.0	0.0	DOC				2.2
DEGGGT		2.2	2.2	2.2	1.5	2.2	2.2	PO8	PO9	PO10	PO11	
BEC2607	2.3	2.3	1.5	1.5	1.5	1.5	PO7	PO8	PO9	PO10	PO11	1.5
BHU2501	2.3 PO1	<b>2.3</b> PO2	1.5	1.5 PO4	1.5 PO5	1.5	PO7	PO8	PO9	PO10	PO11	2.4
BHU2501 BEC2604	2.3 PO1 2.1	2.3 PO2 2.1	1.5 1.6 2.1	1.5 PO4 1.4	1.5 PO5 2.1	1.5 2.4 1.4	PO7 1.6 2.1	PO8 2.4 PO8	PO9 1.6 PO9	PO10 PO10 PO10	PO11 PO11 PO11	2.4
BHU2501 BEC2604 BEC2693	2.3 PO1 2.1 1.5	2.3 PO2 2.1 2.2	1.5 1.6 2.1 2.2	1.5 PO4 1.4 2.2	1.5 PO5 2.1 1.5	1.5 2.4 1.4 2.2	PO7 1.6 2.1 2.2	PO8 2.4 PO8 PO8	PO9 1.6 PO9 PO9	PO10 PO10 PO10 PO10	P011 P011 P011 P011	2.4 1.4 1.5
BHU2501 BEC2604 BEC2693 BEC2695	2.3 PO1 2.1	2.3 PO2 2.1 2.2	1.5 1.6 2.1 2.2 2.3	1.5 PO4 1.4 2.2 2.3	1.5 PO5 2.1 1.5	1.5 2.4 1.4 2.2 2.3	PO7 1.6 2.1 2.2 1.6	PO8 2.4 PO8 PO8 PO8	PO9 1.6 PO9 PO9	PO10 PO10 PO10 PO10 PO10	PO11 PO11 PO11 PO11	2.4 1.4 1.5 1.6
BHU2501 BEC2604 BEC2693	2.3 PO1 2.1 1.5	2.3 PO2 2.1 2.2	1.5 1.6 2.1 2.2	1.5 PO4 1.4 2.2	1.5 PO5 2.1 1.5	1.5 2.4 1.4 2.2	PO7 1.6 2.1 2.2	PO8 2.4 PO8 PO8	PO9 1.6 PO9 PO9	PO10 PO10 PO10 PO10	P011 P011 P011 P011	2.4 1.4 1.5
BHU2501 BEC2604 BEC2693 BEC2695	2.3 PO1 2.1 1.5	2.3 PO2 2.1 2.2	1.5 1.6 2.1 2.2 2.3	1.5 PO4 1.4 2.2 2.3	1.5 PO5 2.1 1.5	1.5 2.4 1.4 2.2 2.3	PO7 1.6 2.1 2.2 1.6	PO8 2.4 PO8 PO8 PO8	PO9 1.6 PO9 PO9	PO10 PO10 PO10 PO10 PO10	PO11 PO11 PO11 PO11	2.4 1.4 1.5 1.6
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691	2.3 PO1 2.1 1.5 1.6 2.2	2.3 PO2 2.1 2.2 1.6 2.2	1.5 1.6 2.1 2.2 2.3 2.2	1.5 PO4 1.4 2.2 2.3 2.2	1.5 PO5 2.1 1.5 1.6 2.2	1.5 2.4 1.4 2.2 2.3 1.5	PO7 1.6 2.1 2.2 1.6 1.5	PO8 2.4 PO8 PO8 PO8 PO8	PO9 1.6 PO9 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709	2.3 PO1 2.1 1.5 1.6 2.2 2.3	2.3 PO2 2.1 2.2 1.6 2.2 2.3	1.5 1.6 2.1 2.2 2.3 2.2 2.3	1.5 PO4 1.4 2.2 2.3 2.2	1.5 PO5 2.1 1.5 1.6 2.2	1.5 2.4 1.4 2.2 2.3 1.5	PO7 1.6 2.1 2.2 1.6 1.5	PO8 2.4 PO8 PO8 PO8 PO8 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1	1.5 PO5 2.1 1.5 1.6 2.2 1.5	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1	PO7 1.6 2.1 2.2 1.6 1.5 1.5	PO8 2.4 PO8 PO8 PO8 PO8 PO8 PO8 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702 BEC2705	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1	PO7 1.6 2.1 2.2 1.6 1.5 1.5 1.1 1.4	PO8 2.4 PO8 PO8 PO8 PO8 PO8 PO8 PO8 PO8 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702 BEC2705 BEC2708	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1	PO7 1.6 2.1 2.2 1.6 1.5 1.5 1.4 1.4	PO8 2.4 PO8	PO9 1.6 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.1	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.2	PO7 1.6 2.1 2.2 1.6 1.5 1.5 1.4 1.4 1.4	PO8 2.4 PO8	PO9 1.6 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793 BEC2794	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4 1.4	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 2.1 2.2	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.1 2.2	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.2 1.4	PO7 1.6 2.1 2.2 1.6 1.5 1.5 1.1 1.4 1.4 2.2	PO8 2.4 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 2.2	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2 2.1 2.2
BHU2501 BEC2604 BEC2603 BEC2693 BEC2695 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793 BEC2794 BEC2807	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1 2.2	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4 1.4 2.2 2.2	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 2.1 2.2 1.4	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 1.4	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1 2.2	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.2 1.4 2.2 2.1	PO7 1.6 2.1 2.2 1.6 1.5 1.5 2.1 1.4 1.4 2.2	PO8 2.4 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 2.2 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2 2.1 2.2 1.4
BHU2501 BEC2604 BEC2693 BEC2695 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793 BEC2794 BEC2807	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1 2.2 2.1 2.1	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4 1.4 2.2 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 2.1 4.4 1.4	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 1.4 2.2 1.4	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1 2.2 1.4 1.4	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.1 2.2 1.4 2.2 2.1 PO6	PO7 1.6 2.1 2.2 1.6 1.5 1.5 2.1 1.4 1.4 1.4 2.2 1.4 PO7	PO8 2.4 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 2.2 PO9 PO9 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2 2.1 2.2 1.4 2.1
BHU2501 BEC2604 BEC2693 BEC2695 BEC2691 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793 BEC2794 BEC2807 BEC2809	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1 2.2 2.1 1.7	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4 1.4 2.2 2.1 2.1 2.1 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 1.4 1.4 2.5	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.2 1.4 2.2 1.4 1.4	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1 2.2 1.4 1.4 1.7	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.1 2.2 1.4 2.2 2.1 PO6 2.5	PO7 1.6 2.1 2.2 1.6 1.5 1.5 2.1 1.4 1.4 1.4 2.2 1.4 PO7 1.7	PO8 2.4 PO8	PO9 1.6 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2 2.1 2.2 1.4 2.1 2.5
BHU2501 BEC2604 BEC2693 BEC2695 BEC2695 BEC2709 BEC2702 BEC2705 BEC2708 BEC2793 BEC2794 BEC2807 BEC2809 BEC2808 BEC2808	2.3 PO1 2.1 1.5 1.6 2.2 2.3 1.4 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1 2.2 2.1	2.3 PO2 2.1 2.2 1.6 2.2 2.3 2.1 2.1 1.4 1.4 2.2 2.1 2.1 2.1 2.1 2.1	1.5 1.6 2.1 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 2.1 2.2 1.4 1.4 2.5 2.4	1.5 PO4 1.4 2.2 2.3 2.2 2.3 2.1 2.1 2.1 2.2 1.4 2.2 1.4 1.7 2.4	1.5 PO5 2.1 1.5 1.6 2.2 1.5 1.4 2.1 2.2 2.1 2.2 1.4 1.7 2.4	1.5 2.4 1.4 2.2 2.3 1.5 2.3 2.1 2.1 2.2 1.4 2.2 2.1 PO6 2.5 2.4	PO7 1.6 2.1 2.2 1.6 1.5 1.5 1.4 1.4 1.4 2.2 1.4 PO7 1.7 2.4	PO8 2.4 PO8	PO9 1.6 PO9 PO9 PO9 PO9 PO9 PO9 PO9 PO9 2.2 PO9	P010 P010 P010 P010 P010 P010 P010 P010	P011 P011 P011 P011 P011 P011 P011 P011	2.4 1.4 1.5 1.6 1.5 1.5 2.1 1.4 2.2 2.1 2.2 1.4 2.1 2.5 2.4

 Course
 PO1
 PO2
 PO3
 PO4
 PO5
 PO6
 PO7
 PO8
 PO9
 PO10
 PO11
 PO12

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Exit Survey	2.71	2.87	2.65	2.91	2.74	2.35	2.87	2.33	2.73	2.78	2.46	2.76
Alumni Surv	2.57	2.69	2.14	2.67	2.84	2.94	2.87	2.39	2.54	2.56	2.87	2.31
Employer S	2.47	2.54	2.68	2.57	2.64	2.78	2.43	2.62	2.67	2.39	2.76	2.41

## PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49
Direct Attainment	2.11	2.06	1.90	1.88	1.85	1.86	1.88	1.89	1.91	1.92	1.99	1.94

## PSO Attainment

Course	PSO1	PSO2	PSO3
BEC2503	2.2	2.2	1.5
BEC2506	2.3	2.3	2.3
BEC2507	2.1	2.1	2.1
BEC2509	2	1.4	2
BEC2593	2.3	2.3	2.3
BEC2595	2.2	2.2	2.2
BEC2596	2.4	2.4	2.4
BEC2603	2	2	2
BEC2606	2.2	2.2	1.5
BEC2607	2.3	2.3	1.5
BEC2604	2.1	2.1	2.1
BEC2691	2.2	2.2	1.5
BEC2693	2.2	2.2	1.5
BEC2695	2.3	2.3	2.3
BEC2709	2.3	2.3	1.5
BEC2702	2.1	2.1	2.1
BEC2705	2.1	2.1	2.1
BEC2708	2.2	2.2	2.2
BEC2708 BEC2793	2.1	2.1	2.1
	2.5	2.5	2.5
BEC2795	2.5	2.2	2.2
BEC2994			
BEC2807 BEC2809	2.1	2.1	1.4
			1.4
BEC2808	2.5	1.7	1.7
BEC2894	2.4	2.4	2.4
BEC2895	2.4	2.4	2.4
BMA2101	1.3	1.3	1.3
BCH2101	PSO1	PSO2	PSO3
BEC2101	2	2	2
BCE2102	PSO1	PSO2	PSO3
BCS2102	PSO1	2.1	PSO3
BCH2191	PSO1	PSO2	PSO3
BEC2191	2.2	2.2	2.2
BCE2192	PSO1	PSO2	PSO3
BCS2191	PSO1	2.1	PSO3
BMA2201	1.5	1.5	1.5
BPH2101	1.4	PSO2	PSO3
BEE2101	1.4	PSO2	PSO3
BHU2102	PSO1	PSO2	PSO3
BME2101	1.3	PSO2	PSO3
BPH2191	1.4	PSO2	PSO3
BME2192	PSO1	PSO2	PSO3
BHU2191	PSO1	PSO2	PSO3
BMA2301	1.4	1.4	1.4
BEC2307	2.2	2.2	1.5
BEC2305	2.3	2.3	2.3
BEC2306	2.1	2.1	2.1
BHU2303	PSO1	PSO2	1.6
BEC2391	2.3	2.3	2.3
BEC2396	2.2	2.2	2.2
BEC2395	2.2	2.2	2.2
BEC2393	2.4	2.4	2.4
BEC2409	2.3	2.3	2.3
BEC2407	2.2	2.2	2.2
	2.2	1.4	2.2
BEC2406		1	1.9
	1.9	1.9	1.9
BEC2406	1.9 PSO1	PSO2	1.5
BEC2406 BEC2408			
BEC2406 BEC2408 BHU2301	PSO1	PSO2	1.5

BEC2499	2.2	2.2		2.2		
PSO Attainment I	Indirect					
Survey	PSO1	PSO2		PSO3		
Exit Survey	2.62	2.76		2.69		
Alumni Survey	2.32	2.56	2.56			
Employer Survey	2.72	2.66		2.57		
PSO Attainment Leve	el			1	1	
Course			PSO1	PSO2	PSO3	
Direct Attainment			2.10	2.11	1.98	
InDirect Attainment			2.55	2.66	2.63	

4 STUDENTS' PERFORMANCE (100)

Total Marks 88.96

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Institute Marks :

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2023-24 (CAY)	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)	2019-20 (CAYm4)	2018-19 (CAYm5)	2017-18 (CAYm6)
Sanctioned intake of the program(N)	120	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	116	125	109	118	110	111	108
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	12	12	12	12	12	12	12
Separate division students, If applicable (N3)	36	36	6	6	6	6	6
Total number of students admitted in the programme(N1 + N2 + N3)	164	173	127	136	128	129	126

## Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)					
		l year	II year	III year	IV year		
2023-24 (CAY)	164						
2022-23 (CAYm1)	173	125					
2021-22 (CAYm2)	127	105	117				
2020-21 (CAYm3)	136	118	130	128			
2019-20 (LYG)	128	109	122	120	118		
2018-19 (LYGm1)	129	108	116	115	115		
2017-18 (LYGm2)	126	108	119	117	117		

# Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]						
		l year	II year	III year	IV year			
2023-24 (CAY)	164							
2022-23 (CAYm1)	173	125						
2021-22 (CAYm2)	127	105	117					
2020-21 (CAYm3)	136	118	132	128				
2019-20 (LYG)	128	110	123	120	120			
2018-19 (LYGm1)	129	109	126	123	122			
2017-18 (LYGm2)	126	108	120	118	118			

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2023-24 (CAY)	120	116	96.67
2022-23 (CAYm1)	120	125	104.17
2021-22 (CAYm2)	120	109	90.83

Average [ (ER1 + ER2 + ER3) / 3 ]: 97.22

Assessment: 20.00

4.2 Success Rate in the stipulated period of the program  $\left(20\right)$ 

 $\textbf{4.2.1 Success rate without backlogs in any semester} \ / \ \textbf{year of study} \ (15)$ 

Total Marks 18.37

Institute Marks: 13.65

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	128.00	129.00	126.00
Y Number of students who have graduated without backlogs in the stipulated period	118.00	115.00	117.00
Success Index [ SI = Y / X ]	0.92	0.89	0.93

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

Assessment [15 \* Average SI]: 13.65

4.2.2 Sucess rate in stipulated period (5)

Institute Marks: 4.72

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	128.00	129.00	126.00
Y Number of students who have graduated in the stipulated period	120.00	122.00	118.00
Success Index [ SI = Y / X ]	0.94	0.95	0.94

Average SI[ ( SI1 + SI2 + SI3) / 3 ]: 0.94

Assessment [5 \* Average Si] : 4.72

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)

Total Marks 7.19

Institute Marks: 7.19

Academic Performance	CAYm1 ( 2022-23 )	CAYm2 ( 2021-22 )	CAYm3 ( 2020-21 )
Mean of CGPA or mean percentage of all successful students(X)	7.60	7.35	7.50
Total number of successful students (Y)	117.00	132.00	123.00
Total number of students appeared in the examination (Z)	123.00	136.00	128.00
API [ X * (Y/Z) ]	7.23	7.13	7.21

Average API [ (AP1 + AP2 + AP3)/3 ]: 7.19

Assessment [ AverageAPI ]: 7.19

4.4 Placement, Higher Studies and Entrepreneurship (30)

Total Marks 23.40

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Institute Marks : 23.40

Item	CAYm1( 2022-23 )	CAYm2( 2021-22 )	CAYm3( 2020-21 )
Total No of Final Year Students(N)	120.00	123.00	118.00
No of students placed in the companies or government sector(X)	98.00	88.00	75.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	5.00	10.00	4.00
No of students turned enterpreneur in engineering/technology (Z)	0.00	2.00	0.00
Placement Index [ (X+Y+Z)/N ] :	0.86	0.81	0.67

Average Placement [ (P1 + P2 + P3)/3 ]: 0.78

Assessment [ 30 \* Average Placement] : 23.40

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Program Name : Electronics & Telecommunications Engineering Assessment Year : 2022-23 (CAYm1)

MAYOR MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR   MAYOR MAYOR MAYOR   MAYOR				T	I
20         March Parkon Naco         90000001         RECETTE 920           4         Morphorisch Princip         1900000001         MCI         MCI<	S.No	Student Name	Enrollment No	Employee Name	Appointment No
10   August Annu Pale   9000004   PK.C.   P	1	ANANYA MOHANTY	1902030010	AMAZON(SDE)	AMAZON(SDE)_2023
	2	Sushree Banaja Panda	1902050001	DELOITTE	DELOITTE _2023
Management Proc.   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/1990/64   1980/6990/64	3	Pratyush Kumar Patra	1902070001	INCTURE	INCTURE _2023
Secretary   March	4		1902070004	HCL	
68 Decided Seguita Branch         980000000         Cooperation Size 14 (20), 2003           64 MARPHON SERVIN         1900000000000000         Cooperation Size 14 (20), 2003           64 MARPHON SERVIN         19000000000000000000000000000000000000					
Page					
MARCHIVA SETHS   90207050   Section   90207050	6	Sharbanee Swagatika Patnaik	1902070006	Capgeminin SE (4.25)	Capgeminin SE (4.25) _2023
Personal Person   900000000   CREDITE   CR	7	Arya Biswa Kalyan	1902070007	GenC	GenC _2023
10   Residence   Profession   Security	8	HARAPRIYA SETHI	1902070009	GenC	GenC _2023
11   Value Probas	9	Debashis Behera	1902070010	DELOITTE	DELOITTE _2023
11   Value Probas	10	Soubhagya Ranian Das	1902070012	DELOITTE	DELOITTE 2023
12   August Pace   1920/7915   SERVELL 2021   SER				Congeminin CE (4.2E)	
130   Marcia Probati   Seguitorius   Segui					
14	12	Y Jagdish Rao	19020/0015	ISERVEU	ISERVEU _2023
15	13	Abinash Padhi	1902070018	DELOITTE	DELOITTE _2023
15	14	Satish Barik	1902070020	GenC Elevate	GenC Elevate _2023
	15	Arpit Beriha	1902070022	LTTS	LTTS _2023
	16	Sunil Kumar Padhy	1902070023	IN2IT	IN2IT 2023
19   Anceya Ray   1980070000   TOSINNUA   TOSINNUA   TOSINNUA   2000					
19   Submass Mahma		<u> </u>			
		Ameya Ray	1902070026	TCS(NINJA	TCS(NINJA) _2023
22   Documbu Sahura Pendam   940070931   CAPGEMMI SENIOR SOFTWARE ENGG (7.5)   CAPGEMMI SENIOR SOFTWARE ENGG (7.5)   2023	19	Subhasis Mishra	1902070028	LTTS	LTTS _2023
Sessivit Senter Serter Serter   992070012   CenC   Sessivit Senter Serter   992070012   CenC   Sessivit Senter Serter   992070014   LET   CAPESIAM SENCR SOFTWARE ENGG (7.5)   ADVISION SERVICE SERVICE	20	Kailash Agarwal	1902070029	DELOITTE	DELOITTE _2023
	21	Devanshu Sekhar Preetam	1902070031	CAPGEMINI SENIOR SOFTWARE ENGG.(7.5)	CAPGEMINI SENIOR SOFTWARE ENGG.(7.5) _2023
	22	Sasank Sekhar Sahoo	1902070032	GenC	GenC _2023
SATYABRATA PRIADRIAN   1902079050   LET   LET_2022   SATYABRATA PRIADRIAN   1902079050   CAPTESIAN   CAPTESIAN   CAPTESIAN   ZOOR   Z					
Protect Natr   1900/09/68   CARTESIAN   CARTESIAN   CARTESIAN   CARTESIAN   2023					
Pate Kumar Panda   1980707049   SCALEDGE   SCALEDGE   JO23   Josephanis SE (4.25)   Cappennis SE (4.25)   Ca					
Anuahri Cupta   1902/70040   Cappennis SE (4.25)   Cappennis SE (4.25)   2023	25		1902070036	CARTESIAN	CARTESIAN _2023
Besinger Parida   1902/07/004   MCL   MCL   2023	26	Pratik Kumar Panda	1902070039	SCALEDGE	SCALEDGE _2023
	27	Anushri Gupta	1902070040	Capgemini SE (4.25)	Capgemini SE (4.25) _2023
	28	Biswajeet Panda	1902070041	HCL	HCL_2023
30         Subhashree Patkralik         1900/07043         Byjue BDA (the learning app)         Byjue BDA (the learning app)_2023           31         Shrishishi Behere         1900/070044         DELOTTE         DELOTTE_2023           32         SINIK, RUMAN DUTTA         1900/070048         GenC         GenC_2023           33         Tipeta Sundar Dalui         1900/070049         GenC         GenC_2023           34         Makwah         1900/070049         GenC         GenC_2023           36         RAJ KUMAN MAHANTA         1900/07003         CAPGERINN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)_2023           37         Billy Oya         1900/07003         CAPGERINN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)_2023           38         ADAMI _ 2023         CAPGERINN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)_2023           39         ADAMI _ 2024         COLUMN SENOR SOFTWARE ENGG (7.5)         CAPGERINN SENOR SOFTWARE ENGG (7.5)_2023           41         N HARI GOVIND         1900/07006         SERVEU         SERVEU         SERVEU_2023           42         Govino Das         1900/07007         SERVEU         SERVEU_2023         CAPGERINN SENOR SOFTWARE ENGG	29		1902070042	DELOITTE	
SUNIL KUMAR DUTTA					
Tapida Sundar Dalai   1902/07048   GenC   GenC_2023	31	Snehasish Behera	1902070044	DELOITTE	DELOITTE _2023
Marketh	32	SUNIL KUMAR DUTTA	1902070046	HCL	HCL _2023
RAJ KUMAR MAHANTA	33	Tapta Sundar Dalai	1902070048	GenC	GenC _2023
ABHLIEET SAHOO	34	M Navish	1902070049	GenC	GenC _2023
ABHLIEET SAHOO	35	RAJ KUMAR MAHANTA	1902070050	GenC	GenC 2023
Bipsy Ohia   1902070053   ADANI   1902070054   CAPGEMIN SENIOR SOFTWARE ENGG (7.5)   CAPGEMIN SENIOR SOFTWARE ENGG (7.5)   CAPGEMIN SENIOR SOFTWARE ENGG (7.5)   2023					
Souray ranjan maillek   1902070054   CAPGEMINI SENIOR SOFTWARE ENGG (7.5)   CAPGEMINI SENIOR SOFTWARE ENGG (7.5)   2023					
Abhisek Yardav 1902070057 1902070057 1902070050 1902070	37	Bijay Ojha	1902070053	ADANI	ADANI _2023
Anuska Mohanty 1902070060 KFINTECH KFINTECH 2023  141 N HARI GOVIND 1902070061 L CUBE L CUBE INNOVATIVE  142 Goura Das 1902070062 ISERVEU ISERVEU ISERVEU 2023  143 C. ASISH PATRO 1902070063 CAPGEMINI SENIOR SOFTWARE ENGG (7.5) _2023  144 Kirli Bhusan Sehi 1902070065 ASS SOLUTIONS LTD AESS SOLUTIONS LTD 2023  145 Gargi Patnaik 1902070066 ASS SOLUTIONS LTD AESS SOLUTIONS LTD 2023  146 Smulf Rarjan Muduli 1902070066 ASS SOLUTIONS LTD AESS SOLUTIONS LTD 2023  147 Vakad Sai Pathyush 1902070067 GenC GenC 2023  148 JYOTRIMAYEE PATI 1902070069 GenC GenC 2023  149 DISHANT SAHU 1902070070 ISERVEU ISERVEU 2023  150 Adiya Patra 1902070071 GenC GenC 2023  151 Akankshya Nayak 1902070071 GenC GenC 2023  152 Debi prasad paridis 1902070072 CAPGEMINI SENIOR SOFTWARE ENGG (7.5) _2023  153 SHREEPREET SAHU 1902070073 INFOSYS SE INFOSYS SE INFOSYS SE 2023  154 Subhashveo Dash 1902070075 LTTS LTTS 2023  155 Shihipraina Das 1902070075 CAPGEMINI SE (4.25) CAPGEMINI SE (4.25) _2023  156 Shihipraina Das 1902070077 CAPGEMINI SE (4.25) CAPGEMINI SE (4.25) _2023  157 AMRIUTA SAHU 1902070080 Cappemini SE (4.25) Cappemini SE (4.25) _2023  158 Sugriv kumar singh 1902070081 MARQUEE SEMICONDUCTOR MARQUEE SEMICONDUCTOR 2023  159 Subhashveo Blash 1902070081 MARQUEE SEMICONDUCTOR AEGUS SOLUTIONS LTD 2023  150 Subhash Manarana 1902070084 AESS SOLUTIONS LTD AESS SOLUTIONS LTD 2023  150 Subhash Manarana 1902070085 SCALEDGE SCALEDGE 2023  150 Jagat Jeeban Maharana 1902070089 GenC Cappemini SE (4.25) Cappemini SE (4.25) _2023  150 Jagat Jeeban Maharana 1902070089 GenC Cappemini SE (4.25) Cappemini SE (4.25) _2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE SCALEDGE SCALEDGE 2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE SCALEDGE SCALEDGE 2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE SCALEDGE MARCONDUCTOR MARQUEE SEMICONDUCTOR 2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE SCALEDGE SCALEDGE 2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE SCALEDGE MARCONDUCTOR MARQUEE SEMICONDUCTOR 2023  150 Jagat Jeeban Maharana 1902070089 SCALEDGE	38	Sourav ranjan mallick	1902070054	CAPGEMINI SENIOR SOFTWARE ENGG (7.5)	CAPGEMINI SENIOR SOFTWARE ENGG.(7.5) _2023
1	39	Abhisek Yadav	1902070057	DELOITTE	DELOITTE _2023
	40	Anuska Mohanty	1902070060	KFINTECH	KFINTECH_2023
	41	N HARI GOVIND	1902070061	L CUBE	L CUBE INNOVATIVE
A					
A Kirli Bhusan Sethi					
Smruti Ranjan Muduli	44	Kirti Bhusan Sethi	1902070065	AESS SOLUTIONS LTD	AESS SOLUTIONS LTD _2023
47         Vakad Sai Pratyush         1902070067         GenC         GenC _0223           48         JYOTIRMAYEE PATI         1902070069         GenC         GenC _2023           49         DISHANT SAHU         1902070071         GenC         GenC _2023           50         Adiya Patra         1902070072         GenC         GenC _2023           51         Akankshya Nayak         1902070072         CAPGMINI SENIOR SOFTWARE ENGG (7.5)         CAPGMINI SENIOR SOFTWARE ENGG (7.5) _2023           52         Debi prasad parida         1902070073         INFOSYS SE         INFOSYS SE _2023           53         SHREEPREET SAHU         1902070075         LITS         LITS _2023           54         Subhashree Dash         1902070075         LITS         LITS _2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA)         TCS(NINJA) _2023           56         Sihitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25) _2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           58         Supriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           59	45	Gargi Patnaik	1902070064	DELOITTE	DELOITTE _2023
AB	46	Smruti Ranjan Muduli	1902070066	ASICZEN TECHNOLOGIES	ASICZEN TECHNOLOGIES _2023
AB	47	Vakadi Sai Pratyush	1902070067	GenC	GenC _2023
DISHANT SAHU					
55         Adilya Patra         1902070071         GenC         GenC_2023           51         Akankshya Nayak         1902070072         CAPGMINI SENIOR SOFTWARE ENGG (7.5)         CAPGMINI SENIOR SOFTWARE ENGG (7.5)           52         Debi prasad parida         1902070073         INFOSYS SE         INFOSYS SE_2023           53         SHREEPREET SAHU         1902070074         CAPGEMINI SE (5.75)         CAPGEMINI SE (5.75)_2023           54         Subhashree Dash         1902070075         LTTS         LTTS_2023           55         Rajesh Patnalk         1902070076         TCS(NINJA)         TCS(NINJA)_2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25)_2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25)_2023           61         Jagat Jeeban Maharana         1902070085         SCALEDGE         SCALEDGE_2023 <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
51         Akankshya Nayak         1902070072         CAPGMINI SENIOR SOFTWARE ENGG (7.5)         CAPGMINI SENIOR SOFTWARE ENGG (7.5)         CAPGMINI SENIOR SOFTWARE ENGG (7.5)         2023           52         Debi prasad parida         1902070073         INFOSYS SE         INFOSYS SE _2023           53         SHREEPRET SAHU         1902070074         CAPGEMINI SE (5.75)         CAPGEMINI SE (6.75) _2023           54         Subhashree Dash         1902070075         LTTS         LTTS _2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA) _2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25) _2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           58         Sugriv kurnar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE					
52         Debi prasad parida         1902070073         INFOSYS SE         INFOSYS SE _2023           53         SHREEPREET SAHU         1902070074         CAPGEMINI SE (5.75)         CAPGEMINI SE (5.75) _2023           54         Subhashree Dash         1902070075         LTTS         LTTS _2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA) _2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25) _2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE _2023           60         Sushree Sibarpita Dey         1902070083         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _2023           63         Sriya Smruti Seth         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHC	50	Aditya Patra	1902070071	GenC	
53         SHREEPRET SAHU         1902070074         CAPGEMINI SE (5.75)         CAPGEMINI SE (5.75) _ 2023           54         Subhashree Dash         1902070075         LTTS         LTTS _ 2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA) _ 2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25) _ 2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _ 2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _ 2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE _ 2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _ 2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         Capgemini SE (4.25) _ 2023         SEMIKUN TEHCHNLOGY<	51	Akankshya Nayak	1902070072	CAPGMINI SENIOR SOFTWARE ENGG (7.5)	CAPGMINI SENIOR SOFTWARE ENGG (7.5) _2023
54         Subhashree Dash         1902070075         LTTS         LTTS_2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA)_2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25)_2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25)_2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD_2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE_2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY_2023           65         Aryan Hota         1902070099         IMMENSPHERE         IMMENSPHERE_2023	52	Debi prasad parida	1902070073	INFOSYS SE	INFOSYS SE _2023
54         Subhashree Dash         1902070075         LTTS         LTTS_2023           55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA)_2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25)_2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25)_2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD_2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE_2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY_2023           65         Aryan Hota         1902070099         IMMENSPHERE         IMMENSPHERE_2023	53	SHREEPREET SAHU	1902070074	CAPGEMINI SE (5.75)	CAPGEMINI SE (5.75) _2023
55         Rajesh Patnaik         1902070076         TCS(NINJA)         TCS(NINJA)_2023           56         Sthitiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25)_2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.26)_2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD_2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE_2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY_2023           65         Aryan Hota         1902070099         GenC         GenC_2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023					
56         Shifiprajna Das         1902070077         CAPGEMINI SE (4.25)         CAPGEMINI SE (4.25) _2023           57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE _ 2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _2023           65         Aryan Hota         1902070089         GenC         GenC _2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _2023           67         Binaya Samantaray         1902070094         MARQUEE SEMICONDUCTOR         <					
57         AMRUTA SAHU         1902070080         Capgemini SE (4.25)         Capgemini SE (4.25) _ 2023           58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _ 2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _ 2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _ 2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _ 2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _ 2023           65         Aryan Hota         1902070089         GenC         GenC _ 2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _ 2023           67         Binaya Samantaray         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _ 2023           68         Meka Sandhya Gouri         1902070095         INCTURE <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
58         Sugriv kumar singh         1902070081         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE_2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25)_2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD_2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE_2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY_2023           65         Aryan Hota         1902070089         GenC         GenC_2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023           67         Binaya Samantaray         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           68         Rajdeepak Mahanto         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE	56				
59         Swarnamayee Biswal         1902070082         ACMEGRADE         ACMEGRADE _2023           60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _2023           65         Aryan Hota         1902070089         GenC         GenC _2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _DELOITTE _2023	57	AMRUTA SAHU	1902070080	Capgemini SE (4.25)	Capgemini SE (4.25) _2023
60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _ 2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _ 2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _ 2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _ 2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _ 2023           65         Aryan Hota         1902070089         GenC         GenC _ 2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _ 2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _ 2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _ 2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _ 2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _ DELOITTE _ DELOITTE _ DELOITTE	58	Sugriv kumar singh	1902070081	MARQUEE SEMICONDUCTOR	MARQUEE SEMICONDUCTOR _2023
60         Sushree Sibarpita Dey         1902070083         Capgeminin SE (4.25)         Capgeminin SE (4.25) _ 2023           61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _ 2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _ 2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _ 2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _ 2023           65         Aryan Hota         1902070089         GenC         GenC _ 2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _ 2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _ 2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _ 2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _ 2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _ DELOITTE _ DELOITTE _ DELOITTE	59	Swarnamayee Biswal	1902070082	ACMEGRADE	ACMEGRADE _2023
61         Jagat Jeeban Maharana         1902070084         AESS SOLUTIONS LTD         AESS SOLUTIONS LTD _2023           62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE _2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _2023           65         Aryan Hota         1902070089         GenC         GenC _2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _2023	60				
62         Subham kumar Das         1902070085         SCALEDGE         SCALEDGE_2023           63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25)_2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY_2023           65         Aryan Hota         1902070089         GenC         GenC_2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU_2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023					
63         Sriya Smruti Seth         1902070086         Capgemini SE (4.25)         Capgemini SE (4.25) _2023           64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _2023           65         Aryan Hota         1902070089         GenC         GenC _2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _2023					
64         Bijay Mundari         1902070088         SEMIKUN TEHCHNLOGY         SEMIKUN TEHCHNLOGY _2023           65         Aryan Hota         1902070089         GenC         GenC _2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE _2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU _2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR _2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE _2023					
65         Aryan Hota         1902070089         GenC         GenC_2023           66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU_2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023	63	Sriya Smruti Seth	1902070086	Capgemini SE (4.25)	Capgemini SE (4.25) _2023
66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU_2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023	64	Bijay Mundari	1902070088	SEMIKUN TEHCHNLOGY	SEMIKUN TEHCHNLOGY _2023
66         Prasanjit Rout         1902070091         IMMENSPHERE         IMMENSPHERE_2023           67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU_2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023	65	Aryan Hota	1902070089	GenC	GenC _2023
67         Binaya Samantaray         1902070093         ISERVEU         ISERVEU_2023           68         Rajdeepak Mahanto         1902070094         MARQUEE SEMICONDUCTOR         MARQUEE SEMICONDUCTOR_2023           69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE_2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023					
68 Rajdeepak Mahanto 1902070094 MARQUEE SEMICONDUCTOR MARQUEE SEMICONDUCTOR_2023 69 Meka Sandhya Gouri 1902070095 INCTURE INCTURE _2023 70 Akankshya Adhikari 1902070096 DELOITTE DELOITTE_2023					
69         Meka Sandhya Gouri         1902070095         INCTURE         INCTURE _2023           70         Akankshya Adhikari         1902070096         DELOITTE         DELOITTE_2023					
70 Akankshya Adhikari 1902070096 DELOITTE DELOITTE_2023	68	Hajdeepak Mahanto	1902070094	MAHQUEE SEMICONDUCTOR	MAHQUEE SEMICONDUCTOR _2023
	69	Meka Sandhya Gouri	1902070095	INCTURE	INCTURE _2023
71 SHRUTI AGRAWAL 1902070098 CAPGEMINI SE (4.25) CAPGEMINI SE (4.25)2023	70	Akankshya Adhikari	1902070096	DELOITTE	DELOITTE _2023
	71			CAPGEMINI SE (4.25)	
					,

72	Soumyashree Karan	1902070100	SEMIKUN TEHCHNLOGY	SEMIKUN TEHCHNLOGY _2023
73	AMRITA NANDA	1902070101	MARQUEE SEMICONDUCTOR	MARQUEE SEMICONDUCTOR _2023
74	Sanskruti Bhuyan	1902070102	DELOITTE	DELOITTE _2023
75	Smruti Snigdha Pani	1902070103	CAPGEMINI SE (4.25)	CAPGEMINI SE (4.25) _2023
76	YOGAMAYA MISHRA	1902070104	ISERVEU	ISERVEU _2023
77	Subhasish Pattnaik	1902070106	LTTS	LTTS _2023
78	Kunwar Dilshad Ali Khan	1902070107	GenC	GenC _2023
79	ANURAG S NAYAK	1902070109	IN2IT	IN2IT_2023
80	Sidhant Pattanaik	1902070110	DELOITTE	DELOITTE _2023
81	sillan kumar sahani	1902070114	SCALEDGE	SCALEDGE _2023
82	SUBHRANSU SEKHAR MOHANTY	1902070115	GenC Elevate	GenC Elevate _2023
83	SAI SAMARPITA	1902070116	ASICZEN TECHNOLOGIES	ASICZEN TECHNOLOGIES _2023
84	Nitish Kumar	1902070119	SCALEDGE	SCALEDGE _2023
85	Saswat Nayak	1902070120	HCL	HCL_2023
86	SATYA NARAYAN SAHOO	1902070122	GenC	GenC _2023
87	Ankshit Kumar Maji	1902070123	MARQUEE SEMICONDUCTOR	MARQUEE SEMICONDUCTOR _2023
88	T ABHISEKH SUBUDHI	1902070124	GLOBAL HITACHI	GLOBAL HITACHI _2023
89	Rupesh Acharya	1902070126	SCALEDGE	SCALEDGE _2023
90	SMRUTISIKHA PANIGRAHY	1902070128	TATA STEEL PPO	TATA STEEL PPO _2023
91	Aditya Prasad Panigrahy	1902070130	LTTS	LTTS _2023
92	Rishav Nanda	1902100027	INCTURE	INCTURE _2023
93	Malaya Ranjan Pati	2003070002	ACMEGRADE	ACMEGRADE _2023
94	Swayam Nayak	2003070003	HCL	HCL_2023
95	Rakesh Mahapatra	2003070007	COGNIZANT GENC(DN)	COGNIZANT GENC(DN) _2023
96	P SRINATH RAO	2003070008	LTTS	LTTS _2023
97	ISHA SINGH	2003070010	Byjus BDA (the learning app)	Byjus BDA (the learning app) _2023
98	suraj kumar mahapatra	2003070013	GenC	GenC _2023

Assessment Year : 2021-22 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appointment No		
1	Binit likhmania	1802070002	INFOSYS	INFOSYS _2022		
2	Abhilash Brahma	1802070003	DELOITTE	DELOITTE _2022		
3	HIMANSU SEKHAR PADHY	1802070005	GenC Select	GenC Select _2022		
4	G Sri Sai	1802070006	GenC Next Select	GenC Next Select _2022		
5	Manasis Das	1802070007	GenC Select	GenC Select _2022		
6	Rashmi Ranjan Sahoo	1802070008	GenC Select	GenC Select _2022		
8	K Aditya Satyanarayan Senapati	1802070009	GenC Select GenC Select	GenC Select _2022 GenC Select _2022		
9	Snigdharani Dash	1802070014	GenC Select	GenC Select _2022		
10	Sashikanta Sankhua	1802070015	INFOSYS	INFOSYS _2022		
11	Amrita Das	1802070016	GenC (DN)	GenC (DN) _2022		
12	Asish Anshuman Patra	1802070018	WIPRO	WIPRO _2022		
13	Ritika Dash	1802070022	WIPRO	WIPRO _2022		
14	Abhipsa Pati	1802070024	SIMFORM	SIMFORM_2022		
15	Ayush Agrawal	1802070025	WIPRO	WIPRO _2022		
16	RITESH PANDA	1802070027	GenC (DN)	GenC (DN) _2022		
17	Vikalp Mishra	1802070028	GenC Select	GenC (DN) _2022		
18	PRAKRITI ALOO BB BOB LEE	1802070029 1802070030	DELOITTE	LTTS _2022 DELOITTE _2022		
20	VISHNU SHANKAR BISWAL	1802070032	GenC Select	GenC Select _2022		
21	Yashraj	1802070033	Principal Global Services	Principal Global Services _2022		
22	N CH SHANMUKHA	1802070034	GenC Select	GenC Select _2022		
23	Chinmaya Bisoi	1802070036	GenC Select	GenC Select _2022		
24	Alister Ekka	1802070037	WIPRO	WIPRO _2022		
25	Suchi Sakshi Mishra	1802070038	GenC Elevate (DN)	GenC Elevate (DN) _2022		
26	Mrutyunjay kumar	1802070039	ISERVEU	ISERVEU _2022		
27	SATYA RANJAN NAYAK	1802070040	GenC Elevate (DN)	GenC Elevate (DN) _2022		
28	Aren Satpathy	1802070041	GenC Select	GenC Select _2022		
29	Aryan Dash	1802070043	GenC Select	GenC Select _2022		
30	Shivangee soni	1802070044	GenC Elevate Select	GenC Elevate Select _2022		
31	Soumyakanta swain	1802070045 1802070046	WIPRO GenC Select	WIPRO _2022		
33	Prajwal Padhy  Lokanath Parida	1802070046	WIPRO	GenC Select _2022 WIPRO _2022		
34	Sourav Sekhar Purohit	1802070049	GenC Elevate (DN)	GenC Elevate (DN) _2022		
35	Ankita Maharana	1802070050	GenC Elevate (DN)	GenC Elevate (DN) _2022		
36	Nibedita Tripathy	1802070051	GenC Select	GenC Select _2022		
37	Ashutosh Pattanaik	1802070052	ISERVEU	ISERVEU _2022		
38	Tanichha Bal	1802070054	IBM	IBM _2022		
39	Tapas Kumar Swain	1802070055	GenC Select	GenC Select _2022		
40	Mohit Kumar Khan	1802070057	GenC Elevate Select	GenC Elevate Select _2022		
41	Priyanka Rana	1802070058	IBM	IBM_2022		
42	Ankan Biswas	1802070061	GenC Elevate Select	GenC Elevate Select _2022		
43	Abhirup Mohanty	1802070062	XORIANT	XORIANT _2022		
44	Sanket Mishra Sukanya choudhury	1802070063 1802070064	GenC Elevate Select ISERVEU	GenC Elevate Select _2022 ISERVEU _2022		
46	Rupsita Sahoo	1802070066	L&T	L&T _2022		
47	Alok Ranjan Sahoo	1802070067	GenC Select	GenC Select _2022		
48	Debadatta Jena	1802070068	KREETI	KREETI_2022		
49	Sk Saif Ali	1802070069	LTTS	LTTS _2022		
50	Siddharth Padhi	1802070071	LTTS	LTTS _2022		
51	Subrat Mohanty	1802070072	TCS	TCS _2022		
52	Pratyush Kumar Mahapatra	1802070073	GenC Select	GenC Select _2022		
53	Prayas Daspattanayak	1802070074	IBM	IBM_2022		
54	Ranjan Mishra	1802070076	Marquee semiconductor	Marquee semiconductor _2022		
55	Partha Prateem Patra	1802070078	Tejas Networks	Tejas Networks _2022		
56 57	Rani Patra Anil Lenka	1802070079	BANK OF NEW YORK ISERVEU	BANK OF NEW YORK _2022 ISERVEU _2022		
58	Sidhant Patra	1802070082	GenC Elevate - Select	GenC Elevate - Select _2022		
59	T Anurodh	1802070084	GenC (DN)	GenC (DN) _2022		
60	Muskan Garg	1802070085	WIPRO	WIPRO _2022		
61	Satyasadhan Padhi	1802070087	GenC Select	GenC Select _2022		
62	Tirtha Ray	1802070089	GenC Select	GenC Select _2022		
63	Saheel Mahalik	1802070091	Principal Global Services	Principal Global Services _2022		
64	Abhishek Singh	1802070094	GenC Select	GenC Select _2022		
65	Swasti Subhasweta Sahoo	1802070095	GenC Elevate (DN)	GenC Elevate (DN) _2022		
66	Satish Kumar Padhi	1802070099	GenC (DN)	GenC (DN) _2022		
67	Sourav Nanda	1802070106	DELOITTE	DELOITTE _2022		
68	Supriya Behera	1802070107	GenC Select	GenC Select _2022		
69	Amreeta Priyadarshini	1802070109	GenC Select	GenC Select _2022		
70	Majhi Opel Baden	1802070114	WIPRO	WIPRO _2022		
71	Sameer Lakra	1802070115	ISERVEU	ISERVEU _2022		

72	Himanshu Sekhar Naik	1802070116	IBM	IBM _2022				
73	Kamal Lochan hembaram	1802070119	ISERVEU	ISERVEU _2022				
74	Asutosh Sahu	1802070121	GenC Select	GenC Select _2022				
75	V GAUTAM RAJU	1802070122	GenC Select	GenC Select _2022				
76	Rudrakshi Praveen Kumar	1802070123	GenC Select	GenC Select _2022				
77	Sibaprasad Ratha	1802070124	GenC Elevate Select	GenC Elevate Select _2022				
78	Jagannath Gouda	1802100014	IBM	IBM _2022				
79	Krishna Kumar	1903070001	INFOSYS	INFOSYS_2022				
80	Manish Kerketta	1903070002	ISERVEU	ISERVEU _2022				
81	Souvik Kabiraj	1903070004	FRONTROW	FRONTROW_2022				
82	Sarthak Tripathy	1903070005	GenC Select	GenC Select _2022				
83	BIBEKANANDA NAYAK	1903070006	ISERVEU	ISERVEU _2022				
84	Sk Noor Mohammad	1903070007	FRONTROW	FRONTROW_2022				
85	Daminee mishra	1903070008	ISERVEU	ISERVEU _2022				
86	Rajashree Malik	1903070009	PERFECTVIPS	PERFECTVIPS _2022				
87	Sidhesh Roshon Sahu	1903070013	ISERVEU	ISERVEU _2022				
Assessme	Assessment Year : 2020-21 (CAYm3)							

MARKET MARINE   1990/0024   0001271   000107	S.No	Student Name	Enrollment No	Employee Name	Appointment No
2000   Marian Marian   100000000   DELOTTE   DELOTTE   Zell	1	Abhijeet Parichha	1702070002		INFOSYS _2021
MARIAN MARIAN   DOSDOOG	2	•	1702070003		
4.1         Marinest MacMANUM         Integration         Record (CAMPAN)         COMMANY (CAMPAN)           5.         Addres Marin         1700/2009         NEGOS (CAMPAN)         COMMANY (CAMPAN)           6.         Adjac Confidency (CAMPAN)         1700/2009         PELOTTE (CAMPAN)         COMMANY (CAMPAN)           7.         Adjac Confidency (CAMPAN)         1700/2009         PELOTTE (CAMPAN)         COMMANY (CAMPAN)           8.         Adjac Confidency (CAMPAN)         1700/2001         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2001         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2001         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2001         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2001         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2002         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2002         COMMANY (CAMPAN)         COMMANY (CAMPAN)           1.         Adjac Confidency (CAMPAN)         1700/2002         COMMANY					
5         AMORRISH ALMAR NOWN         OPERATIONS         CONSIDERT         CONSIDERT         ACTIVATION           7         Ading Cole Places Sales         120070000         TOS	4	ABHISHEK AGRAWAL			
60 May Marker         Monto Marker         MONESTOR         MONESTOR         MICHANICA           11         Aligo Delmand Greys         100000001         CRG. TYS. JURI           12         Aligo Sama         10000001         DELOTTE         CRG. TYS. JURI           11         Aligh Sama         10000001         CRG. MICHAN         CRG. TYS. JURI           12         Aligh Markey         10000001         CRG. MICHAN         CRG. MICHAN           13         Anni Kumar Mahany         100000001         CRG. MICHAN         CRG. MICHAN           14         Anni Kumar Mahany         100000001         CRG. MICHAN         CRG. MICHAN           15         April Kumar Mahany         10000001         CRG. MICHAN         CRG. MICHAN           16         April Kumar Mahany         100000001         CRG. MICHAN         CRG. MICHAN           16         April Kumar Mahany         100000001         CRG. MICHAN         CRG. MICHAN           17         April Mahan Mahan         1000000001         CRG. MICHAN         CRG. MICHAN           18         Beral Revise         1000000001         CRG. MICHAN         CRG. MICHAN           19         Beral Revise         10000000000000         CRG. MICHAN         CRG. MICHAN           1					
7. May Com Personal Station         1700070008         TES. Del Control         TES. Del Co					
9 Mode Samo         1762070091         CELOTITE DEL DEL TITE DEL DEL TITE DEL					
9.1         Aje Namer Baho         100000000         CONDARANT         CONDARANT         CONDARANT         CONDARANT           11         Alman Sammar drigh         1700000014         CONDARANT         COND					
Membrane   Principle   Princ					
11.1         Amery Interview         1768/0016         COORAGNT         COORAGNT         COORAGNT           12.         Anis Name Valuedy         1760/0017         ACCISITURE         ACCISITURA         ACCISITURE         ACCISITURE         ACCISITURE         ACCISITURE         <					
1.00   Active Property   1000/1001   1000/ACMT   2001   1000					
1.1   Anie Kome Mecany					
A AND Age was					
Agricum Merey					
17000700000   CORNEWNT   CODINIZAMT_PD01			1702070018		COGNIZANT _2021
Marcon Beleves	15	Aparna Meher	1702070019	TCS	TCS _2021
Birst Das	16	Arpan Sathua Mahapatra	1702070020	COGNIZANT	COGNIZANT _2021
19	17	Ashutosh Behera	1702070026	INFOSYS	INFOSYS _2021
CHANDRASEHH-ART TANDIA	18	Bimal Das	1702070033	Infosys	Infosys _2021
Part	19	Biswajit Beuria	1702070035	COGNIZANT	COGNIZANT _2021
29	20	CHANDRASEKHAR TANDIA	1702070037	ACCENTURE	ACCENTURE _2021
23         Days Brant Nag         1702070040         VOBAFORE         VODAFORE 2021           24         Gaurar Jeda         1702070044         INFOSYS         INFOSYS 2021           25         Juga Kardo Selh         1702070044         Infosys         Infosys         2021           26         Jupidana Deep         1702070048         VODAFORE         VODAFORE         VODAFORE           26         K Mary Burgary         1702070049         COSNEZANT         COGNEZANT 2021           27         K Kanashah Prasad Nalk         1702070049         COSNEZANT         COGNEZANT 2021           28         K Karashah Prasad Nalk         1702070053         CONNEZANT         COGNEZANT 2021           31         K KLAMSETTY KAPLEEH         1702070053         CONNEZANT         COGNEZANT 2021           32         L Grun Kumar         1702070067         CONNEZANT         COGNEZANT 2021           34         Nimmare Machiner         1702070062         DELOTTE 2021           34         Nimmare Machiner         1702070062         DELOTTE 2021           34         Nimmare Machiner         1702070062         DELOTTE 2021           34         Nimmare Machiner         1702070064         DELOTTE 2021           35         Nigle Niedella	21	Likhita Chinnari	1702070038	COGNIZANT	COGNIZANT _2021
24	22	Dibya Ranjan Sahu	1702070039	INFOSYS	INFOSYS _2021
24	23	Divya Bharti Nag	1702070040	VODAFONE	VODAFONE _2021
25         Jugal Kishor Seih         1702070044         Informys         Informys         2021           28         Jundarina Deep         1702070044         VODAPCINE         OCORMANT 2021         227         K Goden         1702070047         COGREZANT         COGNEZANT 2021         228         A Karbar Brasad Naik         1702070049         COGREZANT         COGNEZANT 2021         221         C SEIN MARTIN         1702070051         DELOTTE         DELOTTE         DELOTTE         2021         DELOTTE         DELOTTE         DELOTTE         DELOTTE         2021         DELOTTE         DEL		<u> </u>			
29					
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28         K. Marijuki Bhaujawi         1702070047         COGNIZANT         COGNIZANT         COGNIZANT           29         Kamakkan Prasad Nak         1702070048         COGNIZANT         COGNIZANT         COGNIZANT         2021           31         Kartham Maharita         1702070053         COGNIZANT         COGNIZANT         COGNIZANT         2021           32         L Srituri Kumar         1702070053         COGNIZANT         COGNIZANT         2021           34         Namari Shehh         1702070069         OSCO         OSCO Q221         1           34         Nimalya sekhar sahoo         1702070062         DELOTITE         DELOTITE         DELOTITE 2021           35         Nayatee Nibodia Parda         1702070063         Milosya         Islosya         2021           37         Palanti Sabudri Ray         1702070066         DELOTITE         DELOTITE 2021           38         Polasi Shivasi         1702070066         DELOTITE         DELOTITE 2021           39         Pracili pive mishra         1702070066         OSCNIZANT         COGNIZANT 2021           40         Pracili pive mishra         1702070076         COGNIZANT         COGNIZANT 2021           41         Pracili pive mishra         1702070076					
29   Kamalesha Prasad Naik   1792070049   COGNIZANT   COGNIZANT   2021					
Name					
SILLAMSETTY KAPILESH					
2.5   L. Sritun Kumur					
33   Maamini Steikh   1702070059					
Nemalya sekhar sahoo					
1702070064   DELOTTE   DELOTTE   DELOTTE   DELOTTE   DELOTTE   2021		Maamim Sheikh	1702070059	CISCO	CISCO _2021
Palabi subudri Ray	34	Nirmalya sekhar sahoo	1702070062	DELOITTE	DELOITTE _2021
Pamini Vibhash   1702070066   DELOITTE   DELOITTE   DELOITTE   2021	35	Niyatee Nibedita Panda	1702070064	DELOITTE	DELOITTE _2021
Polaki Shivani	36	Pallabi subudhi Ray	1702070065	Infosys	Infosys _2021
Prachi priya mishra	37	Pamini Vibhash	1702070066	DELOITTE	DELOITTE _2021
Prachishree singh   1702070089   VODAFONE   VODAFONE   VODAFONE   2021	38	Polaki Shivani	1702070067	COGNIZANT	COGNIZANT _2021
Pradyum kumar singh	39	Prachi priya mishra	1702070068	COGNIZANT	COGNIZANT _2021
PRAGYAN PRAMITA HOTA   1702070071   ICT HEALTH CARE   ICT HEALTH CARE   2021	40	Prachishree singh	1702070069	VODAFONE	VODAFONE _2021
Prakash Kumar Sethy   1702070072   SKOLAR   SKOLAR_2021	41	Pradyum kumar singh	1702070070	GenC Next	GenC Next _2021
44         PRASANT KANSARI         1702070074         COGNIZANT         COGNIZANT 2021           45         Prathi Rajesh         1702070075         COGNIZANT         COGNIZANT 2021           46         priyadarsani panda         1702070077         COGNIZANT         COGNIZANT 2021           47         Priyanka Priyadarsini Swain         1702070078         COGNIZANT         COGNIZANT 2021           48         Rashmirokha Soron         1702070083         COGNIZANT         COGNIZANT 2021           50         Sekhar Mishra         1702070090         COGNIZANT         COGNIZANT 2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT 2021           52         Shibaji Sahu         1702070092         COGNIZANT         COGNIZANT 2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE 2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT 2021           55         Smuliranjan Biswal         1702070096         COGNIZANT         COGNIZANT 2021           56         Soumik saswat patnak         1702070100         COGNIZANT         COGNIZANT 2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOI	42	PRAGYAN PRAMITA HOTA	1702070071	ICT HEALTH CARE	ICT HEALTH CARE _2021
45         Prathi Rajeeh         1702070075         COGNIZANT         COGNIZANT _2021           46         priyadarsani panda         1702070077         COGNIZANT         COGNIZANT _2021           47         Priyanka Priyadarsini Swain         1702070078         COGNIZANT         COGNIZANT _2021           48         Rashmirekha Soren         1702070083         COGNIZANT         COGNIZANT _2021           49         Sarhak Sahoo         1702070097         COGNIZANT         COGNIZANT _2021           50         Sekhar Mishra         1702070099         COGNIZANT         COGNIZANT _2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT _2021           52         Shbaji Sahu         1702070092         COGNIZANT         COGNIZANT _2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE _2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT _2021           55         Smultranjan Biswal         1702070097         TCS         TCS _2021           56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT _2021           57         SOUMAYA PRATIK BEHERA         1702070101         DELOITT	43	Prakash Kumar Sethy	1702070072	SKOLAR	SKOLAR _2021
45         Prathi Rajeeh         1702070075         COGNIZANT         COGNIZANT _2021           46         priyadarsani panda         1702070077         COGNIZANT         COGNIZANT _2021           47         Priyanka Priyadarsini Swain         1702070078         COGNIZANT         COGNIZANT _2021           48         Rashmirekha Soren         1702070083         COGNIZANT         COGNIZANT _2021           49         Sarhak Sahoo         1702070097         COGNIZANT         COGNIZANT _2021           50         Sekhar Mishra         1702070099         COGNIZANT         COGNIZANT _2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT _2021           52         Shbaji Sahu         1702070092         COGNIZANT         COGNIZANT _2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE _2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT _2021           55         Smultranjan Biswal         1702070097         TCS         TCS _2021           56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT _2021           57         SOUMAYA PRATIK BEHERA         1702070101         DELOITT	44	PRASANT KANSARI	1702070074	COGNIZANT	COGNIZANT 2021
Priyadarsani panda					_
47         Priyanka Priyadarsini Swain         1702070078         COGNIZANT         COGNIZANT _2021           48         Rashmirekha Soren         1702070083         COGNIZANT         COGNIZANT _2021           49         Sarthak Sahoo         1702070087         COGNIZANT         COGNIZANT _2021           50         Sekhar Mishra         1702070090         COGNIZANT         COGNIZANT _2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT _2021           52         Shbaji Sahu         1702070092         COGNIZANT         COGNIZANT _2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE _2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT _2021           55         Smruttranjan Biswal         1702070109         COGNIZANT         COGNIZANT _2021           56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT _2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE _2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE _2021           59         Sovit Kumar Acharya         1702070110		·			
48         Rashmirekha Soren         1702070083         COGNIZANT         COGNIZANT 2021           49         Sarthak Sahoo         1702070087         COGNIZANT         COGNIZANT 2021           50         Sekhar Mishra         1702070090         COGNIZANT         COGNIZANT 2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT 2021           52         Shibaji Sahu         1702070092         COGNIZANT         COGNIZANT 2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE 2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT 2021           55         Smrutiranjan Biswal         1702070097         TCS         TCS 2021           56         Soumik saswat pathalk         1702070109         COGNIZANT         COGNIZANT 2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE 2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE 2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU 2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR 2021 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
49         Sarthak Sahoo         1702070087         COGNIZANT         COGNIZANT         2021           50         Sekhar Mishra         1702070090         COGNIZANT         COGNIZANT         2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT         2021           52         Shibaji Sahu         1702070092         COGNIZANT         COGNIZANT 2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE 2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT 2021           55         Smrutiranjan Biswal         1702070097         TCS         TCS 2021           56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT 2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE 2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE 2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU 2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR 2021           61         Sulekh Kumar Misra         1702070113		· · · ·			
50         Sekhar Mishra         1702070090         COGNIZANT         COGNIZANT _2021           51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT _2021           52         Shibaji Sahu         1702070092         COGNIZANT         COGNIZANT _2021           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE _2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT _2021           55         Smrutiranjan Biswal         1702070097         TCS         TCS _2021           56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT _2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE _2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE _2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU _2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR _2021           61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT _2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
51         Shad jafar azmi         1702070091         COGNIZANT         COGNIZANT					
52         Shibaji Sahu         1702070092         COGNIZANT         COGNIZANT (2021)           53         Shyama Prasad Dash         1702070095         DELOITTE         DELOITTE_2021           54         Siddharth Suman rath         1702070096         COGNIZANT         COGNIZANT_2021           55         Smrutiranjan Biswal         1702070097         TCS         TCS_2021           56         Soumik saswat pathaik         1702070100         COGNIZANT         COGNIZANT_2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE_2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE_2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU_2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR_2021           61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT_2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT_2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT_2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZAN					
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56         Soumik saswat patnaik         1702070100         COGNIZANT         COGNIZANT _2021           57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE _2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE _2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU _2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR _2021           61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT _2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT _2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT _2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITT					
57         SOUMYA PRATIK BEHERA         1702070101         DELOITTE         DELOITTE2021           58         Soumya Ranjan Das         1702070102         DELOITTE         DELOITTE2021           59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR2021           61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS2021           66         Uttpati Sahu         1702070120         TCS         TCS2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE2021	55	Smrutiranjan Biswal	1702070097	TCS	TCS _2021
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59         Sovit Kumar Acharya         1702070105         ISERVEU         ISERVEU_2021           60         Sujata Dip         1702070110         SKOLAR         SKOLAR_2021           61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT_2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT_2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT_2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT_2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS_2021           66         Uttpati Sahu         1702070120         TCS         TCS_2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE_2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE_2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE_2021	57	SOUMYA PRATIK BEHERA	1702070101	DELOITTE	DELOITTE _2021
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61         Sulekh Kumar Misra         1702070111         COGNIZANT         COGNIZANT _2021           62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT _2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT _2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE _2021	59	Sovit Kumar Acharya	1702070105	ISERVEU	ISERVEU_2021
62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT _2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT _2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE _2021	60	Sujata Dip	1702070110	SKOLAR	SKOLAR _2021
62         Suraj Kumar Gupta         1702070113         COGNIZANT         COGNIZANT _2021           63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT _2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE _2021	61	Sulekh Kumar Misra	1702070111	COGNIZANT	COGNIZANT _2021
63         Swati Sahu         1702070115         COGNIZANT         COGNIZANT _2021           64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE _2021	62	Suraj Kumar Gupta	1702070113	COGNIZANT	
64         Swetaparna Moharana         1702070117         COGNIZANT         COGNIZANT _2021           65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS _2021           66         Uttpati Sahu         1702070120         TCS         TCS _2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE _2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE _2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE _2021		· · · · · · · · · · · · · · · · · · ·			
65         Usha Rani Mishra         1702070119         PERFECT VIPS         PERFECT VIPS_2021           66         Uttpati Sahu         1702070120         TCS         TCS_2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE_2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE_2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE_2021					
66         Uttpati Sahu         1702070120         TCS         TCS_2021           67         Asutosh Rath         1702070121         DELOITTE         DELOITTE_2021           68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE_2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE_2021					
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68         Prabhakar Bisoyi         1702070122         DELOITTE         DELOITTE_2021           69         Rohit Kumar Das         1702070123         DELOITTE         DELOITTE_2021					
69 Rohit Kumar Das 1702070123 DELOITTE DELOITTE_2021					
70 SAKALABAKTULA PREMCHAND 1702070124 COGNIZANT COGNIZANT_2021					
	70	SAKALABAKTULA PREMCHAND	1702070124	COGNIZANT	COGNIZANT _2021
71         Subhasish Das         1702070125         COGNIZANT         COGNIZANT_2021	71	Subhasish Das	1702070125	COGNIZANT	COGNIZANT _2021

72	Tanmaya prasad Mangaraj	1702070126	COGNIZANT	COGNIZANT _2021
73	Sanket Pati	1702070127	ACCENTURE	ACCENTURE _2021
74	Neha Gupta	1702072128	COGNIZANT	COGNIZANT _2021
75	Shanti Rani Rath	1803070023	TCS	TCS_2021

4.5 Professional Activities (20) Total Marks 20.00

# $\textbf{4.5.1 Professional societies/chapters and organizing engineering events} \ (5)$

- 1. The Department of Electronics and Telecommunication Engineering is having a Professional society in the name of "Electronics and Telecommunication Society". The society organizes its annual technical festival in the name of "TECHTRONIX" each year which includes various technical events like Circuit model presentation, poster presentation, Hackathon, Technical quiz competition, Coding competition etc. Time to time the society also organizes Invited Guest Lectures, online technical talks by distinguished speakers from various industries and academia.
- 2. The Veer Surendra Sai Space innovation centre (VSSSIC) under VSSUT technical society is formed in collaboration with ISRO to promote R&D in space technology through industry as well as academia.

  The objective of this Space Innovation Research Lab is to encourage the students in research and development in the domain of Space Science and Technology at VSSUT and other Institutes within this region. Faculty coordinators are Prof. H. K. Sahoo, Dr. Konhar, Dr. N. Patel, Dr. S. Panda, Dr.R panigrahi.
- 3. IEEE student branch chapter at VSSUT, wasformed to promote excellence in the field of technical education apart from class room teaching and to connect with the student community worldwide in a single platform. Faculty coordinator of IEEE student branch chapter at VSSUT is Prof. H. K. Sahoo.

## 4.4.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

- Souvenir for Golden Jubilee ceremony: The Golden Jubilee ceremony (1972-2022) was celebrated in the Department on 29<sup>th</sup> January 2023. The objective was to update knowledge through technical talks and discussions from the alumni of Dept. of ETC. A souvenir is published on this occasion.
- Techtronix It is the souvenir of annual technical festival (Techtronix) of the Department which is published every year. The objective is to publish students project models, poster models and abstracts of other technical events organized in the annual technical festival.

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

Institute Marks : 10.00

e - NBA

Students are encouraged to participate in different inter-institute events and activities during theircourse of study. Students participated in events organised during annual tech fest SAMAVESH, VASSAUNT etc.

SI.No	Event	Team members/ Individual	Awards
1	Robo War	Chinmay Priyanshu	Winner
2	Rhapsody quiz competition- NIT Rourkela	Hitesh Kumar jena	Team -3rd prize
3	IIRS,ISRO	Debansi Patnaik	participated in the online event on the topic "Geoprocessing with python
4	DEBUG BATTLE, VASSAUNT	Naren Pradhan	Team-winner
5	Hackathon - code4Odisha, SOA, BBSR	B Ashish Kumar Patro	Finalists
6	ETHOS Ideathon 2022, IIMSambalpur	B Ashish Kumar Patro	Finalists
7	Drone Technology, NIT, Rourkela	Rudra Prasad swain Chiranjibi Biswal	Successfully made a drone
	3(o) composite Technical Company NCC, Burla		Photography - 2nd position
	Startup Odisha Yatra 2.0' 2022		Top 10 Finalist
8	IEEE BBDITM student branch in collaboration with the IEEE BBDTIM signal processing society.	Arpita Maheswari Singh	winner all India online Calligraphy competitions
9	World Space Week, SDSC SHAR, ISRO	Famiya Tasneem	Team - 2nd prize
10	4th chapter convention on Quality concept, ,QCFI Bhubaneswar chapter	T ACHYUTA PATRO	GOLD AWARD
11	Smart India Hackathon 2022	Asmi Jena	Winner
	L&T Techgium Hackathon 2022		Semi-finalist
12	Space Week event hosted by ISRO- Indian Space Research Institute at Shree Jagannath Sanskrit University Puri.	Sai Nandini	Team -3rd position
	IMC, 2023, New Delhi		Participated and presented 5G models to solve mining problems.
	Innovision 2022 , NIT Rourkela		Finalist
13	IC3S-2023, KIIT, BBSR	Susmita Murmur, Harapriya Sethi	Published a paper in IEEE conference

Also, students are actively involved in different clubs under differentsociety

- 1. Cultural Society- VIBRANZ Club, Souls Club, EMOTICA Club, Art and Photography Club, Literary society etc

- 1. Cultural Society- VIBHANZ Citub, Souls Citub, EMOTICA Citub, Art and Photography
  2. Technical Society- VSSSIC, Robotics, E-cell, Idea citub etc.
  3. Sports Society Yoga, Illumina etc.
  4. SSG Society Sanskar Kendra, Awareness programme, blood donation camp etc.
  5. NSS and NCC activities.

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 165.65

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Sr. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)	Date of Leaving	IS HOD?
1	RUTUPARNA PANDA	AGPPP2777E	ME/M. Tech and PhD	11/11/1998	SIGNAL PROCESSING	51	3	0	Professor	20/06/2003	20/06/1986	Regular	No	30/06/2023	No
2	SANJAY AGRAWAL	ADTPA9441K	ME/M. Tech and PhD	18/04/2015	IMAGE PROCESSING	31	2	4	Professor	18/04/2018	27/01/2006	Regular	Yes		No
3	HARISHKUMARSAHOO	ASGPS9399N	ME/M. Tech and PhD	11/10/2014	ELECTRONICS SYSTEMS AND COMMUNICATION	17	6	4	Professor	01/11/2019	01/11/2016	Regular	Yes		Yes
4	DEBASIS MISHRA	AHLPM1600L	ME/M. Tech and PhD	12/08/2008	MICROWAVEENGINEERING	7	3	4	Associate Professor	16/05/2015	07/09/2001	Regular	Yes		No
5	KABIRAJ SETHI	ARCPS6544A	ME/M. Tech and PhD	04/08/2014	VLSI	7	2	1	Associate Professor	16/05/2015	26/09/2001	Regular	Yes		No
6	ARUNANSHU MAHAPATRO	ANBPM7734M	ME/M. Tech and PhD	10/09/2013	COMMUNICATION SYSTEMS	25	6	1	Associate Professor	28/10/2016	28/10/2016	Regular	Yes		No
7	DIPTIMAYEE KONHAR	AVDPK3856C	ME/M. Tech and PhD	03/09/2021	ANTENNA ENGINEERING	8	2	0	Assistant Professor		30/10/2010	Regular	Yes		No
8	BIKRAMADITYA DAS	BEVPD2105K	ME/M. Tech and PhD	02/08/2016	WIRELESS COMMUNICATION	14	2	1	Assistant Professor		08/08/2011	Regular	Yes		No
9	SUVENDU NARAYAN MISHRA	AKIPM0691H	ME/M. Tech and PhD	24/06/2021	ANTENNA ENGINEERING	8	2	0	Assistant Professor		12/08/2011	Regular	Yes		No
10	BANDAN KUMAR BHOI	AYDPB1071H	ME/M. Tech and PhD	05/08/2020	VLSI & Embedded Systems	7	2	0	Assistant Professor		08/09/2011	Regular	Yes		No
11	ADITYA KUMAR HOTA	ACPPH7273R	M.E/ M.Tech ME/M.	07/07/2010	Communication Systems Engineering	3	0	0	Assistant Professor		06/12/2012	Regular	Yes		No
12	SHEEJA K. L.	AIHPL7278C	Tech and PhD	02/03/2015	ANTENNA ENGINEERING	6	2	0	Assistant Professor		29/05/2014	Regular	Yes		No
13	BIJAY KUMAR SA	CRCPS8737B	M.E/ M.Tech	07/02/2013	Signal Processing	2	0	0	Assistant Professor		30/05/2014	Regular	Yes		No
14	ANAND KUMAR BEHERA	AQOPB9627J	ME/M. Tech and PhD	27/07/2023	ANTENNA ENGINEERING	9	0	0	Assistant Professor		31/05/2014	Regular	Yes		No
15	MADHUSMITA PANDA	AUOPP0515H	ME/M. Tech and PhD	24/03/2021	Computer Science & Engineering	5	1	0	Assistant Professor		02/06/2014	Regular	Yes		No
16	MANAS RANJAN JENA	AHIPJ9851D	ME/M. Tech and PhD	14/03/2020	VLSI	3	3	0	Assistant Professor		06/06/2014	Regular	Yes		No
17	SAKAMBARI MAHAPATRA	BJFPM6524G	ME/M. Tech and PhD	25/03/2023	Communication System Engg.	7	0	0	Assistant Professor		20/06/2014	Regular	Yes		No
18	ASHIS KUMAR SHARMA	CAIPS6423D	ME/M. Tech and PhD	17/07/2015		10	3	0	Assistant Professor		23/08/2014	Regular	Yes		No
19	SUBRAT KUMAR SETHI	BYYPS8386Q	M.E/ M.Tech	03/07/2013	Communication System Engg.	4	0	0	Assistant Professor		02/11/2016	Regular	Yes		No
20	SANGEETA SA	FHAPS8147A	M.E/ M.Tech	01/10/2011	Telecommunication Engg	3	0	0	Assistant Professor		18/06/2014	Regular	Yes		No
21	TUNIRANI NAYAK	AEUPN4565M	M.E/ M.Tech	22/06/2011	Communication System Engg.	2	0	0	Assistant Professor		22/05/2015	Regular	Yes		No
22	RADHASHYAMPATRA	BNPPP2390R	M.E/ M.Tech	28/08/2013	WIRELESS COMMUNICATION	6	0	0	Assistant Professor		06/09/2017	Regular	Yes		No
23	MANORANJAN PRADHAN	AIAPP4199D	ME/M. Tech and PhD	13/06/2013	VLSI	13	3	1	Associate Professor	16/05/2015	29/08/2001	Regular	Yes		No
24	NILAMANI BHOI	AIYPB4549D	ME/M. Tech and PhD	30/06/2009	Image Processing	3	2	2	Associate Professor	06/10/2016	11/08/2011	Regular	Yes		No
25	DHARAMVIR KUMAR	BDJPK8973K	M.E/ M.Tech	07/06/2011	VLSI	2	0	0	Assistant Professor		16/06/2014	Regular	Yes		No
26	RASHMITA SAHU	DKRPS2656N	M.E/ M.Tech	25/09/2010	ANTENNA ENGINEERING	3	0	0	Assistant Professor		02/06/2014	Regular	Yes		No
27	LOPAMUDRA GHADEI	BAAPG3696M	M.E/ M.Tech	06/08/2011	Communication System Engg.	1	0	0	Assistant Professor		20/06/2014	Regular	Yes		No
28	HRUDANANDA PRADHAN	BABPP8888B	ME/M. Tech and PhD	09/01/2023	ANTENNA ENGINEERING	6	0	0	Assistant Professor		04/10/2010	Regular	Yes		No
29	BISWA BINAYAK MANGARAJ	AKEPM4236A	ME/M. Tech and PhD	21/03/2012	MICROWAVEENGINEERING	13	1	2	Associate Professor	05/01/2016	06/01/2006	Regular	Yes		No
5.1 5	Student-Faculty Ratio (SF	<b>(D)</b> (20)										Total M	arks 16.00		J

Total Marks 16.00

Institute Marks : 16

## UG

No. of UG Programs in the Department 1

	B.Tech in Electronics and Telecommunication Engineering												
			CAY			CAYm1		CAYm2					
Year of			(2023-24)			(2022-23)		(2021-22)					
Study	Sanctio Intake	n	Actual admitted through lateral entry students	Sanction Actual admitted through la students		Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students					
2nd Year	120		12	120 12		12	120	12					
3rd Year	120		12	120		12	120	12					
4th Year	120		12	120		12	120	12					
Sub-Total	al 360 36			360		36	360	36					
Total	I 396						396						
Grand Total 396			396		396								

## PG

No. of PG Programs in the Department 3

No. of PG Programs i	ii tile Departillelit	١						
M.Tech CSE								
V			CAY(2023-24)		CAYm1(2022-23)		CAYm2 (2021-22)	
Year of Study		Sanction Intake		Sanction Intake		Sanction Intake		
1st Year		18		18		18		
2nd Year		18		18		18		
Total		36		36		36		
M.Tech RFMWE								
V		CAY(2023-24)		CAYm1(2022-23)		CAYm2 (2021-22)		
Year of Study		Sanction Intake		Sanction Intake		Sanction Intake		
1st Year		18	18		18		18	
2nd Year		18			18		18	
Total		36			36		36	
				М	Tech VLSISP			
Year of Study		CAY(2023-24)		CAYm1(2022-23)		CAYm2 (2021-22)		
rear or Study		Sanction Intake		Sanction Intake		Sanction Intake		
1st Year	st Year 18			18		18		
2nd Year 18		18		18		18		
Total		36			36		36	
Grand Total	108			108		10	8	

# SFR

No. of UG Programs in the Department | 1

No. of PG Programs in the Department | 3

Description	CAY(2023-24)		CAYm1 (2022-23)		CAYm2 (2021-22)	
Total No. of Students in the Department(S)	504 (UG+PG) students	Sum total of all	504 (UG+PG) students	Sum total of all	504 (UG+PG) students	Sum total of all
No. of Faculty in the Department(F)	28	F1	29	F2	29	F3
Student Faculty Ratio(SFR)	18.00	SFR1=S1/F1	17.38	SFR2=S2/F2	17.38	SFR3=S3/F3
Average SFR	17.59	SFR=(SFR1+SFR2+SFR3)/3				
F=Total Number of Faculty Members in the Department (excluding first year faculty)						

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

- following will be ensured in case of contractual faculty:

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

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2023-24)	28	0
CAYm1(2022-23)	29	0
CAYm2(2021-22)	29	0

Average SFR for three assessment years: 17.59

Assessment SFR: 16

5.2 Faculty Cadre Proportion (20) Total Marks 20.00

Institute Marks : 20.00

Year	Professors		Associate Professors		Assistant Professors	
Teal	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	2.00	2.00	5.00	6.00	16.00	20.00
CAYm1(2022-23)	2.00	3.00	5.00	6.00	16.00	20.00
CAYm2(2021-22)	2.00	3.00	5.00	6.00	16.00	20.00
Average Numbers	2.00	2.67	5.00	6.00	16.00	20.00

 $\label{eq:Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) * 0.6] + [ (AF3 / RF3) * 0.4] ] * 10 : 20.00}$ 

## 5.3 Faculty Qualification (20)

Total Marks 17.65 Institute Marks: 17.65

	x	Y	F	$FQ = 2 \times [(10X + 4Y) / F)]$
2023-24(CAY)	19	9	25.00	18.08
2022-23(CAYm1)	17	12	25.00	17.44
2021-22(CAYm2)	17	12	25.00	17.44

Average Assessment: 17.65

5.4 Faculty Retention (10)

Institute Marks: 10.00

Description	2022-23 (CAYm1)	2023-24 (CAY)
No of Faculty Retained	29	28
Total No of Faculty	25	25
% of Faculty Retained	116	112

Average: 114.00

Assessment Marks: 10.00

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

Total Marks 10.00

65 of 110

Institute Marks : 10.00

SI. No.	Name of Faculty Member	Specialization	Total no. of Publications [Journal/Conf./
			Book Chapter/]
1.	Dr. S Agrawal	Communicatio n System Engineering	65
2	Dr. H. K. Sahoo	Electronic Systems & Communicatio	55
3	Dr. D Mishra	Microwave Engineering	45
4	Dr. M. R Pradhan	FPGA basedVLSI Design, Microprocessor	48
5	Dr. K Sethi	Communicatio n System Engineering/ VLSI Design	30
6	Dr. N Bhoi	Image Processing	41
7	Dr. A Mohaptra	Communicatio n Systems Engineering	52
8	Dr. B.B Mangaraj	Antenna Engineering	83
9	Dr. H Pradhan	Microwave and Antenna Engineering	19
10	Dr. D Konhar	Antenna Engineering	19
11	Dr. B Das	Wireless Communicatio n	56
12	Dr. B.K. Bhoi	VLSI Design and Embedded System	37
13	Dr. S. N Mishra	Communicatio n Systems Engineering	10
14	Mr. A. K Hota	Communicatio n System Engg.	7
15	Dr. M Panda	Underwater Communicatio n and Control	6
16	Ms. R Sahu	Communicatio n system Engineering	6
17	Mrs. L Ghadei	Digital signal processing	3
18	Dr. S Mahaptra	Communicatio n System Engineering	8
19	Dr. M. R Jena	Microelectronic s and VLSI Design	7
20	Mr. D Kumar	VLSI Design	3
21	Mr. A.K Behera	Tele Communicatio n Engineering	11
22	Dr. Sheeja K. L	RF and Microwave	27
23	Ms. S Sa	Telecommunic ation	3
24	Mr B. K Sa	Communicatio n & Signal Processing	4
25	Dr. A. K Sharma	Communicatio n Systems	26
26	Ms. T Nayak	Image and Signal Processing	3
27	Mr. S K Sethi	Communicatio n Engineering	8
28	Mr. R Patra	Signal Processing, Digital Techniques	7

5.6 Innovations by the Faculty in Teaching and Learning  $\left(10\right)$ 

Total Marks 10.00

Institute Marks : 10.00

Faculty members employ various teaching and learning processes to effectively engage students and facilitate their learning. Here are some common approaches adopted by faculty members:

- 1. Lectures: Lectures are a traditional teaching method where instructors deliver information to students verbally. They generally use visual aids such as slides or whiteboards to enhance comprehension.
- 2. Discussions: Faculty members often facilitate discussions to encourage active participation and critical thinking among students. This can involve group discussions, debates, or Socratic questioning.
- 3. Active Learning: Active learning techniques involve students in the learning process through activities such as problem-solving, case studies, role-playing, and handson experiments.
- 4. Formative Assessment: Faculty members use formative assessment techniques such as quizzes, polls, class discussions, or concept mapping to enhance student understanding and provide timely feedback for improvement.
- 5. Flipped Classroom: In a flipped classroom model, students engage with course materials outside of class e.g. videos lectures by NPTEL, SWAYAM etc.
- 6. Experiential Learning: Experiential learning involves real-world applications of concepts through internships, fieldwork, service-learning projects, or simulations.
- 7. Reflective Practice: Faculty members encourage students to reflect on their learning experiences, strengths, weaknesses, and areas for improvement through self-assessment, journals, conferences, short term courses.

 $\textbf{5.7 Faculty as participants in Faculty development/training activities/STTPs} \ (15)$ 

Total Marks 15.00

Institute Marks: 15.00

N	Max 5 Per Faculty				
Name of the faculty	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(CAYm3		
Madhusmita Panda	5.00	5.00	5.00		
Subrat Kumar Sethi	5.00	5.00	5.00		
Bijay Kumar Sa	5.00	5.00	5.00		
Sheeja K. L.	5.00	5.00	5.00		
Rasmita Sahu	5.00	5.00	5.00		
Lopamudra Ghadei	5.00	5.00	5.00		
Hrudananda Pradhan	5.00	5.00	5.00		
Ashish Kumar Sharma	3.00	5.00	5.00		
Diptimayee Konhar	3.00	5.00	5.00		
Bandan Kumar Bhoi	3.00	5.00	5.00		
Radhashyam Patra	3.00	3.00	3.00		
Tunirani Nayak	5.00	5.00	5.00		
Anand Kumar Behera	3.00	3.00	3.00		
Harish Kumar Sahoo3	3.00	3.00	3.00		
Arunanshu Mahapatro	3.00	3.00	3.00		
Suvendu Narayan Mishra	5.00	5.00	5.00		
Sum	66.00	72.00	72.00		
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	25.00	25.00	25.00		
Assessment [3*(Sum / 0.5RF)]	15.84	17.28	17.28		

Average assessment over 3 years: 15.00

5.8 Research and Development (75)

Total Marks 57.00

5.8.1 Academic Research (20) Institute Marks: 20.00

A cade microse archincludes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number o fquality publications in refereed/SCIJournals,citations,Books/BookChaptersetc.(15)
- Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)Allrelevantdetailsshall be mentioned.

Chapters et	С			
S.No.	Year	No. Peer Review Journal (SCI/SCIE/ESCI/ Scopus)	No. of Conference Proceedings	No. of Book Chapters
1	2019-20	26	26	6
2	2020-21	34	27	5
3	2021-22	46	36	3
4	2022-23	32	24	6
5	2023-24	40	18	5

Number of facult	Number of faculty received PhD Degree					
	Asse	ssment Year				
2023-2024	2022-2023	2021-2022	2020-2021	2019-2020		
-	2	1	3	-		

Number of PhD Degree Awarded					
Assessment Year					
2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	
1	4	5	4	2	

5.8.2 Sponsored Research (20) Institute Marks: 20.00

### 2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Development of hardware setu	3years	IITGTIDF, DST, Govt. of India	4330000.00
Development of real time auto	3 years	DST-SERBSURE, Govt. of Inc	2999940.00
			Total Amount(X): 7329940.00

## 2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
FPGA Based power quality es	3 years	DST, Govt. of Odisha	998000.00
Inspection of wall using coope	2 years	OURIIP, Govt. of Odisha	488000.00
UGC-BSR Research Start up	3years	UGC, Govt. of India	600000.00
			Total Amount(Y): 2086000.00

## 2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)

Cumulative Amount(X + Y + Z) =

5.8.3 Development activities (15) Institute Marks: 15.00

## Research Laboratories

#### 1. EDA Laboratory

Researchers can utilize EDA laboratory facilities to design and simulate integrated circuits using industry-standard Electronic Design Automation (EDA) software tools. This includes designing digital, analog, and mixed-signal circuits, as well as conducting simulations to verify circuit functionality, performance, and reliability.

The main focused research areas in this domain are:

- · Embedded System Design
- Analog IC Design
- Digital IC Design
- · System on Chip Design

## 2. Microwave & Radiation Laboratory

The laboratory provides training and educational opportunities for students, researchers, and industry professionals in the field of microwave and radiation engineering. The laboratory serves as a hub for applied research and development in microwave

and radiation technologies.

The research area in this domain includes:

- Antenna Design and Optimization
- Microwave circuits and Components
- Microwave Imaging and Sensing
- Wave guide and Transmission Lines

### 3. Wireless Communication Laboratory

The laboratory helps the faculty members and research scholars to focus on designing and optimizing wireless sensor networks for applications in environmental monitoring, healthcare, industrial automation, and smart cities. This includes developing energy-efficient routing protocols, localization algorithms, and data aggregation techniques for WSNs.

The researchers focus in the following domain:

- Wireless sensor network
- Cognitive radio
- Wireless network optimization
- · Under water communication

The laboratory provides opportunities for students and researchers to work on practical DSP applications and projects in diverse domains such as audio/music processing, image and video processing, biomedical signal processing and remote sensing

The students and faculty members' focuses on the following domain:

- Image and video processing
- Biomedical signal processing
- Filter design and implementationSpeech and audio processing

5.8.4 Consultancy	(from	Industry) (20)
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Institute Marks: 2.00

## 2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)

### 2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Design and Ve	2 years	SCALEDGE IN	387000.00
			Total Amount(Y): 387000.00

# 2020-21 (CAYm3)

ı	Project Title	Duration	Funding Agency	Amount(in Rupees)
ľ				

Cumulative Amount(X + Y + Z) =

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

Total Marks 10.00

Institute Marks: 10.00

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

The assessment is based on:

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

Veer Surendra Sai University of Technology (VSSUT) has a well defined system for performance based appraisal system (PABS).

### Evaluation criteria for PABS

- Teaching Process
  - (a) Class taken
  - (b) Scheme of evaluation
  - (c) Course outcome
- Student feedback
- Departmental activities
- Institute activities
- Academic research score
  - (a) Research publication
  - (b) Book published
  - (c) Research guidance
  - (d) Research Project/Consultancy
  - (e) Patents
  - (f) Invited lectures/Resource Person

### Analysis of PABS and Evaluation

The PABS submitted by faculty members are analyzed by the internal and external committee formed by Hon'ble Vice-Chancellor of our University.

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

Institute Marks :

## 6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

 $\textbf{6.1 Adequate and well equipped laboratories, and technical manpower} \ (40)$ 

Total Marks 40.00 Institute Marks : 40.00

Weekly utilization Number of Name of the Technical Manpower Support Name of the status(all the courses students per set Important Name of the Laboratory for which the lab is up(Batch Size) Equipment Designation Qualification Technical staff utilized) Simulation Lab 35 35 Computers 24 hours Ramji Dehury Senior Instructe Diploma Engg. 2 35 T R Mohanty Basic Electroni DC Power supp Senior Instruct Diploma Engg. 32 hours 3 35 Circuits Lab CRO 30Mhz, D T R Mohanty Senior Instruct Diploma Engg. 24 hours 35 Advance 8085 Surai Kumar M Senior Instructo Diploma Enga Microprocessor 12 hours 5 35 MATLAB R202 Suraj Kumar M Senior Instruct Diploma Engg. Communication 24 hours 6 35 MATLAB R202 Senior Instructo Diploma Engg. Microwave Lab 12 hours Ramji Dehury 35 LVDT Trainer, 1 Surai Kumar M Senior Instructo Diploma Engg. Instrumentation 12 hours

### 6.2 Laboratories maintenance and overall ambiance (10)

Total Marks 10.00 Institute Marks : 10.00

All the laboratories are maintained at normal temperature conditions with proper ventilation. Adequate space is allotted to each laboratory to accommodate the students. Regular maintenance of the laboratory equipments are carried out using some protocols fixed in each laboratory for smooth conduct of experiments. Periodic replacement of the components and equipments are done to keep the laboratories upgraded to the latest technologies.

### Overall ambience

In VSSUT, Burla Cleanliness and good academic ambiance is the main focus since its inception. Any laboratory has several equipments specific to its domain. Each of such equipments is well maintained in the due course of time. Any defloit of equipment/test kit is noted at the beginning of the semester and efforts are taken to procure the same. These items need to be purchased periodically as when need arises. Annually each laboratory is monitored for their assets and a status report is prepared. Some obsolete components are disposed from time to time. For better learning purposes the number of students allotted per setup is maximum four.

**6.3 Safety measures in laboratories** (10) Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Basic Electronics Lab	Safety instructions to the students: 1. Do not hold Electro Static Discharge (ESD) items like semiconductor devices (diodes. ICs) against the clothing. 2. Don't touch open wires unless you are sure that there is no voltage. 3. Never try to experiment with power from wall plug. 4. Use colored wires of suitable length. 5. Switch off the power supply when you make changes to the experiment even if the voltage is low. 6. After the lab session, switch off every power supply, and disconnect and disintegrate the experimental setup. 7. Immediately report dangerous and exceptional cases to the lab instructor. 8. Never use damaged wires, instruments, or connectors.
2	Simulation Lab	Safety instructions to the students: 1. Do not reboot or move any PC. 2. Do not load any unlicensed software on any computer. 3. Do not reconfigure the cabling equipment. 4. Do not leave a logged-in PC unattended.5. Games must not be played on any PC. 6. Do not useany external storage device to download any application files without any prior permission.
3	Circuits Lab	Safety instructions to the students: 1. Don't touch open wires unless you are sure that there is no voltage. 2. Never try to experiment with power from wall plug. 3. Use coloured wires of suitable length. 4. Switch off the power supply when you make changes to the experiment even if the voltage is low. 5. After the lab session, switch off every power supply, disconnect and disintegrate the experimental setup. 6. Immediately report dangerous and exceptional cases to the lab instructor. 7. Never use damaged wires, instruments or connectors.
4	Microprocessor Lab	Safety instructions to the students: 1. Do not reboot or move any kit. 2. Do not leave the kit unattended. 3. Do not use the kit without any prior permission.
5	Communication Lab	Safety instructions to the students: 1. General Rules of Conduct in Laboratories are displayed. 2. First aid box, Fire extinguisher is kept in the laboratory3. Avoid the use of cell phones.4. Permission denied for pen drives. 5. Computers should be turned off properly before leaving the lab. 6. The student must immediately inform the instructor if there's any defect, error or damage observed at the computer (hardware/software). 7. Do not reboot or move any communication trainer kit. 8. Do not use the kit without any prior permission.
6	Microwave Lab	Safety instructions to the students: 1. Do not wear loose-fitting clothing or jewellery in the lab. Rings and necklaces are usual excellent conductors of electricity. 2. Mobile phones should be switched off in the lab. Keep bags in the bag rack. 3. Keep the labs clean at all times, no food and drinks allowed inside the lab. 4. Intentional misconduct will lead expulsion from the lab. 5. Do not handle any equipment without reading the safety instructions. Read the handout and procedures in the Lab Manual before starting the experiments. 6. Do your wiring, setup, and a careful circuit checkout before applying power. Do not make circuit changes or perform any wiring when power is on. 7. Avoid contact with energized electrical circuits. 8. Do not insert connectors forcefully into the sockets. 9. NEVER try to experiment with the power from the wall plug. 10. Immediately report dangerous or exceptional conditions to the Lab instructor / teacher: Equipment that is not working as expected, wires or connectors are broken, the equipment that smells or "smokes". If you are not sure what the problem is or what's going on, switch off the Emergency shutdown. 11. Never use damaged instruments, wires or connectors. Hand over these parts to the Lab instructor/Teacher. 12. Be sure of location of fire extinguishers and first aid kits in the laboratory.
7	Instrumentation Lab	Safety instructions to the students: 1. Don't touch open wires unless you are sure that there is no voltage. 2. Never try to experiment with power from wall plug. 3. Use colored wires of suitable length. 4. Switch off the power supply when you make changes to the experiment even if the voltage is low. 5. After the lab session, switch off every power supply, disconnect and disintegrate the experimental setup. 6. Immediately report dangerous and exceptional cases to the lab instructor. 7. Never use damaged wires, instruments or connectors.

6.4 Project laboratory (20)

Total Marks 20.00
Institute Marks : 20.00

The students are permitted duly by the respective laboratory in charge on a request basis, to access and utilize the software/ hardware resources available in different laboratories. Any specific laboratory can be allocated for project-related research and development work, depending upon the project domain. Such allocations are generally made at the time-slots, when there is no routine occupancy of the laboratory for academic sessional activities. These regular laboratories have licensed softwares like Xilinx, MATLAB, LabVIEW etc., which are used for simulation purpose whereas hardware based projects are done either in the concerned hardware lab or in project room by issuing components from these labs.

7 CONTINUOUS IMPROVEMENT (75)

Total Marks 75.00

 $\textbf{7.1 Actions taken based on the results of evaluation of each of the COs, POs \& PSOs \ (30)}\\$ 

Total Marks 30.00

Institute Marks : 30.00

## POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Kn	owledge		
PO 1	2.3	2.3	Target is achieved. However, some courses like Microwave Engineering, and Wireless & Mobile Communication need strong foundations to correlate theoretic knowledge with engineering applications.
Action 1: Students are a	dvised to participate more in techni	cal events where their basic knowledge	e of science and mathematics can be used in engineering-oriented problems.
PO 2 : Problem Analys	is		
PO 2	2.3	2.3	Target is achieved. Problem-solving and analysing skills are developed through fi and second-year courses like Digital System Design, Analog Electronics Circuit, Design and Testing Lab which help the students to identify and analyse real-life problems.
	dvised to observe the problems in t ninor and major project based on th		nd daily life) and find a possible solution/approach to these problems. Action 2: And also
PO 3 : Design/develop	ment of Solutions		
PO 3	2.1	2.1	Target is achieved. More emphasis can be given in design-oriented problems in courses like Control Systems, and VLSI Design.
Action 1: Assignments in	ncluding design-based problems ma	ay be given. Action 2: Students are adv	vised to participate in event like Hackathon
PO 4 : Conduct Investi	gations of Complex Problems		
PO 4	2.1	2.2	Target is achieved. Research-based knowledge and methods can be discussed vistudents by mentors or the faculties in the class to have a clear idea in higher semester courses and projects.
Action 1: Students are n	notivated to go through a systematic	literature review before addressing the	e solution and developing the algorithms.
PO 5 : Modern Tool Us	age		
PO 5	2.0	2.2	Target is achieved. However, still upgradation of tools and resources is required t meet industry standards and research. The target can be increased for the next batch.
		e of modern tools like MATLAB, Multis	im, Xilinx-vivado, and Microwind to specify fulfillment of the requirements in engineering
applications in the new i			
PO 6 : The Engineer ar	nd Society		
PO 6	2.0	2.2	Target is achieved. The courses address the needs of health, safety, and social concerns regarding engineering practices in real life. The target can be increased the next batch.
Action 1: More expert ta	lks can be Conducted on engineering	ng emerging topics.	
PO 7 : Environment an	d Sustainability		
PO 7	2.0	2.2	Target is achieved. However, the global and environmental issues of awareness be improved among students.
Action 1: Students are e	ncouraged to do their undergradual	te projects by focusing on the practical	problems in society.
PO 8 : Ethics			
PO 8	2.0	2.1	Target is achieved. Although students are proficient in engineering, their lack of ethical and moral awareness is causing them to lag behind in certain courses, st as projects.
Action 1: Guidelines abo	out the use of legal software, how to	prepare documents without plagiarism	n, etc., could be distributed.
PO 9 : Individual and T	eam Work		
PO 9	2.1	2.2	Target is achieved. Students are very much able to work individually in theory courses. At the same time, they perform better in teams during laboratory experiments.
Action 1: Students are e	encouraged to participate in interdisc	ciplinary group projects.	
PO 10 : Communicatio	n		
PO 10	2.1	2.2	Target is achieved. During the Seminar presentation and Project Viva extra focus can be given to improve the communication skills of the students.
Action 1: Through group	discussions, presentations, and other	ner means, students can improve soft	skills.
PO 11 : Project Manage	ement and Finance		
PO 11	2.1	2.3	Target is achieved. Students are able to show off their ability to plan ahead and manage their time successfully by completing their projects within budget. The te can be increased for the next batch.
	oe made aware of more project and	time management concepts.	·
Action 1: Students can l	ning		
			Tourselie and the second of th
Action 1: Students can b PO 12 : Life-long Learr PO 12	2.1	2.2	Target is achieved. Many graduates from our department are pursuing higher stu in reputed Universities in India and abroad.

## PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations						
PSO 1 : Apply the knowledge of electronic circuits, analog and digital communication, wireless communication, radar engineering and antenna systems to solve complex engineering problems in the discipline of Electronics and Telecommunication Engineering									
PSO 1	2.3	2.3	Target is achieved.						
	Action 1: Students are highly encouraged to base the design of their major and minor projects on the courses they completed as undergraduates. Action 2: Students are advised to participate and showcase their technical skills in various events of our university like, Tectronix and Samavesh and in the technical events of other universities.								
PSO 2 : Develop suitable t	echniques and cutting-edge engine	ering hardware and software tools in	Electronics and Telecommunication Engineering to solve practical problems.						
PSO 2	2.3	2.3	Target is achieved.						
	, dedicated laboratories can be set up volearn new software and technical tools		ware tools that the students to access for their projects and research. Action 2:						
PSO 3 : Aware of the impact of professional Electronics and Telecommunication Engineering solutions on social, economic, environmental and technological sustainability.									
PSO 3	2.2	2.2	Target is achieved.						
Action 1: The students are	encouraged to participate in the Hackat	hon events. Action 2: More expert and	technical talks can be Conducted on engineering emerging topics.						

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

Total Marks 15.00 Institute Marks : 15.00

#### PURPOSE OF AUDIT

- To promote self reflection among all departments/sections/student activity centers of the University being audited.
- -To promote self improvement measures among all departments/sections/Student activity Centres of the University being audited
- To conduct quality checks on different activities undertaken in all departments/sections/Student activity Centres of the University to meet expected outcomes
- To promote adoption of best practices.

### SCOPE OF ACADEMIC AUDIT

All departments of University: The departments are expected to have developed a strong outcome based approach in teaching-learning. The audit team will assess the activities involved in developing learning outcomes, design and development activities in curriculum, teaching-learning process, student learning assessment process and student engagement programs. The audit team will also assess the quality and quantity of resources and general ambience from perspective of meeting the learning outcome.

Examination Section: The audit team will assess the process of conduct and document archival in the examination section.

Student Activity Centre: The audit team will assess the process of conduct, document archival and promotion of student support activities and services.

ACADEMIC AUDIT TEAM

The Academic Audit Team will have following composition

- Two for each department/section/centre (One with credibility in teaching and research; the other one with exposure to accreditation, program administration; preferably belonging to an accredited organization)
- The members may be nominated by Competent Authority of the University.
- The members must be of equivalent rank of Professor

#### AUDIT PROCESS

- Each Department/Section/Centre will prepare a Self Evaluation Document(SED) and submit it electronically to IQAC cell
- The Audit team will visit and conduct onsite evaluation through check of documents and interaction with stakeholders.
- The audit report will be prepared citing commendation, affirmation and recommendation for each school/unit.
- . The report will be shared.

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

Total Marks 10.00

Institute Marks: 10.00

The Training & Placement cell of VSSUT is proactive in conducting placement drives for students of the university. Various categories of companies ranging from consulting, development, support, R&D etc. come and hire students from our institute. Global companies like Polititee, WindMoller, Amazon, Cognizant, Infosys, TCS, Wipro etc. have our students as their employees. Companies like Infosys, Cognizant, Capagemini, Wipro etc. recruit in Day 1 hiring process. The highest package offered in the past 3 years is Rs.47.38 Lacs by Amazon SDE. Many high paying companies like Goldman Sachs, Google are also there in the list. We also have the advantage of having many core companies visiting and hiring from the campus. These companies include Vedanta, Tata Steel, JSW, Maruti Suzuki, JSPL, Aditya Birla, L&T, Tata Power, JK Paper, Visa Steel, Aquagreen etc.

Apart from placement, T&P Cell also helps students in upgrading their skills to increase their employability chances. Training for students have been conducted in many areas like AIML, Virtual Cloud, Cybersecurity, Data Analytics, RedHat, BluePrism, Robotics etc. In addition to this, the T&P cell has also worked in imparting softskills to the students by conducting training classes on it.

Parameter	(2022-23)	(2021-22)	(2020-21)
No. of Placement offers	129	130	130
No. of Students Placed	98	88	75
Placement Index	0.77	0.91	0.61
Highest Pay Package Offered	Rs. 47.38 Lacs Amazon SDE	Rs. 24.5 Goldman Sachs	Rs. 31.59 Google
GATE/GRE/GMAT/ CAT qualified student	05	10	04
Admission in premier institutions	05	10	04
No. of students turned Entrepreneurs	0	2	0

CAYm1 CAYm2 CAYm3

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

Total Marks 20.00 Institute Marks : 20.00

2022-23 2021-22 2023-24 No of students admitted 156 156 126 lational Level Entrance Examination Opening Score/Rank 56574 43097 81624 Closing Score/Rank 7507763 849641 849641102728 No of students admitted 0 State/ University/ Level Entrance Examination/ Others 0 Opening Score/Rank 0 Name of the Entrance Examination for Lateral Entry or lateral entry 12 12 12 details Opening Score/Rank 92 Closing Score/Rank 1345 2108 571 Average CBSE/Any other board result of admitted 8.4 8.12 7.9 students(Physics, Chemistry&Maths)

8 FIRST YEAR ACADEMICS (50)

Total Marks 44.69

e - NBA

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

Total Marks 5.00 Institute Marks : 5.00

### Please provide First year faculty information considering load

	Date of						Nature Of		Date Of leaving(In			
Name of the faculty	PAN No.	Qualification	Receiving	Area of Specialization	Designation	Date of	Teaching load (%		ıd (%)	Currently Associated	Association	case
member	PAN NO.	Qualification	Highest Degree	Area of Specialization	Designation	joining	CAY	CAYm1	CAYm2	(Yes / No)	(Regular / Contract)	Currently Associated is 'No')
Dr. Madhusmit	AUOPP0515H	ME/M. Tech and PhD	24/03/2021	Optimzation algorithm	Assistant Professor	02/06/2014	50	50	50	Yes	Regular	
Dr. Sheeja K. L	AIHPL7278C	B.Tech. and PhD	02/03/2015	Metamaterial Antennas	Assistant Professor	29/05/2014	50	50	50	Yes	Regular	
Dr. Sakambhar	BJFPM6524G	B.Tech. and PhD	25/03/2023	Image Processing	Assistant Professor	20/06/2014	100	50	50	Yes	Regular	
Dr. Nirmalendu	AYCPM9933A	B.Tech. and PhD	03/03/2023	NANOTECHNOLOGY FOR ENERGY AND ENVIRONMENTAL APPLICATIONS	Associate Professor	12/01/2023	100	0	0	Yes	Contractual	
Mr. Debasish T	AGZPT5515A	M.E/M.Tech	24/07/2010	Machine Design	Assistant Professor	01/07/2013	50	50	50	Yes	Regular	
Dr. Smita Padh	CIQPP8982C	B.Tech. and PhD	28/03/2023	Machining	Assistant Professor	06/10/2016	50	50	50	Yes	Regular	
DR. CHANDR/	APPPC7150K	M.A and Ph.D	08/01/2020	AMERICAN LITERATURE	Assistant Professor	22/09/2017	100	100	100	Yes	Regular	
Dr. P. Lakshmi	ATVPP0076D	M.Sc. and PhD	16/04/2013	Liquid Crystals	Assistant Professor	11/06/2014	100	100	100	Yes	Regular	
Dr. Sasmita Ac	ADZPM5291K	MCA and PhD	14/11/2019	Computer Networks	Assistant Professor	16/08/2011	50	50	50	Yes	Regular	
Tunirani Nayak	AEUPN4565M	M.E/M.Tech	30/06/2011	Image Processing	Assistant Professor	22/05/2015	50	50	50	Yes	Regular	
Harekrushna S	KVMPS8089M	M.E/M.Tech	15/05/2023	Modeling and simulation	Assistant Professor	12/01/2024	100	0	0	Yes	Contractual	
Layatitdev Das	APHPD6974Q	M.E/M.Tech	30/05/2012	Hybrid Machining Process	Assistant Professor	18/10/2016	50	50	50	Yes	Regular	
Priya ranjan Ma	AIHPM5467G	M.Sc. and PhD	31/01/2007	Polymer nanocomposite	Professor	07/03/2013	50	50	50	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2021-22(CAYm2)	120	6	20	5
2022-23(CAYm1)	120	6	20	5
2023-24(CAY)	120	9	13	5
Average	120	7	17	5

AverageFYSFR: 0.00

Assessment [ (5 \* 15) / AverageFYSFR]: 5.00

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

Total Marks 3.00

Institute Marks : 3.00

Year	x (Number Of Regular Faculty with Ph.D)	, ,	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [ (5x + 3y) / RF ]
2021-22	3	1	6	3.00
2022-23	3	1	6	3.00
2023-24	3	1	6	3.00

Average Assessment: 3.00

## 8.3 First Year Academic Performance (10)

Total Marks 6.69

Institute Marks : 6.69

Academic Performance	CAYm1( 2022-23 )	CAYm2( 2021-22 )	CAYm3 ( 2020-21 )
Mean of CGPA or mean percentage of all successful students(X)	7.60	7.40	7.80
Total Number of successful students(Y)	125.00	105.00	118.00
Total Number of students appeared in the examination(Z)	161.00	115.00	124.00
API [X*(Y/Z)]	5.90	6.76	7.42

Average API[ (AP1+AP2+AP3)/3 ]: 6.69

Assessment = Average API: 6.69

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

Total Marks 10.00

Institute Marks : 5.00

## $\textbf{8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5) and (5) are considered as a second of the course of the cou$

All the courses offered in the first year of the program curriculum are broadly classified into 3 categories with their individual assessment methods:

- 2. Sessional courses

Course outcome attainment for each type of course is discussed below.

Course Category	Type of Assessment	Assessment Tools	Marks	Category	CO Attainment type
		Assignments, Quiz tests (Formative assessments)	20	Cumulative Internal Examination (CIE)	Formative type
	Direct	Mid Semester Examination	30	Cumulative Internal Examination (CIE)	Direct CO Att.
Theory		End Semester Examination	50	Semester End Examination (SEE)	(70% weightage)
	Indirect	Course Completion feedback			Indirect CO Att. (30% weightage)

- For direct CO attainment, all the questions of mid-semester and end semesters are mapped with course outcomes during the preparation of the question paper.
- For the indirect CO attainment, semester-end feedbacks are collected by the department to acquire opinions about each CO from the students.
   Final computation of course outcomes attainment is done using direct and indirect Cos attainments through spreadsheets by the concerned faculty. CO attainment information will be compiled by the course coordinators and information passed on to the School Quality Assurance Cell and Program Assessment Committee for subsequent decisions and actions.
- The calculation for attainments is performed after the declaration of end-semester examination results. All documentations related to attainments are maintained by

### 8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Course Outcomes obtained for the first year courses are listed below:

Course	Direct CO Attainme nt	Indirect CO Attainme nt	Final CO Attainment	Target CO Attainme nt	Target achieved (Y/N)
BMA210 1	2.0	2.2	2.1	2.2	N
BCH210 1	2.1	2.4	2.2	2.2	Y
BEC210 1	2.0	2.1	2.0	2.2	N
BCE210 2	2.2	2.4	2.3	2.2	Y
BCS210 2	2.1	2.2	2.1	2.2	N
BCH219 1	2.3	2.4	2.3	2.2	Y
BEC219 1	2.2	2.4	2.3	2.2	Y
BCE219 2	2.3	2.2	2.3	2.2	Y
BCS219 1	2.1	2.3	2.2	2.2	Y
BMA220 1	2.0	2.4	2.1	2.2	N
BPH210 2	2.1	2.1	2.1	2.2	N
BEE 2101	2.1	2.2	2.1	2.2	N
BHU210 2	2.2	2.5	2.3	2.2	Y
BME210 1	2.1	2.1	2.1	2.2	N
BPH219 1	2.1	2.3	2.2	2.2	Y
BEE219 1	2.2	2.4	2.3	2.2	Y
BME219 2	2.2	2.5	2.3	2.2	Y
BHU219 1	2.3	2.2	2.3	2.2	Y
			1	1	1

Institute Marks: 5.00

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

Total Marks 20.00

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

Institute Marks : 10.00

### POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BMA21	2.1	2.1	1.4	1.4	1.4	2.1	2.1	PO8	PO9	PO10	1.4	2.1
BCH21	2.2	2.2	1.5	PO4	PO5	PO6	2.2	PO8	PO9	1.5	1.5	2.2
BEC21	2	1.4	2	2	2	PO6	P07	PO8	PO9	PO10	2	2
BCE21	2.3	1.5	1.5	1.5	1.5	1.5	2.3	PO8	1.5	1.5	1.5	2.3
BCS21	2.1	2.1	2.1	2.1	1.4	PO6	P07	PO8	1.4	PO10	PO11	2.1
BCH21	2.3	1.6	1.6	PO4	1.6	PO6	2.3	PO8	1.6	PO10	1.6	PO12
BEC21	2.3	1.5	1.5	2.3	2.3	PO6	P07	PO8	PO9	PO10	2.3	2.3
BCE21	2.3	1.5	1.5	1.5	.8	2.3	2.3	PO8	1.5	1.5	1.5	2.3
BCS21	2.2	2.2	2.2	2.2	1.5	2.2	P07	1.5	2.2	PO10	PO11	2.2
BMA22	2.1	2.1	1.4	1.4	.7	2.1	2.1	PO8	PO9	PO10	1.4	2.1
BPH21	2.1	2.1	2.1	1.4	.7	PO6	P07	PO8	PO9	1.4	PO11	1.4
BEE21	2.1	2.1	1.4	2.1	2.1	1.4	2.1	PO8	PO9	PO10	2.1	2.1
BHU21	PO1	PO2	PO3	1.5	PO5	1.5	1.5	PO8	1.5	2.3	PO11	PO12
BME21	2.1	2.1	1.4	2.1	2.1	PO6	P07	PO8	2.1	1.4	PO11	1.4
BPH21	2.2	2.2	1.5	.7	2.2	1.5	2.2	2.2	2.2	2.2	1.5	1.5
BEE21	2.3	2.3	1.5	2.3	2.3	1.5	1.5	1.5	2.3	2.3	2.3	2.3
BME21	PO1	PO2	.8	1.5	1.5	1.5	1.5	1.5	2.3	1.5	1.5	2.3
BHU21	PO1	PO2	PO3	PO4	PO5	2.3	1.5	PO8	1.5	2.3	PO11	PO12

### PO Attainment Level

### PSOs Attainment:

Course	PS01	PSO2	PSO3
BMA21	1.4	1.4	1.4
BCH21	PSO1	PSO2	PSO3
BEC21	2.0	2.0	2.0
BCE21	PSO1	PSO2	PSO3
BCS21	PSO1	2.1	PSO3
BCH21	PSO1	PSO2	PSO3
BEC21	2.3	2.3	2.3
BCE21	PSO1	PSO2	PSO3
BCS21	PSO1	2.2	PSO3
BMA22	1.4	1.4	1.4
BPH21	1.4	PSO2	PSO3
BEE21	1.4	PSO2	PSO3
BHU21	PSO1	PSO2	PSO3
BME21	1.4	PSO2	PSO3
BPH21	1.5	PSO2	PSO3
BEE21	1.5	PSO2	PSO3
BME21	PSO1	PSO2	PSO3
BHU21	PSO1	PSO2	PSO3

## PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	1.59	1.9	1.78
PSO Attainment	1.59	1.9	1.78

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

Institute Marks : 10.00

## POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Know	vledge		
PO 1	2.1	2.2	Target is achieved. All the basics of science, mathematics, computing language, and basics from each engineering branch are offered to students.
	tivated to explore and correlate the basi If in engineering-oriented problems.	cs behind the new technical course BT	ech. Action 2: Students are advised to participate in technical events where their basic
PO 2 : Problem Analysis			
PO 2	1.9	1.9	Target is achieved. From the first year itself, students are trained through the courses to analyze the real problems and formulate solutions for them.
Action 1: To help them thir	k through and attempt to solve complex	engineering challenges, several real-	world examples may be addressed.
PO 3 : Design/developme	ent of Solutions		
PO 3	1.5	1.6	Target is achieved. The design and development of solutions for engineering problems should be the main emphasis of foundational engineering courses.
Action 1: Design-based ex	periments can be incorporated into the	foundational and core engineering curr	ricula.
PO 4 : Conduct Investiga	tions of Complex Problems		
PO 4	1.7	1.7	Target is achieved. Design-based experiments are added to some of the basic engineering labs.
Action 1: More design-bas	ed experiments can be added to some	of the basic engineering labs. Action 2:	Students are advised to participate in technical events.
PO 5 : Modern Tool Usag	je		
PO 5	1.5	1.6	Target is achieved.
Action 1: Modern labs are	developed to demonstrate the use of m	odern tools like MATLAB, LabView, etc	to specify the fulfillment of requirements in engineering applications.
PO 6 : The Engineer and	Society		
PO 6	1.7	1.8	Target is achieved.
Action 1: Basic Science co	ourses can focus on the health, safety, le	egal, and cultural issues and the conse	equent responsibilities relevant to the professional engineering practice.
PO 7 : Environment and	Sustainability		
PO 7	1.9	2.0	Target is achieved.
Action 1: Students are end	ouraged to participate in projects and to	echnical events that address environme	ental and societal challenges.
PO 8 : Ethics			
PO 8	1.6	1.7	Target is achieved.
	e social aspects, workshops is being co		inledge with the effect of improved practices in engineering along with the professional may be included in the curriculum.
PO 9 : Individual and Tea	ım Work		
PO 9	1.7	1.8	Target is achieved. Students are very much able to work individually in theory courses. At the same time, they perform better in teams during laboratory experiments.
Action 1: First-year studen	ts can be involved in transdisciplinary p	rojects by senior students.	
PO 10 : Communication			
PO 10	1.7	1.8	Target is achieved.
Action 1: Schools and univ		and non-technical events all year long,	and students are invited to participate in groups. Action 2: Through group discussions
PO 11 : Project Managen	nent and Finance		
PO 11	1.6	1.6	Target is achieved.
Action 1: Through the man	agement of each lab's experiments, stu	idents can develop the idea of the man	agement of projects.
PO 12 : Life-long Learnir	ng		
PO 12	2.0	2.0	Target is achieved.
Action 1 Action 1: Talks by	experts in different fields can organized	d for the students, where they can inter	act with them and have ideas about the present technical scenarios.
		• • •	·
SOs Attainment L	evels and Actions for Improv	rement- (2022-23)	

## PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations		
PSO 1 : Apply the knowledge of electronic circuits, analog and digital communication, wireless communication, radar engineering and antenna systems to solve complex engineering problems in the discipline of Electronics and Telecommunication Engineering					
PSO 1	1.6	1.6	Target is achieved.		
Action 1: More emphasis ma	Action 1: More emphasis may be given to design-based and analytical problems. Action 2: Students are advised to understand the basics of electronics and electrical courses offered in the first year.				
PSO 2 : Develop suitable t	echniques and cutting-edge engine	ering hardware and software tools in	n Electronics and Telecommunication Engineering to solve practical problems.		
PSO 2	1.9	1.9	Target is achieved.		
Action 1: Along with the pro-	gramming course offered in the curricu	lum, students are encouraged to learn	other software and hardware tools.		
PSO 3 : Aware of the impa	PSO 3 : Aware of the impact of professional Electronics and Telecommunication Engineering solutions on social, economic, environmental and technological sustainability.				
PSO 3	1,8	1.8	Target is achieved.		
Action 1: The students are e	encouraged to participate in the Hackat	hon events. Action 2: More expert talks	s can be Conducted on engineering emerging topics.		

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

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Institute Marks: 5.00

VSSUT has implemented the Mentor system. Within the system, the student is referred to as a mentee and the teaching member as a mentor. The guidelines for mentors in an effective mentoring system are provided below.

#### 9.1.1 Mentor categories

Mentor: The mentors are responsible for managing the mentees registration, academic details, communication with guardians, attendance records, health status, behavior, manners, and promoting brand awareness. They are the primary contacts responsible for receiving and taking the initial measures to address grievances.

Counseling mentors: The counseling mentors are responsible for maintaining emotional stability as advised by the mentors.

#### 9.1.2 Mentors Appointmen

At the start of the academic year, the HOD of the department will inform the mentors and counseling mentors selected among the faculty members of the department. Guidelines for mentors appointment should be followed.

- A faculty member might be nominated as a mentor for a group of students. The schools head can suggest a demonstrator if they are confident in the demonstrators potential to serve as an effective mentor.
- The optimal group size for undergraduate students is five. HOD has the authority to determine the group size.
- The Head of School will choose counseling mentors from the instructors. A professional counseling mentor has been appointed at the university level.

#### 9.1.3 Mentors Responsibilities

- To provide a collaborative and encouraging atmosphere for the mentees to enhance their learning and participation in academic activities.
- Conduct regular meetings with mentees and be readily available to them as required.
- To update the guardians on the students academic performance, attendance, and any disciplinary issues.
- To notify students and guardians about the organizations accomplishments.
- Assist mentees in gaining a comprehensive understanding of academic programs and necessary regulations.
- Identify chances for students to showcase their skills in discipline-specific or extracurricular activities
- To guide and strengthen the mentees discipline-specific or interdisciplinary methodologies and abilities.
- Identify the need for counseling and schedule regular meetings with counseling mentors.

 $\textbf{9.2 Feedback analysis and reward / corrective measures taken, if any} \ (10)$ 

Total Marks 10.00

Institute Marks : 10.00

Feedback collected for all courses: YES (Twice a year)

Average Percentage of students participate in the feedback process: 75-90%  $\,$ 

### 9.2.1 Feedback Collection Process:

SI. No.	Type of feedback collected	Feedback on Curriculum, Teaching & learning
1	Process of collection	Google form/ Paper Form
2	Medium of notification to students and follow up	Whatsapp/ tutor mentors/class teacher
3	Frequency of collection	Once after end of each semester
4	Department responsible for collection, analysis and action taken	Concerned department/IQAC

### FEEDBACK FORM

Student's Feedback, Department of Electronics and Telecommunication Engineering, Academic year: 2023-24.					
Sign in to Goog	le to save your pre	ogress. Learn	more		
* Indicates requ	ired question				
Feedback que	stions:				
1. Has the tea	Cher covered en	Poor	Good	very good	Excellent
2. Has the tea	cher covered re	levant topics	s beyond sylla	abus? *	
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0

3. Effectiveness	of the teacher	in terms of:	*		
	Very poor	Poor	Good	Very good	Excellent
Teaching content/ course content	0	0	0	0	0
Communication skill	0	0	0	0	0
Use of teaching aids	0	0	0	0	0
4. Pace in which	contents were	covered *			
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0
5. Motivation and	d inspiration fo	r students t	o learn *		
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0

	Very poor	Poor	Good	Very good	Excellent
Practical demonstration	on O	0	0	0	0
Hands on training	0	0	0	0	0
7. Clarity of e	expectations of s	students *			
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0
8. Feedback	provided on stud	dents' progres	s *		
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0
9. Willingnes	s to offer help a	nd advice to s	tudents *		
	Very poor	Poor	Good	Very good	Excellent
Your rating	0	0	0	0	0
10. Opinion on d	lesign and review of	syllabus *			
	Very poor Poo	r Good	Very good	Excellent	
Your rating	0 0	0	0	0	
Make sure that y	you have responded	for all the subjects	s in your presen	it semester. *	
Choose				•	

The feedback collected is shared to HOD for further analysis by a feedback analysis committee. The Analysis of the feedback is obtained in following components.

- · Course Objectives
- General observation
- Skill Development
- Innovations and Methodology
- Commitment and Command

### 9.2.4 Basis of reward/ corrective measures, if any;

- The HOD shares the scores to the faculty members. The HOD provides individual faculty members with personalized feedback to identify their strengths and weaknesses and enhance their teaching skills. An in-depth examination of the score and interaction typically leads to enhancements in teaching and learning.
- If a teacher of a certain course does not achieve a satisfactory score index, the Head of the Department will have a discussion with the teacher. Subsequently, the teachers must modify their content delivery and then report the information back to the HOD.

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9.3 Feedback on facilities (5) Total Marks 5.00 Institute Marks: 5.00

The HOD office receives student input on the amenities of the University and department annually once. The feedback collecting is undertaken during the month of April. The form of the report seeks students views on various facilities of department and university. Different facilities for which feedbacks are taken from students are provided

- Classrooms and labs (seating, lighting, fans, A/C, ventilation, cleanliness, etc.)
- Teaching aids (Projectors, blackboards, computers, posters, display boards, drawing boards)
- · Washrooms, drinking water, water supply, first aid, etc.
- Hostel
- Internet
- · Canteen and other services
- . Sports facilities (Sports items, ground facility, etc.)
- Library facilities
- Medical Facilities

The collected feedback is reviewed at the department level, and if it is poor, the concerned PIC is informed.

9.4 Self-Learning (5) Total Marks 5.00 Institute Marks: 5.00

The Department of ETC offers extensive opportunities and resources for students to engage in self-directed learning and explore topics beyond the standard curriculum. VSSUT students have 24/7 access to internet and computing capabilities within the University premises all year round. The institution has implemented a framework of learning activities that encourages self-directed learning among students, focusing on various topics across all disciplines.

- Interactive focus: Activities include of synchronous and collaborative talks, group activities, and assignments.
- Critical thinking: Activities in critical thinking involve doing case studies, field surveys, identifying problems, assessing implications of past research, finding gaps for improvement, and formulating strategies.
- Problem solving: Problem solving involves implementing strategies in real-life situations, understanding constraints, considering social, environmental, legal, and economic implications, analyzing the impact, and solving open-ended problems using simulations and modeling.
- Creation: Creation activities involve designing and implementing tasks at the simulation level, transitioning to hardware implementation, real-time deployment, and studying the resulting impacts.
- · Preparation for competitive exams and advanced courses involves engaging in additional self-learning and problem-solving activities.
- Students in laboratories can choose to work on open-ended activities either individually or in groups through micro-projects to improve their analytical and design skills, which can be expanded upon in their final year major design projects.
- Students participate in field/industry visits and internships/trainings to familiarize themselves with industry practices, job expectations, and get insight into real-world challenges.
- Students participate in actual multidisciplinary projects at various Centers of Excellence, along with product innovation and entrepreneurial activities facilitated by
- · Open coursewares like NPTEL and MIT OpenCourseWare are recommended by lecturers for students to access at any time
- . Students are encouraged to take an active role in arranging symposia, conferences, seminars, etc.
- Student Societies are active organizations where students design, execute, and coordinate activities that significantly contribute to self-learning. Some societies are referenced in this section.

#### 9.5 Career Guidance, Training, Placement (10)

Total Marks 10 00

Institute Marks: 10.00

VSSUT has provided career consulting, training, and placement services since its establishment. It has an outstanding track record in campus placement. VSSUT is highly regarded as a talent pool for the corporate sector due to its ability to produce students who are well-prepared for the industry. VSSUT has a well-defined framework in place to provide guidance to students for training and placement. Our main goal is to increase industry involvement in academia by implementing various activities to meet the evolving industry requirements.

- . Working with Technical Heads, CTOs, and Operational Heads in the industry to provide Industry Engagement initiatives, such as student placements.
- · Establishing and launching the student-centered 'Innovation Cell' at the University to cultivate a culture of 'Innovations & Entrepreneurship' among students through organizing advanced lectures, seminars, and workshops in collaboration with industry experts and esteemed academicians from foreign Universities
- The goal is to create a pathway for entrepreneurs from VSSUT to pursue start-ups.
- Encouraging University researchers to build strong relationships with Industry, Government/Non-Government Organizations, and relevant Community Groups to collaborate on cutting-edge research.
- Raising awareness about creating intellectual property rights (IPR) and commercializing them, including safeguarding and managing patents resulting from research
- · Establishing a sponsored research consultancy fund in collaboration with multiple corporate entities
- Establishing cutting-edge laboratories for research and innovation through company sponsorship.
- Establishing connections with corporations to provide training and certification for students, scheduling technical lectures by subject experts, and coordinating industrysponsored workshops and symposiums for students and professors.
- Providing corporate entities with Leadership/Executive Development Programs and customized learning programs in specific areas of expertise available within the VSSUT faculty.

9.6 Entrepreneurship Cell Total Marks 5.00 Institute Marks: 5.00

Department of ETC encourages the development of entrepreneurs in a structured manner through the University Entrepreneurship Cell. We support aspiring entrepreneurs who aim to address peoples concerns with innovative technical solutions. We provide a comprehensive learning environment for our students through a variety of activities such as start-up presentations, innovation challenges, seminars, techno-business sessions led by successful entrepreneurs, internship camps, and more.

9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

Institute Marks: 10.00

The university has a Student Activity Centre Council that aims to unite all students for extracurricular activities and to share talent, culture, and innovative ideas. VSSUT Student Activity Centre hosts various events including delegation, workshops, and cultural activities. These events provide opportunities for student organizers to enhance their interpersonal skills like leadership, positive attitude, relationship management, and team management. Furthermore, VSSUT also offers NSS and NCC programs.

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (55)

Total Marks 55.00

85 of 110

## 10.1.1 State the Vision and Mission of the Institute $\left(5\right)$

Institute Marks : 5.00

#### VISION

To emerge as an internationally acclaimed Technical University to impart futuristic technical education and creation of vibrant research enterprise to create quality engineers and researchers, truly world class leader and unleashes technological innovations to serve the global society and improve the quality of life.

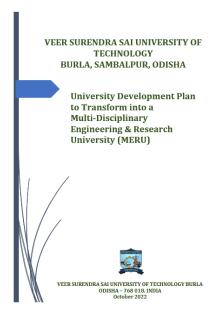
#### MISSION

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

- $\cdot \ \text{Participative learning in a cross-cultural environment that promotes the learning beyond the class room.}$
- $\cdot \ \text{Collaborative partnership with industries and academia within and outside the country in learning and research.}$
- · Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- $\cdot \ \mathsf{Facilitating} \ \mathsf{technology} \ \mathsf{transfer}, \mathsf{innovation} \ \mathsf{and} \ \mathsf{economic} \ \mathsf{development} \ \mathsf{to} \ \mathsf{flow} \ \mathsf{as} \ \mathsf{natural} \ \mathsf{results} \ \mathsf{of} \ \mathsf{research} \ \mathsf{where} \ \mathsf{ever} \ \mathsf{appropriate}.$
- $\cdot$  Expanding curricula to cater broader perspectives.
- · Creation of service opportunities for upliftment of the society at large.

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

Institute Marks : 25.00



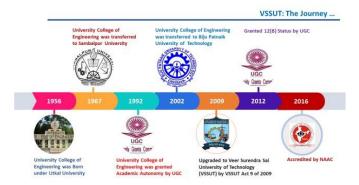
#### 1.PREAMBLE

VSSUT Burla was established in 1956 as an engineering college in the name of the University College of Engineering (UCE) to solve a problem in society. As Hirakud Dam, independent India's first multi-purpose river dam was commissioned, there was a need for home-grown engineers to operate and maintain the dam that was meant to control flood, the powerhouse to generate power and a canal system to irrigate vast tract of land.

In the span of 66 years, the University has produced over 40.000 alumni, It has dedicated itself to the infrastructure, industrial growth, and socio-technical development of the state and nation as a whole. The roads, ports, dams, power plants, transmission lines, industries, irrigation projects, and rural electrifications are built-in Odisha with the overwhelming participation of its alumni. It has been playing a key role in the rural and urban developmental programs of the region; it is the central monitoring center for the State Government's programs such as Pradhan Mantri Gramya Sarak Yojana (PMGSY), Watershed projects, etc. Its alumni can be seen in the Boardrooms of leading PSUs and private companies; they occupied top positions in the Indian Army / Navy / Air Force, DRDO, and ISRO; they are on the faculty boards of almost all IITs, NITs, and many

The University has carved a name for itself for its undiluted and uncompromising approach to education and the intensity of its teaching. In recognition of its contribution to society, the State Government upgraded it to a technical university in 2009. Presently, in addition to its rich undergraduate programs, it has preserved the strong legacy of research culture in terms of Post-graduate and research programmes in all disciplines of science and engineering

2.VSSUT - THE JOURNEY SO FAR



The legendary institute had made a modest beginning in 1956 by taking 30 students each in three departments, viz Civil, Electrical & Mechanical, operating from the make-shift workshop of the Hirakud Dam. VSSUT presently offers 10 B.Tech., 22 M.Tech., B.Arch., MCA, and 3 M.Sc. programs, and details with seat strength are attached as ANNEXURE-1. Almost all B.Tech. programs are NBA accredited and rests have been applied for accreditation. Today, its students intake is 1644 in B. Tech, M. Tech, M Sc, MCA, Ph. D. and the total student strength on the campus is 4956.

In addition, 150 Research Scholars are pursuing their Ph. D. in various disciplines. VSSUT has been identified as the nodal center of the AICTE Quality Improvement programme for pursuing Ph.D. and also as the center for National Doctoral Fellowship (NDF) Scheme by AICTE. Ph. D. students are enrolled under the NDF scheme from

3.THE SWOT ANALYSIS

## STRENGTHS

## WEAKNESSES

- 1. Undiluted academic standards for 66
- Strong and worldwide Alumni network
   Performing students beating IIT / NIT
- students in national-level competitions Adequate quality faculty

- 1. Inadequate, aged Infrastructure
  - 2. Outdated Lab equipment, software 3. Absence of specialized R & D labs
  - 4. Inadequate IPR, Sponsored Research &
  - Consultancy 5. Inadequate student recreation facility
  - 6. Weak academic Outreach

## THREATS

### 90oOPPORTUNITIES

- 1. Inadequate funding for an institute as vast in infra & student base as IIT, or NIT leading to fast degradation
- 2. Peer institutes growing in size
- 3. Reluctance of companies to visit a remote place like Burla for Placement
- 1. Massive industrialization in Odisha asking for
- more quality engineers 2. ~ 300 Acre Land for expansion
- Surrounded by institutes & industries
   Attitude of students toward Rocketry, product development, Entrepreneurial spirit,
- 4. WINGS OF TRANSFORMATION AT VSSUT

In line with the Nation Education Policy -2020, VSSUT plans to expand its wings in line with a large-scale Multidisciplinary Education and Research University (MERU) to serve a larger mass of students of Odisha who are aspirants to pursue quality education at an affordable cost.

#### a. Increased intake at B. Tech. Level

VSSUT aspires to offer more B.Tech. Programs that are relevant in today's time and increase the student strengths in excess of 10,000 on the campus by 2028.

	Current po	sition in 2022	Projection by 2028	
Programs	Intake	Students Strength	Intake	Students Strength
B. Tech. + B. Arch.	996	3810	2083	8332
M. Tech.	396	792	396	792
M.Sc. (2 yrs)+MCA	102	204	120	240
Ph.D.	150	150	500	1500
TOTAL	1644	4956	3116	10,864

#### b. Projection for other performance parameters

Parameters	Present	By 2028
On-time Graduation	85%	95%
GATE/ NET Coverage	40%	60%
Career & Placement	80%	95%
Innovation & Incubation	05	10 per year
Technology	CTTC ISRO	AI, Data Science, ML, Healthcare, Robotics and Automation, Modern Manufacturing
NIRF Ranking	116	Top 50 in India
NBA Accreditation	10 UG Courses 03 PG Courses	All UG & PG courses
NABL Accreditation	-	10 Labs
New Programs	02	11 UG and 5 PG programs
Faculty Hiring	220	550 (1:15 as per AICTE norms)

### c. Multi-Disciplinary Character

Subsequently, besides Engineering and Sciences, it aspires to open a School of Medical Technology on one campus - making it a true Multi-Disciplinary Institute.

#### d. Skill Development Centre

VSSUT aspires not only to produce quality graduates in Engineering, and Medical Technology but also wants to open its laboratory facilities, faculties, and innovative students to equip the Diplomas and ITIs of Odisha with the necessary skills to be entrepreneurs or be Industry-ready.

### e. Setting up R&D Laboratories in association with Industries

VSSUT aspires to be a cutting-edge Research Centre in association with MCL, Vedanta, Hindalco, and TPWODL. The lab will be dedicated to develop solutions by our faculty and students. It will also help to have result-oriented collaboration with the industry.

### 5.Step by Step Methodology for Execution

### a. Creation of various Schools (in the immediate term)

For optimum sharing of knowledge and resources such as faculties, laboratory facilities. Conferences etc., it is envisaged to put together a similar family of departments, e.g. Computer Science and Engineering, IT, MCA are clubbed under the School of Computer Science and Engineering; Mechanical Engg, Manufacturing, Production, Metallurgy, etc. are clubbed under School of Mechanical Science. Each school will be operated from a single building, be headed by a Dean. This will de-centralize the control of VC and bring tremendous synergy among departments.

SI#	Name of the School	Name of the Branch
		Computer Science & Engineering
		Computer Science & Engineering
		(Artificial Intelligence & Machine
		Learning)
	Computer Science	Computer Science & Engineering (Data
	and Engineering	Science)
		Computer Science & Engineering (IoT)
		Computer Science & Engineering
		(Cyber Security)
		Information Technology
		Electrical Engineering
2	Electrical Sciences	Electrical & Electronics Engineering
		Electronics & Communication Engineering
		Mechanical Engineering
		Production Engineering
3	Mechanical Sciences	Aerospace Engineering
		Industrial Engineering & Management
		Metallurgical & Materials Engineering
		Civil Engineering
4	Infrastructure & Planning	Bachelor of Architecture
		Bachelor in Planning
	01 . 1 . 15:	Chemical Engineering
5	Chemical and Bio Sciences.	Petroleum Engineering
		Biotechnology
	Earth &	
6	Environmental	Mining Engineering
	Sciences	
7	Humanities and Basic	Physics, Chemistry, Mathematics, Life
,	Sciences	Science

Note: Those depts. in Italic & Bold are proposed new departments

The yearly intake in existing as well as newly opened UG programs, will be 2083 as shown below and the total student strength including PG and Ph.D. will be more than 10,000 in the campus.

011		Intake	O.II.	TFW	Lat Ent	
SI#	Name of the branch	(with EWS)	GIN	(5%)	(10%)	Total
1	Computer Science & Engineering	120 +30	1	6	12	169
2	Computer Science & Engg (AI&ML)	60+15	0	3	6	84
3	Computer Science & Engg (Data Science)	60+15	0	3	6	84
4	Computer Science & Engg (IoT)	60+15	0	3	6	84
5	Computer Science & Engg (Cyber Security)	60+15	0	3	6	84
6	Information Technology	60+15	0	3	6	84
7	Electrical Engineering	120+30	2	6	12	170
8	Electrical & Electronics Engineering	60+15	0	3	6	84
9	Electronics & Tele- Communication Engg	120+30	2	6	12	170
10	Mechanical Engineering	120+30	3	6	12	171
11	Production Engineering	60+15	0	3	6	84
12	Aerospace Engineering	60+15	0	3	6	84
13	Industrial Engg & Management	60+15	0	3	6	84
14	Metallurgical & Materials Engineering	60+15	0	3	6	84
15	Civil Engineering	120+30	2	6	12	170
16	Bachelor of Architecture	40+10	0	2	0	52
17	Bachelor in Planning	60+15	0	3	6	84
18	Chemical Engineering	60+15	0	3	6	84
19	Biotechnology	60+15	0	3	6	84
20	Mining Engineering	60+15	0	3	6	84
	J&K Quota		5	0	0	05
	TOTAL	1480+370	15	74	144	2083

Note: Those depts. in Italic & Bold are proposed new departments

## b. Creation of Centres of Excellences - (in Immediate Term)

Quantity is a critical mass, but quantity alone does not make a good University; Research must strive on the campus and new products/solutions must be evolved to serve the society. In line with this goal, each school will have more than one center of excellence (COE). The CoEs will be based on society-relevant areas like IoT, Augmented Reality/Virtual Reality, Steel making etc. COEs will solit facilitate research in the frontier areas where faculty and students will work on real-life industry problems. Further, these COEs will work on developing cost-effective products for the benefit of the community. The incubation and innovation cell will be strengthened further to attract more innovative projects like one existing from ISRO.

A striking feature is – each of these CoEs will have partnerships with a few industries in the same field and will have a few Alumni as mentors.

CoEs under the Scho	ol of Computer Science and Eng	gineering
Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry Partnership
от	Sambit Patra (IoT, Intel)	IBM, Intel, Sankalp Semiconductors
Block Chain	Manish Sinha (Niti Aayog), Debjani Mohanty (Collabera)	Tech Mahindra, Deloitte
AI & ML	Rakesh Barik (Deloitte), Dhirendra Bhupati (Microsoft, USA)	NVidia, Deloitte, Microsoft, Google
AR & VR	Dhiraj Sinha (Capgemini)	Capgemini

CoEs under the School of Electrical Sciences				
Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry Partnership		
Power Generation	Jaydev Nanda (Adani Power)	NTPC, OPGC, OHPC		
nsulation Integrity	Ashesh Padhy (JSW)	NTPC, OPGC, OHPC		
Semiconductor & VLSI	Anup Nayak (USA)	Qualcomm, Intel, Foxconn		
Power Electronics	RP Sasmal (Ex-PGCIL), Sudhansu Kannungo (Schinder Electric)	ABB, Honeywell, Schinder Electric, Siemens		

Communication, 5G	Pramod Panda (BSNL), Sasi Panda (CISCO, USA), Manoj Mohanty (JIO)	JIO, Siemens, Samsung, CISCO
Drone Technology	Om Prakash (IG Drones)	IG Drones

CoEs under	School of Mechanical Sciences	1	
Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry Partnership	
Robotics & Mechatronics	Naveen Gupta (Merc Benz)	L&T,ABB, Honeywell, Fanuc	
Welding Technology	Rashmi Mohapatra (Teams)	Kempee	
Smart Manufacturing (Industry 4.0)	Sibhasis Maity (Ex-CTTC)	L&T, Tata Steel	
Automotive & EV	Tapan Sahu (Maruti Suzuki)	Maruti	
Space Technology	Bijan Das (Ex-ISRO), Binay Das (DRDO ECS)	ISRO, DRDO	
Tribology, Vibration analysis	Rakesh Das (Tata Auto Components), Sushant Panda (IIT Kharagpur)	SKF, Tata Technologies	

Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry  Partnership	
Rural Development & Sustainable Technology	Sutapa Pati ( Xavier School of Sustainability), Alok P	XIMB, Bhubaneswar	
Smart City Design	JK Kapoor (Centre of Town Planning)	GoO, GoI, KPMG, EY, Deloitte, JUSCO	
Smart Irrigation	Nanda Mohapatra (Ex- DoWR)	DoWR	
Sustainable Habitat Planning	J K Kapoor	Housing and Urban Affairs, GOI	

Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry Partnership
Mineral Processing	Ashesh Padhy ( JSW)	JSW Steel, Roongta
Steel Making	SS Mohanty (Ex-SAIL)	Tata Steel, JSPL, Arcelor Mittal
Numinum Making	SB Nayak (Ex-NALCO), JK Mohanty (Ex-Vedanta), Athar Shahab (Ex- Vedanta)	Vedanta, Aditya Aluminum, NALCC
Disaster Management		DoWR, NDRF

CoEs under the School of Chemical & Bio Sciences							
Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry  Partnership					
Bio-Medical Engg		VIMSAR					
Petroleum Engg.		IOCL					

CoEs under the School of Humanities & Basic Science									
Centres of Excellence	Industry Mentor (Alumnus)	Proposed Industry  Partnership							
Nuclear Science		BARC, NPC							
Tribal Welfare									
Environment									

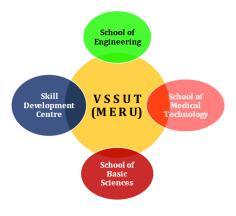
## c. Skill Development Centre (in Immediate Term)

VSSUT has a plan to establish a Skill Centre to train the unemployed Diploma/ITI/ Matriculates in Welding, Drone survey, Automobile, Transformer Repair and Design, Textile Fabric design, Medical Technology, and Apparel design to make them industry-ready and inculcate the spirit of entrepreneurship. Our own students and faculty will impart training to these employable youth of Odisha.

### d. Adding School of Medical Technology (in the Long term)

After the Campus is expanded and the Engineering stream is consolidated, the next step would be to use the existing Academic building for opening a Medical College to roll out at least 1000 doctors a year. VSSUT School of Medical Technology will collaborate with VSSUT

School of Engineering to produce cutting-edge products such as artificial limbs, artificial respirators, Robot-based based surgery, quick tests for Cancer, etc. At the same time, VSSUT School of Medical Science will derive synergy from nearby VIMSAR to produce cutting-edge research.



6.ADDITIONAL INTAKE VIS-À-VIS OPERATIONAL EXPENDITURE

### a. Graceful increase of Intake from 2022-28

Academic Year	Sanctioned Intake	Increase in Intake	Cumulative Intake
2022-23	120	140	140
2023-24	120	140	280
2024-25	120	140	420
2025-26	120	140	560
2026-27	120	140	700
2027-28	140	160	860
2028-29	200	240	1100
TOTAL	940	1100	

b. Operating Expenses of Faculty, Non-Teaching Staff, and Teaching Assistants (TAs)

Due to an increase in intake of 1100 B.Tech. students, the faculty requirements will be 188 as per AICTE norms with STR 1:20. However, the faculty requirement will be optimized to 127 by adopting the following:

- i. Large classrooms of size 150 with advanced ICT facilities
- ii. Lab size to accommodate 60 students in one slot to optimize Technical Assistants
- iii. Engage TAs with M.Tech. who will pursue Ph.D. and will be trained in Teaching- Learning to produce quality teachers of the future.

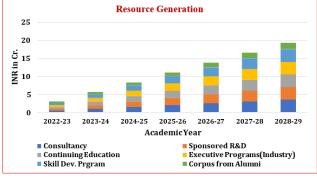
Accordingly, the OPEX is computed for the need of faculty, Non-teaching staff, and TAs as,

Academic Yea r	Incr Intak e	Faculty 01:20	Facult y Added	Staff add ed	TAs M.Tec h.	Faculty Salary(Cr	Staff Salary	TAs salary( Cr)	Total OPEX(Cr )
2022-23	120	24	15	6	5	2.88	0.36	0.3	3.54
2023-24	120	24	30	12	10	5.76	0.72	0.6	7.08
2024-25	120	24	45	18	15	8.64	1.08	0.9	10.62
2025-26	120	24	60	24	20	11.52	1.44	1.2	14.16
2026-27	120	24	75	30	25	14.4	1.8	1.5	17.70
2027-28	140	28	95	36	30	18.24	2.16	1.8	22.20
2028-29	200	40	127	42	35	24.384	2.52	2.1	29.00

c. Increase in Operating Expenses year-wise due to the successive increase in intake

Head	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
House Keeping	0.24	0.48	0.72	0.96	1.2	1.44	1.75
Security Services	0.24	0.48	0.72	0.96	1.2	1.44	1.75
Gardening	0.24	0.48	0.72	0.96	1.2	1.44	1.75
Electricity Charges	0.24	0.48	0.72	0.96	1.2	1.44	1.75
Salary	3.54	7.08	10.62	14.16	17.70	22.20	29.00
Total OPEX	4.26	8.52	12.78	17.04	21.3	26.52	34.25

d. Resource Generation

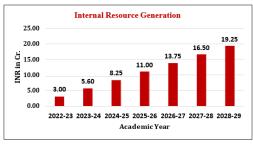


(e) Comparative Analysis









#### 7.INFRASTRUCTURE REQUIREMENT

Presently, the university has 143 acres of land out of which the existing buildings (academic, residences, and hostels) are in 95 acres and 48 acres are available. Another 80 acres of land in continuum to the existing campus has been identified and requested for transfer. If the proposed 80 acres will be available, a total of 128 acres would be used for expansion as per IDP submitted.

The existing public road bifurcates the existing campus and is used by the students, staff, and faculty to commute to academic campus from hostels and residences respectively. During the peak academic hour, there always exists high risk of accidents as it happened many a times in the past, where students have sustained major injuries. With the implementation of the IDP, the student strength would be doubled and so also the risk. Hence, it is suggested to reroute the said public road outside VSSUT premises on the bank of the power channel. It may be further noted that SDA has planned a ring road, which would bisect the proposed extended campus of VSSUT (80 acres). Hence, it is also requested to realign the proposed ring road in the similar fashion to outside the proposed extended campus of VSSUT.

It will enable to have a monolithic and integrated campus like other institutes of repute, eliminating the public trespass and thoroughfare

This layout envisions

- There will be seven Schools out of which three Schools (Electrical Sciences, Earth & Environment Sciences, Infrastructure and Planning (partially)) would be operating
  from the existing Academic Building. This existing academic building will also operate as Skill Development Centre to impart skills to the Diplomas, ITIs, and
  unemployed youth. There will be a classroom complex and a laboratory complex.
- A new campus would be created in the proposed new land. It has been planned as a Heritage Campus. This will have 4 nos. of G + 4 buildings (provision for 5 buildings) of equal size and shape, the design is inspired by the Konark Wheel. The balance 4 Schools (Computer Science, Chemical and Bio Sciences, Mechanical, and Civil) will operate from this new campus. Each School will be headed by a Dean; a single building will encompass the classrooms, laboratories, Centre of Excellence, Conference Halls, Faculty chambers related to the one School.
- The Vice Chancellor's office would be in easy accessible location to all Schools, and will house the Registrar & his / her office, CFO & his / her office, Examination Section, Administrative Section, Establishment Section, etc.
- All other academic elements e.g. the Library complex, Training & Placement, Central Research Centre, Convention Centre, Workshop with state-of-art Fab Lab, etc will come around this Central Plaza.
- All other amenities such as additional hostels, Auditorium, Students Activity Centre, Food Plaza, Shopping Centre, Indoor Sports Stadium, Guest House etc. will come at suitable locations in proximity to the Central Plaza.
- The new high-rise G + 10 residences faculties, non-teaching staff, Club House etc. will come at the existing colony after demolishing the 60-years old and heavy-
- Adequate allocation shall be made to renovate old academic buildings, and old hostels, as well as revamping of Laboratory equipment.
- It is presumed that it would take 5 years to complete the above works. Once completed, the existing but renovated building shall be released to open a School of Medical Technology (50 students a year, a total strength of 250).
- Establishment of CoEs in schools

SI#	Centres of Excellences	SI#	Centres of Excellences
1	IoT	15	Automotive & EV
2	Block Chain	16	Space Technology & Rocketry
3	Artificial Intelligence & Machine Learning	17	Tribology & Vibration Analysis
4	Augmented Reality & Virtual Realty	18	Mineral testing
5	Quantum Computing	19	Steel Making
6	Power Generation	20	Aluminium Making
7	Insulation Diagnostic Testing	21	Disaster Management
8	Semiconductor & VLSI	22	Rural Development & Sustainable Technology
9	Power Electronics	23	Smart City Design
10	Communication, 5G	24	Smart irrigation
11	Drone Technology	25	Biomedical Engineering

12	Robotics & Mechatronics	26	Petroleum Engineering
13	Welding Technology	27	Nuclear Science
14	Manufacturing & Additive Technology		

The Land structure (Existing + Proposed)



The Proposed new Infrastructure

(a) Academic Schools



(b) Laboratory Complex



(c) Smart Classroom Complex



(d) Residential facility for faculty & Staff



Total estimated cost for this scheme is INR 2000 Crores. The detail cost estimates along with implementation plan is given in ANNEXURE – 2. It may be noted that a cost estimate of Rs 4000/- is used per sqft unless otherwise stated specifically.

ESTIN	IATED BUDGET		1	,
SI#	Particulars	Area in sqft	Cost	Total
SCH	OOLS, Admin, Classrooms & Lab Complex			622
1	School of Computer Engg + furniture+ Acs	5 x 35,000	84	
2	School of Mechanical Engg+ furniture+ Acs	5 x 35,000	84	
3	School of Chemical and Biosciences+ furniture+ Acs	5 x 35,000	84	
4	School of Humanities & Basic Sc.(first-year classes labs)	5 x 20,000	50	
5	School of Infrastructure and Planning+ furniture+ Acs+	5 x 25,000	60	
	Existing Bldg			
6	School of Earth and Environmental Sc.+ Furniture+ Acs	-	10	
7	School of Electrical Engg+ furniture+ Acs	-	14	
8	Office of VC ( + Admn, Fin. Exam)	5 x 25,000	60	
9	Classroom Complex+ furniture+ Acs	5 x 40,000	88	
10	Laboratory Complex+ furniture+ Acs	5 x 40,000	88	
RESI	DENCES Faculty & Staff		1	400
1	Faculty Residence: 500 qtrs: 1400 Sqft	7,00,000	280	
2	Non-teaching Staff: 250 qtrs: 1200 Sqft	3,00,000	120	
HOS	TELS for 7100 students		1	575
1	1000 Capacity 7 Hostels @ 80 Cr per Hostel	-	560	
2	50-room married accommodation	50x450	10.4	
3	50-room Foreign students	50x200	4.6	
CAPI	EX for Academic Elements			153
	Fab Lab and state-of-art Workshop (CNC m/c,		T	
1	Laser cutters, 3D printers, lathe, drilling)	50,000	20	
2	Library Complex, 2000 seating	40,000	16	
3	Establishment of CoEs (Equipment, Software)	40,000	70	
3			70	
4	Training & Placement Complex, Online Exam - 1000, 10	30,000	12	
	rooms for Interview, Gallery – 500			
5	Central Research Facility (CRF)	25,000	10	
6	Convention Centre, Gallery halls – 2000, 1000	60,000	25	
	EX for Co-Curricular and Extra-Curricular Amenities			134
1	Auditorium (6000 Students), @10,000/-	30,000	30	
2	Students Activity Centre	60,000	24	
3	Food Complex Cum Shopping Centre (5x200 Seats)	25,000	10	
4	Guest House with 100 rooms (20 suits)	50,000	20	
5	Indoor and outdoor Sports facilities (5000 Students)	1,00,000	50	
	@5000/-			
REN	OVATION of old buildings and laboratories:	1	1	56
1	Repair of 6 old hostels (65 yrs old)		6	
2	Repair of the academic building	1	25	
3	Upgradation of aged outdated Lab equipment		25	
CAPI	 EX for additional Components:	1	1	60
1	Land Grading, Roads, Drains, Horticulture	-	50	
2	Dedicated 33 KV Power Supply	-	10	
	Grand Total		2000	2000

## 8.CONCLUDING REMARKS

The undiluted teaching ethics, great learning culture, alumni performance, and competitive attitude of the students have earned VSSUT (formerly UCE) its place among the ivy club of IITs, NITs, IISc, or IIEST Shibpur – despite the fact that it is a State-funded institution. In Odisha, it is the only Government Engineering Institute that has a NIRF rank of 111 (only Govt institute behind NIT Rourkela and IIT Bhubaneswar).

When State is poised for unprecedented growth in industry and economy under the leadership of our visionary Chief Minister, VSSUT aspires to play a key role in this growth story by becoming a multi-disciplinary University (MERU). It envisions to be a **Factory** not only for Engineers but also to become a **Skill Development Centre** for ITIs & Diplomas of the zone for improvement in their employability and entrepreneurship. Further, it wants to become a **Diagnostic Centre for** the Industries, a breeding

ground for Low-Cost Revolutionary products, and a Nodal Centre for developing schemes for Rural and Urban Odisha.

ANNEXURE- 1

Programs Offered at VSSUT at present

### A. 4 Years B.Tech. Programme (Full Time) (All AICTE Approved)

			5	Sanc	ione	d Intake	
SL#	Name of the branch	Year of Startin g	Intake	GI N	TF W	LE***	Total
1.	Civil Engineering A	1956	90+30*	02	06	9+3*	140
2.	Chemical Engineering	2014	60	-	03	6	69
3.	Computer Science & Engineering A	1994	30+30*	01	03	3+3*	69
4.	Electrical Engineering A	1956	120	02	06	12	140
5.	Electrical & Electronics Engineering	2010	30+30*	-	03	3+3*	69
6.	Electronics & Telecomm. Engineering A	1972	120	02	06	12	140
7.	Information Technology A	2003	60*	-	03	6	69
8.	Mechanical Engineering A	1956	120	03	06	12	141
9.	Metallurgical & Materials Engineering	2013	60	-	03	6	69
10.	Production Engineering A	1996	30+30*	-	03	3+3*	69
	TOTAL	•	840	10	42	84	976

<sup>(\*</sup> Self-sustaining programme \*\*GIN – Govt. of India Nominee

## B. 5 Years B.Arch. Programme (Full Time)

SL#	Name of the branch	Year of		Sancti	oned In	take	
		Starting	Intake	GIN*	TFW	LE***	Total
1.	Architecture	2013	20	-	-	-	20

### C. 5 Years Integrated UG & PG Dual Degree Programme (Dropped wef 2022)

SL#	Department	Name of the Specialisation	Year of Starting	Sanctione d Intake
1.	Civil Engineering	B.Tech. in Civil Engg & M.Tech. in Structural Engg.	2015	18
2.	Electrical Engg.	B.Tech. in Electrical Engg. & M.Tech. in Power System Engg.	2015	18
	I	TOTAL		36

## D. 2 years M.Sc. Programme (Full Time)

SL#	Name of the Course	Specialisation	Year of Starting	Sanctioned Intake
1.	M.Sc. (Physics)	Applied Physics	2010	18
2.	M.Sc. (Chemistry)	Industrial Chemistry/ Organic Chemistry	2010	36
3.	M.Sc. (Mathematics)	Applied Mathematics	2011	18
	тот	AL		72

## E. 5 Years Integrated M.Sc. Programme (Full Time)

SL#	Name of the Specialisation	Year of Starting	Sanctioned Intake
1.	Chemistry	2013	18
2.	Physics	2014	18
3.	Mathematics	2015	18
	TOTAL		54

## F. 3 Years MCA Programme (Full Time)

SL#	Name of the Specialisation		Sanctioned Intake
1.	Master in Computer Applications	1993	30

## G. 2 Years M.TECH. Programmes (Full Time)

SL #	Department	Name of the Specialisation	Year of Starting	Sanctioned Intake
		Water Resources Engg A *	1969	18
		Structural Engineering A *	1969	18
1.	Civil Engineering	Transportation Engineering *	1975	18
		Geo-technical Engineering *	2012	18
		Environmental Science & Engineering	2012	18
		Power System Engineering A *	1969	18
2.	Electrical Engg.	Power Electronics Control & Drives  *	2011	18
		Control & Instrumentation *	2015	18
		Machine Design & Analysis A *	1972	18
3.	Mechanical Engg.	Heat Power Engineering *	1972	18
		Production Engineering A *	1972	18
4.	Electronics	Communication Systems A *	1995	18

<sup>\*\*\*</sup> LE – Lateral Entry of Diploma holders in 2nd year. A NBA Accredited TFW – Tuition Fee Waiver)

	TOTAL			
	CTE roved			360
8	Metallurgical & Materials Engg.	Industrial Metallurgy	2020	18
		Computer & Information Technology*	2018	18
7	Information Technology	Information & Communication Technology *	2013	18
		Robotics & CAD-CAM*	2015	18
6.	Production Engg.	Manufacturing Systems Engineering *	2008	18
5.	Computer Science & Engg.	Computer Science & Engg. A *	2008	18
	Telecomm. Engg.	Microwave Engineering	2015	18
	&	VLSI Signal Processing *	2012	18

### H. Ph. D. Programme

SL#	Branch	Year of Starting
1.	Architecture	2018
2.	Chemical Engineering	2017
3.	Chemistry	2010
4.	Civil Engineering	2010
5.	Computer Application	2016
6.	Computer Science & Engineering	2010
7.	Electrical Engineering / EEE	2010
8.	Electronics & Telecomm. Engineering	2010
9.	Humanities	2015
10.	Information Technology	2015
11.	Mathematics	2010
12.	Mechanical Engineering	2010
13.	Metallurgy & Materials Engineering	2015
14.	Physics	2010
15.	Production Engineering	2010

## I. Executive B. Tech. Programme (Only One Batch)

SL#	Name of the Executive B.Tech. Programme	Name of the Departments	Year of Starting	No. of Student Enrolled
1.	Power Engineering	Electrical Engineering Mechanical Engineering	2017	15
2.	Manufacturing and Process Engineering	Metallurgy & Materials Engineering Production Engineering	2017	15
	1	TOTAL		30

ANNEXURE - 2

Detail Expansion Plan

### A. SCHOOLS, Admin Bldg, Classroom Complex, Laboratory Complex: 622 Crores

Each schools will have Gallery Hall Classrooms, Laboratory Rooms, Centres of Excellence, Chambers for Professors & Lab Equipment, Central AC, furniture, gadgets like computer, scanner, printer.

SI#	School	Size	Area in ft2	Cost per ft2	Cost INR Cr	Lab/ AC / Furniture INR Cr
1	School of Computer Engg	G + 4	5 x 35,000	4000	70	14
2	School of Mechanical Engg	G + 4	5 x 35,000	4000	70	14
3	School of Chemical and Biosciences	G + 4	5 x 35,000	4000	70	14
4	School of Infrastructure and Planning	G + 4 + Existing Bldg.	5x25,000	4000	50	10
5	School of Humanities & Basic Science(first-year classes, labs)	G + 4	5x20,000	4000	40	10
6	Office of VC ( + Admn, Fin. Exam)	G + 4	5 x 25,000	4000	50	10
7	Classroom Complex	G + 4	5 x 40,000	4000	80	08
8	Laboratory Complex	G + 4	5 x 40,000	4000	80	08
9	School of Earth and Environmental Sc.	Existing Bldg.	-	-	-	10
10	School of Electrical Engg	Existing Bldg.	-	-	-	14
	Total		-		510	112

### B. RESIDENCES for Faculty & Staff: 400 Crores

|--|

	Total					400
2	Non-teaching Staff	250	1200	300,000	4000	120
1	Faculties	500	1400	700,000	4000	280

C. Hostel for 7100 students (hostel rooms exist for 3300 students): 575 Crores

SI#	School	Nos of rooms	Ft2 per room	Total Area(*)	Cost per ft2	Cost in INR Cr
1	1000 Capacity 7 Hostels @ 80 Cr per Hostel	-	=	=	Ξ	560
2	room married accommodation	50	450	25,875	4000	10.4
3	50-room Foreign students	50	200	11,500	4000	4.6
	Ţ	otal	-1	1	I	575

Considering 15% additional space for common use, e.g, Common Room, TV room, Washrooms

### D. CAPEX for Academic Elements: 153 Crores

SI#	Item	Capacity	Plinth area ft2	Total INR
			area 112	Cr
1	Fab Lab and state-of-art Workshop (CNC m/c, Laser cutters, 3D printers, lathe, drilling)		40,000	20
2	Library Complex	2000 seating	40,000	16
3	Establishment of <b>CoEs</b> (Equipment, Software)			70
4	Training & Placement Complex	Online Exam - 1000, 10 rooms for Interview, Gallery - 500	25,000	12
5	Central Research Facility (CRF)		25,000	10
6	Convention Centre	Gallery halls – 2000, 1000	50,000	25
	Total			153

### E. CAPEX for Co-Curricular and Extra-Curricular Amenities: Rs. 134 Crores

SI	Item	Capacity	Plinth area ft2	Total INR Cr
1	Auditorium	6000	30,000 @Rs. 10000	30
2	Students Activity Centre		60,000	24
3	Food Complex Cum Shopping Centre	5x200 seat	25,000	10
4	Guest House	100 rooms 20 suits	50,000	20
5	Indoor and outdoor Sports facilities	5000	100,000 @5000	50
	Total			134

F. Renovation of old buildings and laboratories: Rs. 56 Crores

SI	Particulars	Estimate in Rs Cr
1	Repair of 6 old hostels (65 yrs old)	6
2	Repair of the academic building	25
3	Upgradation of aged outdated Lab equipment	25
	Total	56

## G. CAPEX for additional Components: Rs. 60 Crores

Dedicated 33 KV Power Supply	10
Dedicated 33 KV Power Supply	10
	Land Grading, Roads, Drains, Horticulture  Dedicated 33 KV Power Supply

Implementation Plan

A. PHASE I: (July 2022-December 2025)

SI#	Particulars	Cost in (Crs)
1	School of Computer Engg	84
2	School of Mechanical Engg	84
3	School of Chemical and Biosciences	84
4	School of Infrastructure and Planning	60
5	School of Humanities and Social Sciences	50
6	Office of VC ( + Admn, Fin. Exam)	60
7	Classroom Complex	88
8	Laboratory Complex	88

Institute Marks: 10.00

475
48
55

After Phase I construction, 740 UG seats will be increased in first-year admission in academic session 2026-27. Lateral Entry (LE) seats will be increased by 120 seats in academic session 2027-28.

#### B. PHASE II: (July 2025-December 2027)

SI#	Particulars	Cost in (Crs)
1	Setting up of COEs (Equipment)	60
2	CAPEX for Academic Elements	23
3	Residential houses for teaching (100) and non-teaching (50) staff	80
4	Hostels and dining space	100
5	School of Electrical Engg (Furniture + Equipment etc.)	14
6	School of Earth & Environmental Sc. (Furniture + Equipment etc.)	10
5	CAPEX for Co-Curricular and Extra Curricular Amenities	64
	TOTAL	351

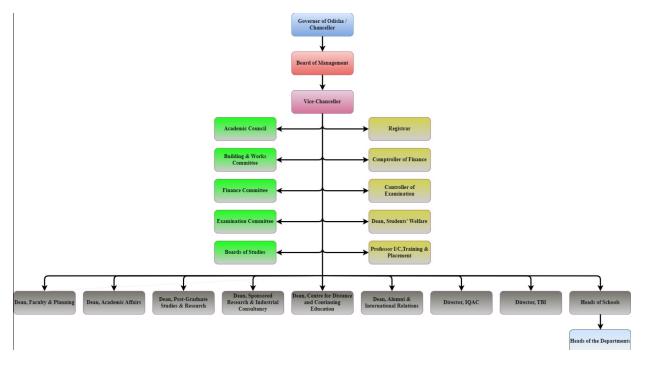
After phase II construction, 400 seats will be increased in academic session 2028-29.

### C. **PHASE III:** (July 2027-July 2029)

SI#	Particulars	Cost in (Crs)
1	Setting up of COEs (Equipment)	10
2	CAPEX for Co-Curricular and Extra Curricular Amenities	70
3	CAPEX for Academic Elements	60
4	Renovation of Old Bldgs and laboratories	08
5	Roads, land Grading, Dedicated Power Supply	05
	Total	153

The Institutional Development Plan (IDP), having received the blessing of the Honorable Chief Minister of Odisha, is now poised for action. In the initial phase, the Industrial Development Corporation of Odisha (IDCO) has set forth a tender for infrastructure enhancement. A vigilant committee oversees the execution of this plan. Additionally, the Department of Skill Development and Technical Education, as the parent entity within the Odisha government, conducts monthly reviews to ensure the successful realization of this transformative endeavor.

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



## List of Members of the Board of Management of VSSUT, Burla

SI. No.	Name & address	Position	Nature of Membership	
1	Prof. Bansidhar Majhi, Vice Chancellor, VSSUT, Burla	Chairman	Ex-officio	
2	Smt. Usha Padhee, IAS, Principal Secretary to Government of Odisha, Skilled Development & Technical Education Department, Government of Odisha, Bhubaneswar	Member	-do-	
3	The Director, Technical Education & Training, Odisha, Killa Maidan, Buxibazar, Cuttack - 1	Member	-do-	
4	Additional Secretary to Govt. (ES-II) Finance Department, Govt. of Odisha, BBSR.	Member	-do-	
5	Hon'ble Vice-Chancellor, Biju Pattnaik University of Technology, Odisha, Rourkela	Member	-do-	
6	Shri Pradeep Dang, OAS (S) Registrar, VSSUT,Burla	Convenor- Cum- Secretary	-do-	
7	Prof. Chintamani Mahapatra, Centre for Canadian, US& Latin American Studies School of International Studies, Jawaharlal Nehru University, New Delhi	Member	Nominee of UGC	
8	Dr. Damodar Acharya, DN Oxy Park, Tower-II, 16th Floor, Flat No.2173, Dumduma, Bhubaneswar - 751019	Member	Nominee of AICTE	
9	Prof. Debadutta Mishra , Professor in Prod. Engg.,VSSUT, Burla.	Member	Nominee of VC (Seniority-cum- rotation basis among Professors)	
10	Prof. Sidharth Panda, Professor of Electrical Engg. VSSUT, Burla	Member	Academic Council Nominee	
11	Prof. Sanjay Kumar Patro, Professor of Civil Engg. VSSUT, Burla	Member	Academic Council Nominee	
12	Prof. S Karmalkar, Director, IIT, Bhubaneswar	Member	Chancellors Nominee(Reputed Institute)	
13	Er. Ashesh Padhy, VP & Head-Project, JSW Paradip Steel Project.	Member	Chancellors Nominee(Alumni)	
14	Prof. Sukumar Mishra, Professor in Electrical Engg., IIT, Delhi	Member	Chancellors Nominee(Alumni)	
15	Shri Sarada Prasad Nayak, M.L.A, At-C/136, Sector-1, P.S. Sector-1	Member	Nominee of Odisha Legislative Assembly	
16	Shri Sudam Marndi, M.L.A, Bija7yaramchandrapur, Ward No. 17., Bhanjpur, Dist- Mayurbhanaj	Member	Nominee of Odisha Legislative Assembly	

Member of Academic Council

	Ex-officio member as per clause No.21-2a (i) of VSSUT Act 2008	
1.	Prof. Bansidhar Majhi, Vice-Chancellor (http://vssut.ac.in/vice-chancellor-s-message.php)	Chairman
	Ex-officio members as per clause No.21-2a (ii) of VSSUT Act 2008	<u> </u>
2	Dean, Academic Affairs	Member Secretary
3	Dean, PGS&R	Member
4	Dean, SRIC	Member
5	Dean, CDCE	Member
6	Dean Students Welfare	Member
7	Dean, Faculty & Planning	Member
8	Dean, Alumni & International Relations	Member
9	Dean, School of Chemical & Bio-Sciences	Member
10	Dean, School of Computer Sciences	Member
11	Dean, School of Electrical Science	Member
12	Dean, School of Humanities & Basic Science	Member
13	Dean, School of Infrastructure & Planning	Member
14	Dean, School of Mechanical Sciences	Member
15	HOD, Chemical Engineering	Member
16	HOD, Civil Engineering	Member
17	HOD, Computer Sc. & Engineering	Member
18	HOD, Electrical Engineering	Member
19	HOD, Electrical & Electronics Engineering	Member
20	HOD, Electronics & TC Engineering	Member
21	HOD, Information Technology	Member
22	HOD, Mechanical Engineering	Member
23	HOD, Metallurgical & Materials Engg.	Member
24	HOD, Production Engineering	Member
25	HOD, Architecture	Member
26	HOD, Chemistry	Member
27	HOD, Mathematics	Member
28	HOD, Physics	Member
29	HOD, Humanities	Member
30	HOD, Computer Application	Member
31	Controller of Examination	Member
	Ex-officio members as per clause No.21-2a (iii) of VSSUT Act 2008	1
32	Prof. P.C. Swain, Professor, Civil Engg.	Member
33	Prof. B. B. Pati, Professor, Electrical Engg.	Member
34	Prof. R. K. Sahu, Professor, Electrical & Electronics Engg.	Member
35	Prof. Sanjay Agrawal, Professor, Electronics & TC Engg.	Member
36	Prof. H.S. Behera, Professor, Information Technology	Member
37	Prof. P.R.Dash, Professor Mechanical Engg.	Member
38	Prof. S.K. Badjena, Professor, Metallurgical & Materials Engg.	Member
39	Prof. D. Mishra, Professor, Production Engg.	Member

40	Prof. P.K. Kar, Professor, Chemistry	Member							
41	Prof. S. K. Paikray, Professor, Mathematics	Member							
42	Prof. Ganeswar Nath, Professor, Physics	Member							
	Ex-officio members as per clause No.21-2a (iv) of VSSUT Act 2008								
43	Dr. Debabrata Giri, Associate Professsor, Civil Engg.	Member							
44	Dr. Kishore Kumar Sahu, Assistant Professor, Information Technology	Member							
45	Sri Sanjib Kumar Nayak, Assistant Professor, Computer Application	Member							
	Members as per clause No.21-2b (i), (ii), (iii) of VSSUT Act 2008								
46	Prof. Niord Chandra Sahoo, Professor of Electrical Sciences, IIT, Bhubaneswar	Member							
47	Prof. Kishanjit Kumar Khatua, Professor of Civil Engg., NIT, Rourkela	Member							
48	48 Prof. Tushar Kumar Nath, Professor of Civil Engg., IGIT, Sarang Me								
	Members as per clause No.21-2b (iv) of VSSUT Act 2008								
49	Mr. Saroj Kumar Panda, Regd. No. 2002090001, B.Tech, Mechanical Engg.	Member							
50	Mr. Suraj Kumar Pal, Regd. No. 2002070039, B.Tech, Electronics & TC Engg.	Member							
51	Ms. Swarnaprabha Dehury, Regd. No. 2205100006, M.Tech, MME	Member							
52	52 Mr. Tanmaya Kumar, Regd. No. 2002090138, B.Tech, Mechanical Engg. Member								
	External academic council members								
53	Prof. N. C. sahoo, Prof, Electrical sciences, IIT BBSR	External Member							
54	Prof. K. K. Khatua, Prof Civil Engg, NIT RKL	External Member							
55	Prof. T. K. Nath, Prof Civil engg, IGIT Sarang	External Member							

Frequency of the meetings: Twice in a year and special meetings under obligations.

The information related to the frequency of the meetings; and attendance therein, minutes of the meetings and action-taken reports are available at https://www.vssut.ac.in/proceedings.php (https://www.vssut.ac.in/proceedings.php)

The published rules including service rules, policies and procedures available and disseminated to all stake holders and public at

VSSUT Act: https://vssut.ac.in/doc/VSSUT\_ACT.pdf (https://vssut.ac.in/doc/VSSUT\_ACT.pdf)

 $\textbf{VSSUT Statute:} \ \text{https://vssut.ac.in/doc/VSSUT-Statute.pdf} \ (\text{https://vssut.ac.in/doc/VSSUT-Statute.pdf})$ 

10.1.4 Decentralization in working and grievance redressal mechanism (5)

Institute Marks: 5.00

### ADMINISTRATION AT VSSUT, BURLA

01	The Vice-Chancellor	Prof. Banshidhar Majhi (https://www.vssut.ac.in/administration.php)
02	The Registrar	Shri Pradeep Dang
	The Comptroller of Finance	Sri Tularam Kalet, OFS-1 (SB)
	The Controller of Examinations	Dr. Achyut Kumar Panda (https://vssut.ac.in/faculty-profile.php?furl=achyut-kumar-panda)
05	The Librarian	Dr. (Mrs.) Archita Nanda
06	The Dean of the Students' Welfare	Prof. Sanjaya Kumar Patro (https://www.vssut.ac.in/faculty-profile.php? furl=sanjaya-kumar-patro-arch)
	The Dean, Academic Affairs	Prof. Sanjay Agrawal (http://www.vssut.ac.in/faculty-profile.php?furl=sanjay-agrawal)
. 80	The Dean, Post-Graduate Studies & Research	Prof. Himanshu Sekhar Behera (https://vssut.ac.in/faculty-profile.php? furl=himanshu-sekhar-behera)
	The Dean, Faculty & Planning	Prof. Ramakanta Panigrahi
10	The Dean, Alumni & International Relations	Dr. Anil Kumar Kar (http://www.vssut.ac.in/faculty-profile.php?furl=anil-kumar-kar)
11	The Dean, Centre for Distance and Continuing Education	Prof. Saroj Kumar Sarangi (https://www.vssut.ac.in/administration.php)
12	The Dean, Sponsored Research & Industrial Consultancy	Prof. Sukalyan Dash (https://www.vssut.ac.in/administration.php)
13	HOS, School of Computer Sciences	Prof. Himanshu Sekhar Behera (https://vssut.ac.in/faculty-profile.php? furl=himanshu-sekhar-behera)
14	HOS, School of Infrastructure & Planning	Prof. Sudhanshu Sekhar Das
15	HOS, School of Mechanical Sciences	Prof. Debadutta Mishra
16	HOS, School of Electrical Science	Prof. Sidhartha Panda
17	HOS, School of Humanities & Basic Science	Prof. Jayaprakash Panda
18	HOS, School of Chemical & Bio-Sciences	Prof. Jayadev Rana (http://www.vssut.ac.in/faculty-profile.php?furl=jaydev-rana)
19	Medical Officer (on deputation from Government of Odisha)	Vacant
20	Maintenance Engineer	Prof. Ramkrishna Dandapat (http://vssut.ac.in/faculty-profile.php?furl=ramkrishna- dandapat)
21	Workshop Superintendent	Dr. Rabindra Behera
	Physical Training Instructor	Vacant
23	Director, IQAC	Prof. Amarnath Nayak (https://www.vssut.ac.in/administration.php)
	Director, TBI, (VSSUT - ASSIST)	Prof. Debadutta Mishra (http://www.vssut.ac.in/faculty-profile.php?furl=debadutta-mishra)
25	Coordinator , TEQIP - III	Prof. Amar Nath Nayak (http://vssut.ac.in/faculty-profile.php?furl=amar-nath-nayak)
26	H.O.D., Architecture	Dr. Bharati Mohapatra (http://vssut.ac.in/faculty-profile.php?furl=bharati-mohapatra)
27	H.O.D., Chemical Engineering	Dr. Pankaj Charan Jena (http://vssut.ac.in/faculty-profile.php?furl=pankaj-charan- jena)
28	H.O.D., Chemistry	Dr. Trinath Biswal (https://vssut.ac.in/faculty-profile.php?furl=trinath-biswal)

29	H.O.D., Civil Engineering	Dr. Rakesh Roshan Dash (https://vssut.ac.in/faculty-profile.php?furl=rakesh-roshan-dash)
30	H.O.D, Computer Application	Dr. Satyabrata Das (https://vssut.ac.in/faculty-profile.php?furl=satyabrata-das)
31	H.O.D., Computer Sc. & Engg.	Dr. Suvasini Panigrahi (https://vssut.ac.in/faculty-profile.php?furl=suvasini- panigrahi)
32	H.O.D., Electrical Engineering	Dr. Papia Ray (http://www.vssut.ac.in/faculty-profile.php?furl=papia-ray)
33	H.O.D, Electrical & Electronics Engineering	Dr. Santi Behera (https://vssut.ac.in/faculty-profile.php?furl=santi-behera-el)
34	H.O.D., Electronics & TC Engineering	Prof. Harish Kumar Sahoo (http://vssut.ac.in/faculty-profile.php?furl=harish-kumar-sahoo)
35	H.O.D., Humanities	Dr. Jayaprakash Paramguru (http://vssut.ac.in/faculty-profile.php? furl=jayaprakash-paramaguru)
36	H.O.D., Information Technology	Dr. Pradip Kumar Sahu (http://vssut.ac.in/faculty-profile.php?furl=pradip-kumar-sahu)
37	H.O.D., Mathematics	Dr. Mahendra Kumar Jena (http://vssut.ac.in/faculty-profile.php?furl=mahendra- kumar-jena)
38	H.O.D., Mechanical Engineering	Dr. Sumanta Panda (http://vssut.ac.in/faculty-profile.php?furl=sumanta-k-panda)
39	H.O.D., Metallurgy & Materials Engineering	Dr. Sushant Kumar Badjena (http://vssut.ac.in/faculty-profile.php?furl=sushant-kumar-badjena)
40	H.O.D., Physics	Dr. Ganeswar Nath (https://vssut.ac.in/faculty-profile.php?furl=ganeswar-nath)
41	H.O.D., Production Engineering	Dr. Arun Kumar Rout (http://vssut.ac.in/faculty-profile.php?furl=arun-kumar-rout)
42	PIC, Training & Placement	Prof. Prasanta Nanda
43	PIC, Alumni Relation	Dr. Sanjay Agrawal (http://www.vssut.ac.in/faculty-profile.php?furl=sanjay-agrawal)
44	PIC, Canteen Committee	Prof. Trinath Biswal (https://vssut.ac.in/faculty-profile.php?furl=trinath-biswal)
45	PIC, Central Computing Facility	Prof. Arunanshu Mahapatro (http://www.vssut.ac.in/faculty-profile.php? furl=arunanshu-mahapatro)
46	Coordinator, Central Research Facility	Dr. Saroj Ku. Sarangi (https://www.vssut.ac.in/faculty-profile.php?furl=saroj-kumar-sarangi)
47	PIC, Central Library	Dr. Sunanda Kumari Patri (https://www.vssut.ac.in/administration.php)
48	PIC, Central Stores & Purchase	Dr. S.K. Paikray (https://www.vssut.ac.in/administration.php)
49	PIC, Central Transport Facility	Dr. Rabindra Behera
50	PIC, Civil Maintenance	Dr. Debabrata Giri (https://www.vssut.ac.in/faculty-profile.php?furl=debabrata-giri)
51	PIC, e-Abhijoga & MO SARKAR	Prof. Manoranjan Pradhan (http://www.vssut.ac.in/faculty-profile.php? furl=manoranjan-pradhan)
52	PIC, Electrical Maintenance	Dr. Deepak Kumar Lal (http://vssut.ac.in/faculty-profile.php?furl=deepak-kumar-lal)
53	PIC, Examinations	Dr. Kishore Kumar Sahu (https://www.vssut.ac.in/administration.php)
54	PIC, Guest House	Prof. Nilamani Bhoi (http://vssut.ac.in/faculty-profile.php?furl=nilamani-bhoi)
55	PIC, House Allotment	Prof. Sudhanshu Sekhar Das (https://vssut.ac.in/faculty-profile.php? furl=sudhanshu-sekhar-das)
56	PIC, Automation	Dr. G.R. Shial (https://www.vssut.ac.in/administration.php)

57	PIC, Convocation	Prof. S.S. Das (https://www.vssut.ac.in/administration.php)
58	PIC, CRF	Dr. T.R. Mohapatra (https://www.vssut.ac.in/administration.php)
59	PIC, Horticulture	Prof. Pandaba Patro (https://vssut.ac.in/faculty-profile.php?furl=pandaba-patro)
60	PIC, Industry-Institute Interaction	Prof. A.N. Nayak (https://www.vssut.ac.in/administration.php)
61	PIC, Innovation	Prof. D. Mishra (https://www.vssut.ac.in/administration.php)
62	INO, Scholarship	Dr. Sumitra Kisan (https://www.vssut.ac.in/administration.php)
63	PIC, Lawns & Gardens	Dr. Lipika Parida (https://www.vssut.ac.in/administration.php)
64	PIC, Land Settelment	Prof. S. Agrawal (https://www.vssut.ac.in/administration.php)
65	PIC, Nua-O Scheme for skilling	Dr. Sasmita Behera (https://www.vssut.ac.in/administration.php)
66	PIC, Security	Dr. G.R. Biswal (https://www.vssut.ac.in/administration.php)
67	PIC, Public Relations	Prof. Priyaranjan Mohapatra (https://www.vssut.ac.in/faculty-profile.php? furl=priyaranjan-mohapatra)
68	PIC, Telephones	Dr. Pankaj Charan Jena
69	PIC, Time Table & IPR Cell	Prof. Sarojrani Pattnaik (https://vssut.ac.in/faculty-profile.php?furl=sarojrani- pattnaik)
70	PIC, University Seminar	Prof. Sasmita Acharya (https://vssut.ac.in/faculty-profile.php?furl=sasmita-acharya)
71	Assistant Controller, Examination	Mr. Suresh Srichandan (https://www.vssut.ac.in/administration.php)
72	Assistant Controller Examination & PIC, NAD	Dr. Bibhuti Prasad Sahoo (https://www.vssut.ac.in/administration.php)
73	Assistant Controller Examination & PIO, RTI	Dr. D.C. Rao (https://www.vssut.ac.in/administration.php)
74	CTO,NCC	Dr. Aditya Kumar Hota (https://www.vssut.ac.in/administration.php)
75	Head, Innovation Center	Prof. Debadutta Mishra (http://www.vssut.ac.in/faculty-profile.php?furl=debadutta-mishra)
76	Chairman, Estate Committee	Prof. Sudhanshu Sekhar Das (https://vssut.ac.in/faculty-profile.php? furl=sudhanshu-sekhar-das)
77	Chairperson, ICC	Prof. Sucheta Panda (http://www.vssut.ac.in/faculty-profile.php?furl=sucheta-panda)
78	First Appellate Authority, RTI	Prof. S.S. Das (https://www.vssut.ac.in/administration.php)
79	PIO, RTI Cell	Dr. Ashok Kumar Sahoo (http://vssut.ac.in/faculty-profile.php?furl=ashok-kumar-sahoo)
80	QIP (Govt. of India)	Prof. Piyush Ranjan Das (http://www.vssut.ac.in/faculty-profile.php?furl=piyush-ranjan-das)
81	Faculty Branch Counselor, IEEE Student Chapter	Dr. Harish Kumar Sahoo (http://www.vssut.ac.in/faculty-profile.php?furl=harish-kumar-sahoo)
82	Faculty Advisor, ASME Student Chapter	Dr. Kiran Kumar Ekka (http://www.vssut.ac.in/faculty-profile.php?furl=kiran-kumar-ekka)
83	ISTE Coordinator	Mr. Suvendu Narayan Mishra (http://www.vssut.ac.in/faculty-profile.php? furl=suvendu-narayan-mishra)
84	CTO, National Cadet Corps	Dr. Birendra Kumar Barik (http://www.vssut.ac.in/faculty-profile.php?furl=birendra- kumar-barik)

85	PIC, Mo College Abhijan & Coordinator NSS	Prof. A.K. Kar (https://www.vssut.ac.in/administration.php)			
86	NPS Coordinator	Mr. Suvendu Narayan Mishra (http://www.vssut.ac.in/faculty-profile.php? furl=suvendu-narayan-mishra)			
87	Vice President, Students' Cultural Society	Dr. Anil Kumar Kar (http://www.vssut.ac.in/faculty-profile.php?furl=anil-kumar-kar)			
88	Vice President, Students' Sports Society	Dr. Manas Ranjan Senapati (http://www.vssut.ac.in/faculty-profile.php? furl=manas-ranjan-senapati)			
89	Vice President, Students' Technical Society	Dr. Harish Kumar Sahoo (http://www.vssut.ac.in/faculty-profile.php?furl=harish-kumar-sahoo)			
90	Secretary, Alumni Association	Dr. Pradip Kumar Sahu (http://www.vssut.ac.in/faculty-profile.php?furl=pradip- kumar-sahu)			

### STUDENTS GRIEVANCE REDRESSAL

Student Grievance Redressal Committee (SGRC)

- Dean, Academic Affairs Member-Convenor
- Dean, PGS & R Member
- Dean, Faculty & Planning Member
- Dean, CDCE Member
- Dean, SRIC Member
- Controller of Exams Member

Note: In of case of any emergency, the aggrieved is free to go to Vice-Chancellor directly.

Dean, Students' Welfare, VSSUT has been appointed as the 'OMBUDSPERSON' of the University. The 'OMBUDSPERSON' shall hear and decide the appeals of student(s) against the decision(s) of the 'Student Grievance Redressal Committee' (SGRC).

The above committee will only deal with student grievances that are not adhered in purview of Internal Complaints Committee, Anti-Ragging Committee, SC/ST Committee and Disciplinary committees.

The Committee can also address grievances from applicants to admission for various programs. The committee can address individual as well as collective grievances of the students of the University.

List of various level for addressing the issues on grievances are as under:-

Grievance	FIRST LEVEL	SECOND LEVEL	THIRD LEVEL
Particular Course Related	Concerned Heads	Dean Academic Affairs	
Academics Related	HoDs concerned/CoE Dean Academic affairs		
Halls of Residences / Facilities Related	Asst Warden/Warden	Dean Student Welfare	
Mess affairs	Asst Warden/Warden Dean Student Welfare		
Ragging	Warden/Dean Student welfare	Anti Ragging Cell	Student Grievance Redressal Committee' (SGRC)
Student Clubs/Societies	Faculty Advisor/Vice- President	Dean Student Welfare	
SC/ST Complaint	SC-ST Cell https://vssut.ac.in/doc/ SCST_Cell_Edited_on_05-07-20 (https://vssut.ac.in/doc/ SCST_Cell_Edited_on_05-07-20	•	
Sexual Harassment	Internal Complaints Committee https://www.vssut.ac.in/icc.php (hwww.vssut.ac.in/icc.php)	ittps://	

### 10.1.5 Delegation of financial powers (5)

Institute Marks : 5.00

The financial powers delegated to the Vice chancellor, Registrar, The Comptroller of Finance, Deans, Heads of Departments, Hostel Wardens and relevant incharges of the institution are explicitly mention in the VSSUT Act (https://vssut.ac.in/doc/VSSUT\_ACT.pdf (https://vssut.ac.in/doc/VSSUT\_ACT.pdf)) and Statute (https://vssut.ac.in/doc/VSSUT-Statute.pdf (https://vssut.ac.in/doc/VSSUT-Statute.pdf)).

## 10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

The correct/unambiguous information on policies, rules, processes to stakeholders is made transparently available in public domain at https://www.vssut.ac.in/ (https://www.vssut.ac.in/) (University website)

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Total Marks 15.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year), CFYm1: (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3 : (Current Financial Year minus 3)

### Table 1 - CFY 2023-2024

Total Income 1574968398			Actual expenditure(till	Total No. Of Students 4329			
Fee	Govt.	Grants	Other sources(specify) interest, overhe	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify student events	Expenditure per student
152511050	679020000	710990997	32446351	804296697	76735192	70000000	365218.73

#### Table 2 - CFYm1 2022-2023

Total Income 1196173168			Actual expenditure(till	Total No. Of Students 3968			
Fee	Govt.	Grants	Other sources(specify) interest, overher	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
192880199	954760784	13225798	35306387	1096980395	146833804		313461.24

### Table 3 - CFYm2 2021-2022

Total Income 1157593002			Actual expenditure(till	Total No. Of Students 3968			
Fee	Govt.	Grants	Other sources(specify) interest, overhea	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
183542101	923789000	5912187	44349714	867835246	174891732		262784.02

#### Table 4 - CFYm3 2020-2021

Total Income 891416198			Actual expenditure(till): 954597290			Total No. Of Students 4011	
Fee	Govt.	Grants	Other sources(specify) interest, overhea	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
229667807	610331000	6081266	45336125	807799836	146797454		237994.84

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till
Infrastructure Built-Up	7100000	7767351	3084878	1277353	2608750	1699249	5700000	1249561
Library	1900000	8829028	2425000	7692601	1000000	506505C	1940000	1159821
Laboratory equipment	1793751	1014852	1240824	1185623	5445170	5329148	4688970	4466806
Laboratory consumables	2000000	1862485	1500000	2391752	7200000	1554830	7200000	2311030
Teaching and non-teaching stat	8980101	7071154	7924497	7798179	695558€	7707207	5560498	7544991
Maintenance and spares	7125000	1081280	2369000	1956028	1005000	4354794	1005000	3413486
R&D	5807420	5807420	1140587	1140587	8727112	8727112	8762183	8762183
Training and Travel	6500000	3177154	6200000	1668574	150000C	692831	1500000	401354
Miscellaneous Expenses*	2015000	8288349	2109250	2524572	1991000	4324284	2013600	1695092
Others, specify	4877472	3383211	3940280	3516366	2842664	4717092	2742664	3981967
Total	1817429775	1566608479	976747958	1022538008	1047692542	1056783238	660913633	967178906

## 10.2.1 Adequacy of budget allocation (5)

The University prepares budgets under the head Plan & Non-plan for all the departments based on the minimum requirement. The budget is bi-annually submitted to Govt. for their consideration. The Accounts Section of the University also provides the budget for salary of both teaching and non teaching staff members under non-plan head. The budget is prepared by the statutory Finance Committee by collecting individual budget from all departments, schools, sections and central accounts as per issued directives. Budget is allotted to each department towards up-gradation of laboratories, laboratory consumables and repair of laboratory equipment etc., internal adjustments are made as per the urgency, in specific cases. Thrust is given on development of infrastructure, academic development programme, research, etc. Each laboratory maintains its own record in the form of stock register which records the information related to new purchases, repairs etc. The allocated budget gets sanctioned based on the budget predictions given by the departments for every academic year on the basis of past experience and anticipated future projects.

## 10.2.2 Utilization of allocated funds (5)

Institute Marks: 5.00

The allocated funds have been utilized for the purchase of new laboratory equipment (computers), software, training and travel and other miscellaneous expenses for

Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on proposal basis on recommendation by committees and approval by the Vice Chancellor/BOM as per the allocated financial power. Major works like construction, up gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture etc. are controlled by the central facilities such as Central Stores, Central Computing Facility, Civil Works and Electrical Maintenance. The budget amount is allocated for the creation of capital assets and to cover operational expenses according to budgetary guidelines. Capital assets encompass items such as laboratory equipment, study resources, and laboratory facilities. Operational expenses include salaries, research promotion, maintenance, spares, and other relevant expenditures. The utilization heads are detailed in the audited statements of accounts for each year. The utilization certificate is regularly submitted to Govt. of Odisha after due utilization of funds every year.

During the last three years, the budget was utilized to meet expenses such as staff salaries, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel etc.

### 10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks: 5.00

The funds released by the Govt. are fully utilized following the norms prescribed by the Govt. The funds received from the Govt. are subject to Local Fund and Comptroller and Auditor General (CAG) audit from time to time.

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### 10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3 CFY: (Current Financial Year), CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

#### Table 1 :: CFY 2023-2024

Total Budget 10250000		Actual expenditure (till): 824139	0	Total No. Of Students 600
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
10200000	50000	8213390	28000	13735.65

#### Table 2 :: CFYm1 2022-2023

Total Budget 3980000		Actual expenditure (till): 3201000		Total No. Of Students 564	
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student	
3950000	30000	3179000	22000	5675.53	

#### Table 3 :: CFYm2 2021-2022

Total Budget 350000		Actual expenditure (till): 144292		Total No. Of Students 520	
Non Recurring	Recurring	Non Recurring Recurring		Expenditure per student	
350000	0	144292	0	277.48	

#### Table 4 :: CFYm3 2020-2021

Total Budget 600000		Actual expenditure (till): 465600		Total No. Of Students 519
Non Recurring	Recurring	Non Recurring Recurring		Expenditure per student
600000	0	465600	0	897.11

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	4000000	3577395	1500000	1062000	150000	94292	100000	65600
Software	1800000	1725995	1100000	1062000	0	0	0	0
Laboratory consumable	50000	28000	30000	22000	0	0	0	0
Maintenance and spares	200000	200000	550000	515000	0	0	0	0
R&D	3000000	196000C	0	0	0	0	0	0
Training and Travel	200000	150000	200000	100000	200000	50000	500000	400000
Miscellaneous Expenses*	1000000	600000	600000	440000	0	0	0	0
Total	10250000	8241390	3980000	3201000	350000	144292	600000	465600

### 10.3.1 Adequacy of budget allocation (10)

Institute Marks: 10.00

At the onset of the financial year, each department and unit compiles budget needs classified into recurring and non-recurring categories. These allocations are subsequently determined according to the existing funds. Oversight of expenditure falls under the purview of the Comptroller of Finance, who has the authority to approve additional allocations for specific situations. The institution diligently tracks expenses to ensure vital requirements are fulfilled while upholding the institutions operational

At the commencement of the academic session, the Heads of Departments are informed about the allocated funds for their budget proposals. This includes funding for significant projects such as construction, infrastructure upgrades, procurement and maintenance of utilities, and housekeeping etc.

### 10.3.2 Utilization of allocated funds (20)

Institute Marks: 20.00

At the onset of the academic session, all department heads receive notifications regarding the allocated funds for their budget proposals. The procurement of laboratory equipment, consumables are undertaken by the Head of Departments with due procedure mentioned in VSSUT Act (https://vssut.ac.in/doc/VSSUT\_ACT.pdf (https:// vssut.ac.in/doc/VSSUT\_ACT.pdf)) and Statute (https://vssut.ac.in/doc/VSSUT-Statute.pdf)). Significant projects such as construction, infrastructure upgrades, procurement and maintenance of utilities, housekeeping, and furniture acquisition are overseen directly by the Comptroller of Finance in collaboration with the Heads of Schools, Deans and Registrar. The Head of the Department is provided with an imprest money to meet day to day expenses and the Departments manage their own imprest accounts.

10.4 Library and Internet (20) Total Marks 20.00

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Institute Marks: 10.00

### 10.4.1 Quality of learning resources (hard/soft) (10)

#### Library overview

The library building is a three storied having area of 10,900 sq.m. The Ground floor is used for the Circulation Section, Stack area, Reprographic Section, and the General Book Bank. The first floor houses the Acquisition Section, Journal Section, Magazine & Newspaper section, and the Administrative Section of the Library. The top floor is used for E-resource Centre, Reference section, Text Book Section and SC/ST Book bank, Reading Room.

#### Available learning Print & e-Resources

#### Print Resources

Print Resources			
Books Titles	10724		
Books Volumes	68162		
Periodicals	30		
Bound Volume	9626		
Theses, Dissertations	739		

#### • E-Resources

e-Resources				
eBooks	Elsevier's Science Direct) World E-book Library South Asia Archive(SAA)			
e-journal Database	Elsevier's Science Direct ISID JCCC			
e-Journals	3563+			

#### Relevance of available learning resources including e-resources

#### E-journals & Databases Collections

- Elsevier's Science Direct : 743 nos of e-journals
- American Institute of Physics: 19 e-journals on Physics, Chemistry, geoscience, engineering , acoustics and more.
- · Springer Link: 1725 e-iournals
- · Institute for Studies in Industrial Development (ISID):

The On-Line Database Index covers 252 Indian social science journals covering the disciplines of economics, political science, public administration, sociology, social anthropology, business management, finance, geography, social work, health and education, etc and 15 newspapers.

• JGate Pluss(JCCC): Around 7900+ jounals

### Bibliographic E-Database

- Scopus
- · Web of Science

### E-BOOKS

- · 311 nos of Elsevier's Science Direct ebooks
- South Asia Archive (SAA)

### Library Automation & Information Management Tools

- KOHA ILMS 17.4 : Library Automation Software
- D-Space Institutional Repository: 9626 bound volume journals are accessible to user.
- · Turnitin iThenticate: Plagiarism Software
- DrillBit: Plagiarism Software
- IRINS VIDWAN Database: Research support service to users

### <u>Library Services (Accessibility and Support to students for self learning activities):</u>

- Web OPAC is used by library patrons to search for materials without a librarians assistance. It is designed to be searched by title, author, subject, or keyword in an interface that is more user-friendly than the previous card catalog.
- · Access to a wide range of physical and digital resources such as books, journals, databases, and multimedia materials
- Assistance with information retrieval, including help with searching for and locating relevant sources for research projects · Reference services, where librarians are available to answer questions and provide quidance on research strategies.
- Interlibrary loan services (DELNET), allowing users to request materials from other libraries if they are not available in the universitys collection.
- Instructional sessions and workshops on topics such as information literacy, citation management, and research skills.
   Access to study spaces, computer workstations, and printing, scanning, and photocopying facilities.
- Online resources and services, including access to e-books, e-journals, and online databases, as well as virtual reference assistance.
- Research support services available to the users to enhance their research work through IRINS VIDWAN Database
- Institutional Repository (Dspace): 9626 nos of bound volume journals are accessible to users.
   Access to the Lecture videos from NPTEL and other open course wares
- · Access to the National Digital Library of India.

10.4.2 Internet (10) Institute Marks: 10.00

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Name of the Internet provider and Bandwidth: Currently 2 ISPs provider and bandwidth provided by the ISPs providers are as follows:

1Gbps Internet connectivity from BSNL

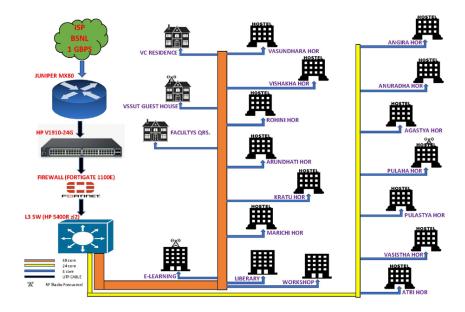
1Gbps Internet connectivity from SIFY

Currently VSSUT is having a dedicated internet connectivity of 2 Gbps.

#### Wi Fi availability:

The controller and access points are used in the Hostels of the University to provide uninterrupted internet access to the students for their academic and research work. Wi-Fi and LAN is provided to the academic and administrative buildings for faculty and staff members for their research and administrative work.

Networking: OFC / Ethernet connection from CIF Cell to all campuses. It is a secure network and each user has authentication for accessing our network. The networking switches are used at different campuses. The network backbone is illustrated as below.



Security arrangements: As far as the security is concerned VSSUT provides the security at different levels of distribution to the client level. It has Core Layer switch, Firewall and CISCO controller for protecting students and staffs members from being affected from any DOA attack, hacking from outside and inside VSSUT. It also reverents malware and virus attacks. Intrusion Prevention System threat-detection, URL filtering, Web content filtering, application filtering, and signature based filtering

## 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 2-4 program specific outcomes

PSO1	Apply the knowledge of electronic circuits, analog and digital communication, wireless communication, radar engineering and antenna systems to solve complex engineering problems in the discipline of Electronics and Telecommunication Engineering
PSO2	Develop suitable techniques and cutting-edge engineering hardware and software tools in Electronics and Telecommunication Engineering to solve practical problems.
PSO3	Aware of the impact of professional Electronics and Telecommunication Engineering solutions on social, economic, environmental and technological sustainability.

## 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 inforce as on date and the institutes hall 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 willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute
Name: Prof. Banshidhar Majhi
Designation: Vice Chancellor, VSSUT
Signature:

Place : Burla Date: 06-03-2024 20:14:46

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