



**SELF ASSESSMENT REPORT (SAR) FORMAT
UNDERGRADUATE ENGINEERING PROGRAMS
(TIER-I)**

2nd CYCLE ACCREDITATION

(Applicable for all those programs which have been granted full accreditation of 6 years under Tier I)

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(February, 2021)

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PART A: Institutional Information

- 1. Name and Address of the Institution:** Veer Surendra Sai University of Technology
Siddhi Vihar, PO- Engineering College, Burla
Sambalpur-768018, Odisha
- 2. Name and Address of the Affiliating University:** NA
- 3. Year of establishment of the Institution:** 1956

4. Type of the Institution:

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

Note:

- a. *In case of Autonomous and Deemed University, mention the year of grant of status by the authority.*
- b. *In case of University Constituent Institution, please indicate the academic autonomy status of the Institution as defined in 12th Plan guidelines of UGC. Institute should apply for Tier 1 only when fully academically autonomous.*

5. Ownership Status:

- Central Government
- State Government
- Government Aided
- Self - financing
- Trust
- Society
- Section 8 Company
- Any Other (Please specify)

Provide Details:

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

Name of the Institution(s)	Year of Establishment	Programs of Study	Location

Table A.6

Note: Add rows as needed.

7. Details of all the programs being offered by the institution under consideration:

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/ Decrease in intake, if any	Year of Increase/ Decrease	AICTE Approval	Accreditation Status*
1.	B.Tech- Civil Engineering	Civil Engineering	1956	120	60	2017	Yes	Yes (Granted accreditation for 5/6 years for the period)
2.	B.Tech- Chemical Engineering	Chemical Engineering	2014	60	No	NA	Yes	No (Eligible but not applied)
3.	B.Tech -Computer Sc. & Engineering	Computer Sc. & Engineering	1994	60	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
4.	B.Tech – Electrical Engineering	Electrical Engineering	1956	120	60	2017	Yes	Yes (Granted provisional accreditation for two/three years for the period)
5.	B.Tech - Electrical & Electronics Engg.	Electrical & Electronics Engg.	2010	60	No	NA	Yes	No (Eligible but not applied)
6.	B.Tech – Electronics & TC Engg.	Electronics & TC Engg.	1972	120	No	2017	Yes	Yes (Granted provisional accreditation for two/three years for the period)
7.	B.Tech – Information Technology	Information Technology	2003	60	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
8.	B.Tech- Mechanical Engg.	Mechanical Engg.	1956	120	No	2017	Yes	Yes (Granted provisional accreditation for two/three years for the period)
9.	B.Tech – Metallurgical & Materials Engg.	Metallurgical & Materials Engg.	2013	60	No	NA	Yes	No (Eligible but not applied)
10.	B.Tech in Production Engg.	Production Engg.	1996	60	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
11.	B. Arch - Architecture	Architecture	2013	20	No	NA	COA Approval	No (Eligible but not applied)
12.	M.Tech – Structural Engg	Civil Engineering	1969	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)

13.	M.Tech – Water Resources Engg.	Civil Engineering	1969	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
14.	M.Tech – Geotechnical Engineering	Civil Engineering	2012	18	No	NA	Yes	No (Eligible but not applied)
15.	M.Tech – Transportation Engineering	Civil Engineering	1975	18	No	NA	Yes	No (Eligible but not applied)
16.	M.Tech – Environmental Science & Engg.	Civil Engineering	2012	18	No	NA	Yes	No (Eligible but not applied)
17.	M. Tech – Computer Science & Engineering	Computer Science and Engineering	2008	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
18.	M. Tech – Computer Information and Communication Technology	Information Technology	2013	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
19.	M. Tech – Computer & Information Technology	Information Technology	2018	18	No	NA	Yes	No (Eligible but not applied)
20.	M.Tech – Power System Engineering	Electrical Engineering	1969	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
21.	M.Tech – Power Electronics and Control	Electrical Engineering	2011	18	No	NA	Yes	No (Eligible but not applied)
22.	M.Tech – Instrumentation & Control	Electrical Engineering	2015	18	No	NA	Yes	No (Eligible but not applied)
23.	M.Tech – Communication System Engineering	Electronics & Telecommunication Engineering	1995	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
24.	M.Tech – VLSI Signal Processing	Electronics & Telecommunication Engineering	2012	18	No	NA	Yes	No (Eligible but not applied)
25.	M.Tech – RF and Microwave Engg.	Electronics & Telecommunication Engineering	2015	18	No	NA	Yes	No (Eligible but not applied)
26.	M.Tech – Machine Design	Mechanical Engineering	1972	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
27.	M.Tech – Production Engineering	Mechanical Engineering	1972	18	No	NA	Yes	Yes (Granted provisional accreditation for two/three years for the period)
28.	M.Tech – Heat Power Engg.	Mechanical Engineering	1972	18	No	NA	Yes	No (Eligible but not applied)
29.	M.Tech – Manufacturing	Production Engineering	2008	18	No	NA	Yes	No (Eligible but not applied)

	System Engg.							
30.	M.Tech – Robotics & CAD/CAM	Production Engineering	2015	18	No	NA	Yes	No (Eligible but not applied)
31.	M. Tech Industrial Metallurgy	Metallurgical & Materials Engg	2019	18	No	NA	Yes	No Not eligible for accreditation
32.	Master in Computer Application	CA	1993	30	No	NA	Yes	No (Eligible but not applied)
33.	Industrial Chemistry/ Organic Chemistry	Chemistry	2010	36	No	NA	No	No (Eligible but not applied)
34.	Applied Mathematics	Mathematics	2011	18	No	NA	No	No (Eligible but not applied)
35.	Applied Physics	Physics	2010	18	No	NA	No	No (Eligible but not applied)
36.	Integrated MSc	Chemistry	2013	18	No	NA	No	No (Eligible but not applied)
37.	Integrated MSc	Physics	2014	18	No	NA	No	No (Eligible but not applied)
38.	Integrated MSc	Mathematics	2015	18	No	NA	No	No (Eligible but not applied)
39.	Ph.D – Civil Engg	Civil Engg	2010		No	NA	No	No (Not Applicable)
40.	Ph.D – Mechanical Engg	Mechanical Engg	2010		No	NA	No	No (Not Applicable)
41.	Ph.D – Electrical Engg	Electrical Engg	2010		No	NA	No	No (Not Applicable)
42.	Ph.D – Electronics and TC Engg	Electronics and TC Engg	2010		No	NA	No	No (Not Applicable)
43.	Ph.D – Computer Sc. & Engg.	Computer Sc. & Engg.	2010		No	NA	No	No (Not Applicable)
44.	Ph.D –Production Engg	Production Engg	2010		No	NA	No	No (Not Applicable)
45.	Ph.D – Information Technology	Information Technology	2015		No	NA	No	No (Not Applicable)
46.	Ph.D – Electrical and Electronics Engg.	Electrical and Electronics Engg.	2010		No	NA	No	No (Not Applicable)
47.	Ph.D – Metallurgical and Material Engg.	Metallurgical and Material Engg.	2015		No	NA	No	No (Not Applicable)
48.	Ph.D – Chemical Engineering	Chemical Engineering	2019		No	NA	No	No (Not Applicable)
49.	Ph.D – Architecture	Architecture	2017		No	NA	No	No (Not Applicable)
50.	Ph.D – Computer Application	Computer Application	2016		No	NA	No	No (Not Applicable)
51.	Ph.D – Physics	Physics	2010		No	NA	No	No (Not Applicable)
52.	Ph.D – Chemistry	Chemistry	2010		No	NA	No	No (Not Applicable)

53.	Ph.D. – Mathematics	Mathematics	2010		No	NA	No	No (Not Applicable)
54.	Ph.D. – Humanities	Humanities	2015		No	NA	No	No (Not Applicable)

Table A.7

*** Write applicable one:**

- *Granted accreditation for 5/6 years for the period (specify period)*
- *Not accredited (specify visit dates, year)*
- *Withdrawn (specify visit dates, year)*
- *Not eligible for accreditation*
- *Eligible but not applied*

Note: Add rows as needed.

8. Programs to be considered for Accreditation vide this application

S. No.	Program Name
1.	B.Tech Civil Engineering
2.	B.Tech Mechanical Engineering
3.	B.Tech Electrical Engineering
4.	B.Tech Electronics and Telecom Engineering
5.	B.Tech Production Engineering

Table A.8

9. Total number of Engineering Students:

Item	CAY-2023-24	CAYm1-2022-23	CAYm2-2021-22
Total no. of boys	3514	3411	3334
Total no. of girls	1648	1515	1460
Total no. of students	5162	4926	4794

Table A.9

(Instruction: The data may be categorized in tabular form separately for undergraduate, postgraduate engineering, other programs, if applicable)

Note: In case the institution is running programs other than engineering programs, a separate table giving similar details is to be included.

10. 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.

11. 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.
- 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.

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

- i. Name: Prof. Banshidhar Majhi
Designation: Vice-Chancellor
Mobile No: 8056201404
Email id: vc@vssut.ac.in

- ii. NBA coordinator, if designated
Name: Dr. Sasmita Behera
Designation: NBA Coordinator
Mobile No: 9437367106
Email id: sbehera_eee@vssut.ac.in

PART B: Criteria Summary

Name of the program: **B.TECH. - CIVIL ENGINEERING**

Criteria No.	Criteria	Mark/Weightage	Mark obtained
Program Level Criteria			
1.	Course Outcomes and Program Outcomes	100	100
2.	Program Curriculum and Teaching -Learning Processes	75	75
3.	Students' Performance	75	59.4
4.	Faculty Information and Contributions	100	96.4
5.	Resources	75	75
6.	Continuous Improvement	75	75
	Total	500	480.8

PART B: Program Level Criteria

CRITERION 1	Course Outcomes and Program Outcomes	100
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1.1 State the Vision, Mission of the Department and Institute and Program Educational Objectives (5)

Department Vision:

To emerge as a nationally acclaimed Civil Engineering Department for imparting futuristic technical education and creation of vibrant research enterprise to create quality civil engineers and researchers, truly world class leader and unleashes technological innovations to serve the global society and improve the quality of life.

Department Mission:

The Department of Civil Engineering, VSSUT Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

- M1. Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- M2. Collaborative partnership with industries and academia within and outside the country in learning and research.
- M3. Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- M4. Facilitating technology transfer, innovation and economic development to flow as natural results of research where ever appropriate.
- M5. Expanding curricula to cater broader perspectives.
- M6. Creation of service opportunities for upliftment of the society at large.

Institute 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.

Institute 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

- M1. Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- M2. Collaborative partnership with industries and academia within and outside the country in learning and research.
- M3. Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- M4. Facilitating technology transfer, innovation and economic development to flow as natural results of research where ever appropriate.
- M5. Expanding curricula to cater broader perspectives.

M6. Creation of service opportunities for upliftment of the society at large.

Program Educational Objectives:

The Program Educational Objectives (PEOs) of B. Tech (Civil Engineering) program are established through a process as described in section 1.2.4 and are listed as follows:

- PEO-1. To lead a successful career in industries or pursue higher studies or entrepreneurial endeavors.
- PEO-2. To offer techno commercially feasible and socially acceptable solutions to real life engineering problems.
- PEO-3. To demonstrate effective communication skill, professional attitude, and a desire to learn.
- PEO-4. To have reputation as a source of innovative solutions for challenging problems.
- PEO-5. To be a trustworthy and respectful member in society.

Assessment	5
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1.2 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (5)

A. The Vision, Mission and PEOs are adequately published as indicated below

- University Web Site: <https://www.vssut.ac.in/department.php?url=civil-engineering>
- Syllabus

The Vision, Mission and PEOs are disseminated as follows

- Lesson plan
- Laboratories
- Laboratory manuals
- Staff rooms
- HOD chamber
- Department Library
- Department notice board
- Respective Department floors

B. The awareness of Vision, Mission and PEOs are created among the internal and external stakeholders through:

- Alumni meet
- Annual placement function
- Class committee meetings
- Parent teacher meeting
- Induction program for freshers
- Academic council meeting

Assessment	5
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1.3 Establish consistency of PEOs with Mission of the Department (5)

(Generate a "Mission of the Department – PEOs matrix" with justification and rationale of the mapping)

Table B.1.3

PEO Statements	M1	M2	M3	M4	M5	M6
PEO1: To lead a successful career in industries or pursue higher studies or entrepreneurial endeavors.	3	3	3	3	1	3
PEO2: To offer techno commercially feasible and socially acceptable solutions to real life engineering problems.	3	3	3	3	2	3
PEO3: To demonstrate effective communication skill, professional attitude, and a desire to learn.	3	3	3	2	3	3
PEO4: To have reputation as a source of innovative solutions for challenging problems.	3	3	3	2	3	3
PEO5: To be a trustworthy and respectful member in society.	3	3	3	2	3	3

Assessment	5
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1.4 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (10)

- NBA defined Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program.
- Six to ten matrices of core courses are to be mentioned with at least one per semester.
- Select core courses to demonstrate the mapping/correlation with all POs and PSOs.
- Number of Outcomes for a Course is expected to be around 6.

Course Articulation Matrix

Table B.1.4a

Subject Code: BCE03001, 3rd Semester, Subject: Mechanics of Material, Year: 2022 – 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE03001.1	Apply the formal theory of mechanics of materials to calculate stresses and strains under varying loading conditions	2	1										
BCE03001.2	Analyze and design the structural members under tension, compression, torsion, bending and combined stresses employing the fundamental concepts of stress, strain and elastic behavior of materials	3	2		2								
BCE03001.3	Utilize basic properties of materials to solve isotropic elasticity problems in two dimensions	2	1			3							
BCE03001.4	Solve engineering problems in accordance with ethical and economic constraints on design of structures	3	2				3						
BCE03001.5	Use appropriate materials in design considering engineering properties, sustainability, cost and weight	3	2	3	2	1	1	3	1	2	2	2	3
BCE03001		3	2	3	2	2	2	3	1	2	2	2	3

Subject Code: BCE04001, 4th Semester, Subject: Structural Analysis –I, Year: 2022 – 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE04001.1	Explain various internal forces like axial force, shear force and bending moment in structures	2	1	3	1	1							
BCE04001.2	Determine internal forces in statically determinate structures like beams, arches, cables, and stiffening girders	1	2	1	1	1							
BCE04001.3	Evaluate deformation of statically determinate beams and in pin-jointed plane trusses using appropriate methods	2	1			3							
BCE04001.4	Use internal forces in the statically indeterminate beams like propped cantilever beam, fixed beam and continuous beam	2	2	1	2	1	2						
BCE04001.5	Solve various internal forces due to rolling or moving loads and their maximum influence on determinate beams, arches, cables with stiffening girders	3	2	3	2	1	1	1	1	2	2	2	2
BCE04001		2	2	2	2	1	2	1	1	2	2	2	2

Subject Code: BCE04003, 4th Semester, Subject: Geotechnical Engineering-I, Year: 2022 – 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE04003.1	Classify soil and solve three phase soil system	2	1	1	1	1							
BCE04003.2	Solve any practical problems related to soil stresses estimation, permeability and seepage including flow net diagram	3	2	1	1	1							
BCE04003.3	Formulate practical problems related to consolidation settlement and time rate of settlement	2	1			3							
BCE04003.4	Validate problem related to compaction in the field	3	2	1	2	1	1						
BCE04003.5	Use stabilization techniques for soft and expansive soil by using various methods	3	2	1	2	1	1	1	1	2	2	2	1
BCE04003		3	2	1	2	1	1	1	1	2	2	2	1

Subject Code: BCE05001, 5th Semester, Subject: Reinforced Concrete Design, Year: 2022 - 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE05001.1	Revise the design philosophy and flexural behavior of reinforced concrete beams	2	1	3	1	1							
BCE05001.2	Analyze and design of reinforced concrete beams for shear, torsion, bond and deflection	2	2	1	1	1							
BCE05001.3	Evaluate design of reinforced concrete slabs and stair cases	2	1			2							
BCE05001.4	Explain design of reinforced concrete short Columns	3	2	1	2	1	1						
BCE05001.5	Use design of foundations	3	2	1	2	1	1	1	1	2	2	2	1
BCE05001		2	2	2	2	1	1	1	1	2	2	2	1

Subject Code: BCE06002, 6th Semester, Subject: Steel Structure, Year: 2022 - 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE06002.1	Design different types of connections (bolted & welded) as per Limit state design	2	1	3	1	1							
BCE06002.2	Determine strength of connections and different rolled steel structural members	3	2	1	1	1							
BCE06002.3	Map out structural members for tensile loads	2	1			3							

BCE06002.4	Distinguish different types of rolled steel structural members for axial and bending load	3	2	1	2	1	3						
BCE06002.5	Evaluate built up members and column base	3	2	3	2	1	1	3	1	2	2	2	3
	BCE06002	3	2	2	2	1	2	3	1	2	2	2	3

Subject Code: BCEPE701, 7th Semester, Subject: PE-IV (Estimation and Professional Practice), Year: 2022 – 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCEPE701.1	Explain fundamentals of estimation and specifications	2	1	1	1	1							
BCEPE701.2	Interpret structural drawing and quantity estimation	3	2	1	1	1							
BCEPE701.3	Analyze rates of various items of work	2	1			3							
BCEPE701.4	Report concepts of contract and laws	3	2	1	2	1	3						
BCEPE701.5	Revise fundamentals of civil engineering valuation	3	2	1	2	1	1	3	1	2	2	2	1
	BCEPE701	3	2	1	2	1	2	3	1	2	2	2	1

Subject Code: BCEPE801, 8th Semester, Subject: PE-V (Construction Management), Year: 2022 – 2023

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCEPE801.1	Identify different aspects of project management	2	1	2	1	1							
BCEPE801.2	Evaluate the cost and time of a Project by using CPM & PERT Techniques	3	2	1	1	1							
BCEPE801.3	Report resources in a project	2	1			3							
BCEPE801.4	Describe material procurement method and control for a project	3	2	1	2	1	2						
BCEPE801.5	Select the suitable equipment and materials required for the execution of a project and to solve optimization problem	3	2	3	2	1	1	2	1	2	2	2	2
	BCEPE801	3	2	2	2	1	2	2	1	2	2	2	2

Program Articulation Matrix

Table B.1.4b

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BCE03001	3	2	3	2	2	2	3	1	2	2	2	3
BCE04001	2	2	2	2	1	2	1	1	2	2	2	2
BCE04003	3	2	1	2	1	1	1	1	2	2	2	1
BCE05001	2	2	2	2	1	1	1	1	2	2	2	1
BCE06002	3	2	2	2	1	2	3	1	2	2	2	3
BCEPE701	3	2	1	2	1	2	3	1	2	2	2	1
BCEPE801	3	2	2	2	1	2	2	1	2	2	2	2

Assessment	10
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1.5 Attainment of Course Outcomes (25)

1.5.1. Describe the assessment tools and processes used to gather the data upon which the

evaluation of Course Outcome is based (5)

Describe different assessment tools (semester end examinations, mid-semester tests, laboratory examinations, student portfolios etc.) to measure the student learning and hence attainment of course outcomes. (Student portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period.)

The process adopted to map the assessment questions, parameters of assessment rubrics etc. to the course outcomes to be explained with examples. The process of data collection from different assessment tools and the analysis of collected data to arrive at CO attainment levels need to be explained with examples

Direct Assessment Tools

Assessment tools	Frequency	Assessment process	Responsibility
Mid Semester Examination	1 per semester	Internal exam papers are evaluated by the concerned faculty and internal marks are uploaded to the Institute Examination cell	Institute
Lab Examination	1 per semester	Final Examination is conducted and evaluated by the internal and external examiner both	Department
Internal Assessment	1 per semester	Internal assesment has been done by the concerned faculty though continuous evaluation through quiz/assignments etc,	Department
End Semester Examination	1 per semester	Examination is conducted and evaluated by the institute faculty members	Institute
Technical Seminar	1 per semester (7 th & 8 th)	Seminar is conducted at Department level.	Department
Project Work	Pre final Semester and Final Semester	Internal Project Evaluation is conducted at Department level. Final Project Evaluation is conducted and evaluated by internal and external examiner allotted by the institute.	Department

Indirect Assessment Tools

Sl. No.	Assessment tools	Description
1	Alumni: Survey Questionnaire	Collect variety of information about program Satisfaction and college from the Alumni students
2	Exit Feedback: Survey Questionnaire	Collect variety of information about program Satisfaction and college from the final year students.
3	Parent: Survey Questionnaire	Collect variety of information about program satisfaction and college from parents.
4	Employer's Feedback Form	Collect variety of information about the graduates' skills, capabilities and opportunities.
5	Student Feedback	Collect variety of information about outcome-based education in teaching and learning process.
6	Feedback Form On Facilities	Collect variety of information about facilities from the students.

Assessment	5
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1.5.2. Record the attainment of Course Outcomes of courses with respect to set attainment levels (20)

Program shall set course outcomes target for each course using a cohort group and the expected level of performance by each student, say, 60% of students should score 60% of marks allotted for the measurement of a particular course outcome. There could be different levels of targets such as 70% students should score more than 70% marks, 60% students should score more than 80% marks. The above is only for example purpose. Different courses can have different targets as deemed fit with proper justification. Program should avoid very low targets and should be set based on last three-year performance.

For the set targets, program should compute attainment of course outcomes for each course using different assessment they have used during the semester, record the attainment with respect to the set targets and analyze the attainments for improvements. Details of such computations for two to three courses is to be provided. However, Program should keep attainment of course outcomes for all courses as evidence for evaluation during the visit.

Table B.1.5

Attainment Level 1: 20% of students scoring more than set attainment level.

Attainment Level 2: 30% of students scoring more than set attainment level.

Attainment Level 3: 50% of students scoring more than set attainment level.

Sl. No.	Subject Code	Subject Name	CO Attained		Attainment Level (AL)		
			Direct	Indirect	3	2	1
1	BCE03001	Mechanics of Material	2.11	2.32	>50%	30%-50%	<30%
2	BCE04001	Structural Analysis –I	2.02	2.48	>50%	30%-50%	<30%
3	BCE04003	Geotechnical Engineering-I	2.17	2.28	>50%	30%-50%	<30%
4	BCE05001	Reinforced Concrete Design	2.2	2.52	>50%	30%-50%	<30%
5	BCE06002	Steel Structure	2.03	2.42	>50%	30%-50%	<30%
6	BCEPE701	PE-IV (Estimation and Professional Practice)	2.34	2.17	>50%	30%-50%	<30%
7	BCEPE801	PE-V (Construction Management)	2.56	2.26	>50%	30%-50%	<30%

Assessment	20
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1.6 Attainment of Program Outcomes and Program Specific Outcomes (25)

1.6.1. Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (5)

Assessment tools are categorized into direct and indirect methods to assess the programme educational Objectives, program outcomes and course outcomes.

- Direct methods display the student’s knowledge and skills from their performance in the continuous assessment tests, end-semester examinations, presentations, and classroom assignments etc.
- These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

- Indirect methods such as surveys and interviews ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills and they are valued by different stakeholders

Following points are some possible program-levels (P) and course-levels (C) assessment tools:

- Exit surveys, exit interviews (P)
- Alumni surveys and interviews (P)
- Employer surveys and interviews (P)
- Performance in group and internship assignments and in problem-based learning situations (P, C)
- Assignments, reports, and tests in the design course (P, C)
- Standardized tests—e.g., the GATE Examination (P, C)
- Student surveys, individual and focus group interviews (P, C)

Assessment	5
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1.6.2. Provide results of evaluation of each PO & PSO (20)

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

PO Attainment

Table B.1.6.2a
Direct Attainment

Sl. No.	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	BCE03001	1.83	1.13	2.11	1.41	1.41	1.41	2.11	0.70	1.41	1.41	1.41	2.11	2.11	2.11	2.11
2	BCE04001	1.35	1.08	1.35	1.01	0.94	1.01	0.67	0.67	1.35	1.35	1.35	1.35	2.02	2.02	2.02
3	BCE04003	1.88	1.16	0.72	1.09	1.01	0.72	0.72	0.72	1.45	1.45	1.45	0.72	2.17	2.17	2.17
4	BCE05001	1.76	1.17	1.10	1.10	0.88	0.73	0.73	0.73	1.47	1.47	1.47	0.73	2.20	2.20	2.20
5	BCE06002	1.76	1.08	1.35	1.02	0.95	1.35	2.03	0.68	1.35	1.35	1.35	2.03	2.03	2.03	2.03
6	BCEPE701	2.03	1.25	0.78	1.17	1.09	1.56	2.34	0.78	1.56	1.56	1.56	0.78	2.34	2.34	2.34
7	BCEPE801	2.22	1.37	1.49	1.28	1.19	1.28	1.71	0.85	1.71	1.71	1.71	1.71	2.56	2.56	2.56

Indirect Attainment

Sl. No.	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	BCE03001	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
2	BCE04001	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
3	BCE04003	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
4	BCE05001	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
5	BCE06002	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
6	BCEPE701	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49
7	BCEPE801	2.58	2.70	2.49	2.72	2.74	2.69	2.72	2.45	2.65	2.58	2.70	2.49	2.58	2.70	2.49

Assessment	20
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1.7 Evidence of solving complex engineering Problems (25)

Throughout the course curricula in each semester, students are assigned various term projects individually, also in groups and are submitted through effective guidance of faculty coordinator. In final year all the students are assigned with minor and major projects with various live projects under the guidance of faculty members. Various projects assigned address live issue such as analysis, design along with production based, addressing societal issues addressing the realistic issues, etc.

The institute has introduced a framework of learning through minor project/activities with the following focus areas in all streams:

- Interactive focus: Activities include synchronous and collaborative discussions, group activities and assignments, etc.
- Critical thinking: Activities include undertaking case studies, field surveys, problem identification, reviewing impacts created by previous researchers, identifying gaps and scope for further improvement and strategy formulation.
- Problem solving: Activities include implementation of strategies under real life circumstances, developing an understanding of constraints, realizing relevant social, environmental, legal and economic implications and analyzing the impact created; activities also include solving real-life open-ended problems supported by simulations and modeling relevant to the purpose.

Industry Involvement of Faculties:

- The University strongly encourages its faculty/staff to seek and participate in sponsored research, to consult widely, and to engage in other activities that may benefit not only the participants, but also the University and the larger public.
- Normally sponsored and research projects are funded by the government agencies like PMGSY, AICTE, central and state DST, BIS, CPWD, Bhubaneswar, OPGC Baharpali, Triveni Civil Tech P Ltd, MCL, Burla, SMC, Sambalpur, AECS Limited etc. The proposals in respect of such projects are prepared in the formats prescribed by the agencies concerned and may include staff requirements, consumable and other requirements, as each funding agency has its own format and guidelines. The proposals are submitted and the budgeting requirements are provided as per the guidelines/norms of the funding agency, and the coordinating faculty member has to present the same to be Committee, if invited. If the project is sanctioned, the University has to facilitate the faculty member in all aspects. The faculty member who receives the project is identified as Project Investigator (PI).
- The research projects can be taken up by faculty members/staff directly or through the University or Centre concerned. Individual faculty member(s) for any such projects may use the services of non-teaching staff and students of the University, if required, who may be paid suitable honorarium out of the project funds received.

Assessment	25
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CRITERION 2	Program Curriculum and Teaching –Learning Processes	75
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2.1. Program Curriculum (15)

2.1.1. State the Structure and Component of the Curriculum (5)

Table B.2.1.1a

FIRST SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BMA01001	Mathematics-I	3	1	0	4	4
BPH01001	Physics	3	0	0	3	3
BEE01001	Basic Electrical Engineering	3	0	0	3	3
BHU01001	English For Business Communication	3	0	0	3	3
BME01001	Engineering Mechanics	3	0	0	3	3
(SESSIONALS)						
BPH01002	Physics Laboratory	0	0	3	3	1.5
BEE01002	Basic Electrical Engineering Lab	0	0	3	3	1.5
BHU01002	Business Communication Skills	0	0	3	3	1.5
BME01002	Workshop & Manufacturing Practices	0	0	3	3	1.5
(NON - CREDIT)						
BNC01001	Induction Programme and participation in Clubs / Societies	0	0	0	0	0
Total		15	1	12	28	22

SECOND SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BMA02001	Mathematics - II	3	1	0	4	4
BCH02001	Chemistry	3	0	0	3	3
BEC02001	Basic Electronics	3	0	0	3	3
BIT02001	Programming for Problem Solving	3	0	0	3	3
BIT02001	Basic Civil Engg.	3	0	0	3	3
(SESSIONALS)						
BCH02002	Chemistry Lab	0	0	3	3	1.5
BEC02002	Basic Electronics Lab	0	0	3	3	1.5
BIT02002	Programming Lab /	0	0	3	3	1.5
BCE02002	Engineering Graphics & Design	0	0	3	3	1.5
(NON - CREDIT)						
BNC02001	NSS/NCC/Yoga	0	0	0	0	0
Total		15	1	12	28	22

THIRD SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BMA03001	Math-III	3	1	0	4	4
BCE03001	Mechanics of Material	3	0	0	3	3
BCE03002	Civil Engineering Materials and Construction	3	0	0	3	3
BCE03003	Environmental Science and Engineering	3	0	0	3	3
BHU03001	Organisational Behaviours	3	0	0	3	3
(SESSIONALS)						
BCE03004	Concrete Lab	0	0	3	3	1.5
BCE03005	Environmental Science Lab.	0	0	3	3	1.5
BCE03006	Environmental Engineering Design	0	0	3	3	1.5
BCE03007	Computer Application in Civil Engineering	0	0	3	3	1.5
(NON - CREDIT)						
BNC03001	Essence of India Traditional Knowledge/ Environmental Sciences	0	0	0	0	0
Total		14	1	12	28	22

FOURTH SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BCE04001	Structural analysis -I	3	0	0	3	3
BCE04002	Surveying and Geomatics	3	1	0	4	4
BCE04003	Geotechnical Engineering-I	3	0	0	3	3
BCE04004	Fluid Mechanics	3	0	0	3	3
BHU04001	Economics for Engineers	3	0	0	3	3
(SESSIONALS)						
BCE04005	Survey Practice	0	0	3	3	1.5
BCE04006	Building Drawing	0	0	3	3	1.5
BCE04007	Geotechnical Engineering Lab	0	0	3	3	1.5
BCE04008	Fluid Mechanics Lab	0	0	3	3	1.5
(NON - CREDIT)						
BNC04001	Environmental Sciences/ Essence of India Traditional Knowledge	0	0	0	0	0
BNC04002	Summer Internship/ Training	0	0	0	0	0
Total		14	1	12	28	22

FIFTH SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BCE05001	Reinforced Concrete Design	3	0	0	3	3
BCE05002	Fluid Dynamics	3	0	0	3	3
BCE05003	Geotechnical Engineering-II	3	0	0	3	3
	Professional Elective-I	3	0	0	3	3

	Open Elective-I	3	0	0	3	3
	Professional Ethics, Professional Law & Human Values / Financial Management, Costing, Accounting, Balance Sheet & Ratio Analysis	2	0	0	2	2
(SESSIONALS)						
BCE05004	Structural Engineering Lab.	0	0	3	3	1.5
BCE05005	Design of Concrete Structure	0	0	3	3	1.5
BCE05006	Fluid Flow Lab.	0	0	3	3	1.5
	Total	17	0	9	26	21.5

SIXTH SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BCE06001	Transportation Engineering-I	3	0	0	3	3
BCE06002	Steel Structure	3	0	0	3	3
	Professional Elective-II	3	0	0	3	3
	Professional Elective-III	3	0	0	3	3
	Open Elective-II	3	0	0	3	3
	Financial Management Costing, Accounting, Balance Sheet & Ratio Analysis/ Professional Ethics, Professional Law & Human Values	2	0	0	2	2
(SESSIONALS)						
BCE06003	Design of Hydraulic Structure	0	0	3	3	1.5
BCE06004	Transportation Engineering Lab	0	0	3	3	1.5
BCE06005	Design of Steel Structure	0	0	3	3	1.5
(NON - CREDIT)						
BNC06001	Summer Industry Internship/ Training/ Project	0	0	0	0	0
	Total	17	0	9	26	21.5

SEVENTH SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
BCE07001	Structural Analysis-II	3	0	0	3	3
BCE07002	Transportation Engineering-II	3	0	0	3	3
	Professional Elective-IV	3	0	0	3	3
	Open Elective-III	3	0	0	3	3
(SESSIONALS)						
	Project - I	0	0	6	6	3
BCE07003	Transportation & Geotechnical Engineering Design	0	0	3	3	1.5
	Seminar on internship	0	0	3	3	1.5
	Total	12	0	12	24	18

EIGHTH SEMESTER

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
(THEORY)						
	Professional Elective-V	3	0	0	3	3
	Professional Elective-VI	3	0	0	3	3
	Open Elective-IV	3	0	0	3	3
(SESSIONALS)						
	Project II	0	0	12	12	6
	Seminar on Project	0	0	2	2	1
	Total	9	0	14	23	16

List of Professional Elective (3rd Year)

Sl. No.	Category	Subject Name
1	UPE-I	Advanced Surveying
2		River Engineering
3		Industrial Waste Water Treatment
1	UPE-II	Advanced Concrete Design
2		Open Channel Flow
3		Mechanics of Composite Materials
4		Rock mech and Tunnel Engg
5		Water Resources Engineering
1	UPE-III	Hydraulics Structure
2		Water Resources Planning & Management
3		Machine foundation
4		Urban Drainage and sewerage system

List of Open Elective (3rd Year)

Sl. No.		Subject Name
1	UOE-I	Remote Sensing and GIS
2		Watershed Management
3		Waste Management
1	UOE-II	Project Management
2		Town Planning & Architecture
3		Ground Improvement Technique

List of Professional Elective (4th Year)

Sl. No.		Subject Name
1	UPE-IV	Estimation and Professional Practice
2		Economic evaluation and analysis of transport project
3		Computational Fluid Dynamics
4		Structural Design of Water and Sewerage System
5		Bridge Engineering

1	UPE-V	Construction Management
2		Soil Dynamics & Earthquake Engineering
3		Pavement management system
4		Advanced Solid Mechanics
5		Traffic Engg. & Management
1	UPE-VI	Advance Foundation Engineering
2		Pavement Design
3		Ground Water Engineering
4		Concrete technology
5		Environmental Geotechnique
6		Prestressed Concrete

List of Open Elective (4th Year)		
Sl. No.		Subject Name
1	UOE-III	Green building
2		Water Power Engg
1	UOE-IV	Finite Element Method in Civil Engineering
2		Environmental Management

Table B.2.1.1b

Program curriculum grouping based on course components

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	15.15	28	25
Engineering Sciences	19.09	42	31.5
Humanities and Social Sciences	8.79	16	14.5
Program Core	31.82	72	52.5
Program Electives	10.91	18	18
Open Electives	7.27	12	12
Project(s)	5.45	18	9
Internships/Seminars	1.52	5	2.5
Employment Enhancement courses /Skill Based Courses	-	-	-
Any other (Please specify)	-	-	-
Total number of Credits			165

Assessment	5
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2.1.2. State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

One of the important tools for achieving PEOs of a program is the curriculum of that program. The proper balance of different course components such as mathematics and basic sciences, basic engineering courses, HSS, professional cores and electives are essentially required for a good curriculum. The description of broad curricular components relevant to PEOs of B. Tech (Civil) program is shown in following Table and Figure. The curriculum mapping with PEOs of the program is also shown in Table below.

Table: Course Component distribution of credits and PEOs of the Department

Course Component	PEOs	Curriculum Content (%of total number of credits of the program)
Basic Sciences	PEO I & PEO II	15.15
Engineering Sciences	PEO I & PEO II	19.09
Humanities and Social Sciences	PEO III	8.79
Program Core	PEO I, PEO II & PEO III	31.82
Program Electives	PEO I, PEO II & PEO III	10.91
Open Electives	PEO I & PEO II	7.27
Project(s)	PEO I, PEO II & PEO III	5.45
Internships & Seminars	PEO I, PEO II & PEO III	1.52

The Curriculum Content as % of total number of credits of the program is shown in the figure.

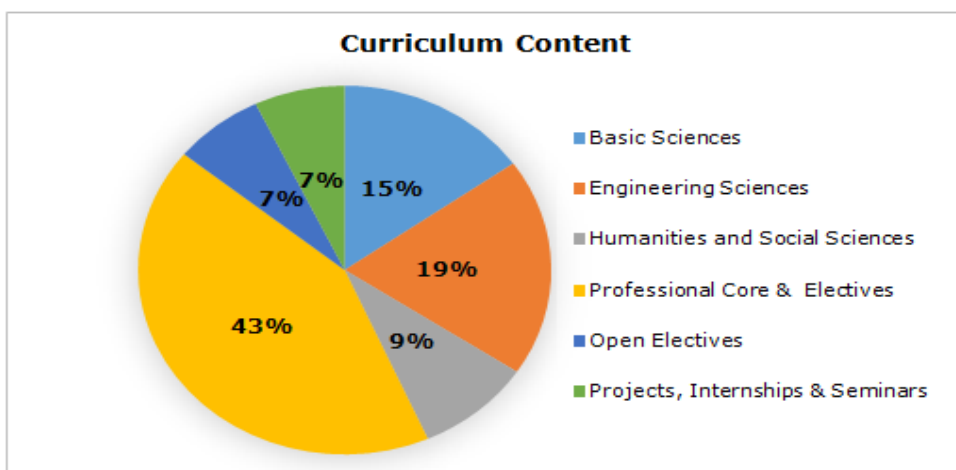


Figure: Credit distribution in the curriculum

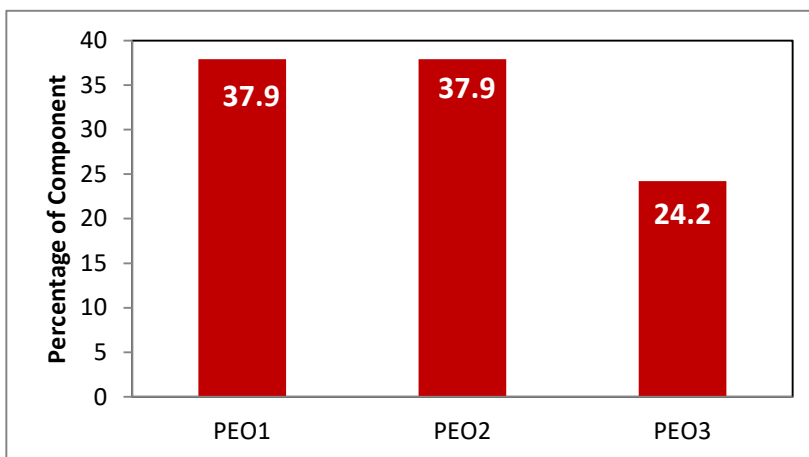


Figure: percentage of contribution of PEOs in curriculum

In program curriculum, the 37.9% of the courses addresses PEO-1, 37.9% addresses PEO-2 and 24.2% of courses addresses PEO-3. Along with the curricular activities, the department organizes guest lectures, industry

visits, workshops, and professional engineering events to achieve the PEOs.

PEOs Mapping with Curriculum

The PEOs as stated earlier comprise of five broad groups: Preparation, Core Competence, Breadth, Professionalism and Learning Environment. In the table furnished above the mapping of the curriculum with stated PEOs has been displayed.

Table: Curriculum mapping with PEOs of the department

COURSE DETAILS			PEO	PEO	PEO
Course code	COURSE NAME	Coarse Type	I	II	III
BMA01001	Mathematics 1	Theory		√	√
BPH01001	Physics	Theory		√	
BCH02001	Chemistry	Theory		√	
BME1001	Engineering Mechanics	Theory		√	√
BIT02001	Programming &Data Structures	Theory		√	√
BEE01001	Basic Electrical Engineering	Theory		√	
BEC02001	Basic Electronics	Theory		√	
BHU01001	English for Business Communication	Theory		√	
BPH01002	Physics Laboratory	Sessional		√	
BCH02002	Chemistry Lab	Sessional		√	
BIT02002	Programming Lab	Sessional		√	
BCE02002	Engineering Graphics and Drawing	Sessional	√	√	
BME01002	Workshop Practice	Sessional	√	√	
BEE01002	BEE Lab	Sessional	√	√	
BEC02002	BE Lab	Sessional	√	√	
BMA02001	Mathematics II	Theory	√	√	
BMA03001	Mathematics III	Theory	√	√	
BHU03001	Organisational Behaviour	Theory	√		
BCE03001	Mechanics of Material	Theory	√	√	
BCE03002	Civil Engineering Material and construction	Theory	√	√	
BCE04006	Building Drawing	Theory	√	√	
BCE03004	Concrete Lab.	Sessional	√	√	
BCE04004	Fluid Mechanics	Theory	√	√	
BCE04001	Structural Analysis I	Theory	√	√	
BCE04005	Survey Practice I	Sessional	√	√	
BCE04003	Geotechnical Engineering - I	Theory	√	√	
BCE03003	Environmental Engineering	Theory	√	√	
BCE06001	Transportation Engineering -I	Theory	√	√	
BCE05006	Fluid Flow Lab	Sessional	√	√	
BCE04007	Geotechnical Engineering Lab	Sessional	√	√	
BCE03006	Environmental Engineering Design	Sessional	√	√	
BCE06004	Transportation Engineering Lab	Sessional	√	√	
BCE07001	Structural Analysis-II	Theory	√	√	
BCE05002	Fluid Dynamics	Theory	√	√	
BCE07002	Transportation Engineering-II	Theory	√	√	
BCE06002	Steel Structures	Theory	√	√	
BCEPE601	Advanced Surveying	Theory	√	√	
BCE05004	Structural Engineering Lab.	Sessional	√	√	
BCE0398	Survey Practice	Sessional	√	√	
BCE0401	Concrete Structure	Sessional	√	√	

BCE05003	Geotechnical Engineering -II	Theory	√	√	
BCEPE609	Hydraulic Structures	Theory	√	√	
BCE06005	Design of Steel Structures	Sessional	√	√	
BCE06003	Design of Irrigation Structure	Sessional	√	√	
BCEPE701	Estimation & Professional Practice	Theory	√	√	
BCEPE801	Construction Management	Theory	√	√	√
BCEPE705	Bridge Engineering	Theory	√	√	
BCEPE605	Open Channel Flow	Theory	√		
BCEPE810	Environmental Geotechnique	Theory	√		
BCEOE601	Remote Sensing and GIS Application	Theory	√		√
BCEOE604	Town Planning and Architecture	Theory	√		
BCEPE602	Rever Engineering	Theory	√		
BCEPE811	Prestressed Concrete	Theory	√	√	
BCEPE807	Pavement Design	Theory	√		
BCEOE606	Ground Improvement Technique	Theory	√	√	

Assessment	10
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2.2. Teaching-Learning Processes (60)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (15)

The Institution follows various practices for the attainment of Program outcomes and program specific outcomes in acquiescence with university curriculum:

(i) Academic and Activity Calendar:

Academic calendar and semester plan are prepared well in advance with all the activities of the academic year which includes

1. Class committee meetings.
2. Professional society activity.
3. Internal assessment schedule.
4. Industrial visit.
5. Industrial training.
6. Syllabus coverage schedule.
7. Guest lectures.
8. Project review schedule.
9. Academic audit.

For the attainment of course outcome schedule is checked by HOD & HOS.

(ii) Pedagogical Initiatives:

- Real life examples
 1. Hands on projects
 2. Experimental learning
 3. In-plant training

4. Industrial visits
- Collaborative learning
 - 2 Student presentations
 - 3 Brainstorming
 - 4 Role play
 - 5 Debate
 - 6 Quiz
 - 7 Online forum

▪ ICT supportive learning

The following teaching – learning methods are being used by the faculty for better content delivery

1. Simulation
2. You tube demos
3. Online tests
4. Classrooms fitted with Digital (smart) boards with power backup
5. e-learning resources
6. NPTEL

(iii) Methodologies to Support Slow Learners and to Encourage Elite Students.

a. Appointment of Class Coordinators and Mentors:

- The department has appointed Class coordinators for each semester to monitor a class of students.
- Student Mentor is also appointed for every 20 students entering in the First year. This Mentor establishes a close relationship with each student, orients them to college practices, follows their progress regularly (e.g., with at least fortnightly/monthly meetings) and guides them throughout the four-year course.
- The class coordinator will take care of academic performance of the whole class and coordinates teaching learning process implementation.

b. Diagnosing and Tracking Student Performance and Attendance:

- The performance of students is reviewed by each course teacher during the semester. Based on the marks obtained in their assessment, the students are identified as slow learners, if they score less than 60 % in each subject.
- The efforts will be made to strengthen teaching, and/or provide additional teaching as needed. Reviewing student attendance in connection with performance, and advising students about attending classes, making up classes missed, and giving additional help are also useful.

c. Improving Academic Performance:

- The performance of the slow learners is improved through Tutorial classes, where additional problems are solved and students interact with each other in addition to a faculty member for each 20 students.
- The department has a “**Student Academic Support Program**” which could systematically provide additional classes, notes and guidance.
- Student and faculty collaboration on Laboratory experiments, Mini project, and major projects are

available to students formally and informally and more focus -attention will be given to slow learners of the group.

d. Enhancing Communication and Presentation Skills:

- The department in coordination with Basic Science & Humanities department provides slots in Business Communication Skill Laboratory where students can listen & use workbooks to improve their English, particularly spoken English in which they are weak.
- Seminars on internship, seminars on projects conducted by corresponding department on technical & other relevant topics to improve their subject knowledge & presentation skill.
- Induction program conducted by Training & Placements for enhancing Communication Skill & personality development for campus recruitment.

e. Peer Learning Groups:

- An organized approach to involve slow learners in forming groups of 4 to 6 students - good and weak mixed, who learn jointly is established in the department. They can revise lessons after class or on weekends, before any assessments.
- Elite students will help the slow learners. The act of tutoring also helps elite students.
- There is a "vertical" integration, i.e., senior students can work with juniors, and student-faculty interactions are also enhanced, where faculty members being available as resource persons to the student learning groups and even interacting informally with them. The pairing of elite students and slow learners results in better academic performance.
- Mentors assigned to mentees visit their respective hostels during evening hours to clarify their personal problems and subject doubts in consultation with warden and assistant warden.

f. Class Room Teaching

- Faculty use traditional chalk and smart board method and use other methodologies like power point presentations, overhead projections for better understanding of the course.
- Innovative methods like explaining with the help of models, animations, charts, real time analogies and brain storming are made which make the class room teaching more interactive and interesting.
- Tutorial classes are conducted for analytical subjects where a class of students is divided into three groups, each with a teaching faculty. Therefore, individual attention can be given to the students to solve the problems.
- University questions are solved in the classrooms.
- NPTEL materials motivate the faculty, in exploring new teaching methodologies.
- It helps in the obtaining a sound understanding of the course fundamentals, design and implementation issues, etc.
- For the attainment of course outcome, academic audits are conducted twice in a semester where the completion of syllabus, tutorial classes and assignments are monitored.

(iv) Increasing Student Participation in the Classroom:

- a. The students of different learning abilities are grouped together. The groups are instructed to choose topics from the syllabus, which may be different or the same. The groups are made to present a seminar for 10 to 15 minutes each, showing how an issue can be looked at from different perspectives. Making one group of students present and the other groups ask questions is a good method to get students to interact, think and discuss.

- b. On-line assignments are also given to increase the student's participation in the class room and they are also asked to collect other on-line materials including movie clips, simulations, and Laboratory demonstrations given in the syllabus. This enables the „back- benchers“ to come to the front, thus making less confident, bored or disruptive students engaged.

(v) Laboratory Experiments:

- a. Faculty prepare laboratory manual well ahead of the semester which includes Do's and Don'ts of the laboratory, list of experiments, the procedure on how the experiments are to be done and sample calculations.
- b. Faculty test runs the experiments before starting of the semester and makes a record in laboratory manual which helps in offering constructive suggestions to the students.

In order to attain the COs and POs the following performances Indicators are used as guidelines for the conduction of experiments in the laboratory:

1. Ability to conduct experiment: The students will be able to conduct the entire experiment with negligible help from the faculty Members.
2. Data observation and presentation: The students will observe and measure the experimental data very accurately; very systematically and present data very clearly using appropriate graphics, figure captions and units.
3. Data analysis and interpretation: The students will analyze and interpret experimental data correctly and precisely and make useful conclusions. They also compare theory against experiment and calculate related error.
4. Subject Knowledge: The students will fully understand the experiment, including its purpose and results and be able to discuss experimental protocols in a clear and precise manner.

(vi) Continuous Assessment in Laboratory:

- The students are asked to maintain an observation and record of all the experiments done in the laboratory.
- The observations and records are evaluated on weekly basis.
- The faculty makes a record of the date on which the experiment is done, the date on which the observation and records are evaluated which helps in continuous monitoring and assessment of the students. This also aids in completing the laboratory course within the stipulated time.
- To evaluate course outcome, model exams are conducted at the completion of laboratory course.

(vi) Student's feedback of teaching learning process and action taken:

- 1. Semester Course Outcome (CO) Report:** These contain information on student performance and feedback and actions taken in consequence thereof.
- 2. Semester Programme Outcome (PO) Report.** These include an analysis of statistical data on student achievement and progression in the internal assessment. The failure rates and the academic performance of the students are analyzed. The Reports will record any significant difficulties that have been identified from student feedback about the faculty who handled the course and actions taken in consequence of these.
- 3. Periodic Review.** The Class committee meeting will analyze the performance of the students and the Department will review the performance of the faculty members based on student's feedback twice in a semester.
- 4. Course feedback after Completion of the syllabus.** Held within each Semester, this provides an open forum for students to provide feedback about each term, including all the courses, guest seminars, workshops and other activities.

5. Academic audit. The Committee usually meets twice a Semester to discuss all aspects of the programme and to act, where necessary, in respect of student feedback. The Academic audit Committee ensures that Graduate attributes are conducted in accordance with COs and reports to the principal.

6. Online student feedback System. The faculty members are evaluated through the online feedback system on their teaching and learning process twice in the semester. Depending on the feedback suggestions and guidelines are given to the corresponding faculty. The feedback is collected with the following parameters as follows:

- Organization of the subject matter in a logical sequence
- Faculty coming to the class on time and engaging regularly
- Preparation made by the faculty on the subject
- Faculty’s knowledge on the latest developments in the subject area
- Faculty’s ability to maintain discipline in the class
- Assistance and Counseling offered by the faculty to the needy students
- Faculty’s appreciation and feedback on the students’ performance
- Ability to take class audibly and clearly
- Usage of various methods and materials like OHP, Presentation to take class
- Ability to write and draw legibly.
- Teacher’s ability to explain the concepts well and provide adequate examples
- Ability of the faculty to give instructions to the students according to their understanding
- Fair and impartial evaluation of the answer papers
- Regular conduction of assignments tests and returns the answer papers on time.

7. Staff Appraisal. According to the student feedback, actions are taken (if feedback score is less than 6) during appraisal of the faculty.

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

Both direct and indirect assessment tools have been adopted as follows:

1. Direct Assessment Tools

- a) Home Assignment-Each and every student is assigned with course related tasks during every course work once or twice and assessment will be done based on their performance. Grades are assigned depending on their innovation in solving/deriving the problems.
- b) Assignment-The assignment is a qualitative performance assessment tool designed to assess students’ knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students’ knowledge with respect to the learning outcomes associated with the scenario tool.
- c) Semester Mid and End Examination- Examination is a metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam.

- d) Sessional- This type of performance assessment is carried out during the examination sessions which are held once a semester. Each sessional is focused in attaining the course outcomes.
- e) Project Work- Every student is assigned with a project works to capture their interest and to improve their ability to solve real life problems.

2. Indirect Assessment Tools

- a) Program level statistics- At the end of every academic year annual report is developed where the statistics of students who have participated in professional bodies/ student chapters /workshops /seminars/ conferences/ paper presentations /internships/industry visit etc. is prepared. This statement is considered to indirectly assess the POs
- b) Survey reports- Indirect assessment strategies may be easily implemented by embedding them in the end-of-course evaluation form, Alumni Survey and Employer
- c) Graduate/Exit Survey: during the program
- d) Alumni Survey: after one year of graduation
- e) Employer Survey: after one year of graduation
- f) Student Feedback- Student feedback is collected within the end-semester examination of the respective course. They are compiled together and reported to the individual faculty members for further improvement in teaching method.

The assessment tools are used for attainment of Program Outcomes.

Assessment	15
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2.2.3. Quality of student projects (15)

(i) Identification of projects and allocation methodology to Faculty Members

- Project Coordination Committee is formed by HOD comprising of senior faculty members.
- Project teams were formed based on student’s area of interest to design and develop solutions for complex problems.
- Based on faculty area of expertise, HOD allocates Supervisor for the project teams.
- Students can undertake research oriented and Industry based projects under the guidance of Project Coordination Committee and the academic supervisor.
- Students are instructed to refer reputed journals and identify the problem statement and propose suitable solution.
- The working methods, time line, roles and responsibilities must be defined first. They must plan the project and divide the tasks between themselves.
- Summer and Mini Projects have been incorporated to enhance and utilize the creative potential of the students and built positive attitude, which will help them in their social & technical life.
- The project is designed to help students develop practical ability & knowledge about practical tools, techniques to solve real life problems and connect with society. It also helps them to work in teams.

(ii) Process for Monitoring and Evaluation

- The teacher acts as a facilitator by initiating the project and giving guidance, input and feedback during the project.
- He/she encourages all the students to participate and ensures that the student accomplish their tasks as scheduled.

- The progress of the project is evaluated based on minimum two reviews at various stages of the project implementation.
- The review committee consisting of senior faculty member is constituted by the Head of the Department.
- Students will present the progress of their project for each stage of implementation during each review meeting conducted by the review committee.
- The presentation will cover all the relevant factors, from the problem formulation till the particular stage along with the simulation and hardware details which they have inferred before the review.
- The reviewers will take the points presented into consideration and the test data /results / screenshots and elicit information on those angles not covered or partly covered in the presentation.
- The reviewers, taking a 360-degree view of the project, shall also rate the projects on objective criteria, agreed amongst them by consensus. They shall record the criteria of selection, rating achieved under each such criteria and their overall comments in respect of each of the reviewed project.
- The feedback of the performance will be given to students to improve the quality of work.

(iii) Process to assess individual and team performance

- The Project Coordination Committee evaluates the quality of project work, their Individual and Team performance and their communication and Presentation Skills.
- A Project evaluation form is used as a measure to evaluate the performance of project.
- The Project Coordination Committee will continually evaluate their progress and suggest Changes to enrich their work.

(iv) Quality of completed projects

Project Coordination Committee evaluates the quality of project based on the following criteria:

- Design, Analysis and Implementation as well as presentation.
- Application oriented, Research oriented and projects having societal impacts.
- Projects suitable for publishing papers in National conference, international conference, and reputed journals.
- Project enabling the students to improve their organizational and research skills which develop better communication with their peers.
- Cost effectiveness.

(v) Papers Published / Awards received by the Projects

Supervisor encourages the students to publish papers in reputed journals and conferences. List of paper published by the student is given below:

Sl. No	Author Name	Paper Title	Published in National/International Symposium/Conference/Journal
CAY 2021-22			
1	Bibhu Prasad Mishra, Dillip Kumar Ghose, Deba Prakash Satapathy & Sourav Ghose	Flood Susceptibility Modeling Using Forest-Based Regression	International Conference
2	Dillip Kumar Ghose, Sachidananda Behera, Siddhartha Paul & Sourav Ghose	Impact of Climate Change and Land Cover on the Runoff Estimation Using SWAT Modeling	International Conference

Selected list of B.Tech. projects along with relevance POs and PSOs are given below:

AY (2019-20)

SL No.	Name of the student	Topic/Title	Guided By	Relevance to POs	Relevance to PSOs
1	Sanjeeb Kumar Pal (1602030059)	Removal of nutrients from synthetic waste water using bio-reactor	Dr. Rakesh Roshan Dash	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Sheetal Naik (1602030068)				
	Yachana Agarawalla (1602031124)				
	Debashree Champatiray (1602030021)				
	Diptimayee Behera (1604030003)				
2	Debadutt Murmu (1604030002)	Experimental investigations on GPC with steel slag as coarse aggregate	Dr. Sanghamitra Jena	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Bhomiya Kalo (1602030015)				
	Samir Ranjan Dehury (1602030057)				
	Neha Topno (1602030037)				
	Jitendriya Kumbhar (1604030005)				
3	Gagan Bihari Mangaraj (1602030026)	Behavioral study of bond strength in different concrete mixes	Mr. Ajaya Kumar Das	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dikan Kumar Kharsel (1703030013)				
	Samaprava Bariha (1602030056)				
	Kurmapu Harish (1703030021)				
	Nilam Kumar Sahoo (1602030039)				
4	Matru prasad Nayak (1703030026)	Geo-statistical analysis of Indian river basins: using map correlation method	Dr. Laxmipriya Mohanty	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Manas Ranjan Singh (1602031105)				
5	Siddheswar Hansdah (1703030015)	Spatio-temporal analysis of spi for drought studies	Dr. Janhabi Meher	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Bhojaraj Meher (1703031007)				
	Barsharani Sunani (15010086)				
6	Amruta Dash (1803031005)	Study on strength of concrete by partial replacement of cement with hypo sludge	Dr. Leena Sinha	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Bijayalaxmi Mohapatra (1703030030)				
	Kausik Mohapatra (1604030006)				
	Subham Bagh (1702030081)				
	Brenickerr Marak (1602032128)				
7	Abhinav Kumar Padhan (1602030002)	Removal of nitrate from industrial wastewater by using orange peels	Dr. Rajiv Lochan Sahu	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dibya Ranjan Meher (1602030022)				
	Prabeer Raj (1602030042)				
	Pratyush Kumar Tripathy (1602030047)				
	Prayash Kumar Naik (1602030048)				
8	Aparna Mishra (1602030009)	Enhancement of strength of marshal mix using polypropylene fibber	Mr. Akash Kumar Naik	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Ashish Kumar Pradhan (1602030011)				
	Bikash Gochhait (1602030017)				
	Pratyush Kumar Dora (1602030046)				
	Tapas Kumar Panigrahi (1602030087)				
9	Om Prakash Mallik (1602031108)	Bus rapid transit system	Mr. Pratap Kumar Pradhan	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Tapas Kumar Sar (1602030094)				
	Anshuman Mishra (1602031097)				
	Satya Ranjan Sahoo (1602030065)				
	Soumitri Panda (1703030025)				

AY (2020-21)

SL No.	Name of the student	Topic/Title	Guided By	Relevance to POs	Relevance to PSOs
1	Manish Kumar Sahoo (1702030039)	Potential and effectiveness of bank filtration at burla	Dr. Rakesh Roshan Dash	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Ankit Yogaj Biswal (1702030007)				
	Mrinal Nayak (1702030043)				

	Sibashish Panda (1703030070)				
2	Chandan Ku. Paramanik-15010092	Stabilization of Expansive Soil Mix with Red mud and Lime	Dr. Debabrata Giri	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dyllod Jyn Nag-15010099,				
	N.Vivek Reddy-15010114				
	Ranjit Behera-15010123				
3	Laxmipriya Pattu	Characterization of self-compacting geopolymer concrete to be used as structural members	Dr. Saubhagya Kumar Panigrahi	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Neharani Sethi				
	Saktiprasad Jena				
4	Pratyush Kumar Sethi-(1802030072)	Flood modelling of Mahanadi River in steady and unsteady condition using HEC-RAS	Dr. Laxmipriya Mohanty	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Sujit Kumar Panigrahi-(1802030059)				
	Abhishek Patel-(1702031095)				
5	Sidhant Das (1702031117)	A study on stabilization of soil using plastic wastes	Dr. Rajiv Lochan Sahu	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Rudra Narayan Nayak (1803030009)				
	Rajashree Sahoo (1704030008)				
	Pravash Chandra Sarangi (1803030013)				
	Susama Behera (1803030010)				
6	Tejomay Swain (1702031123)	Study on comparison of concrete sustainability index for different sand replacing materials	Dr. Bharadwaj Nanda	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Ritwisha Omeswaree (1704030010)				
	Nagesh Pradhan (1803030015)				
7	Saismita Priyadashini	Rainfall runoff modelling using SWAT	Dr. Janhabi Meher	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
8	Chandan Gouda	Investigation of Depth Area Duration curves for Mahanadi basin	Dr. Janhabi Meher	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Priyabrata Mahali				
	Avinash Mohanty				
	Sigma Kusum				
9	Bibhu Prasad Mallick (1702030015)	Understanding drivers behaviour at intersection for mixed traffic conditions using questionnaire survey	Mr. Pratap Kumar Pradhan	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Manmay Narayan Dutta (1702030040)				
	Abhilash Pradhan (1702030001)				
	Deepak Kumar Naik (1702030026)				
	Thaneswar Punji (1603030026)				

AY (2021-22)

SL No.	Name of the student	Topic/Title	Guided By	Relevance to POs	Relevance to PSOs
1	Ankan Kumar Rout (1802030004)	Effect of random inclusion of natural fibers (coir) on characteristics of clayey soil	Dr. Pradip Kumar Pradhan	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dhuri Prasun Swain (1802031095)				
	Swati Baisnabi (1802030048)				
	Divya Bhanu Panda (1802030089)				
	Brajesh Ranjan Acharya (1802030032)				
2	Swarnapriya Nayak (1903030006)	Methods of determining catchment rainfall and its comparison in a geospatial environment	Dr. Anil Kumar Kar	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Tirthabasi Acharya 1903030003				
	Rajesh Kumar Behera (1903030007)				
	Piyush Sagar Mohanty (1802030093)				
3	Rajeswar Mishra (1802030012)	Cost effective water filter candle	Dr. Rakesh Roshan Dash	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Millan Asish Singh (1802031117)				
	Tapam Mahakul (1802031106)				
	Arjan Pradhan (1802030061)				
4	Sameeran Mohanta (1802030017)	Fly Ash stabilization of subgrade soil for Rural roads	Ms. Sudhira Rath	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Bishal Majhi (1802030085)				
	Snehal Soren (1704030015)				
	Akash Mohanty (1802030043)				
	Abinash Das (1802030026)				
5	Arpita Raj (1802030062)	A study on variation of suspended	Dr. Rajiv Lochan	1,2,3,4,5,	1,2,3,4,5

	Subrat Swain (1802031097) Ayush Raj Nath (1802031126) Aman Kumar Mohanty (1802030007) Tanmay Kumar Mohapatra (1802031115)	solids for using soil conservation service curve number SCS-CN approach and kinetic approach	Sahu	6,7,8,9,10	
6	Pratyush kumar sethi (1802030072) Sujit Kumar Panigrahi (1802030059) Abhishek Patel (1702031095)	Flood modelling of Mahanadi River in steady and unsteady condition using HEC-RAS	Dr. Laxmipriya Mohanty	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
7	Subhashree Dakua(1702030080) Sophie Sarangi-1702031118 Mohit Pattnaik (1702030041) Pranay Pradhan (1702031111) Monalisha Meher (1702030042)	Formation of Alternative Construction material by mixing Phosogypsum and Fly-ash with clay	Dr. Debabrata Giri	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
8	Soumyaranjan Panda Suraj Kumar Parhi Biswajit Rout Saswat Dwibedy Monalin Pradhan	An experimental and numerical investigation of high strength self-compacting geo- polymer concrete	Dr Saubhagya Kumar Panigrahi	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5

CAY (2022-23)

SL No.	Name of the student	Topic/Title	Guided By	Relevance to POs	Relevance to PSOs
1	Krishna Behera (1902030008) Pooja Sethi (1902030045) Elina Ankita Surin (1902030078)	Optimal Management of Rengali Multi-Purpose Reservoir using genetic algorithm	Dr Prakash Chandra Swain	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
2	Saishnakara Swain (1904030002) Shuvasmita Dash (1902030085) Krutikrushna Sahu (1902030084)	Analysis of Land Use and land cover changes in upper Mahanadi basin	Dr Prakash Chandra Swain	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
3	Kadambini Behara (1904030007) Ritik Kumar Mondal (1904030009) R Ajit Rao (1904030018)	Study of fresh and hardened properties of self-compacting geopolymer concrete blended with ferrochrome slag as fine aggregate	Dr Saubhagya Kumar Panigrahi	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
4	N Divyashree (1902030028) Sahil Kumar Sahoo (1902030087) Suvendu Sekhar Mohanty (1902030091) Rahul Kumar Sharma (1902031114) Subham Soren (1904030011) Smurti Tanjan Beura(2003030001)	Utilization of Waste PET Plastic as Fibers in concrete	Dr Sanjaya Kumar Patro	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
5	Biswajeet Das (1902030042) Debabrata Majhi (1702030023) Nandita P. Pradhan (1902030003) Sanu Sagarika Dandapat (2003030004) Surachta Behera (1902030030) Srutakriti Sahoo (1902030040)	Performance of Concrete Containing Recycle Coarse Aggregate and Foundry Sand with Particle Packing Optimization Technology	Dr. Bharadwaj Nanda	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
6	Prabhupad Panda (1902030048) Manak Kumar Sahu (1902030064) Raseswari Singh (1902030068) Soumyakanta Nayak (1902030070) Mrigna Mahanta (1902030004) Avinash Mahanta7 (1902030040)	An Experimental Study on analysis And Design of T Beam Bridge	Dr. Ramakanta Panigrahi	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
7	Rohit Rath (1902030079) S Binita Achary (1902030088) Jiarani Patra (1902030093)	Comparative Study of Fly ash and GGBS based soil geopolymer	Dr. Debabrata Giri	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5

	Amitesh Panigrahi (1902031106)				
	Samiksha Jain (1904030010)				
	Priya Jyoti Saw (1902030131)				
8	Nihar Rout (1902030006)	Study the durability properties of alkali activated concrete with rice husk ash	Dr. Sanghamitra Jena	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Rohit Gupta (1902030007)				
	Jyotiprakash Sahoo (1902030026)				
	Omm Prakash Moharana (1902030044)				
	K. Himesh Kumar (1902030058)				
	Anuja Dash (1902030003)				
9	Abhilash Kumar Parhi (1902030002)	Effect of Attitude Towards Traffic Safety Risk Perception and Pedestrian Behavior Using Structural Equation	Dr. Sudhanshu Sekhar Das	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Nikhil Krishna Balhava (1902030021)				
	Soumen Mishra (1902030025)				
	Subhranshu Dhal (1902030057)				
	R Dinesh Patnaik (1902030060)				
	Subhajit Lenka (1902030071)				
10	Padmini Maharana (1902030013)	To study the effect of granulated blast furnace slag GGBFS on concrete using recycled fly ash brick aggregate	Dr. Ramkrishna Dandapat	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Prayag Raj Singh (1902030016)				
	Akash Panigrahi (1902030018)				
	Abhilash Panigrahi (1902030072)				
	Ambika Behera (1802030076)				
	Sashikanta Pradhan (1702030064)				
11	Bikash Kumar Mahapatra (1902030032)	Mechanical Behavior of Bamboo Reinforced Green Concrete	Mr. Ajaya Kumar Das	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Netrananda Nayak (2003030007)				
	Gargee Patel (2003031013)				
	Rajat Mandal (1904030016)				
	Lastson N Sangma (1902032128)				
	Omm Anwesh Patra (1602030040)				
12	Debashis Patra (1902030037)	Application of Synthetic Unit Hydrograph in Stream Flow Forecasting at Champua G.D. Site area in as Ungauged Basin	Dr Anil Kumar Kar	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Sanjay raj Nayak (1902030039)				
	Rudra Pratap Pattnaik (1902030073)				
13	Suraj Kumar Achary (1902030074)	A study on Effect of Geonet on Bearing Capacity of Soil	Dr. Rajiv Lochan Sahu	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dilip Kumar Dehury (1902030094)				
	Pritas Kumar Sahu (1902030082)				
	Shubham Sahoo (1902031108)				
	Priyanka Pradhan (1902030005)				
	Rajarshri Rakshit (1902031105)				
14	Pritam Das (1902030041)	An Experimental Study of strength and durability properties of concrete by partial replacement of cement with marble dust.	Dr. Parsuram Nayak	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Maheswari Monalika Jena (1902030086)				
	Akanshya Das (1902031119)				
15	Lipsita Mohanta (1902031096)	Analytical Overview of Traffic Street Parameters	Mr. Sushant Kumar Sial	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Sarthak Ranjan Sahu (1902030014)				
	Cyrus D Shira (1802032127)				
	Dibyajyoti Samal (2003030002)				
	Shubalakshmi S Murmu (1902030076)				
16	Sabya sachi Tripathi (1802030051)	Scrap Rubber Tire Modified Dense Bituminous Macadam	Ms. Sudhira Rath	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Dipti Kumari Sethi (2003030005)				
	Shritam Pati (1802030043)				
17	Tikeshwar Pasayat (1802030042)	Modelling of U-Turn at Uncontrolled Median Openings	Mr. Pratap Kumar Pradhan	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5
	Biswajit Samal (1902031113)				
	Deepak Kumar Pradhan (1904030012)				
	Kalyani Jena (1902031103)				
	Priyanka Sundray (1902031098)				

Rudra Prasanna Samal (2003030008)				
Subrat Naik (1902030090)				

Assessment	15
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2.2.4. Initiatives related to industry interaction, industry internship/summer training (10)

Department of Civil Engineering has developed a strong industry-academia partnership to maximize the benefit to the students. The department has taken several initiatives for a vibrant industry interaction, some of which are given below.

- Industry Involvement in the Program Design and Curriculum.
- Industry involvement in Industry Supported Laboratories
- Invited lectures by Industry Experts
- Workshops/Conferences
- Industrial visits
- Industry involvement in Research
- Industry involvement in student projects
- Internship (List of students undergone internship at different organizations is given below)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1	Ritik Baral	1902031112	Department of Water Resources, Odisha, Sechasadan, Keshari Nagar, Unit-V, Bhubaneswar, 751001
2	Gokul Gobind Bag	2002030153	Indian Railways (east coast Railway)
3	Aliva Sahu	2002030038	MESCO Pvt Ltd
4	Sanjay Raj Nayak	1902030039	Airports Authority of India
5	Omkar Mohanty	2103031012	BDA (Bhubaneswar Development Authority)
6	Shubham Sagar Sahu	2002030021	CPWD
7	Ankita Dash	2002030160	Department of Water Resources
8	Shubham Sagar Sahu	2002030021	HAL
9	Swastik Sahu	2002030052	Indian Railways
10	Sourav Ghose	2002030130	L&T (Larsen & Toubro)
11	Sourav Ghose	2002030130	R and B (Road, Building and Bridge works)
12	Snehansu Sekhar Naik	2002030088	Salania irrigation division
13	Suraj Gouda	1902031109	(ARSS Infrastructure Projects Limited)
14	Adyasha Mahapatra	1904030014	(ARSS Infrastructure Projects Limited)
15	Punya Pranab Mishra	1902030075	(L&T) Larsen & Toubro
16	Shasank Agrawal	2002030003	(NHAI) National Highway Authority of India
17	Shasank Agrawal	2002030003	(NTPC) National Thermal Power Corporation Limited
18	Suraj Gouda	1902031109	(Odisha Construction Corporation Ltd)
19	Adyasha Mahapatra	1904030014	(Odisha Construction Corporation Ltd)
20	Krutikrushna Sahu	1902030084	(R and B) Roads and Building Division-I
21	Monalin Pradhan	1804030013	(R&B) Division No-V, Bhubaneswar
22	Jyotiprakash Sahoo	1902030026	A.B.G. (Aditya Birla Group)
23	Debi Prasad Mohanty	2002030134	AAI (Airport Authority of India)
24	Shruti Sahoo	2004030003	AAI (Airport Authority of India)
25	Anwesh Sahu	2002030093	AAI (Airport Authority of India)
26	Pooja Sethi	1902030045	AAI (Airport Authority of India)
27	Gayatri Bhandari	7978703229	AAI (Airports authority of India)
28	Srutakirti Sahoo	1902030040	AAI (Airport Authority of India)
29	Krishna behera	1902030038	AAI (Airport Authority of India)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
30	Kajal saho	2004030010	AAI (Airport Authority of India)
31	Swetlina Mohanty	2002030085	AAI (Airport Authority of India)
32	Shasank Agrawal	2002030003	AAI (Airport Authority of India)
33	Sonali Rohini Pany	2004030002	AAI (Airport Authority of India)
34	Biswajeet Das	1902030042	AAI (Airport Authority of India)
35	Sourav Ghose	2002030130	AAI (Airport Authority of India)
36	Shubham Sagar Sahu	2002030021	AAI (Airport Authority of India)
37	Arpita Mallik	2004030016	AAI (airports authority of India)
38	Sambhunath Biswal	2002030091	AAI (Airport Authority of India)
39	Aliva Sahu	2002030038	Adarsh Construction, BKD
40	Pallishree Parimita Mishra	1904030013	Aditya Birla
41	Biswajit Samal	2004030020	Aditya Birla Group
42	Saswati Das Choudhury	2002030149	Aditya Birla group
43	Kintala Himesh Kumar	1902030058	Aditya Birla Group
44	Ajesh Deheri	2002030017	Aditya Birla Group
45	Ankita Dash	2002030160	Aditya Birla Group
46	Soham Ghosh	2002030135	Aditya Birla Group of Companies
47	Subhrajeet Behera	2002030135	Aditya Birla group of companies
48	Malay Kumar Roul	1902030019	Airport authority of India
49	Priya Jyoti Saw	1902030131	Airport authority of India
50	Manak Kumar Sahu	1902030064	Airport authority of India
51	Snehasish Parida	1902030065	Airport Authority of India
52	Prithviraj Singhababu	2102030067	Airport Authority of India
53	Subhadeep Sahu	2002030042	Airport Authority of India
54	Aliva Sahu	2002030038	Ambuja Cement
55	Biswajit Samal	2004030020	Ambuja Cement
56	Saswati Das Choudhury	2002030149	Aquatec Systems Asia Pvt. Ltd.
57	Shubham Soren	1904030011	ARSS
58	Johnson Swain	1902031117	ARSS Infrastructure Limited
59	Rohit Rath	1902030079	ARSS infrastructure Limited
60	Swoyonjit Rath	2002030140	ARSS Infrastructure Limited
61	Satyajit Behera	1902031120	ARSS, Infrastructure Ltd
62	Monalin Pradhan	1804030013	Authority of India (NHAI), Regional Office-Odisha
63	Saswati Das Choudhury	2002030149	Autodesk
64	Asish Ranjan Padhy	1904030001	BBSR (R&B) Division No.1
65	Saishankar Swain	1904030002	BBSR (R&B) Division No.1
66	Shruti Sahoo	2004030003	Bharat Heavy Electrical Limited
67	Kajal Sahoo	2004030010	Bharat Heavy Electrical Limited
68	Malay Kumar Roul	1902030019	BHEL
69	Bikash Kumar Mahapatra	1902030032	BHEL
70	Priya Jyoti Saw	1902030131	BHEL
71	Sonali Rohini Pany	2004030002	BHEL (Bharat Heavy Electrical Limited)
72	Sourav Ghose	2002030130	BHEL (Bharat Heavy Electricals Limited)
73	Abhilas Nanda	2002030008	Bhushan power and steel Ltd, Jharsuguda
74	Biswajit Samal	2004030020	Bhushan power and steel Ltd, Jharsuguda
75	Ajesh Deheri	2002030017	Bhushan power and steel Ltd, Jharsuguda
76	Aliva Sahu	2002030038	Bhushan power and steel Ltd, Jharsuguda
77	Samiksha Jain	1904030010	Bhushan power and steel Ltd, Jharsuguda
78	Pallishree Parimita Mishra	1904030013	Bhushan power and steel Ltd, Jharsuguda
79	Seemarani Bhoi	1902031121	Bhushan Steel And power company
80	Sourav Ghose	2002030130	BMC (Bhubaneswar Municipal Corporation)
81	Suraj biswakarma	2002031126	BPSL
82	Arupananda Behera	2002031171	BPSL

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
83	Elina Ankita Surin	1902030078	BPSL
84	Akanksha Jena	1902031124	BPSL
85	Subhalaxmi Sonali Murmu	1902030076	BPSL
86	Anoushka Nayak	2002030162	BSNL
87	Subham Dash	2002031176	BSNL
88	Satyajit Ray	2002031168	BSNL
89	Soumya Ranjan Parida	2002031178	BSNL
90	Abu Usman	2002031177	BSNL
91	Sanjay Raj Nayak	1902030039	Burla Irrigation Division, Burla
92	Gayatri Bhandari	1902030035	Burla power house
93	Pooja Sethi	1902030045	Burla Power House
94	Biswajeet Das	1902030042	Central public work department
95	Krishna behera	1902030038	Central public work department
96	Anwesh Sahu	2002030093	CENTRAL PUBLIC WORK DEPARTMENT
97	Rajat Pradhan	2002030006	Central Public Works Department
98	Shubham Sahoo	1902031108	Central Public works Department
99	Ankit Patel	1902030029	Central Public Works Department
100	Debasish Paikaray	1902030050	Central Public Works Department
101	Sanu Sagarika Dandapat	2003030004	Central Public Works Department
102	Monali Sahoo	1902030033	Central Public Works Department (CPWD)
103	Sabyasachi tripathy	1802030051	Central public works department (CPWD)
104	Shubham Sahoo	1902031108	Central Public works Department (CPWD)
105	Sanjay Raj Nayak	1902030039	Central Public Works Department, Sambalpur
106	Biswajit Samal	2004030020	CESU
107	Aliva Sahu	2002030038	CESU
108	Bikash Kumar Mahapatra	1902030032	CHEP,
109	Prachi Pragalbha Sahu	2004030024	CIL (Coal India Limited)
110	Nandita Priyadarshini Pradhan	1902030031	CPWD
111	Nihar Rout	1902030006	CPWD
112	Bikash Kumar Mahapatra	1902030032	CPWD
113	Priya Jyoti Saw	1902030131	CPWD
114	Debi Prasad Mohanty	2002030134	CPWD
115	Soumen Mishra	1902030025	CPWD
116	N Divyashree	1902030028	CPWD
117	Gyana Ranjan Behera	2002030150	CPWD
118	Soumya Kanta Nayak	1902030068	CPWD
119	Anoushka Nayak	2002030162	CPWD
120	Subham Dash	2002031176	CPWD
121	Satyajit Ray	2002031168	CPWD
122	Soumya Ranjan Parida	2002031178	CPWD
123	Ritish Pradhan	2002031169	CPWD
124	Arupananda Behera	2002031171	CPWD
125	Ankita Upasana Nanda	2004030007	CPWD
126	Abu Usman	2002031177	CPWD
127	Anjali Sahu	2103030010	Cpwd
128	Roshnee Patra	2002031175	Cpwd
129	Prabhat Kumar Mahapatra	2002030159	CPWD
130	Gloria Pitkamal Mohanta	2002031106	CPWD
131	Lili Meher	2002031095	CPWD
132	Soham Ghosh	2002030135	CPWD
133	Gokul Gobind Bag	2002030153	CPWD
134	Pratyasha Naik	2002030089	CPWD
135	Satyam Mishra	2002030142	Cpwd

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
136	Biswajit Samal	2004030020	CPWD
137	Bedaprakash Padhan	2004030009	CPWD
138	S Binita Achary	1902030088	CPWD
139	Shuvasmita Dash	1902030085	CPWD
140	Subrat Kumar Sahu	2004030006	CPWD
141	Subhransu Sekhar Jena	2004030014	CPWD
142	Bedaprakash Padhan	2004030009	CPWD
143	Ananya Ray	1902030056	CPWD
144	Sambhunath Biswal	2002030091	CPWD
145	Aditya Prasad Sahoo	2002030050	CPWD
146	Sriyat Sekhar Behera	1902030036	CPWD
147	Siddhant Das	1902030049	CPWD
148	Kanha Jain	1902030027	CPWD
149	Aliva Sahu	2002030038	CPWD
150	Abhinab Panigrahi	2002030047	CPWD
151	Simadri Somesh	2002030001	CPWD
152	Akanksha Jena	1902031124	CPWD
153	Elina Ankita Surin	1902030078	CPWD
154	Sarthak Mishra	9178998460	CPWD
155	Prabhupad Panda	1902030048	CPWD
156	Subhalaxmi Sonali Murmu	1902030076	CPWD
157	Lipsita Mohanta	1902031096	CPWD
158	Dibyajyoti Samal	2003030002	CPWD
159	Gargee Patel	2003031013	Cpwd
160	Suman kumar Kallo	2004030017	CPWD
161	Byomakesh Pani	2003030010	CPWD
162	Rudra Prasanna Samal	2003030008	CPWD
163	Roshan Kumar jha	2002030145	CPWD
164	J.S.Ananya	2002030057	CPWD
165	Shubham Panigrahi	2002030131	CPWD
166	Subhadeep Sahu	2002030042	CPWD
167	Suraj Biswakarma	2002031126	CPWD
168	Shailesh Kumar Dash	2002030010	CPWD
169	Umakanta Khuntia	1902030001	CPWD
170	Snehasish Parida	1902030065	CPWD
171	Priyanshu Sekhar Sahoo	2002030133	CPWD
172	Aditya Prasad Sahoo	2002030050	CPWD
173	Srinibash Pati	2002030147	CPWD
174	Ajesh Deheri	2002030017	CPWD
175	Byomakesh Pani	2003030010	CPWD
176	Chandan Kumar Patra	2002031121	CPWD
177	Suprava Dash	1902030129	CPWD (central public Works department)
178	Pooja Sethi	1902030045	CPWD (Central Public Work Department)
179	Debabrata Meher	2002031104	CPWD (Central Public Works Department)
180	Aniket Patnaik	2002030156	CPWD (Central Public Works Department)
181	Shruti Sahoo	2004030003	CPWD (central public work department)
182	Sarthak Ranjan Sahu	1902030014	CPWD (Central Public Work Department)
183	Nikhil Krishna Balhava	1902030021	CPWD (Central Public Works Department)
184	Abhilash Kumar Parhi	1902030002	CPWD (Central Public Works Department)
185	Priyanka Pradhan	1902030005	CPWD (Central Public Works Department)
186	Sushree Sangita Moharana	1902030004	CPWD (Central Public Works Department)
187	Pritishree Murmu	2002030079	CPWD (Central public works department)
188	Debi Prasad Mohanty	2002030134	CPWD (Central Public Works Department)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
189	Shasank Agrawal	2002030003	CPWD (Central Public Works Department)
190	Raseswari Singh	1902030067	CPWD (Central public works department)
191	Ankit Kumar Verma	2002030127	CPWD (Central Public Works Department)
192	Pratik Nandan Choudhary	1902030023	CPWD Bhubaneswar
193	Gaurav Sharma	1902030012	CPWD Bhubaneswar
194	Ankita Dash	2002030160	CPWD (Central public works department, government of India)
195	Samiksha Jain	1904030010	CPWD (Central Public Works Department)
196	Priyanka Priyadarsini Sahu	2002030073	CPWD (Central public works department)
197	Mrigna Mahanta	1902030070	CPWD (Central Public Works Department)
198	Swetlina Mohanty	2002030085	CPWD (Central public works department)
199	Kajal sahu	2004030010	CPWD (central public works department)
200	Rohit Rath	1902030079	CPWD (Central Public Work Department)
201	Gloria Pitkamal Mohanta	2002031106	CPWD (Central public work department)
202	Gayatri Bhandari	1902030035	CPWD (Central public work department)
203	Srutakirti Sahoo	1902030040	CPWD (CENTRAL PUBLIC WORK DEPARTMENT)
204	Surachita Behera	1903030030	CPWD (Central Public Work Department)
205	Arpita Mallik	2004030016	CPWD (central public work department)
206	Jignyasa Das	1902030034	CPWD (Central Public Works Department)
207	Swoyonjit Rath	2002030140	CPWD (central public works department)
208	Kriti Shekhar Samantaray	2002030158	CPWD (CENTRAL PUBLIC WORKS DEPARTMENT)
209	Subhransu Maharana	2002030146	CPWD (CENTRAL PUBLIC WORKS DEPARTMENT)
210	Sonali Rohini Pany	2004030002	CPWD (Central public works department)
211	Padmini Maharana	1902030013	CPWD (Central Public Works Department)
212	Prayag Raj Singh	1902030016	CPWD (CENTRAL PUBLIC WORKS DEPARTMENT)
213	Om Parmar	2002030161	CPWD (Central Public Works Department)
214	Sourav Ghose	2002030130	CPWD (Central Public Works Department)
215	Kadambini Behera	1904030007	CPWD (Central public works department)
216	Swarup Sagar Sethy	2002030151	CPWD (Central Public Works Department)
217	Akash Panigrahi	1902030018	CPWD (Central Public Works Department)
218	Manoj Kumar Jena	2002030143	CPWD (Central Public Works Department)
219	Ananya Das	2002030064	CPWD (Central public works department)
220	Sheetal Swain	2002031114	CPWD (Central public works department), Bhubaneswar
221	Abhisekh Mahapatro	2002030157	CPWD (Central Public Works Department), Bhubaneswar
222	Malay Kumar Roul	1902030019	CPWD, BHUBANESWAR
223	Dibya Mohan Behera	2004030008	CPWD, PWD, RD (RURAL DEVELOPMENT), NH, NHAI
224	Soham Ghosh	2002030135	CTTC
225	Swastik Sahu	2002030052	CTTC
226	Arupananda Behera	2002031171	CTTC
227	Antaryami Basantia	2002030094	CTTC
228	Ajesh Deheri	2002030017	CTTC
229	Aliva Sahu	2002030038	CTTC
230	Anwesh Sahu	2002030093	CTTC Bhubaneswar
231	Priyanshu Sekhar Sahoo	2002030133	CTTC Bhubaneswar
232	Sonali Rohini Pany	2004030002	CTTC (Central Tool Room & Training Centre)
233	Biswajit Samal	2004030020	CTTC, BHUBANESWAR
234	Monalin Pradhan	1804030013	CTTC, Bhubaneswar
235	Krutikrushna Sahu	1902030084	Department of Water Resource Odisha
236	Maheswari Monalika Jena	1902030086	Department of water resource, Bhadrak
237	Pritas Kumar Sahu	1902030082	Department of water resource, Odisha
238	Debi Prasad Mohanty	2002030134	Department of Water Resources
239	Shasank Agrawal	2002030003	Department of water resources
240	Shuvasmita Dash	1902030085	Department of Water Resources
241	Kishore Kumar Singh	2002031123	Department of water resources

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
242	Ankita Upasana Nanda	2004030007	Department of Water resources
243	Rahul Kumar Sharma	1902031114	Department of Water Resources (Sechasadan)
244	Biswajit Samal	1902031113	Department Of Water Resources, Odisha
245	Dillip Kumar Dehury	1902030094	Department of water Resources, Odisha
246	Suraj Kumar Achary	1902030074	Department of water resources Odisha
247	Avinash Behera	1904030004	DEPARTMENT OF WATER RESOURCES.
248	Anoushka Nayak	2002030162	DRDO
249	Subham Dash	2002031176	DRDO
250	Soumya Ranjan Parida	2002031178	DRDO
251	Ritish Pradhan	2002031169	DRDO
252	Abu Usman	2002031177	DRDO
253	Manoj Kumar Amat	2002030086	DRDO
254	Kriti Shekhar Samantaray	2002030158	DRDO
255	Subhransu Maharana	2002030146	DRDO
256	Soham Ghosh	2002030135	DRDO
257	Satyam Mishra	2002030142	Drdo
258	Biswajit Samal	2004030020	DRDO
259	Saswati Das Choudhury	2002030149	DRDO
260	Sarthak Mishra	2002031111	DRDO
261	Shubham Panigrahi	2002030131	DRDO
262	Priyadarshini Bal	2102031097	DRDO
263	Subhadeep Sahu	2002030042	DRDO
264	Ritish Pradhan	2002031169	DRDO
265	Anwesh Sahu	2002030093	DRDO
266	Suprava Dash	1902030129	DRDO (Defense research development organization)
267	Debi Prasad Mohanty	2002030134	DRDO (Defense Research and Development Organization)
268	Subhrajeet Behera	2002030075	DRDO ITR
269	Om Parmar	2002030161	DRDO (Defense Research and Development Organization)
270	Swarup Sagar Sethy	2002030151	DRDO (Defense Research and Development Organization)
271	Kadambini Behera	1904030007	East Coast of Railway
272	Roshan Kumar Jha	2002030145	East coast Railway
273	Samiksha Jain	1904030010	East Coast Railway
274	Soham Ghosh	2002030135	East Coast Railways
275	Asish Ranjan Padhy	1904030001	Engineer-in-Chief, Department of Water Resources, Odisha
276	Saishankar Swain	1904030002	Engineer-in-Chief, Department of Water Resources, Odisha
277	Swoyonjit Rath	2002030140	Engineer-in-chief, Rural works Odisha
278	Amitesh Panigrahi	1902031106	Executive Engineer Balangir (R&B)
279	Monalin Pradhan	1804030013	Executive Engineer office R&B Division-2,
280	Amitesh Panigrahi	1902031106	Executive Engineer, Sambalpur (R&B) Division No 1
281	Amitesh Panigrahi	1902031106	Executive Engineer, Sambalpur (R&B) Division No 2
282	Saswati Das Choudhury	2002030149	Gammon India
283	Simadri Somesh	2002030001	Ganjam R&B Division
284	Suraj Gouda	1902031109	Ganjam(R&B) Division No-2
285	Kishore Kumar Singh	2002031123	Geographical survey of India
286	Suman Kumar Kallo	2004030017	Geographical survey of India
287	Swastik Swarup Prasad	2102081053	GOOGLE
288	Jigisha Patnaik	1902030015	Government of Odisha
289	S Binita Achary	1902030088	Government of Odisha department of water resources
290	Kishore Kumar Singh	2002031123	HAL
291	Priya Jyoti Saw	1902030131	HAL
292	Malay Kumar Roul	1902030019	HAL
293	Arupananda Behera	2002031171	HAL
294	Soumya Ranjan Parida	2002031178	HAL

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
295	Ritish Pradhan	2002031169	HAL
296	Kriti Shekhar Samantaray	2002030158	HAL
297	Subhransu Maharana	2002030146	HAL
298	Bikash Kumar Mahapatra	1902030032	HAL
299	Pratyasha Naik	2002030089	HAL
300	Soham Ghosh	2002030135	HAL
301	Pooja Behera	2002030076	HAL
302	J.S. Ananya	2002030057	HAL
303	Shubham Soren	1904030011	HAL
304	Sarthak Mishra	2002031111	HAL
305	Prabhupad Panda	1902030048	HAL
306	Debasish Paikaray	1902030050	HAL
307	Subhrajeet Behera	2002030075	HAL
308	Ajesh Deheri	2002030017	HAL
309	Malay Kumar Roul	1902030019	HAL
310	Mrigna Mahanta	1902030070	HAL (Hindustan Aeronautics Limited)
311	Suprava Dash	1902030129	HAL (Hindustan Aeronautics Ltd)
312	Kintala Himesh Kumar	1902030058	HAL (Hindustan Aeronautics Ltd)
313	Subrat Kumar Pradhan	2002030167	HAL (Hindustan Aeronautics Ltd)
314	Raseswari Singh	1902030067	HAL (Hindustan Aeronautics Ltd)
315	Subhasish Sahoo	2002031115	HAL (Hindustan Aeronautics Ltd)
316	Sambit Kumar Majhi	2002030154	HAL (Hindustan Aeronautics Ltd)
317	Subrat Kumar Pradhan	2002030167	HAL (Hindustan Aeronautics Ltd)
318	Om Parmar	2002030161	HAL (Hindustan Aeronautics Limited)
319	Abhisekh Mahapatro	2002030157	HAL (Hindustan Aeronautics Limited)
320	Sourav Ghose	2002030130	HAL (Hindustan Aeronautics Limited)
321	Shibananda Naik	1802030084	HAL (Hindustan Aeronautics Ltd)
322	Alok Apat	2103030007	HAL (Hindustan Aeronautics Ltd)
323	Sarbodaya Swain	2002030015	HAL (Hindustan Aeronautics Ltd)
324	Abu Usman	2002031177	HAL (Hindustan Aeronautics Ltd)
325	Manoj Kumar Jena	2002030143	HAL (Hindustan Aeronautics Ltd)
326	Swarup Sagar Sethy	2002030151	HAL (Hindustan Aeronautics Ltd)
327	Biswajit Samal	2004030020	HAL (Hindustan Aeronautics Ltd)
328	Arupananda Behera	2002031171	HAL
329	S Aditya	2002030141	Hindalco
330	Suvendu Sekhar Mohanty	1902030091	HINDALCO
331	Nandita Priyadarshini Pradhan	1902030031	HINDALCO
332	Nikhil Krishna Balhava	1902030021	HINDALCO
333	Abhilash Kumar Parhi	1902030002	HINDALCO
334	Soumya Ranjan Parida	2002031178	HINDALCO
335	Ritish Pradhan	2002031169	HINDALCO
336	Suraj Kumar Achary	1902030074	HINDALCO
337	Pritas Kumar Sahu	1902030082	HINDALCO
338	Krutikrushna sahu	1902030084	HINDALCO
339	Samiksha Jain	1904030010	HINDALCO
340	Kadambini Behera	1904030007	HINDALCO
341	Soham Ghosh	2002030135	HINDALCO
342	Saswati Das Choudhury	2002030149	HINDALCO
343	Abhinab Panigrahi	2002030047	HINDALCO
344	Simadri Somesh	2002030001	HINDALCO
345	Suraj Biswakarma	2002031126	HINDALCO
346	Subhransu Maharana	2002030146	HINDALCO
347	Siddhant Das	1902030049	HINDALCO

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
348	Sriyat Sekhar Behera	1902030036	HINDALCO
349	Kanha Jain	1902030027	HINDALCO
350	Prabhat Kumar Mahapatra	2002030159	HINDALCO
351	Debasish Kar	2202030165	HINDALCO
352	Sarthak Ranjan Sahu	1902030014	HINDALCO
353	Sonali Rohini Pany	2004030002	HINDALCO
354	Snehashis Behera	2002031172	HINDALCO
355	Ajesh Deheri	2002030017	HINDALCO
356	Jignyasa Das	1902030034	HINDALCO
357	Monali Sahoo	1902030033	HINDALCO
358	N Divyashree	1902030028	HINDALCO
359	Abu Usman	2002031177	HINDALCO
360	Biswajit Samal	2004030020	HINDALCO
361	Subhrajeet Behera	2002030075	Hindalco
362	Sushree Sangita Moharana	1902030004	HINDALCO (Hindustan Aluminum Corporation Limited)
363	Priyanka Pradhan	1902030005	HINDALCO (Hindustan Aluminium Corporation limited)
364	Soumyakanta Nayak	1902030068	Hindalco industries
365	Akash Panigrahi	1902030018	HINDALCO Industries
366	Priyanka Sundaray	1902031098	Hindalco Industries
367	Kshirabdhii Tanaya Hota	1902030130	Hindalco Industries
368	Manoj Kumar Jena	2002030143	HINDALCO Industries
369	Rudra prasanna samal	2003030008	Hindalco industries
370	Byomakesh Pani	2003030010	HINDALCO Industries
371	Dibyajyoti Samal	2003030002	Hindalco Industries
372	Kalyani Jena	1902031103	Hindalco Industries
373	Bikash Kumar Mahapatra	1902030032	HINDALCO INDUSTRIES LIMITED
374	Roshan Kumar Jha	2002030145	Hindalco industries limited
375	Anwesh Sahu	2002030093	Hindalco industries limited
376	Malay Kumar Roul	1902030019	Hindalco industries limited
377	Priya Jyoti Saw	1902030131	Hindalco industries limited
378	Aliva Sahu	2002030038	Hindalco Power Ltd
379	Prayag Raj Singh	1902030016	Hindalco Sambalpur
380	Padmini Maharana	1902030013	Hindalco industries limited
381	Abhilash Panigrahi	1902030072	HINDALCO (Hindustan Aluminum Corporation Limited)
382	Sonali Rohini Pany	2004030002	Hindustan aeronautics
383	Soumya Ranjan Biswal	2102030044	Hindustan Aeronautics Ltd
384	Subrat Kumar Pradhan	2002030167	Hindustan Aeronautics Ltd
385	Aliva Sahu	2002030038	Hindustan Aeronautics Ltd
386	S Aditya	2002030141	Hirakud Captive Power Plant
387	Sheetal swain	2002031114	Hirakud Hydro Electric Project
388	Ananya Das	2002030064	Hirakud Hydro Electric Project
389	Abhisekh Mahapatro	2002030157	Hirakud Hydroelectric Power
390	Debasish Kar	2002030165	Hirakud hydroelectric power Plant
391	Priyanka Sundaray	1902031098	Hirakud research station
392	Kalyani Jena	1902031103	Hirakud Research Station
393	Anwesh Sahu	2002030093	HIRAKUD, MAIN DAM, BURLA
394	Subhadeep Sahu	2002030042	IDCO
395	Sourav Ghose	2002030130	IDCO (Industrial Infrastructure Development Corporation)
396	Biswajit Samal	2004030020	IFFCO
397	Soham Ghosh	2002030135	IISCO Steel Plant
398	Sumiran Modi	2103030006	IIT (Indian Institute of Technology)
399	Debi Prasad Mohanty	2002030134	IIT Kharagpur
400	Soham Ghosh	2002030135	IMFA (Indian Metals & Ferro Alloys Limited)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
401	Sourav Ghose	2002030130	IMFA (Indian Metals & Ferro Alloys Limited)
402	Sabyasachi Tripathy	1802030051	Indian railway
403	Subhransu Sekhar Jena	2004030014	INDIAN RAILWAY
404	Subrat Kumar Sahu	2004030006	Indian Railway
405	Ankita Upasana Nanda	2004030007	Indian Railway
406	Debi Prasad Mohanty	2002030134	Indian Railways
407	Kishore Kumar Singh	2002031123	Indian Railways
408	Sambhunath Biswal	2002030091	Indian Railways
409	Auro Prasad Swain	1902030061	Indian Railways
410	Rajat Pradhan	2002030006	Indian Railways
411	Sonali Rohini Pany	2004030002	Indian railways
412	Sambit Kumar Majhi	2002030154	Indian railways
413	Bedaprakash Padhan	2004030009	Indian railways
414	Prabhat Kumar Mahapatra	2002030159	Indian railways
415	Suman Kallo	2004030017	Indian railways
416	Prachi Pragalbha Sahu	2004030024	Indian Railways
417	Debabrata Meher	2002031104	Indian Railways
418	Subhransu Maharana	2002030146	Indian Railways
419	Sarthak Mishra	2002031111	Indian Railways
420	Soham Ghosh	2002030135	Indian Railways Chakradharpur Division
421	Kriti Shekhar Samantaray	2002030158	Indian Railways (East Coast Railway)
422	Swarup Sagar Sethy	2002030151	Indian Railways (East Coast Railway)
423	Sasmita Maharna	2103030009	Indian Railways, public water supply department, Sail, DRDO lab
424	Kishore Kumar Singh	2002031123	Indians Railway
425	Biswajit Samal	2004030020	Interim Training Range
426	Soham Ghosh	2002030135	IOCL
427	Subhrajeet Behera	2002030075	IOCL
428	Arpita Mallik	2004030016	Irrigation Department
429	Kajal Sahoo	2004030010	Irrigation Department
430	Shruti Sahoo	2004030003	irrigation Department
431	Liza Mohapatra	2102030022	Irrigation department, Mahanadi south, Cuttack
432	Ananya Das	2002030064	Irrigation division
433	Nandita Priyadarshini Pradhan	1902030031	Irrigation Division
434	Sheetal swain	2002031114	Irrigation division office , berhampur
435	Abhisekh Mahapatro	2002030157	Irrigation Division Office, Berhampur
436	Kintala Himesh Kumar	1902030058	ISRO
437	Subhadeep Sahu	2002030042	ITR
438	Shruti Sahoo	2004030003	ITR, DRDO (Integrated Test Range)
439	Kajal Sahoo	2004030010	ITR, DRDO (Integrated test range)
440	Arpita Mallik	2004030016	ITR DRDO (integrated test range)
441	Saswati Das Choudhury	2002030149	Jaypee group
442	Swastik Sahu	2002030052	JINDAL
443	Abhilas Nanda	2002030008	JINDAL
444	Priyanka Priyadarsini Sahu	2002030073	JINDAL
445	Shasank Agrawal	2002030003	Jindal steel and power limited
446	Anwesh Sahu	2002030093	Jindal Steel and Power limited
447	Shruti Sahoo	2004030003	Jindal Steel and Power Limited
448	Soham Ghosh	2002030135	Jindal Steel and Power Ltd.
449	Arpita Mallik	2004030016	Jindal Stell and Power Limited
450	Kajal Sahoo	2004030010	Jindal Stell And Power Limited
451	Kintala Himesh Kumar	1902030058	JK paper Ltd
452	Omm Prakash Moharana	1902030044	JK PAPER LTD
453	Sunil Kumar Behera	2002030074	JSPL

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454	Sarthak Subhadarshan	2002030044	JSPL
455	Lalasingh Jena	2002030012	JSPL
456	Priyadarshani Das	1904030019	JSPL (Jindal Steel and power Limited)
457	Ankita Upasana Nanda	2004030007	JSPL (Jindal Steel & Power Ltd.)
458	Ankita Dash	2002030160	JSPL (Jindal steel power limited)
459	Gloria Pitkamal Mohanta	2002031106	JSPL (Jindal and steel and power)
460	Truptirekha Behera	2002030036	JSPL (Jindal steel and power limited)
461	Pritishree Murmu	2002030079	JSPL (Jindal steel and power limited)
462	Sonali Rohini Pany	2004030002	JSPL (Jindal Steel and Power Limited)
463	Ankita Dash	2002030160	JSPL (Jindal steel and power limited)
464	Priyadarshani Das	1904030019	JSPL (Jindal Steel and Power Limited)
465	Kadambini Behera	1904030007	JSW
466	Debasish Kar	2002030165	JSW Steel limited
467	Anshuman Mahana	1902031101	JSW (Jindal South West)
468	Abhinab Panigrahi	2002030047	JSWBPSL
469	Ajesh Deheri	2002030017	Kolkata Metro Rail Corporation
470	Biswajit Samal	1902031113	Kolkata Metro Rail Corporation Ltd
471	Samiksha Jain	1904030010	L & T
472	Prabhupad Panda	1902030048	L & T
473	Girija Sankar Biswal	2002030152	L and T
474	S Aditya	2002030141	L&T
475	Arpita Das	2004030022	L&T
476	Jharana Sahu	2103030001	L&T
477	Anindita Toppo	2002030090	L&T
478	Priya Jyoti Saw	1902030131	L&T
479	Malay Kumar Roul	1902030019	L&T
480	Bikash Kumar Mahapatra	1902030032	L&T
481	Ritish Pradhan	2002031169	L&T
482	Kadambini Behera	1904030007	L&T
483	Shubham Sagar Sahu	2002030021	L&T
484	Arupananda Behera	2002031171	L&T
485	Suraj Biswakarma	2002031126	L&T
486	Akanksha Jena	1902031124	L&T
487	Akankshya Das	1902031119	L&T
488	Lipsita Mohanta	1902031096	L&T
489	Sonali Rohini Pany	2004030002	L&T
490	Kajal Sahoo	2004030010	L&T (Larsen and Toubro)
491	Shruti Sahoo	2004030003	L&T (LARESEN AND TOUBRO)
492	Monali Sahoo	1902030033	L&T (Larsen & Toubro Limited).
493	Priyanka Pradhan	1902030005	L&T (Larsen & Toubro)
494	Swoyongjit Rath	2002030140	L&T (Larsen & Toubro) construction
495	Pranit Kumar Rath	1902031104	L&T (Larsen &Toubro)
496	Debi Prasad Mohanty	2002030134	L&T (LARSEN AND TOUBRO)
497	Saswati Das Choudhury	2002030149	L&T construction
498	Mrigna Mahanta	1902030070	L&T Construction
499	Suprava Dash	1902030129	L&T construction Limited
500	Raseswari Singh	1902030067	L&T Construction Limited
501	B Priyajogi	2002030034	L&T Constructions
502	Aumprakash Das	2002030138	L&T or Nalco
503	Nandita Priyadarshini Pradhan	1902030031	L&T (Larsen & Toubro ltd)
504	Jignyasa Das	1902030034	L&T (Larsen & Toubro Limited)
505	Nikhil Krishna Balhava	1902030021	L&T (Larsen & Toubro Ltd)
506	Abhilash Kumar Parhi	1902030002	L&T (Larsen & Toubro Ltd.)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
507	Sushree Sangita Moharana	1902030004	L&T (Larsen & Toubro)
508	Arpita Mallik	2004030016	L&T (Larsen & Toubro)
509	Rohit Rath	1902030079	L&T (Larsen & Toubro) Construction
510	N Divyashree	1902030028	L&T(Larsen &Toubro Limited)
511	Prayag Raj Singh	1902030016	L&T(Larsen and Toubro)
512	Pranit Kumar Rath	1902031104	L&T(Larsen and Toubro Limited)
513	Padmini Maharana	1902030013	L&T (Larsen and Toubro)
514	Jitarani Patra	1902030093	L&T (Larsen and Turbo)
515	Soumya Kanta Nayak	1902030068	L&T (Larson & Turbo)
516	Biswajit Samal	1902031113	L&T (Larson & Turbo)
517	Rajat Pradhan	2002030006	L&T (Larson & Turbo)
518	Aliva Sahu	2002030038	L&T (Larson & Turbo)
519	Prithviraj Singhababu	2102030067	L&T (Larson & Turbo)
520	Arpita Mallik	2004030016	L&T (Larson & Turbo)
521	Subhadeep Sahu	2002030042	L&T (Larson & Turbo)
522	Anwesh Sahu	2002030093	L&T (Larson & Turbo)
523	Shasank Agrawal	2002030003	L&T (Larson & Turbo)
524	Priyanka Priyadarsini Sahu	2002030073	L&T (Larson & Turbo)
525	Soham Ghosh	2002030135	L&T (Larson & Turbo)
526	Abhisekh Mahapatro	200203157	Mahanadi Coal-field Limit, Burla
527	Rajat Pradhan	2002030006	Mahanadi Coal-field Limit, Burla
528	Shasank Agrawal	2002030003	Mahindra Power and Mahindra Tractor
529	Priyanka Priyadarsini Sahu	2002030073	Mahindra Power and Mahindra Tractor
530	Soham Ghosh	2002030135	Main Dam, Burla
531	Ritish Pradhan	2002031169	Main Dam, Burla
532	Suraj Biswakarma	2002031126	Main Dam, Burla
533	Swoyonjit Rath	2002030140	Main Dam, Burla
534	Roshan Kumar Jha	2002030145	Main Dam Burla
535	Rohit Rath	1902030079	Main Dam, Burla
536	Biswajit Samal	2004030020	Main Dam, Burla
537	Anoushka Nayak	2002030162	MCL
538	Subham Dash	2002031176	MCL
539	Satyajit Ray	2002031168	MCL
540	Soumya Ranjan Parida	2002031178	MCL
541	Ritish Pradhan	2002031169	MCL
542	Pritas Kumar Sahu	1902030082	MCL
543	Samiksha Jain	1904030010	MCL
544	Abu Usman	2002031177	MCL
545	Prabhat Kumar Mahapatra	2002030159	MCL
546	Alok Apat	2103030007	MCL
547	Roshnee Patra	2002031175	MCL
548	Pritishree Murmu	2002030079	MCL
549	Ankita Dash	2002030160	MCL
550	Pratyasha Naik	2002030089	MCL
551	Soham Ghosh	2002030135	MCL
552	Suraj Biswakarma	2002031126	MCL
553	Siddhant Das	1902030049	MCL
554	Sriyat Sekhar Behera	1902030036	MCL
555	Lipsita Mohanta	1902031096	MCL
556	Subhalaxmi Sonali Murmu	1902030076	MCL
557	Elina Ankita Surin	1902030078	MCL
558	Akanksha Jena	1902031124	MCL
559	Gargee Patel	2003031013	MCL

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
560	Roshan Kumar Jha	2002030145	MCL
561	Shubham Panigrahi	2002030131	MCL
562	Debasish Kar	2002030165	MCL
563	Subhadeep Sahu	2002030042	MCL
564	Seemarani Bhoi	1902031121	MCL
565	Subhrajeet Behera	2002030075	MCL
566	Kanha Jain	1902030027	MCL
567	Subrat Sanbad	2002030070	MCL (Mahanadi coal field limited)
568	Pallishree Parimita Mishra	1904030013	MCL (Mahanadi coal field limited), Bandhbahal
569	Debasish Patra	1902030037	MCL (Mahanadi Coalfields Limited)
570	Sarbodaya Swain	2002030015	MCL (Mahanadi coalfields limited)
571	Ankita Upasana Nanda	2004030007	MCL (Mahanadi Coalfields Ltd)
572	Truptirekha Behera	2002030036	MCL (Mahanadi coal field limited)
573	Pritishree Murmu	2002030079	MCL (Mahanadi coal field limited)
574	Manoj Kumar Jena	2002030143	MCL (Mahanadi Coal Field Limited)
575	Gloria Pitkamal Mohanta	2002031106	MCL, JSPL, TISCO, NALCO, CPWD, Water resources
576	Truptirekha Behera	2002030036	MCL, JSPL, TISCO, NALCO, CPWD, Water resources
577	Pritishree Murmu	2002030079	MCL, JSPL, TISCO, NALCO, CPWD, Water resources
578	Priyadarshani Das	1904030019	MCL (Mahanadi coalfield limited)
579	Subhasish Sahoo	2002031115	MCL (Mahanadi Coalfield Ltd)
580	Satyam Mishra	2002030143	MCL (Mahanadi Coalfields Limited)
581	Sanjana Pal	2002030148	MCL (Mahanadi Coalfields Limited)
582	Ananya Das	2002030064	MCL (Mahanadi Coalfields Limited)
583	Sheetal Swain	2002031114	MCL (Mahanadi Coalfields Limited)
584	Sonali Rohini Pany	2004030002	MCL (Mahanadi coalfields)
585	Ankita Dash	2002030160	MCL (Mahanadi Coalfields Limited)
586	Kynjaimon Dkhar	1902032127	Meghalaya Energy Corporation Limited
587	Kynjaimon Dkhar	1902032127	Meghalaya Public Works Department
588	Gourab Chandra Sahoo	2004030019	Mesco Ltd, Kalinga Nagar
589	Biswajit Samal	2004030020	MESCO PVT LTD
590	Biswajit Samal	2004030020	Metro Rail Corporation
591	Aliva Sahu	2002030038	Metro Rail Corporation
592	Suman Kumar Kallo	2004030017	NACO
593	Ankit Mishra	1902031102	NALCO
594	Suvendu Sekhar Mohanty	1902030091	NALCO
595	Sahil Kumar Sahoo	1902030087	NALCO
596	Tapan Kumar Sahoo	1902030080	Nalco
597	Snehashis Behera	2002031172	NALCO
598	Nihar Rout	1902030006	NALCO
599	Sunil Kumar Behera	2002030074	NALCO
600	Alok Apat	2103030007	NALCO
601	Priya Jyoti Saw	1902030131	NALCO
602	Malay Kumar Roul	1902030019	NALCO
603	Bikash Kumar Mahapatra	1902030032	NALCO
604	Aumprakash Das	2002030138	NALCO
605	Anoushka Nayak	2002030162	NALCO
606	Subham Dash	2002031176	NALCO
607	Satyajit Ray	2002031168	NALCO
608	Swastik Sahu	2002030052	NALCO
609	Soumya Ranjan Parida	2002031178	NALCO
610	Sarthak Subhadarshan	2002030044	NALCO
611	Shubham Sagar Sahu	2002030021	NALCO
612	Ashutosh Mishra	2002030011	NALCO

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
613	Ritish Pradhan	2002031169	NALCO
614	Pritas Kumar Sahu	1902030082	NALCO
615	Dillip kumar Dehury	1902030094	NALCO
616	Kriti Shekhar Samantaray	2002030158	NALCO
617	Subhransu Maharana	2002030146	NALCO
618	Sarthak Subhadarshan	2002030044	NALCO
619	Shambhunath Biswal	2002030091	NALCO
620	Lalasingh Jena	2002030012	NALCO
621	Abu Usman	2002031177	NALCO
622	Soumyakanta Nayak	1902030068	NALCO
623	Girija sankar biswal	20002030152	NALCO
624	Pritam Das	1902030041	NALCO
625	Prabhat Kumar Mahapatra	2002030159	NALCO
626	Umakanta khuntia	1902030001	NALCO
627	Roshnee Patra	2002031175	NALCO
628	Ankita Upasana Nanda	2004030007	NALCO
629	Pritishree Murmu	2002030079	NALCO
630	Ankita Dash	2002030160	NALCO
631	Satyam Mishra	2002030142	NALCO
632	Lili Meher	2002031095	NALCO
633	Soham Ghosh	2002030135	NALCO
634	Abhilas Nanda	2002030008	NALCO
635	Gokul Gobind Bag	2002030153	NALCO
636	Pratyasha Naik	2002030089	NALCO
637	Aditya Prasad Sahoo	2002030050	NALCO
638	Saswati Das Choudhury	2002030149	NALCO
639	Abhinab Panigrahi	2002030047	NALCO
640	Simadri Somesh	2002030001	NALCO
641	Subrat Kumar Sahu	2004030006	NALCO
642	Aliva Sahu	2002030038	NALCO
643	Pooja Behera	2002030076	NALCO
644	Bedaprakash Padhan	2004030009	NALCO
645	Suraj Biswakarma	2002031126	NALCO
646	Arupananda Behera	2002031171p	NALCO
647	Omkar Mohanty	2103031012	NALCO
648	Kintala Himesh Kumar	1902030058	NALCO
649	Manoj Kumar Amat	2002030086	NALCO
650	Tapan Kumar Sahoo	1902030080	NALCO
651	Sarthak Mishra	2002031111	NALCO
652	Sasmita Maharna	2103030009	NALCO
653	Shailesh Kumar Dash	2002030010	NALCO
654	Priya Jyoti Saw	1902030131	NALCO
655	Antaryami Basantia	2002030094	NALCO
656	Subhrajeet Behera	2002030075	NALCO
657	Priyanshu Sekhar Sahoo	2002030133	NALCO
658	Khetramani Meher	1902030083	NALCO
659	Malay Kumar Roul	1902030019	NALCO
660	Snehashis Behera	2002031172	NALCO (National Aluminum Company limited)
661	Priyanka Pradhan	1902030005	NALCO (National Aluminum Company limited)
662	Sushree Sangita Moharana	1902030004	NALCO (National Aluminum Company Limited)
663	Debi Prasad Mohanty	2002030134	NALCO (National Aluminum Company Limited)
664	Priyadarshani Das	1904030019	NALCO (National Aluminum company Limited)
665	Pritishree Murmu	2002030079	NALCO (National aluminum company)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
666	Debabrata Meher	2002031104	NALCO (National Aluminum Company)
667	Anwesh Sahu	2002030093	NALCO Bhubaneswar
668	Prayag Raj Singh	1902030016	NALCO (National Aluminum Company limited)
669	Abhisekh Mahapatro	2002030157	NALCO (National Aluminum Company Limited)
670	Anshuman Mahana	1902031101	NALCO (National Aluminum Company limited)
671	Krutikrushna Sahu	1902030084	NALCO (National Aluminum Company limited)
672	Sonali Rohini Pany	2004030002	NALCO (National Aluminum Company limited)
673	Durgaprasad Tripathy	2002031119	NALCO (National Aluminum Company limited)
674	Subrat Kumar Pradhan	2002030167	NALCO (National Aluminum Company limited)
675	Padmini Maharana	1902030013	NALCO (National Aluminium Company limited)
676	Priyadarshani Das	1904030019	NALCO (National Aluminum Company limited)
677	Priyadarshani Das	1904030019	NALCO (National Aluminium Company limited)
678	Soumyakanta Nayak	1902030068	NALCO (National Aluminium Company limited)
679	Om Parmar	2002030161	NALCO (National Aluminium Company)
680	Akash Panigrahi	1902030018	NALCO (National Aluminium Company)
681	Sheetal Swain	2002031114	NALCO (National Aluminium Company limited)
682	Sambit Kumar Majhi	2002030154	NALCO (National Aluminium Company limited)
683	Gourav Kumar Bisoi Singh	2003031012	NALCO (National Aluminium Company limited)
684	Swarup Sagar Sethy	2002030151	NALCO (National Aluminium Company limited)
685	Ananya Das	2002030064	NALCO (National Aluminium Company limited)
686	Rudra Pratap Pattnaik	1902030073	NALCO
687	Roshan Kumar Jha	2002030145	National aluminium company limited
688	Arpita Mallik	2004030016	National Aluminium Company Limited
689	Kajal Sahoo	2004030010	National Aluminium Company Limited
690	Shruti Sahoo	2004030003	National Aluminium Company Limited smelter plant
691	Gaurav Sharma	1902030012	National Building construction corporation limited
692	Pratik Nandan Choudhary	1902030023	National Buildings Construction Corporation Limited
693	Gaurav Sharma	1902030012	National Buildings Construction Corporation Limited
694	Ankit Patel	1902030029	National Buildings Construction Corporation Limited
695	Sabyasachi Tripathy	1802030051	National High authority of India (NHAI)
696	Aliva Sahu	2002030038	National Highway Authority
697	Arupananda Behera	2002031171	National Highway Authority
698	Suraj Biswakarma	2002031126	National Highway authority
699	Biswajeet Das	1902030042	National Highway Authority India
700	Rajat Pradhan	2002030006	National Highway Authority of India
701	Roshan Kumar Jha	2002030145	National highway authority of India
702	Priyanshu Sekhar Sahoo	2002030133	National Highway Authority of India
703	Dillip Kumar Dehury	1902030094	National Highway Authority of India (NHAI)
704	Amitesh Panigrahi	1902031106	National Highway Authority of India (NHAI)
705	Biswajit Samal	7735384151	National Highway Authority Of India Ltd.
706	Pritas Kumar Sahu	1902030082	National highway authority of India (NHAI)
707	Amitesh Panigrahi	1902031106	National Highway Authority of India (NHAI)
708	Sanjay Raj Nayak	1902030039	National Highways Authority of India
709	Shubham Sahoo	1902031108	National highways authority of India
710	Gyanaranjan Behera	2002030150	National Highways Authority of India (NHAI)
711	Bikash Nayak	1902031122	National Institute of Hydrology
712	Aliva Sahu	2002030038	Nava Bharat Ventures Pvt. Ltd
713	Ashutosh Mishra	2002030011	NCCB
714	Debi Prasad Mohanty	2002030134	NHAI
715	Priya Jyoti Saw	1902030131	NHAI
716	Malay Kumar Roul	1902030019	NHAI
717	Suraj Kumar Achary	1902030074	NHAI
718	Auro Prasad Swain	1902030061	NHAI

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
719	Prabhat Kumar Mahapatra	2002030159	NHAI
720	Umakanta Khuntia	1902030001	NHAI
721	Lili Meher	2002031095	NHAI
722	Gokul Gobind Bag	2002030153	NHAI
723	Shuvasmita Dash	1902030085	NHAI
724	Shubham Sagar Sahu	2002030021	NHAI
725	Gourab Chandra Sahoo	2004030019	NHAI
726	Jyotiprakash Sahoo	1902030026	NHAI
727	Sarthak Mishra	2002031111	NHAI
728	Padmini Maharana	1902030013	NHAI
729	Subhadeep Sahu	2002030042	NHAI
730	Shubham Panigrahi	2002030131	NHAI
731	Omm Prakash Moharana	1902030044	NHAI
732	Shailesh Kumar Dash	2002030010	NHAI
733	Sambhunath Biswal	2002030091	NHAI
734	Subhrajeet Behera	2002030075	NHAI
735	Maheswari Monalika Jena	1902030086	NHAI
736	Monali Sahoo	1902030033	NHAI (National Highway Authority of India)
737	Debabrata Meher	2002031104	NHAI (National Highway Authority of India)
738	Mrigna Mahanta	1902030070	NHAI (National Highway Authority of India)
739	Pooja Sethi	1902030045	NHAI (National Highway Authority of India)
740	Suprava Dash	1902030129	NHAI (National Highway Authority of India)
741	Kajal Sahoo	2004030010	NHAI (National Highways Authority of India)
742	Shruti Sahoo	2004030003	NHAI (National Highways Authority of India)
743	Nikhil Krishna Balhava	1902030021	NHAI (National Highways Authority of India)
744	Gayatri Bhandari	1902030035	NHAI (National authority of India)
745	Krishna Behera	1902030038	NHAI (National authority of India)
746	Raseswari Singh	1902030067	NHAI (National highway authority of India)
747	Anwesh Sahu	2002030093	NHAI (National Highway authority of India)
748	Ankita Upasana Nanda	2004030007	NHAI (National Highway Authority of India)
749	Subhransu Maharana	2002030146	NHAI (National Highway Authority of India)
750	N Divyashree	1902030028	NHAI (National Highway Authority of India)
751	Nandita Priyadarshini Pradhan	1902030031	NHAI (National Highway Authority of India)
752	Snehasish Parida	1902030065	NHAI (National Highways Authority of India)
753	Ankita Dash	2002030160	NHAI (National Highway Authority of India)
754	Shubham Sahoo	1902031108	NHAI (national highways authority of India)
755	Swarup Sagar Sethy	2002030151	NHAI (National Highway Authorities of India)
756	Rohit Rath	1902030079	NHAI (National Highway Authority of India)
757	Krutikrushna Sahu	1902030084	NHAI (National Highway Authority of India)
758	Umakanta Khuntia	1902030001	NHAI (National Highway Authority of India)
759	Sambit Kumar Majhi	2002030154	NHAI (National Highway Authority of India)
760	Kriti Shekhar Samantaray	2002030158	NHAI (National Highway Authority of India)
761	Srutakirti Sahoo	1902030040	NHAI (National Highway authority of India)
762	Surachita Behera	1902030030	NHAI (National Highway Authority of India)
763	Jignyasa Das	1902030034	NHAI (National Highway Authority of India)
764	Samiksha Jain	1904030010	NHAI (National Highway Authority of India)
765	Tapan Kumar Sahoo	1902030080	NHAI (National Highway Authority of India)
766	Prabhupad Panda	1902030048	NHAI (National Highway Authority of India)
767	Truptirekha Behera	2002030036	NHAI (National Highway authority of India)
768	Sonali Rohini Pany	2004030002	NHAI (National Highway Authority of India)
769	Swoyonjit Rath	2002030140	NHAI (National highways authority of India)
770	S Binita Achary	1902030088	NHAI (national highways authority of India)
771	Durgaprasad Tripathy	2002031119	NHAI (National Highways Authority of India)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
772	Abhilash Kumar Parhi	1902030002	NHAI (National Highways Authority of India)
773	Om Parmar	2002030161	NHAI (National Highways Authority of India)
774	Padmini Maharana	1902030013	NHAI (National Highways Authority of India)
775	Arpita Mallik	2004030016	NHAI (National Highways Authority of India)
776	Sanjay Raj Nayak	1902030039	NHAI (National Highways Authority of India)
777	Shubham Sahoo	1902031108	Nirman Soudha
778	Anshuman Mahana	1902031101	Nirman Soudha
779	Sourav Ghose	2002030130	NITS (Assistant Professor GRADE 1 NIT Silchar)
780	Priya Jyoti Saw	1902030131	NTPC
781	Malay Kumar Roul	1902030019	NTPC
782	Bikash Kumar Mahapatra	1902030032	NTPC
783	Ritish Pradhan	2002031169	NTPC
784	Soumya Ranjan Parida	2002031178	NTPC
785	Girija Sankar Biswal	2002030152	NTPC
786	Shubham Sagar Sahu	2002030021	NTPC
787	Prabhat Kumar Mahapatra	2002030159	NTPC
788	Anjali Sahu	2103030010	Ntpc
789	Priyanka Priyadarsini Sahu	2002030073	NTPC
790	Soham Ghosh	2002030135	NTPC
791	Lalasingh Jena	2002030012	NTPC
792	Gokul Gobind Bag	2002030153	NTPC
793	Biswajit Samal	2004030020	NTPC
794	Kriti Shekhar Samantary	2002030158	NTPC
795	Aliva Sahu	2002030038	NTPC
796	Aditya Prasad Sahoo	2002030050	NTPC
797	Abhinab Panigrahi	2002030047	NTPC
798	Suraj Biswakarma	2002031126	NTPC
799	Arupanandab Behera	2002031171	NTPC
800	Manoj Kumar Amat	2002030086	NTPC
801	Swetlina Mohanty	2002030085	NTPC
802	Gargee Patel	2003031013	NTPC
803	Subhadeep Sahu	2002030042	NTPC
804	Shubham Panigrahi	2002030131	NTPC
805	Omm Prakash Moharana	1902030044	NTPC
806	Antaryami Basantia	2002030094	NTPC
807	Ajesh Deheri	2002030017	NTPC
808	Kintala Himesh Kumar	1902030058	NTPC
809	Subhrajeet Behera	2002030075	NTPC
810	Sanjana Pal	2002030148	NTPC (National Thermal Power Corporation)
811	Anwesh Sahu	2002030093	NTPC (National thermal power corporation)
812	Priyadarshani Das	1904030019	NTPC (National Thermal Power corporation Limited)
813	Sarbodaya Swain	2002030015	NTPC (National Thermal Power Corporation limited)
814	Debi Prasad Mohanty	2002030134	NTPC (National Thermal Power Corporation Limited)
815	Debabrata Meher	2002031104	NTPC (National Thermal Power Corporation)
816	Sambhunath Biswal	2002030091	NTPC Angul
817	Durgaprasad Tripathy	2002031119	NTPC (National Thermal Power Corporation Limited)
818	Om Parmar	2002030161	NTPC (National Thermal Power Corporation Limited)
819	Debarani Majhi	1702030023	NTPC (National Thermal Power Corporation Limited)
820	Swarup Sagar Sethy	2002030151	NTPC (National Thermal Power Corporation)
821	Priyadarshani Das	1904030019	NTPC (National Thermal Power Corporation)
822	Nihar Rout	1902030006	O.C.C.L (Odisha Construction Corporation Ltd.)
823	Snehasish Parida	1902030065	OBCC (Odisha Bridge & Construction Corporation Limited)
824	Umakanta khuntia	1902030001	OBCC (Odisha Bridge & Construction Corporation Limited)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
825	Manak Kumar Sahu	1902030064	OBCC (Odisha Bridge & Construction Corporation limited)
826	Pritam Das	1902030041	OBCC (Odisha bridge & construction corporation limited)
827	Tapan Kumar Sahoo	1902030080	OBCC (Odisha Bridge & constructions corporations limited)
828	Shubham Soren	1904030011	OBCC
829	Kadambini Behera	1904030007	OCL
830	Sanjay Raj Nayak	1902030039	Odisha Bridge & Construction Corporation Limited
831	Auro Prasad Swain	1902030061	Odisha construction corporation limited
832	Sabyasachi Tripathy	1802030051	Odisha construction corporation limited (OCCL)
833	Johnson Swain	1902031117	Odisha Construction Corporation Ltd
834	Rohit Rath	1902030079	Odisha construction Corporation Ltd.
835	Swoyonjit Rath	2002030140	Odisha Construction Corporation Ltd.
836	Biswajit Samal	2004030020	Odisha Hydro power corporation Ltd
837	Roshan Kumar Jha	2002030145	Odisha hydro power corporation
838	Amitesh Panigrahi	1902031106	Odisha Hydro power corporation Ltd
839	Shruti Sahoo	2004030003	Office of executive engineer
840	Arpita Mallik	2004030016	Office of executive engineer
841	Chinmay Kumar Das	2002030049	Office of Executive Engineer
842	Sonali Rohini Pany	2004030002	Office of executive engineer
843	Sourav Ghose	2002030130	OFFICE OF EXECUTIVE ENGINEER
844	Priyanshu Sekhar Sahoo	2002030133	Office Of Executive Engineer
845	Kajal Sahoo	2004030010	Office of executive engineer
846	Sanjay Raj Nayak	1902030039	Office Of Executive Engineer Main Dam Division
847	Anshuman Mahana	1902031101	Office of executive Engineer R&B division-2 , Sambalpur
848	Nagen Chandra Sahu	2002030132	Office of executive engineer
849	AuroPrasad Swain	1902030061	Office of the chief engineer basin manager RBVN basin
850	Monalin Pradhan	1804030013	Office Of the Engineer in Chief (Rural Works)
851	Satyabrata Bhoi	2002030082	Office of the executive engineer
852	Monalin Pradhan	1804030013	Office of the Executive Engineer (Civil), BSNL, Bhubaneswar.
853	Umakanta Khuntia	1902030001	Office of the Executive Engineer Main Dam Division, Burla
854	Gayatri Bhandari	1902030035	Office of the Executive Engineer Main Dam Division, Burla
855	Biswajeet Das	1902030042	Office of the Executive Engineer Main Dam Division, Burla
856	Krishna Behera	1902030038	Office of the Executive Engineer Main Dam Division, Burla
857	Srutakirti Sahoo	1902030040	Office of the Executive Engineer Main Dam Division, Burla
858	Tapan Kumar Sahoo	1902030080	Office of the Executive Engineer Main Dam Division, Burla
859	Manak Kumar Sahu	1902030064	Office of the executive engineer main dam division, Burla
860	Debi Prasad Mohanty	2002030134	Office of the Executive Engineer R&B (Roads and Building)
861	Pooja Sethi	1902030045	Office of the Executive Engineer, Main Dam Division
862	Snehasish Parida	1902030065	Office of the Executive Engineer main Dam Division
863	Abhisek naik	2002030084	Office of the Executive Engineer
864	Snehansu Sekhar Naik	2002030088	Office of the Executive Engineer
865	Soham Ghosh	2002030135	OHPC
866	Biswajit Samal	2004030020	OHPC
867	Aliva Sahu	2002030038	OHPC
868	Bikash Kumar Mahapatra	1902030032	OHPC
869	Shubham Soren	1904030011	OHPC
870	Omm Prakash Moharana	1902030044	OHPC
871	Seemarani Bhoi	1902031121	OHPC
872	Anshuman Mahana	1902031101	OHPC (Odisha hydro power corporation)
873	Ankita Dash	2002030160	OHPC (ODISHA Hydro power corporation Ltd)
874	Kintala Himesh Kumar	1902030058	OHPC (Odisha Hydro Power Corporation Ltd)
875	Abhilash Panigrahi	1902030072	OHPC (Odisha Hydro Power Corporation Ltd)
876	Debasish Paikaray	1902030050	OHPC (Odisha Hydro Power Corporation Ltd.)
877	Swoyonjit Rath	2002030140	OHPC (Odisha Hydro Power Corporation)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
878	Rohit Rath	1902030079	OHPC (Odisha Hydro Power Corporation)
879	Malay Kumar Roul	1902030019	OHPC (Odisha hydro power corporation)
880	Priya Jyoti Saw	1902030131	OHPC (Odisha Hydro Power Corporation)
881	Soham Ghosh	2002030135	ONGC
882	Pallishree Parimita Mishra	1904030013	OPGC (Odisha power generation corporation),
883	Arupananda Behera	2002031171	OPTCL
884	Soham Ghosh	2002030135	Ordnance Factory
885	Biswajit Samal	2004030020	Paradeep Phosphate Limited
886	Subhrajeet Behera	2002030075	Paradeep Port Trust
887	Ajesh Deheri	2002030017	Paradeep Port Trust
888	Biswajit Samal	2004030020	Paradeep Oil Refinery
889	Aliva Sahu	2002030038	Paradip Port Trust
890	Sanu Sagarika Dandapat	2003030004	Power Grid Corporation of India Limited
891	Srutakirti Sahoo	1902030040	power house
892	Biswajeet Das	1902030042	Power House
893	Krishna behera	1902030038	Power house burla
894	Omm Prakash Moharana	1902030044	PPL
895	Jyotiprakash Sahoo	1902030026	PPL
896	Rohit Gupta	1902030007	PPL
897	Kintala Himesh Kumar	1902030058	PPL
898	Sasmita Maharna	2103030009	public water supply department, Indian Railways, Sail, BSNL, DRDO
899	Suraj Kumar Achary	1902030074	Public work department
900	Suraj kumar Achary	1902030074	Public work department
901	Sanu Sagarika Dandapat	2003030004	Public Work Department
902	Pritas Kumar Sahu	1902030082	Public work department
903	Padmini Maharana	1902030013	Public works (R&B) department
904	Kynjaimon Dkhar	1902032127	Public Works Department Meghalaya N.E.C. Sub Division, Sutnga
905	Prabhupad Panda	1902030048	PWD
906	Manoj Kumar Jena	2002030143	PWD
907	Chinmay Kumar Das	2002030049	PWD
908	Soham Ghosh	2002030135	PWD
909	Biswajit Samal	2004030020	PWD
910	Priyanka Priyadarsini Sahu	2002030073	PWD
911	Bedaprakash Padhan	2004030009	PWD
912	Subrat Kumar Sahu	2004030006	PWD
913	Suman Kumar Kallo	7077852468	Pwd
914	Swetlina Mohanty	2002030085	PWD
915	Shubham Panigrahi	2002030131	PWD
916	Sonali Rohini Pany	2004030002	PWD
917	Subhrajeet Behera	2002030075	PWD
918	Ajesh Deheri	2002030017	PWD
919	Anwesh Sahu	2002030093	PWD
920	shruti sahu	2004030003	PWD (public works department), R and B
921	Adam Ch Marak	1702032128	PWD (roads and building)
922	Prachi Pragalbha Sahu	2004030024	PWD (Public Works Department)
923	Biswajit Samal	2004030020	PWD (R and B)
924	Arupananda Behera	2002031171	PWD (R and B)
925	Debasish Patra	1902030037	PWD (R&B)
926	Debi Prasad Mohanty	2002030134	PWD CUTTACK
927	Nagen Chandra Sahu	2002030132	PWD Cuttack, Mahanadi
928	Debi Prasad Mohanty	2002030134	PWD Dhenkanal
929	Biswajit Samal	2004030020	PWD Executive Engineer
930	Rahul Patel	2002030002	PWD Office

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
931	Prabhupad Panda	1902030048	PWD R&B (Public Works Department)
932	Cyrus D Shira	1802032127	PWD (Public Works Department)
933	Kajal Sahoo	2004030010	PWD (public works department)
934	Nagen Chandra Sahu	2002030132	PWD (A and B)
935	Antaryami Basantia	2002030094	PWD (a and b)
936	Shruti Sahoo	2004030003	PWD (public works department)
937	Bijayani Biswal	2002031100	PWD (Public Works Department)
938	Arpita Mallik	2004030016	PWD (public works department)
939	Snehashis Behera	2002031172	PWD (Public Works Department)
940	Swarup Sagar Sethy	2002030151	PWD (Public Works Department)
941	Sheetal Swain	2002031114	PWD (Public Works Department), Berhampur
942	Abhisekh Mahapatro	2002030157	PWD (Public Works Department), Berhampur
943	Subhadeep Sahu	2002030042	PWD (R and B)
944	Lastson N Sangma	1902032128	PWD (Roads and Buildings) William nagar Division, Meghalaya
945	Chinmay Kumar Das	2002030049	PWR
946	Bikash Kumar Mahapatra	1902030032	R & B
947	Surachita Behera	1902030030	R & B
948	Ananya Ray	1902030056	R & B
949	Jyotiprakash Sahoo	1902030026	R & B
950	Subhalaxmi Sonali Murmu	1902030076	R & B
951	Byomakesh Pani	2003030010	R & B
952	Dibyajyoti Samal	2003030002	R & B
953	Sarthak Ranjan Sahu	1902030014	R & B (Roads & Buildings)
954	Kahal Sahoo	2004030010	R & B division (roads and building division)
955	Liza Mohapatra	2102030022	R & B division-1, Cuttack
956	Sambhunath Biswal	2002030091	R & B, Dhenkanal
957	Gargee Patel	2003031013	R and B
958	Ritik Baral	1902031112	R and B division no-01, Nayapali Bhubaneswar
959	Shruti Sahoo	2004030003	R and B divisions (roads and buildings division)
960	Krutikrushna Sahu	1902030084	R and B (Roads and Building) Division -II
961	Malay Kumar Roul	1902030019	R&B
962	Priya Jyoti Saw	1902030131	R&B
963	Soumen Mishra	1902030025	R&B
964	Samiksha Jain	1904030010	R&B
965	Gyanaranjan Behera	2002030150	R&B
966	Snehasish Parida	1902030065	R&B
967	Pritam Das	1902030041	R&B
968	Omm Prakash Moharana	1902030044	R&B
969	Aditya Prasad Sahoo	2002030050	R&B
970	Siddhant Das	1902030049	R&B
971	Sriyat Sekhar Behera	1902030036	R&B
972	Kanha Jain	1902030027	R&B
973	Ankit Patel	1902030029	R&B
974	Soumen Mishra	1902030025	R&B
975	Chinmay Kumar Das	2002030049	R&B
976	Raseswari Singh	1902030067	R&B
977	Tapan Kumar Sahoo	1902030080	R&B
978	Elina Ankita Surin	1902030078	R&B
979	Shubham Soren	1904030011	R&B
980	Pratik Nandan Choudhary	1902030023	R&B
981	Gaurav Sharma	1902030012	R&B
982	Suraj Biswakarma	2002031126	R&B
983	Umakanta Khuntia	1902030001	R&B

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
984	Avinash Behera	1904030004	R&B
985	Soumen Mishra	1902030025	R&B
986	Anoushka Nayak	2002030162	R&B
987	Subrat Naik	1902030090	R&B (Road and Building) Department,
988	Nihar Rout	1902030006	R&B (Road, Building and Bridge)
989	Priyanka Pradhan	1902030005	R&B (Roads & Buildings)
990	Sheetal swain	2002031114	R&B (Roads and Building), division-1, Sambalpur
991	Anshuman Mahana	1902031101	R&B (Roads and buildings)
992	Swoyonjit Rath	2002030140	R&B (roads and buildings), Division 1
993	Kintala Himesh Kumar	1902030058	R&B, division 1, Sambalpur
994	Pritas Kumar Sahu	1902030082	R&B, Bargarh
995	Pritas Kumar Sahu	1902030082	R&B, Sambalpur
996	Subhashish Panda	1902031095	R&B, SAIL, NALCO
997	Satyajit Behera	1902031120	R&B Angul
998	Umakanta Khuntia	1902030001	R&B Angul
999	Siddhant Das	1902030049	R&B Angul
1000	Nagen Chandra Sahu	2002030132	R&B Balasore
1001	R. Ajit Rao	1904030018	R&B Berhampur Division-II
1002	Nagen Chandra Sahu	2002030132	R&B Bhadrak
1003	Maheswari Monalika Jena	1902030086	R&B construction, Ghatagaon
1004	Johnson Swain	1902031117	R&B Department
1005	Soumyakanta Nayak	1902030068	R&B Department Odisha
1006	Dillip Kumar Dehury	1902030094	R&B Division
1007	Ankita Dash	2002030160	R&B Division
1008	Ankita Upasana Nanda	2004030007	R&B division
1009	Debi Prasad Mohanty	2002030134	R&B Division
1010	Lalasingh Jena	2002030012	R&B Division
1011	Shailesh Kumar Dash	2002030010	R&B Division
1012	J.S. Ananya	2002030057	R&B Division - 4
1013	Ankit Mishra	1902031102	R&B Division 1
1014	Kalyani Jena	1902031103	R&B Division 1, Sambalpur
1015	Rohit Gupta	1902030007	R&B Division 1, Sambalpur
1016	Nandita Priyadarshini Pradhan	1902030031	R&B Division 2
1017	Rahul Kumar Sharma	1902031114	R&B Division No- 2
1018	Biswajit Samal	2004030020	R&B division 1, works
1019	Arupananda Behera	2002031171	R&B division 1, workshop
1020	Yogasmita Pradhan	1902030054	R&B division 2 (road and building)
1021	Kshirabdhii Tanaya Hota	1902030130	R&B Division no.1
1022	Rahul Kumar Sharma	1902031114	R&B Division No.1 (Works Department)
1023	Priyanka Sundaray	1902031098	R&B division no.1 Sambalpur
1024	Abhilash Panigrahi	1902030072	R&B Division 2, Sambalpur
1025	Shohan Narayan Sahoo	1902030066	R&B Division office, Bolangir
1026	Nandita Priyadarshini Pradhan	1902030031	R&B Division Puri
1027	Arpita Mallik	2004030016	R&B division (roads & building division)
1028	Ananya Das	2002030064	R&B Division-1, Kendrapara
1029	Johnson Swain	1902031117	R&B Ganjam, Division no 1
1030	Abhilash Panigrahi	1902030072	R&B Office, Division-1, Sambalpur
1031	Abhijeet Mohankuda	1904030006	R&B Office, Division-1, Sambalpur
1032	N Divyashree	1902030028	R&B Sambalpur division no.2
1033	Siddhant Das	1902030049	R&B Sambalpur
1034	Anwesh Sahu	2002030093	R&B Suraya Nagar
1035	Roshan Kumar Jha	2002030145	R&B (Roads and building) division-1, Sambalpur, 768001
1036	Abhilash Kumar Parhi	1902030002	R&B (Roads and Buildings Department)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1037	Punya Pranab Mishra	1902030075	R&B (Roads and Buildings) Division 1
1038	Anshuman Mahana	1902031101	R&B (Roads and buildings) Office Division-1, Sambalpur
1039	Prayag Raj Singh	1902030016	R&B (Road and Building construction)
1040	Truptirekha Behera	2002030036	R&B (Road and building division no.1)
1041	Gloria Pitkamal Mohanta	2002031106	R&B (road and building)
1042	Sonali Rohini Pany	2004030002	R&B (Road and Building) Division
1043	Subrat Naik	1902030090	R&B (Road and Building), Cuttack Division
1044	Akash Panigrahi	1902030018	R&B (Road buildings and bridges)
1045	Sushree Sangita Moharana	1902030004	R&B (Roads & Buildings)
1046	Pranit Kumar Rath	1902031104	R&B (Roads & Buildings)
1047	Janhabi Mohanta	2002030055	R&B (Roads and Building)
1048	Ananya Das	2002030064	R&B (Roads and building) Division-1, Sambalpur
1049	Rohit Rath	1902030079	R&B (Roads and Building), Division 1
1050	Sheetal Swain	2002031114	R&B (Roads and building), division-1, Ganjam
1051	Suraj Gouda	1902031109	R&B (Roads and building) Division-1
1052	Abhilash Kumar Parhi	1902030002	R&B (Roads and Buildings Department)
1053	Punya Pranab Mishra	1902030075	R&B (Roads and Buildings)
1054	Akankshya Sharma	2002030059	R&B (roads and buildings)
1055	Abhisekh Mahapatro	2002030157	R&B (Roads and Buildings), Division 1, Ganjam
1056	Abhisekh Mahapatro	200230157	R&B (Roads and Buildings), Division 1, Sambalpur
1057	Shohan Narayan Sahoo	1902030066	R&B, Division 1, Sambalpur
1058	Rohit Gupta	1902030007	R&B, Division 2, Sambalpur
1059	Rohit Gupta	1902030007	R&B, Division 1, Sambalpur
1060	Abhijeet Mohankuda	1904030006	R&B, Division 2, Berhampur
1061	Abhijeet Mohankuda	1904030006	R&B, Rayagada
1062	Abhilash Panigrahi	1902030072	R&B, Sambalpur
1063	Simadri Somesh	2002030001	R&B, Koraput
1064	Debasish Paikaray	1902030050	Road & Building
1065	Aliva Sahu	2002030038	Road & Building (R&B)
1066	Aishwarya Behera	2002030054	Road and Building
1067	Satyabrata Bhoi	2002030082	Road and Building (R & B)
1068	Abhisek naik	2002030084	Road and building (R and B)
1069	Nagen Chandra Sahu	2002030132	Road and building construction
1070	Rudra Prasanna Samal	2003030008	Road and Building Department, Sambalpur
1071	Abanikanta Sahoo	2103030004	Road of Dhenkanal (R&B) Division
1072	Ananya Das	2002030064	Roads & Building Division
1073	Snehansu Sekhar Naik	2002030088	Roads and building (R and B)
1074	Soham Ghosh	2002030135	Roads and Building Construction
1075	Suraj Kumar Achary	1902030074	Roads and buildings
1076	Akankshya Das	1902031119	Roads and buildings
1077	Noorjahan Khanam	2002030009	Roads and buildings
1078	Shasank Agrawal	2002030003	Roads and buildings (R&B)
1079	Priyanka Priyadarsini Sahu	2002030073	Roads and buildings (R&B)
1080	Shubham Panigrahi	2002030131	Roads and Buildings (R&B)
1081	Ritish Pradhan	2002031169	Roads and construction
1082	Honey Kumar Sahoo	2003031011	Rourkela steel plant
1083	Nagen Chandra Sahu	2002030132	Rourkela Steel Plant
1084	Noorjahan Khanam	2002030009	Rourkela steel plant
1085	Anwesh Sahu	2002030093	Rourkela steel plant (RSP), SAIL
1086	Subham Kumar Rout	2102030059	Rourkela Steel Plant (RSP, SAIL)
1087	Rachana Pradhan	1904030017	Rourkela steel plant/ Jindal steel plant/Bokaro steel plant/ Bhilai Steel plant/OCL/R&B/Vedanta/Vedanta/CPWD/HAL/Nalco/Nalco
1088	Shasank Agrawal	2002030003	RS consultant

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1089	Pritam Das	1902030041	RSP
1090	Pratyasha Naik	2002030089	RSP
1091	Ankita Upasana Nanda	2004030007	RSP (Rourkela Steel Plant)
1092	Padmini Maharana	1902030013	RSP SAIL (Steel Authority of India Limited), Rourkela
1093	Sonali Rohini Pany	2004030002	RSP (Rourkela Steel Plant)
1094	Sourav Ghose	2002030130	RVNL (Rail Vikas Nigam Limited)
1095	Sourav Ghose	2002030130	RWD (Rural Development Department)
1096	Ankit Mishra	1902031102	SAIL
1097	Kadambini Behera	1904030007	SAIL
1098	S Aditya	2002030141	SAIL
1099	Khetramani Meher	1902030083	SAIL
1100	Suvendu Sekhar Mohanty	1902030091	SAIL
1101	Ritik Kumar Mandal	1904030009	SAIL
1102	Sahil Kumar Sahoo	1902030087	Sail
1103	Tapan Kumar Sahoo	1902030080	Sail
1104	Subhadeep Sahu	2002030042	SAIL
1105	Pooja Behera	2002030076	SAIL
1106	Anindita Toppo	2002030090	SAIL
1107	Nihar Rout	1902030006	SAIL
1108	Mitrabhanu Das	2102031117	SAIL
1109	Ashutosh Rana	2102030077	SAIL
1110	Sarthak Subhadarshan	2002030044	SAIL
1111	Satyajit Ray	2002031168	SAIL
1112	Soumyakanta Nayak	1902030068	SAIL
1113	Priya Jyoti Saw	1902030131	SAIL
1114	Malay Kumar Roul	1902030019	SAIL
1115	Shubham Sagar Sahu	2002030021	SAIL
1116	Subham Dash	2002031176	SAIL
1117	Soumya Ranjan Parida	20020311178	SAIL
1118	Anoushka Nayak	2002030162	SAIL
1119	Ritish Pradhan	2002031169	SAIL
1120	Ashutosh Mishra	2002030011	SAIL
1121	Pritas Kumar Sahu	1902030082	SAIL
1122	Arupananda Behera	2002031171	SAIL
1123	Suraj Kumar Achary	1902030074	Sail
1124	Samiksha Jain	1904030010	SAIL
1125	Subhransu Maharana	2002030146	SAIL
1126	Kriti Shekhar Samantaray	2002030158	SAIL
1127	Sarthak Subhadarshan	2002030044	SAIL
1128	Abu Usman	2002031177	SAIL
1129	Girija Sankar Biswal	2002030152	SAIL
1130	Alok Apat	2103030007	SAIL
1131	Prabhat Kumar Mahapatra	2002030159	SAIL
1132	Anjali Sahu	2103030010	Sail
1133	Gourab Chandra Sahoo	2004030019	SAIL
1134	Ashirbad Dash	2004030023	SAIL
1135	Priyanka Priyadarsini Sahu	2002030073	SAIL
1136	Roshnee Patra	2002031175	SAIL
1137	Pratyasha Naik	2002030089	SAIL
1138	Gokul Gobind Bag	2002030153	SAIL
1139	Soham Ghosh	2002030135	SAIL
1140	Abhilas Nanda	2002030008	SAIL
1141	Omm Prakash Moharana	1902030044	SAIL

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1142	Biswajit Samal	2004030020	SAIL
1143	Satyam Mishra	2002030142	SAIL
1144	Aditya Prasad Sahoo	2002030050	SAIL
1145	Saswati Das Choudhury	2002030149	SAIL
1146	Subhransu Sekhar Jena	2004030014	SAIL
1147	Bedaprakash padhan	2004030009	SAIL
1148	Subrat Kumar Sahu	2004030006	SAIL
1149	Simadri Somesh	2002030001	SAIL
1150	Abhinab Panigrahi	2002030047	SAIL
1151	Suman Kumar Kallo	2004030017	SAIL
1152	Seemarani Bhoi	1902031121	SAIL
1153	Pooja Behera	2002030076	SAIL
1154	J. S. Ananya	2002030057	SAIL
1155	Bedaprakash Padhan	2004030009	SAIL
1156	Siddhant Das	1902030049	SAIL
1157	Sriyat Sekhar Behera	1902030036	SAIL
1158	Sarthak Mishra	2002031111	SAIL
1159	Kanha Jain	1902030027	SAIL
1160	Ankit Patel	1902030029	SAIL
1161	Kintala Himesh Kumar	1902030058	SAIL
1162	Kalyani Jena	1902031103	SAIL
1163	Priyanka Sundaray	1902031098	SAIL
1164	Kshirabdhii Tanaya Hota	1902030130	SAIL
1165	Niharika Marndi	1702030045	SAIL
1166	Akanksha Jena	1902031124	SAIL
1167	Akankshya Das	1902031119	SAIL
1168	Elina Ankita Surin	1902030078	SAIL
1169	Subhalaxmi Sonali Murmu	1902030076	SAIL
1170	Jitarani Patra	1902030093	SAIL
1171	Swetlina Mohanty	2002030085	SAIL
1172	Gargee Patel	2003031013	SAIL
1173	Shubham Panigrahi	2002030131	SAIL
1174	Hitik Ranjan Samal	1902030077	SAIL
1175	Chinmaya Kumar Lenka	1902031123	SAIL
1176	Subhranshu Dhal	1902030057	SAIL
1177	Suraj Biswakarma	2002031126	SAIL
1178	Debasish Kar	2002030165	SAIL
1179	Abhisek Naik	2002030084	Sail
1180	Subhrajeet Behera	2002030075	SAIL
1181	Srinibash Pati	2002030147	SAIL
1182	Ajesh Deheri	2002030017	SAIL
1183	Ankit Mishra	1902031102	SAIL
1184	Khetramani Meher	1902030083	SAIL
1185	Nandita Priyadarshini Pradhan	1902030031	SAIL
1186	Aliva Sahu	2002030038	SAIL
1187	Abhinab Panigrahi	2002030047	SAIL
1188	Asutosh Behera	1902031125	SAIL
1189	Shubham Sahoo	1902031108	SAIL (steel authority of India limited)
1190	Monali Sahoo	1902030033	SAIL (steel Authority of India Limited)
1191	Subhasish Sahoo	2002031115	SAIL (steel Authority of India Limited)
1192	Chinmay Kumar Das	2002030049	SAIL (RSP)
1193	Manoj Kumar Jena	2002030143	SAIL (Steel Authority India Limited)
1194	Shruti Sahoo	2004030003	SAIL (steel authority of India limited)

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1195	Priyanka Pradhan	1902030005	SAIL (Steel Authority of India Limited)
1196	Sarbodaya Swain	2002030015	SAIL (steel Authority of India Limited)
1197	Ankita Upasana Nanda	2004030007	SAIL (Steel Authority of India Limited)
1198	Debarani Majhi	1702030023	SAIL (steel Authority of India Limited)
1199	Sushree Sangita Moharana	1902030004	SAIL (Steel Authority of India)
1200	S Aditya	2002030141	SAIL, HAL, HINDALCO, Hirakud captive power plant
1201	Ashirbad Dash	2004030023	SAIL, PWD, CPWD, NHAI, RD
1202	Satish Kumar Sahu	1902030053	SAIL HAL
1203	Rajat mandal	1904030016	SAIL ROURKELA
1204	Allein Guria	1902030020	SAIL, Jindal steel power, Bhilai Steel Plant, OCL, Bokaro steel plant, R&B Bhubaneswar, Vedanta, Vedanta, CPWD, HAL, Nalco,
1205	Subrat Kumar Pradhan	2002030167	SAIL (Steel Authority of India limited)
1206	Shasank Agrawal	2002030003	SAIL (steel Authority of India Limited)
1207	Nikhil Krishna Balhava	1902030021	SAIL (steel Authority of India limited)
1208	Debabrata Meher	2002031104	SAIL (Steel Authority of India Limited)
1209	N Divyashree	1902030028	SAIL (steel Authority of India Limited)
1210	Abhilash Panigrahi	1902030072	SAIL (Steel Authority of India Limited)
1211	Anwesh Sahu	2002030093	SAIL (steel Authority of India Limited)
1212	Anshuman Mahana	1902031101	SAIL (Steel Authority of India Limited)
1213	Rahul Patel	2002030002	SAIL (Steel Authority of India Limited)
1214	Jignyasa Das	1902030034	SAIL (Steel Authority of India limited)
1215	Abhilash Kumar Parhi	1902030002	SAIL (Steel Authority of India Limited)
1216	Krutikrushna sahu	1902030084	SAIL (steel Authority of India Limited)
1217	Shubhajit Lenka	1902030071	SAIL (Steel Authority of India Limited)
1218	Bijayani Biswal	2002031100	SAIL (Steel Authority of India Limited)
1219	Truptirekha Behera	2002030036	SAIL (Steel Authority of India Limited)
1220	Pritishree Murmu	2002030079	SAIL (Steel authority of India limited)
1221	Sambit Kumar Majhi	2002030153	SAIL (Steel Authority of India Limited)
1222	Sonali Rohini Pany	2004030002	SAIL (Steel Authority of India Limited)
1223	Jyotiprakash Sahoo	1902030026	SAIL (Steel Authority of India Limited)
1224	Prayag Raj Singh	1902030016	SAIL (Steel Authority of India Limited)
1225	Om Parmar	2002030161	SAIL (Steel Authority of India Limited)
1226	Swarup Sagar Sethy	2002030151	SAIL (steel Authority of India Limited)
1227	Akash Panigrahi	1902030018	SAIL (Steel Authority of India Limited)
1228	Abhilash Panigrahi	1902030072	SAIL (steel Authority of India Limited),
1229	Prachi Pragalbha Sahu	2004030024	SAIL (Steel Authority of India)
1230	Sarthak Ranjan Sahu	1902030014	SAIL (Steel Authority of India)
1231	Gloria Pitkamal Mohanta	2002031106	SAIL (steel authorities Ltd)
1232	Kajal Sahoo	2004030010	SAIL (steel authority India limited)
1233	Dibyaswarup Raychoudhury	2002030164	SAIL, CPWD, L&T
1234	Khushi Agrawal	2002110065	SAIL, CPWD, L&T
1235	Diptimayee Panda	2103031011	SAIL, CPWD, NALCO
1236	Anjali Sahu	2103030010	SAIL, CPWD, NALCO
1237	Arpita Das	2004030022	SAIL, DRDO, NALCO, CPWD, MCL, HINDALCO, Water Resources
1238	Sai Archit Das	2002031113	SAIL, NTPC, HAL, DRDO, L & T, HCC, CPWD
1239	Sarita Kisku	1902030011	SAIL, HAL, Railway, ONGC, COAL India, NALCO, Indian Oil
1240	Aliva Sahu	2002030038	Salania Irrigation Division
1241	Abhisek Naik	2002030084	Salania irrigation sub division salania Po. Salania Dist keonjhar
1242	Satyajit Behera	1902031120	Samal Barrage
1243	Lipsita Mohanta	1902031096	Sambalpur (R&B) Division
1244	N Divyashree	1902030028	Sambalpur R&B Division
1245	Shubham Panigrahi	2002030131	SEC Railway
1246	Rohit Rath	1902030079	Secha Sadan, Water Resources

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1247	Biswajit Samal	2004030020	Siemens Limited
1248	Sourav Ghose	2002030130	SMC (SM Consultants)
1249	Saswati Das Choudhury	2002030149	SNC Lavalin
1250	Chandan Kumar Sahu	2102031116	Software industry
1251	Biswajit Samal	2004030020	South Eastern Railway
1252	Suprava Dash	1902030129	SPD Construction Limited
1253	Prabhupad Panda	1902030048	SPD Construction Limited
1254	Mrigna Mahanta	1902030070	SPD construction limited
1255	Raseswari Singh	19020367	SPD Constructions Limited
1256	Manoj Kumar Amat	2002030086	Steel Authority of India Limited
1257	Pratik Nandan Choudhary	1902030023	Steel Authority of India Limited
1258	Gaurav Sharma	1902030012	Steel Authority of India Limited
1259	Nandini Behera	1902031100	Steel Authority of India Limited
1260	Debasish Paikaray	1902030050	Steel Authority of India Limited
1261	Sanu Sagarika Dandapat	2003030004	Steel Authority of India Limited
1262	Shailesh Kumar Dash	2002030010	Steel Authority of India Limited (Rourkela Steel Plant)
1263	Dillip Kumar Dehury	1902030094	Steel Authority of India Limited (SAIL)
1264	Debasish Patra	1902030037	Subarnarekha Irrigation Project
1265	Anirmesh Giri	2103030003	Superintendent of R&B
1266	Abanikanta saho	2103030004	Superintendent of R&B
1267	Kshitish Parida	2103030008	Superintendent of R&B
1268	Swastik Sahu	2002030052	TATA
1269	Jitarani Patra	1902030093	Tata Project
1270	Raseswari Singh	1902030067	TATA Project Limited
1271	Abanikanta Sahoo	2103030004	TATA Project LTD. Pokharashale
1272	Saswati Das Choudhury	2002030149	Tata project Ltd.
1273	Prithviraj Singhababu	2102030067	Tata projects limited
1274	Suprava Dash	1902030129	TATA PROJECTS Limited
1275	Anwesh Sahu	2002030093	TATA PROJECTS LIMITED
1276	Mrigna Mahanta	1902030070	Tata Projects Limited
1277	Kadambini Behera	1904030007	TATA STEEL
1278	Saswati Das Choudhury	2002030149	TATA steel
1279	Bedaprakash Padhan	2004030009	TATA steel
1280	Sarthak Subhadarshan	2002030044	TATA STEEL BSL
1281	Shailesh Kumar Dash	2002030010	Tata Steel BSL
1282	Lalasingh Jena	2002030012	TATA STEEL BSL
1283	Sunil Kumar Behera	2002030074	TATA STEEL BSL
1284	Sarthak Subhadarshan	2002030044	TATA STEEL BSL
1285	Sambhunath Biswal	2002030091	Tata Steel, Angul
1286	Soham Ghosh	2002030135	TCS
1287	Subhadeep Sahu	2002030042	The Associate professor
1288	Truptirekha Behera	2002030036	TISCO (Tata iron and steel company limited)
1289	Soham Ghosh	2002030135	TRL Krosaki
1290	Anwesh Sahu	2002030093	Vedant
1291	Biswajit Samal	2004030020	Vedanta
1292	Soham Ghosh	2002030135	Vedanta
1293	Kintala Himesh Kumar	1902030058	Vedanta
1294	Omm Prakash Moharana	1902030044	Vedanta
1295	Debasish Kar	2002030165	Vedanta
1296	Seemarani Bhoi	1902031121	Vedanta
1297	Suraj Kumar Achary	1902030074	Vedanta
1298	Aliva Sahu	2002030038	Vedanta
1299	Swarup Sagar Sethy	2002030151	VEDANTA

SI No.	Name	Regd. No.	Name of the Industry/Organization where you Wish to take your Training/Internship
1300	Padmini Maharana	1902030013	Vedanta Aluminum
1301	Suraj Biswakarma	2002031126	Vedanta Aluminum
1302	Subhrajeet Behera	2002030075	Vedanta Aluminum
1303	Pallishree Parimita Mishra	1904030013	Vedanta limited
1304	Rahul Patel	2002030002	Vedanta Limited
1305	Ajesh Deheri	2002030017	Vedanta Limited
1306	Rahul Patel	2002030002	Veer Surendra Sai Airport
1307	Debasish Paikaray	190203050	VSSUT
1308	Priya Jyoti Saw	1902030131	VSSUT
1309	Malay Kumar Roul	1902030019	VSSUT
1310	Subhadeep Sahu	2002030042	VSSUT
1311	Arupananda Behera	2002031171	VSSUT
1312	Anoushka Nayak	2002030162	Water resources
1313	Subham Dash	2002031176	Water Resources
1314	Soumya Ranjan Parida	2002031178	Water Resources
1315	Roshnee Patra	2002031175	Water Resources
1316	Gloria Pitkamal Mohanta	2002031106	Water resources
1317	Sonali Rohini Pany	2004030002	Water Resources
1318	Satyam Mishra	2002030142	Water resources
1319	Auro Prasad Swain	1902030061	Water resources department
1320	Sabyasachi Tripathy	1802030051	Water resources department
1321	Jyotiprakash Sahoo	1902030026	water resources department
1322	Srutakirti Sahoo	1902030040	Water Treatment Plant
1323	Biswajeet Das	1902030042	Water Treatment Plant
1324	Pooja Sethi	1902030045	Water Treatment Plant
1325	Gayatri Bhandari	1902030035	Water Treatment Plant
1326	Krishna Behera	1902030038	Water Treatment Plant
1327	Sanjay Raj Nayak	1902030039	Water Treatment Plant
1328	Arupananda Behera	2002031171	Work Department
1329	Dibyasingha Sahoo	2103030005	Works department govt. of Odisha
1330	Pratyasha Naik	2002030089	WRD
1331	Nikhil Krishna Balhava	1902030021	WRD (Water Resources Department)
1332	Abhilash Kumar Parhi	1902030002	WRD (Water Resources Department)
1333	Maheswari Monalika Jena	1902030086	WRE

Assessment	10
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2.2.5. Initiatives towards the New Education Policy (5)

- VSSUT has made significant progress in implementing various provisions of the NEP, with a focus on flexibility in curriculum, multidisciplinary, research and innovation, college autonomy, and teacher training.
- The University has also encouraged its departments to collaborate with each other and to conduct interdisciplinary research. This focus on multidisciplinary and interdisciplinary research is in line with the NEP's emphasis on holistic and integrated education. It is also aligned with the growing demand for multidisciplinary skills in the workplace.
- It has also established new research centers and institutes, such as the Center for Excellence, Center for Innovation and Incubation and the Institute of Interdisciplinary Studies.
- The institution has further launched several new programs to train and develop its faculty. It has provided research grants as incentives and encouragement that stimulated both existing and new faculty members to engage in meaningful research activities, leading to contributions that serve a

broader societal purpose. Further, it has introduced new regulations that require faculty to have relevant qualifications and experience. These initiatives have helped to improve the quality of teaching at VSSUT. They have also made VSSUT more competitive in the global market for academic talent. For example, VSSUT's new Faculty Development Program provides training to faculty on new teaching methods and technologies. This has helped faculty to improve their teaching skills and to deliver a more engaging and effective learning experience to their students.

- Two workshops were conducted to implement NEP in the institute as well as for the B.Tech. programme. First workshop was on "Implementation of new course structure of B.Tech Programme as per NEP for the Academic Year 2023-24" held on 12-08-2023, where experts from renown organization discussed the details of NEP and based on which syllabus for B.Tech. first year and course structure for other semesters were developed. The second one was on "Digital skilling as per NEP Syllabus structure" held on 30.11.2023, where it was discussed the possibility of inclusion of AI, IoT, Cloud, Data analysis and Design and Visualization skills in the B.Tech. syllabus from 3rd Semester onwards.
- New theory subject on "UNIVERSAL HUMAN VALUES (UHV)" has been introduced in the first year. Faculties were trained in the above subject through UHV FDPs (both OFFLINE & ONLINE) for incorporating Human Values in education.

Assessment	5
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CRITERION 3	Students' Performance	75
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Table B.3a

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2023-24	CAYm1 2022-23	CAYm2 2021-22
Sanctioned intake of the program(N)	156	156	126+18 = 144
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions, plus no. of students migrated to this program(N1)		143-10 =133	123+17-4 = 136
Number of students admitted in 2nd year in the same batch via lateral entry(N2)		11	13
Separate division students, if applicable (N3)			
Total number of students admitted in the Program (N1+N2+N3)		144	149

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG – Last Year Graduate

LYGm1 – Last Year Graduate minus 1

LYGm2 – Last Year Graduate minus 2

Table B.3b

Year of entry	N1 + N2+N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY (2023-24)					
CAYm1(2022-23)	144	82			
CAYm2(2021-22)	149	114	99		
CAYm3(2020-21)	137+13+1-5=146	122	114	107	
CAYm4(LYG) (2019-20)	122+17+13-2=150	128	143	136	126
CAYm5(LYGm1) (2018-19)	119+17+25+3-6=158	125	125	127	125
CAYm6(LYGm2) (2017-18)	113+15+37-4+1=162	120	135	130	132

Table B.3c

Year of entry	N1 + N2+N3 (As defined above)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog +without Backlog]			
		I Year	II Year	III Year	IV Year
CAY2023-24					
CAYm12022-23	144	142			
CAYm2021-22	149	139	136		
CAYm32020-21	146	132	148	130	
CAYm4(LYG)2019-20	150	131	145	151	138
CAYm5(LYGm1)2018-19	158	131	131	130	131
CAYm6(LYGm2)2017-18	162	122	139	133	134

3.1. Enrolment Ratio (15)

Enrolment Ratio= N1/N

Table B.3.1

Year of entry	Enrolment Ratio=N1/N	Mark
CAYm1 (2022-23)	133/156=0.85	12
CAYm2 (2021-22)	136/144=0.94	15
CAYm3 (2020-21)	133/144=0.92	15
Average		14

Assessment	14
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3.2. Success Rate in the stipulated period of the program (15)

3.2.1. Success rate without backlogs in any semester/year of study (10)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches

Success rate without backlogs in any semester/year of study = 10 × Average SI

Table B.3.2.1

Item	Last Year of Graduate, LYG	Last Year of Graduate minus 1, LYGm1	Last Year of Graduate minus 2, LYGm2
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate	152	161	165

division, if applicable			
Number of students who have graduated without backlogs in the stipulated period	126	125	132
Success Index (SI)	0.828	0.776	0.8
Average Success Index	0.801		

Success rate without backlogs in any semester/year of study = $10 \times 0.801 = 8.01$

Assessment	8.01
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3.2.2. Success rate in stipulated period of study [Total of with backlog + without backlog] (5)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches

Success rate = $5 \times$ Average SI

Table B.3.2.2

Item	Last Year of Graduate, LYG (CAYm4)	Last Year of Graduate minus 1, LYGm1 (CAYm5)	Last Year of Graduate minus 2, LYGm2 (CAYm6)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	152	161	165
Number of students who have graduated in the stipulated period	138	131	134
Success Index (SI)	0.907	0.813	0.812
Average Success Index	0.844		

Success rate = $5 \times$ Average SI= $5 \times 0.844 = 4.22$

Assessment	4.22
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Note: *If 100% students clear without any backlog then also total marks scored will be 15 as both 3.2.1 & 3.2.2 will be applicable simultaneously*

3.3. Academic Performance in Second Year (5)

Academic Performance = $0.5 \times$ Average API (Academic Performance Index), where

API = *((Mean of 2nd Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) \times (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the Third year.

Table B.3.3

Academic Performance	CAYm1 2022-23	CAYm2 2021-22	CAYm3 2020-21
Mean of CGPA or Mean Percentage of all successful students(X)	7.65	7.23	6.97
Total no. of successful students(Y)	143	125	135
Total no. of students appeared in the examination(Z)	145	131	139

$API = X * (Y/Z)$	7.54	6.89	6.76
Average API = $(AP1 + AP2 + AP3)/3$	7.06		

Academic Performance = 0.5 * Average API = 0.5*7.06 = 3.53

Assessment	3.53
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3.4. Academic Performance in Third Year (5)

Academic Performance = 0.5 * Average API (Academic Performance Index)

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year.

Table B.3.4

Academic Performance	CAYm1	CAYm2	CAYm3
Mean of CGPA or Mean Percentage of all successful students (X)	7.48	7.42	7.23
Total no. of successful students (Y)	136	127	130
Total no. of students appeared in the examination (Z)	151	130	133
API = $x * (Y/Z)$	6.73	7.24	7.06
Average API = $(AP1 + AP2 + AP3)/3$	7.01		

Academic Performance = 0.5 * Average API = 0.5*7.01 = 3.51

Assessment	3.51
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3.5. Placement, Higher Studies, and Entrepreneurship (15)

Assessment Points = 15 x average placement

Table B.3.5

Item	2022-2023 CAYm1	2021-2022 CAYm2	2020-2021 CAYm3
Total No. of Final Year Students (N)	138	117	122
No. of students placed in companies or Government Sector(x)	65	52	31
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	9	0	0
No. of students turned entrepreneur in engineering/technology(z)	0	0	0
$x + y + z =$	74	52	31
Placement Index: $(x + y + z)/N$	0.54	0.44	0.25
Average placement = $(P1 + P2 + P3)/3$	0.41		
Assessment Points = 15 x average placement	6.15		

Assessment	6.15
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3.6. Professional Activities (20)

3.6.1. Professional societies/chapters and organizing engineering events (5)

(The Department shall provide relevant details)

Name of the Chapter/Event	Date	Details of the Activity	Name of the Chief Guest
Academic Year 2022-2023			
Sthapna 2023	7 th & 8 th April, 2023	Annual Technical Fest of Civil Engineering Society	Prof. Banshidhar Majhi; Mr. Pradeep Kumar Sahoo (OAS), SMC
BIM Awareness Workshop	27 th August, 2023	Workshop on BIM & Revit by BIMedge Pvt. Ltd., Bhubaneswar	Mr. Tushar Patnaik

Other Events:

- Teachers' Day
- Engineers' Day
- Study Tour to OHPC Burla and Hirakud Dam
- Workshop on Building information modeling

Assessment	5
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3.6.2. Publication of technical magazines, newsletters, etc. (5)

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

- Tiwary, K., Patro, S.K. and Sahoo, B., 2021, May. Bridge base: a knowledge graph framework for monitoring and analysis of bridges. In Canadian Society of Civil Engineering Annual Conference (pp. 409-420). Singapore: Springer Singapore.
- Tiwary, K., Patro, S.K., Gandomi, A.H. and Sahoo, K.S., 2022. Model updating using causal information: a case study in coupled slab. Structural and Multidisciplinary Optimization, 65(2), p.62.

Assessment	5
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3.6.3. Participation in inter-institute events by students of the program of study (5)

(The Department shall provide a table indicating those publications, which received awards in the events/conferences organized by other institutes)

Name of the Chapter/Event	Details of the Activity
Maker Fest	Maker Fest, an extension of the global Maker Fair brought innovators together. IIC hosted the 3rd edition in Odisha from 4th to 8th March, with booths showcasing invited makers' projects. The event concluded by announcing the best maker of this edition
Think Tank	Students were presented with problem statements and tasked to propose solutions utilizing the latest resources. This final event of the club was hosted with great enthusiasm and energy.

Trading Pro	E-Cell VSSUT hosted Trading Pro, an exciting technical event during the annual techno-cultural fest. Exceptional traders from diverse backgrounds wowed the audience. With around 10 groups in two phases, experienced and novice participants competed enthusiastically to secure the top position
Wanna Be Shark	E-Cell, VSSUT's event "Wannabe Shark" became a resounding success. Students showcased their best negotiation skills to secure the winning deal. This event demonstrated expertise in distinct fields. The participants' thrill and eagerness to win made it an impressive spectacle.
Hunt the Box	Team Aero Tech hosted the successful event "Hunt for the Box." VSSUT students showed overwhelming participation, decoding challenging clues, collaborating in teams, and completing tasks to reach the treasure. The active involvement, especially from the fresher's, created a memorable experience

Assessment	5
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3.6.4. Participation in national/international competitive events by students of the program of study (5)

(The Department shall provide relevant details)

ACADEMIC YEAR 2022-23

Saswati Das Choudhary, Batch 2024-

- Awarded Visweswaraya Prativa Puraskar 2023 by Evergreen Forum on Engineer's Day
- Participated in a five-day international workshop on 'Recent Trends in Mathematics and Computing' at VSSUT, Burla
- 3rd prize in Youth Gandhi Inter College Quiz Competition 2023 at BJB College
- Kalinga Quest Quiz 2024 Champion in senior category
- Participated in panel discussion on 'Role of Engineers in Restoring India's Glory' organized by Ever Green Forum
- Interned at Directorate of Designs, Office of the Engineer-in-Chief (Civil), Nirman Soudha, Bhubaneswar, Odisha in 2022
- Undergone two-month summer internship at Indian Institute of Technology, Kanpur under Students-Undergraduate Research Graduate Excellence (SURGE) Program 2023

Assessment	5
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CRITERION 4	Faculty Information and Contributions	100
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Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year.

Table B.4

For CAY 2023-2024

Name of the faculty member	Qualification			Designation	Date of Joining the Institution	Date on which Designated as Professor/ Associate Professor	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Highest Qualification	University	Year of attaining highest qualification					Number of research publications in journals and conferences	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Prof. A N Nayak	PhD	IIT KGP	2003	Prof	16.02.06	16.02.06	SE	01			Y	Regular
Prof. P C Swin	PhD	NIT W	2001	Prof	01.08.91	28.01.09	WRE				30.09.23	Regular
Prof. P K Pradhan	PhD	IIT KGP	2005	Prof	01.07.91	28.09.10	GTE				31.12.22	Regular
Prof. P K Das	PhD	IIT K	1998	Prof	10.07.02	08.03.11	WRE				28.02.22	Regular
Prof. S S Das	PhD	IIT KGP	2009	Prof	01.04.13	01.04.13	TE	02			Y	Regular
Prof. S K Patro	PhD	IIT B		Prof	17.06.15	17.06.15	SE	12			Y	Regular
Prof. R R Dash	PhD	IIT R	2011	Prof	07.12.12	16.05.18	ESE				Y	Regular
Dr. A K Nayak	PhD	Univ. of Southam pton, UK	2002	Asso. Prof	08.09.11	16.05.15	SE				27.07.21	Regular
Prof. R K Panigrahi	PhD	IIT D	2008	Prof	19.06.15	19.06.18	SE	03			Y	Regular
Prof. A K Kar	PhD	IIT R	2011	Prof	29.12.16	29.12.19	WRE				Y	Regular
Dr. D B Giri	PhD	IIT KGP	2010	Asso. Prof	26.06.15	26.06.15	GTE	02			Y	Regular
Dr. S K Panigrahi	PhD	IIT KGP	2016	Asso. Prof	24.07.06	05.10.16	SE	07			Y	Regular
Ms. S Rath	ME	SU	1999	Asst. Prof	01.07.91		TE				Y	Regular
Ms. J Munda	M Tech	NITW	2009	Asst. Prof	16.08.11		GTE	02			Y	Regular
Dr. L Sinha	M Tech	NITRKL	2010	Asst. Prof	20.12.12		SE				Y	Regular

Dr. P Nayak	PhD	IIT KGP	2018	Asst. Prof	03.04.13		SE				Y	Regular
Dr. R L Sahu	M Tech	NITRKL	2012	Asst. Prof	31.05.14		GTE	01			Y	Regular
Dr. L Mohanty	M Tech	NITRKL	2013	Asst. Prof	18.06.14		WRE	01		16.01.24	Y	Regular
Dr. B Nanda	PhD	IIT KGP	2014	Asst. Prof	18.06.14		SE	01			02.02.24	Regular
Ms. R R Sahoo	M Tech	NITRKL	2013	Asst. Prof	23.06.14		GTE				Y	Regular
Dr. J Meher	PhD	IIT K	2006	Asst. Prof	21.06.14		WRE				Y	Regular
Ms. J Ojha	M Tech	NITRKL	2013	Asst. Prof	18.06.15		TE				Y	Regular
Mr. A K Naik	M Tech	IIT KGP	2014	Asst. Prof	18.06.15		TE				Y	Regular
Dr. S Jena	PhD	VSSUT	2020	Asst. Prof	22.05.15		SE				Y	Regular
Dr. R K Dandpat	PhD	IIT KGP	2015	Asst. Prof	01.11.16		SE				Y	Regular
Mr. P K Pradhan	M Tech	IIT G	2014	Asst. Prof	17.11.16		TE				Y	Regular
Mr. A K Das	M Tech	IIT D	2014	Asst. Prof	10.12.16		SE				Y	Regular
Ms. K Swain	M Tech	NITRKL	2014	Asst. Prof	04.09.17		GTE				Y	Regular
Mr. S K Sial	M Tech	IIT KGP	2014	Asst. Prof	04.09.17		TE				Y	Regular
Ms. A Nayak	M Tech	VSSUT	2013	Asst. Prof	09.09.17		WRE				Y	Regular
Ms. K Bhoi	M Tech	VSSUT	2014	Asst. Prof	05.09.17		WRE				Y	Regular
Soumya R. Khuntia	M Tech	VSSUT	2023	Guest faculty	08.08.23		WRE				31.12.23	Contract
A. Bandopadhyaya	M Tech	VSSUT	2019	Guest faculty	08.08.23		GTE				31.12.23	Contract
Ambika P. Mishra	M Tech	VSSUT	2018	Guest faculty	08.08.23		GTE				31.12.23	Contract
Sudhabanti Sahoo	M Tech	NIT Rkl	2023	Guest faculty	08.08.23		WRE				31.12.23	Contract
Niharika Pattanyak	M Tech	VSSUT	2019	Guest faculty	08.08.23 11.01.23		TE				31.12.23 Y	Contract
Subrat Sahu	M Tech	VSSUT	2021	Guest faculty	08.08.23		GTE				31.12.23	Contract
Hemant K. Behera	M Tech	VSSUT	2019	Guest faculty	08.08.23 11.01.23		TE				31.12.23 Y	Contract
S. Subhadarahini	M Tech	VSSUT	2018	Guest faculty	18.09.23		GTE				31.12.23	Contract
Sahin Ahamed	M Tech	ALIA Univ, Kolkata	2016	Guest faculty	18.09.23 11.01.23		GTE				31.12.23 Y	Contract
Mousumee Rout	M Tech	VSSUT		Guest faculty	18.09.23		GTE				31.12.23	Contract
Ranjita Das	M Tech	BPUT		Guest faculty	18.09.23		SE				31.12.23	Contract
S. Pradhan	M Tech	VSSUT	2019	Guest faculty	18.09.23		WRE				31.12.23	Contract

For CAY 2022-2023

Name of the faculty member	Qualification			Designation	Date of Joining the Institution	Date on which Designated as Professor/ Associate Professor	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Highest Qualification	University	Year of attaining highest qualification					Number of research publications in journals and conferences	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Prof. A N Nayak	PhD	IIT KGP	2003	Prof	16.02.06	16.02.06	SE	03	01		Y	Regular
Prof. P C Swin	PhD	NIT W	2001	Prof	01.08.91	28.01.09	WRE				30.09.23	Regular
Prof. P K Pradhan	PhD	IIT KGP	2005	Prof	01.07.91	28.09.10	GTE				31.12.22	Regular
Prof. P K Das	PhD	IIT K	1998	Prof	10.07.02	08.03.11	WRE				28.02.22	Regular

Prof. S S Das	PhD	IIT KGP	2009	Prof	01.04.13	01.04.13	TE				Y	Regular
Prof. S K Patro	PhD	IIT B		Prof	17.06.15	17.06.15	SE	09	01		Y	Regular
Prof. R R Dash	PhD	IIT R	2011	Prof	07.12.12	16.05.18	ESE	03	02		Y	Regular
Dr. A K Nayak	PhD	Univ. of Southam pton, UK	2002	Asso. Prof	08.09.11	16.05.15	SE				27.07.21	Regular
Prof. R K Panigrahi	PhD	IIT D	2008	Prof	19.06.15	19.06.18	SE				Y	Regular
Prof. A K Kar	PhD	IIT R	2011	Prof	29.12.16	29.12.19	WRE				Y	Regular
Dr. D B Giri	PhD	IIT KGP	2010	Asso. Prof	26.06.15	26.06.15	GTE	01			Y	Regular
Dr. S K Panigrahi	PhD	IIT KGP	2016	Asso. Prof	24.07.06	05.10.16	SE	02	01		Y	Regular
Ms. S Rath	ME	SU	1999	Asst. Prof	01.07.91		TE				Y	Regular
Ms. J Munda	M Tech	NITW	2009	Asst. Prof	16.08.11		GTE				Y	Regular
Dr. L Sinha	M Tech	NITRKL	2010	Asst. Prof	20.12.12		SE			28.07.22	Y	Regular
Dr. P Nayak	PhD	IIT KGP	2018	Asst. Prof	03.04.13		SE				Y	Regular
Dr. R L Sahu	M Tech	NITRKL	2012	Asst. Prof	31.05.14		GTE	02		30.07.22	Y	Regular
Dr. L Mohanty	M Tech	NITRKL	2013	Asst. Prof	18.06.14		WRE	01			Y	Regular
Dr. B Nanda	PhD	IIT KGP	2014	Asst. Prof	18.06.14		SE	01	01		02.02.24	Regular
Ms. R R Sahoo	M Tech	NITRKL	2013	Asst. Prof	23.06.14		GTE				Y	Regular
Dr. J Meher	PhD	IIT K	2006	Asst. Prof	21.06.14		WRE				Y	Regular
Ms. J Ojha	M Tech	NITRKL	2013	Asst. Prof	18.06.15		TE				Y	Regular
Mr. A K Naik	M Tech	IIT KGP	2014	Asst. Prof	18.06.15		TE				Y	Regular
Dr. S Jena	PhD	VSSUT	2020	Asst. Prof	22.05.15		SE	02			Y	Regular
Dr. R K Dandpat	PhD	IIT KGP	2015	Asst. Prof	01.11.16		SE				Y	Regular
Mr. P K Pradhan	M Tech	IIT G	2014	Asst. Prof	17.11.16		TE				Y	Regular
Mr. A K Das	M Tech	IIT D	2014	Asst. Prof	10.12.16		SE				Y	Regular
Ms. K Swain	M Tech	NITRKL	2014	Asst. Prof	04.09.17		GTE				Y	Regular
Mr. S K Sial	M Tech	IIT KGP	2014	Asst. Prof	04.09.17		TE				Y	Regular
Ms. A Nayak	M Tech	VSSUT	2013	Asst. Prof	09.09.17		WRE				Y	Regular
Ms.K Bhoi	M Tech	VSSUT	2014	Asst. Prof	05.09.17		WRE				Y	Regular
Dr. N S Mishra	PhD	IIT DHA	2023	Guest faculty			ESE					Contract
Ms. Akanksha	M Tech	VSSUT	2017	Guestfaculty			ESE					Contract

For CAY 2021-2022

Name of the faculty member	Qualification			Designation	Date of Joining the Institution	Date on which Designated as Professor/ Associate Professor	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
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Prof. P K Pradhan	PhD	IIT KGP	2005	Prof	01.07.91	28.09.10	GTE				31.12.22	Regular
Prof. P K Das	PhD	IIT K	1998	Prof	10.07.02	08.03.11	WRE				28.02.22	Regular
Prof. S S Das	PhD	IIT KGP	2009	Prof	01.04.13	01.04.13	TE	01			Y	Regular

Prof. S K Patro	PhD	IIT B		Prof	17.06.15	17.06.15	SE	04			Y	Regular
Prof. R R Dash	PhD	IIT R	2011	Prof	07.12.12	16.05.18	ESE				Y	Regular
Dr. A K Nayak	PhD	Univ. of Southam pton, UK	2002	Asso. Prof	08.09.11	16.05.15	SE				27.07.21	Regular
Prof. R K Panigrahi	PhD	IIT D	2008	Prof	19.06.15	19.06.18	SE				Y	Regular
Prof. A K Kar	PhD	IIT R	2011	Prof	29.12.16	29.12.19	WRE				Y	Regular
Dr. D B Giri	PhD	IIT KGP	2010	Asso. Prof	26.06.15	26.06.15	GTE				Y	Regular
Dr. S K Panigrahi	PhD	IIT KGP	2016	Asso. Prof	24.07.06	05.10.16	SE				Y	Regular
Ms. S Rath	ME	SU	1999	Asst. Prof	01.07.91		TE				Y	Regular
Ms. J Munda	M Tech	NITW	2009	Asst. Prof	16.08.11		GTE				Y	Regular
Dr. L Sinha	M Tech	NITRKL	2010	Asst. Prof	20.12.12		SE				Y	Regular
Dr. P Nayak	PhD	IIT KGP	2018	Asst. Prof	03.04.13		SE				Y	Regular
Dr. R L Sahu	M Tech	NITRKL	2012	Asst. Prof	31.05.14		GTE				Y	Regular
Dr. L Mohanty	M Tech	NITRKL	2013	Asst. Prof	18.06.14		WRE				Y	Regular
Dr. B Nanda	PhD	IIT KGP	2014	Asst. Prof	18.06.14		SE	02			02.02.24	Regular
Ms. R R Sahoo	M Tech	NITRKL	2013	Asst. Prof	23.06.14		GTE				Y	Regular
Dr. J Meher	PhD	IIT K	2006	Asst. Prof	21.06.14		WRE	01			Y	Regular
Ms. J Ojha	M Tech	NITRKL	2013	Asst. Prof	18.06.15		TE				Y	Regular
Mr. A K Naik	M Tech	IIT KGP	2014	Asst. Prof	18.06.15		TE				Y	Regular
Dr. S Jena	PhD	VSSUT	2020	Asst. Prof	22.05.15		SE	02			Y	Regular
Dr. R K Dandpat	PhD	IIT KGP	2015	Asst. Prof	01.11.16		SE				Y	Regular
Mr. P K Pradhan	M Tech	IIT G	2014	Asst. Prof	17.11.16		TE				Y	Regular
Mr. A K Das	M Tech	IIT D	2014	Asst. Prof	10.12.16		SE				Y	Regular
Ms. K Swain	M Tech	NITRKL	2014	Asst. Prof	04.09.17		GTE				Y	Regular
Mr. S K Sial	M Tech	IIT KGP	2014	Asst. Prof	04.09.17		TE				Y	Regular
Ms. A Nayak	M Tech	VSSUT	2013	Asst. Prof	09.09.17		WRE				Y	Regular
Ms.K Bhoi	M Tech	VSSUT	2014	Asst. Prof	05.09.17		WRE				Y	Regular

For CAY 2020-2021

Name of the faculty member	Qualification			Designation	Date of Joining the Institution	Date on which Designated as Professor/ Associate Professor	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Highest Qualification	University	Year of attaining highest qualification					Number of research publications in journals and conferences	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Prof. A N Nayak	PhD	IIT KGP	2003	Prof	16.02.06	16.02.06	SE	05	02		Y	Regular
Prof. P C Swin	PhD	NIT W	2001	Prof	01.08.91	28.01.09	WRE	01	01		30.09.23	Regular
Prof. P K Pradhan	PhD	IIT KGP	2005	Prof	01.07.91	28.09.10	GTE				31.12.22	Regular
Prof. P K Das	PhD	IIT K	1998	Prof	10.07.02	08.03.11	WRE				28.02.22	Regular
Prof. S S Das	PhD	IIT KGP	2009	Prof	01.04.13	01.04.13	TE	02			Y	Regular
Prof. S K Patro	PhD	IIT B		Prof	17.06.15	17.06.15	SE	01			Y	Regular
Prof. R R Dash	PhD	IIT R	2011	Prof	07.12.12	16.05.18	ESE				Y	Regular
Dr. A K Nayak	PhD	Univ. of	2002	Asso. Prof	08.09.11	16.05.15	SE				27.07.21	Regular

		Southampton, UK										
Prof. R K Panigrahi	PhD	IIT D	2008	Prof	19.06.15	19.06.18	SE		01		Y	Regular
Prof. A K Kar	PhD	IIT R	2011	Prof	29.12.16	29.12.19	WRE				Y	Regular
Dr. D B Giri	PhD	IIT KGP	2010	Asso. Prof	26.06.15	26.06.15	GTE				Y	Regular
Dr. S K Panigrahi	PhD	IIT KGP	2016	Asso. Prof	24.07.06	05.10.16	SE				Y	Regular
Ms. S Rath	ME	SU	1999	Asst. Prof	01.07.91		TE	01			Y	Regular
Ms. J Munda	M Tech	NITW	2009	Asst. Prof	16.08.11		GTE				Y	Regular
Dr. L Sinha	M Tech	NITRKL	2010	Asst. Prof	20.12.12		SE	04			Y	Regular
Dr. P Nayak	PhD	IIT KGP	2018	Asst. Prof	03.04.13		SE				Y	Regular
Dr. R L Sahu	M Tech	NITRKL	2012	Asst. Prof	31.05.14		GTE	01			Y	Regular
Dr. L Mohanty	M Tech	NITRKL	2013	Asst. Prof	18.06.14		WRE				Y	Regular
Dr. B Nanda	PhD	IIT KGP	2014	Asst. Prof	18.06.14		SE	03		02.02.24	Y	Regular
Ms. R R Sahoo	M Tech	NITRKL	2013	Asst. Prof	23.06.14		GTE				Y	Regular
Dr. J Meher	PhD	IIT K	2006	Asst. Prof	21.06.14		WRE				Y	Regular
Ms. J Ojha	M Tech	NITRKL	2013	Asst. Prof	18.06.15		TE				Y	Regular
Mr. A K Naik	M Tech	IIT KGP	2014	Asst. Prof	18.06.15		TE				Y	Regular
Dr. S Jena	PhD	VSSUT	2020	Asst. Prof	22.05.15		SE		16.10.20		Y	Regular
Dr. R K Dandpat	PhD	IIT KGP	2015	Asst. Prof	01.11.16		SE				Y	Regular
Mr. P K Pradhan	M Tech	IIT G	2014	Asst. Prof	17.11.16		TE				Y	Regular
Mr. A K Das	M Tech	IIT D	2014	Asst. Prof	10.12.16		SE				Y	Regular
Ms. K Swain	M Tech	NITRKL	2014	Asst. Prof	04.09.17		GTE				Y	Regular
Mr. S K Sial	M Tech	IIT KGP	2014	Asst. Prof	04.09.17		TE				Y	Regular
Ms. A Nayak	M Tech	VSSUT	2013	Asst. Prof	09.09.17		WRE				Y	Regular
Ms.K Bhoi	M Tech	VSSUT	2014	Asst. Prof	05.09.17		WRE				Y	Regular

4.1. Student-Faculty Ratio (SFR) (15)

(To be calculated at Department Level)

No. of UG Programs in the Department (n):

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

No. of Students in UG 2nd Year= u1

No. of Students in UG 3rd Year= u2

No. of Students in UG 4th Year= u3

No. of Students in PG 1st Year= p1

No. of Students in PG 2nd Year= p2

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1+UG2+UG3+PG1+PG2

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

Student Faculty Ratio (SFR) = S / F

Table B 4.1

Year	CAY (23-24)	CAYm1(22-23)	CAYm2(21-22)	CAYm3(20-21)
u1.1	(84+68) = 152	36A1+31B1+34B2+35A2 =136	(74A + 39B2 + 35B1 = 148)	152
u1.2	137	34A1+33B1+34B2+29A2=130	37A1+38B1+37A2+38B2=150	161
u1.3	128	36A1+29B2+37B1+35A2 = 137	52B + 65A + 12DD = 129	165
UG1	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3
...				
un.1				
un.2				
un.3				
UGn	un.1+un.2+un.3	un.1+un.2+un.3	un.1+un.2+un.3	
p1.1	07WRE+06GTE+11TE+14SE = 38	13WRE+15SE+07+15TE	14SE+14GTE+16TE+16WRE	13WRE+13GTE+15SE+16TE
p1.2	13WRE+07GTE+10TE+15TE = 45	15WRE+13SE+14+17TE	13WRE+13GTE+15SE+16TE	14SE+16TE
PG1	p1.1+p1.2 =83	p1.1+p1.2 = 109	p1.1+p1.2=117	p1.1+p1.2= 91
.....				
pm.1WRE	pm.1+pm.2 =20	28	29	13
pm.2GTE	13	21	27	13
pm.3TE	21	32	32	32
pm.4SE	29	28	29	29
PGm		pm.1+pm.2	pm.1+pm.2	
Total No. of Students in the Department (S)	UG1 + UG2 +... +UGn + PG1 + ...PGm=S1=500	UG1 + UG2 + ... +UGn + PG1+... + PGm=S2=512	UG1 + UG2 + ... +UGn + PG1+... + PGm=S3=544	478+91 = 569
No. of Faculty in the Department (F)	F1 = 27+14 = 41	F2 = 28+2 =30	F3 = 28	F4 =27
Student Faculty Ration (SFR)	SFR1=S1/F1= 500/41 = 12	SFR2= S2/F2 = 512/30 = 17	SFR3 = S3/F3 = 544/28 = 19	569/27= 21
Average SFR	SFR=(SFR1+SFR2+SFR3)/3= (12+17+19)/3= 16			

SFR average in three academic years < = 20

Assessment	15
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4.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

Table B4.1.1

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY	27	14
CAYm1	28	02
CAYm2	28	00

4.2. Faculty Cadre Proportion (10)

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

F1: Number of Professors required = $1/9 \times$ Number of Faculty required to comply with 20:1 Student- Faculty ratio based on no. of students (N) as per 4.1

F2: Number of Associate Professors required = $2/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 4.1

F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 4.1

Table B.4.2

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY	$1/9*(3*228/20) = 3.8$	06	7.6	02	22.8	19
CAYm1	$1/9*(3*228/20) = 3.8$	07	7.6	02	22.8	19
CAYm2	$1/9*(3*198/20) = 3.3$	07	6.6	02	19.8	19
Average Numbers	RF1=3.63	AF1=6.67	RF2=7.29	AF2=2	RF3=21.84	AF3=19

$$\begin{aligned} \text{Cadre Ratio Marks} &= \left[\left[\frac{AF_1}{RF_1} + \frac{AF_2}{RF_2} \times 0.6 \frac{AF_3}{RF_3} \times 0.4 \right] \times 5 \right. \\ &= (1.84 + 0.16 + 0.35) \times 5 = 11.75 \end{aligned}$$

Assessment	5
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4.3. Faculty Qualification (10)

$FQ = (10X + 4Y)/F$ where X is No. of available faculty with Ph.D., Y is No. available faculty with M. Tech., F is No. available faculty required to comply **20:1** Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 4.1)

Table B.4.3

	X	Y	F	$FQ = (10X + 4Y)/F$
CAY	17	10	$34.2 = (3*228/20)$	6.14
CAYm1	17	11	$34.2 = (3*228/20)$	6.26
CAYm2	15	13	$29.7 = (3*198/20)$	6.8
Average Assessment				6.4

Assessment	6.4
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4.4. Faculty Retention (5)

No. of regular faculty members in CAYm1= 5

CAY= 5

No. of faculty members retained in 2023-24 = 41

No. of faculty members retained in 2022-23 = 30

No. of faculty members retained in 2021-22 = 28

No. of faculty required in 20:1 ratio for four years = $1/3(25+25.6+27.2) = 25.93$

No. of faculty available in four years = $1/3(41+30+28) = 33$

Percentage of faculty retained during the period of three academic years > 90%

Assessment	5
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Table B.4.4

Item	Marks
<i>(% of faculty retained during the period of assessment keeping CAYm2 as base year)</i>	
<i>>= 90% of required Faculty members retained during the period of assessment keeping CAYm2 as base year</i>	5
<i>>=75% of required Faculty members retained during the period of assessment keeping CAYm2 as base year</i>	4
<i>>= 60% of required Faculty members retained during the period of assessment keeping CAYm2 as base year</i>	3
<i>>= 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year</i>	2
<i>< 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year</i>	0

4.5. Faculty competencies in correlation to curriculum (5)

(List the components of curriculum and the competencies (specialization, research publications, course developments etc.,) of faculty to correlate the curriculum and competencies.)

Name of the Faculty	Research Area	Research Publication in years 2020-21, 2021-22, 2022-23
Prof. A N Nayak	Vibration, Buckling and Dynamic Stability of Plates and Shells Advanced Composite Materials Finite Element Analysis Development of Alternate Construction Materials from Wastes for Production of Sustainable Concrete Retrofitting of Concrete Structures using FRP composites	4
Prof. P C Swain	Neuro fuzzy based hydrological analysis Optimization based irrigation techniques	2
Prof. S S Das	Transportation Planning Traffic Operations and Management Public Transportation System Travel Behavior Analysis and Demand Models	0
Prof. S K Patro	Energy Dissipation Systems for Seismic Resisting Design Utilization of Industrial Solid Waste in Concrete Preparation Nanotechnology of Cement Wind induced vibration control Seismic Vulnerability Assessment	26
Prof. R R Dash	Water Quality & Treatment River Bank Filtration Waste Water	17
Prof. R K Panigrahi	Geopolymer Concrete Tensegrity Structures	17
Prof. A K Kar	Modelling in Water Resources Flood Frequency Soft Computing Climate Change Hydrological Data Management and Analysis	3
Dr S K Panigrahi	Interface Mechanics Concrete Behavior Structural Retrofitting Structural Mechanics Structural Design and Experimental Analysis	14
Dr D B Giri	Soil Stabilization Soil dynamics Dynamic Slope Analysis	8
Mrs J Munda	Study of static & dynamic soil characteristics Soil stabilization	8
Dr L Sinha	Structural Dynamics	6
Dr P Nayak	Concrete Technology Mechanical and Physical properties of Concrete Partial replacement of cement with industrial waste Earthquake Analysis of Concrete Dam	0

Dr J Meher	Surface water hydrology with application of Artificial Intelligence and GIS	8
Dr R K Dandpat	Meso mechanics-based study of concrete Discrete Element Method Erosive failure of concrete Confinement effect on concrete	0
Mrs J R Ojha	Pavement Material	1
Mr A K Naik	Pavement Materials Pavement Analysis and Design Pavement Evaluation	0
Mr S K Sial	Traffic Safety Transportation Planning	0
Mr P K Pradhan	Heterogeneous Traffic flow modelling Effect of Geometric Characteristics on traffic analysis Road Safety and Traffic data collection and analysis	1
Mr A K Das	Structural Health Monitoring Bamboo Structures Green Concrete	1
Mrs R R Sahoo	Bearing Capacity Soil Reinforcement	11
Dr L Mohanty	Fluvial Hydraulics (River meandering) Sediment Modelling	12
Dr B Nanda	Development and characterization of cement-less concrete using waste materials Sustainability and LCA of Construction Materials Vibration based structural damage assessment using swarm intelligence techniques Controlling Structural Vibration using Tuned Liquid Damper Shear strengthening of RC beams using deep embedded reinforcements	23
Dr R L Sahu	Soil stabilization Geoenvironmental engineering	4
Dr S Jena	Geopolymer concrete Construction Material Thermodynamic modeling	18
Mrs S Rath	Transportation Planning	1
Mrs K Swain	Stabilization of Soil Bearing capacity of foundation Leaching effect on soil	1
Ms K Bhoi	Rainfall Run-off Modelling	0
Mrs A Nayak	Flood forecasting Rainfall-Runoff modelling	0
Sum		186
Average assessment over last three years (Marks limited to 5)		6.64

Assessment	5
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4.6. Innovations by the Faculty in Teaching and Learning (5)

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation, and inclusive class rooms that lead to effective, efficient, and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- *The work must be made available on Institute website*
- *The work must be available for peer review and critique*
- *The work must be reproducible and developed further by other scholars*

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, significance of results, effective presentation and reflective critique.

Name of the Faculty	Course or E-content Developed in years 2020-21, 2021-22, 2022-23
Prof. A N Nayak	1
Prof. P C Swain	4
Prof. S S Das	1
Prof. S K Patro	6
Prof. R R Dash	2
Prof. R K Panigrahi	4
Prof. A K Kar	1
Dr S K Panigrahi	4
Dr D B Giri	2
Mrs J Munda	
Dr L Sinha	2
Dr P Nayak	2
Dr J Meher	2
Dr R K Dandpat	2
Mrs J R Ojha	2
Mr A K Naik	2
Mr S K Sial	2
Mr P K Pradhan	1
Mr A K Das	2
Mrs R R Sahoo	
Dr L Mohanty	2
Dr B Nanda	2
Dr R L Sahoo	3
Dr S Jena	2
Mrs S Rath	2

Mrs K Swain	3
Ms K Bhoi	2
Mrs A Nayak	2
Sum	59
Average assessment over last three years (Marks limited to 5)	59/3 = 19.67

Assessment	5
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4.7. Faculty as participants in Faculty development/training activities/STTPs (10)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty/ Faculty development program: 3 Points
- Participation >5 days Faculty/ Faculty development program: 5 points

Table B.4.7

Name of the Faculty	Faculty Participation as (Resource Person/Participant)	Max. 5 per Faculty		
		2020-21	2021-22	2022-23
Prof. A.N. Nayak				
Prof. P. C. Swain				
Prof. S. S. Das				
Prof. S. K. Patro				
Prof. R. R. Dash	Resource person	1		
	Participant	2	1	
Prof. R. Panigrahi	Participant	5	14	
Prof. A. K. Kar				
Dr. S. K. Panigrahi				
Dr D. Giri	Participant	9	5	3
Mrs. J. Munda	Participant	19	10	6
Dr. L. Sinha	Participant	3	5	8
Dr. P. Nayak				
Dr. J. Meher	Participant	8	14	20
Dr. R.K Dandpat	Participant	3	5	
Mrs. J.R Ojha	Participant	3		
Mr. A. K. Naik				
Mr. S. K. Sial	Participant	3	5	3
Mr. P. K. Pradhan	Participant	3	13	
Mr. A. K. Das	Participant	3	10	
Mrs. R. R. Sahoo				
Dr. L. Mohanty	Participant	06	02	02
Dr. B. Nanda				
Dr. R. L. Sahu	Participant		15	
Dr. S. Jena	Participant	14	20	6
Mrs. S. Rath	Participant	20	20	10
Mrs. K. Swain	Participant	9	3	3
Ms. K. Bhoi	Participant		5	
Mrs. A. Nayak	Participant		15	

Sum		117	159	59
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 4.1		512/20 = 25.6	544/20 =27.2	569/20 =28.45
Assessment = 2 * (Sum/0.5 RF) (Marks limited to 10)		18.28	23.38	8.3
	Average assessment over last three years (Marks limited to 10)			16.65

Assessment	10
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4.8. Research and Development (30)

4.8.1. Academic Research (10)

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

(i) Faculty receiving Ph.D.

Name of the Faculty	Details of Faculty	Year in which PhD awarded	University
Dr. S. Jena	Assistant Professor	16/10/2020	VSSUT BURLA
Dr. L. Sinha	Assistant Professor	28/07/2022	VSSUT BURLA
Dr. R.L. Sahu	Assistant Professor	30/07/2022	VSSUT BURLA
Dr. L. Mohanty	Assistant Professor	16/01/2024	IIT HYDERABAD

(ii) Number of quality publications in refereed/SCI Journals/Patents/Books/chapters

(a) List of Journal Publications

Sl. No.	Title of paper	Name of the Author/s	Department of the Faculty	Name of journal	Year of publication
1	AI-driven critical parameter optimization of sustainable self-compacting geopolymer concrete	S. K. Parhi, S. Dwibedy & S. K. Panigrahi	Civil Engineering	Journal of Building Engineering	2024
2	Metaheuristic optimization of machine learning models for strength prediction of high-performance self-compacting alkali-activated slag concrete	S. K. Parhi, S. Dwibedy & S. K. Panigrahi	Civil Engineering	Multiscale and Multidisciplinary Modeling, Experiments and Design	2024
3	State-of-the-Art Review on Strength Performance of Soil Treated with Silica Nanoparticles	J. Munda & S. Mohanty	Civil Engineering	Indian geotechnical journal	2024
4	Seismic design of reinforced concrete buildings equipped with viscous dampers using simplified performance-based approach	Sima S. Ijmulwar & S. K. Patro	Civil Engineering	Structures	2024
5	A comprehensive review on compressive strength and microstructure properties of GGBS-based geopolymer binder systems	J. Mishra, B. Nanda, S. K. Patro & R. S. Krishna	Civil Engineering	Construction and Building Materials	2024
6	Application of R-curve, ANCOVA, and RSM techniques on fracture toughness enhancement in PET fiber-reinforced concrete	S. K. Parhi & S. K. Patro	Civil Engineering	Construction and Building Materials	2024

7	Soil erosion estimation using RUSLE: a case study of Bamnidhi sub basin	P. K. Bhuyan, J. Meher & L. Mohanty	Civil Engineering	ISH Journal of Hydraulic Engineering	2024
8	Factors affecting the structural performance of geopolymer concrete beam composites	S. Dwibedy, & S. K. Panigrahi,	Civil Engineering	Construction and Building Materials	2023
9	Production of durable high strength self-compacting geopolymer concrete with GGBFS as a precursor	J. Pradhan, S. Panda, S. Dwibedy, P. Pradhan & S. K. Panigrahi	Civil Engineering	Journal of Material Cycles and Waste Management	2023
10	A comprehensive study on Controlled Low Strength Material	S. K. Parhi, S. Dwibedy, S. Panda & S.K. Panigrahi	Civil Engineering	Journal of Building Engineering	2023
11	Alkali-silica reaction expansion prediction in concrete using hybrid metaheuristic optimized machine learning algorithms	S. K. Parhi & S. K. Panigrahi	Civil Engineering	Asian Journal of Civil Engineering	2023
12	GGBFS-based Self-Compacting Geopolymer Concrete with Optimized Mix Parameters established on Fresh, Mechanical, and Durability Characteristics	J. Pradhan, S. Panda, S. K. Parhi, P. Pradhan & S. K. Panigrahi	Civil Engineering	Journal of Materials in Civil Engineering, ASCE	2023
13	Laboratory and field studies on the effect of geoenvironmental factors on the removal of linear alkylbenzene sulfonate during riverbank filtration	Rajiv L. Sahu, Rakesh R. Dash & Pradip K. Pradhan	Civil Engineering	Arabian Journal of Geosciences	2023
14	Efficient machine learning algorithm with enhanced cast swarm optimization for prediction of compressive strength of GGBS-based geopolymer concrete at elevated temperature	P. K. Dash, S. K. Parhi, S. K., Patro & R. Panigrahi	Civil Engineering	Construction and Building Materials	2023
15	Characterization and life-cycle assessment of alkali-activated concrete using industrial wastes	S. Prusty, S. Jena, R. Panigrahi	Civil Engineering	International Journal of Environmental Science and Technology	2023
16	Improvement of Durability Aspects of CAC-Based Alkali-Activated Concrete	S. Prusty, D. Behera, S. Jena, R. Panigrahi	Civil Engineering	Iranian Journal of Science and Technology, Transactions of Civil Engineering	2023
17	Assessment of acid and chloride resistance of ferrochrome slag-based geopolymer concrete	S. Prusty, S. Jena, R. Panigrahi	Civil Engineering	Indian Concrete Journal	2023
18	Moisture and rutting resistance of recycled polypropylene fiber-modified dense bituminous mix	H. K. Behera, D. Giri & S. S. Das	Civil Engineering	Innovative Infrastructure Solution	2023
19	Estimation and Optimization of the Hydrostatic Height of Waterway Embankment Using Taguchi-Based Honey Badger Algorithm	S. Subhadarsini, D. Giri & S.S. Das	Civil Engineering	Journal of Soft Computing in Civil Engineering	2023
20	Understanding the Structural Stability of the Tehri Dam: A Comprehensive Analysis	R. Samal & D.B. Giri	Civil Engineering	Journal of Geotechnical Engineering	2023
21	Improvement of expansive soils mixed with red mud and phosphogypsum	A. Bandopadhyay & D.B. Giri	Civil Engineering	Arabian Journal of Geosciences	2023
22	Dynamic aspects of suspended-sediment-concentration recession curves	L. Mohanty, P. Istalkar & B. Biswal	Civil Engineering	Journal of Hydrology	2023
23	Small-Strain Shear Modulus and Strength Characteristics of Clayey Soil Treated with Nano-SiO ₂ and Fly Ash	J. Munda, A.K. Ram & S. Mohanty	Civil Engineering	International Journal of Civil Engineering	2023

24	Sustainable Fly Ash Based Geopolymer Binders: A Review on Compressive Strength and Microstructure Properties	J. Mishra, B. Nanda, S.K. Patro & R.S. Krishna	Civil Engineering	Sustainability	2023
25	Shear strengthening of continuous RC T-beams with deep embedded CFRP and steel bars: A numerical study	B. Dutta, A.N. Nayak, S. Dirar, B. Nanda & M. Theofanous	Civil Engineering	Structures	2023
26	Prediction of compressive strength of geopolymer concrete using a hybrid ensemble of grey wolf optimized machine learning estimators	S. K. Parhi & S. K. Patro	Civil Engineering	Journal of Building Engineering	2023
27	Evolutionary optimization of machine learning algorithm hyper parameters for strength prediction of high-performance concrete	S. Singh, S. K. Patro & S. K. Parhi	Civil Engineering	Asian Journal of Civil Engineering	2023
28	Evaluation of environmental disturbance indicator using functional performance and life cycle assessment of ferrochrome waste concrete	P. K. Acharya & S. K. Patro	Civil Engineering	Journal of Building Engineering	2023
29	Efficient machine learning algorithm with enhanced cat swarm optimization for prediction of compressive strength of GGBS-based geopolymer concrete at elevated temperature	P. K. Dash, S. K. Parhi, S. K. Patro & R. Panigrahi	Civil Engineering	Construction and Building Materials	2023
30	Effectiveness of rice husk ash-derived alkali activator in fresh, mechanical, and microstructure properties of geopolymer mortar at ambient temperature curing	S. K. Das, N. Behera, S. K. Patro, S. M. Mustakim, Y. Suda & N. Leklou	Civil Engineering	Journal of Sustainable Cement-Based Materials	2023
31	Strength, Wear-Resistance, Degree of Hydration, Energy and Carbon Performance of Concrete Using Ferrochrome Waste Materials.	P. K. Acharya & S. K. Patro	Civil Engineering	Iranian Journal of Science and Technology, Transactions of Civil Engineering	2023
32	Durability Properties of Ambient Cured Geopolymer Mortar Made from Rice Husk Ash-Based Alkali Activator: A Comparative Study with Conventional Alkali Activator	S. K. Das, M. K. Nayak, S. K. Patro & Y. Suda	Civil Engineering	Advances in Civil Engineering Materials	2023
33	Compressive strength prediction of PET fiber-reinforced concrete using Dolphin echolocation optimized decision tree-based machine learning algorithms.	S. K. Parhi & S. K. Patro	Civil Engineering	Asian Journal of Civil Engineering	2023
34	Factors affecting production and properties of self-compacting geopolymer concrete – A review	P. Pradhan, S. Panda, S. K. Parhi & S. K. Panigrahi	Civil Engineering	Construction and Building Materials	2022
35	Durability characteristics of geopolymer concrete-Progress and perspectives	P. Pradhan, S. Dwivedi, M. Pradhan, S. Panda, S. K. Panigrahi	Civil Engineering	Journal of Building Engineering	2022
36	Laboratory and field studies to assess the effect of hydrogeological parameters on coliform removal during riverbank filtration	Rajiv L. Sahu, Rakesh R. Dash, Pradip K. Pradhan	Civil Engineering	Journal of Hazardous, Toxic, and Radioactive Waste	2022
37	A study on adsorption of anionic surfactant from water during riverbank filtration	Rajiv L. Sahu, Rakesh R. Dash, Pradip K. Pradhan	Civil Engineering	Journal of Molecular Liquids	2022
38	Utilization of industrial waste for Cr (VI) adsorption from aqueous solution: a statistical modeling approach	Narayan Tiadi, Rakesh R. Dash & Chitta R. Mohanty	Civil Engineering	Arabian Journal of Geosciences	2022

39	Equilibrium and Kinetic Studies on Sorption of Boron on Industrial Wastes	Lusi Subhadarsini, Rakesh R. Dash, Mousumi Mohapatra & Rajiv L. Sahu	Civil Engineering	Journal of Hazardous, Toxic, and Radioactive Waste	2022
40	Comparative Studies of Adsorption of Chromium (VI) Ions onto Different Industrial Wastes	Narayan Tiadi, Rakesh R. Dash, Chitta R. Mohanty & A. M. Patel	Civil Engineering	Journal of Hazardous, Toxic, and Radioactive Waste	2022
41	Development of sustainable concrete incorporating metakaolin and sintered fly ash aggregate	S. N. Patra, R. K. Patra, B. B. Mukharjee & S. Jena	Civil Engineering	Structural concrete	2022
42	Strength and microstructural characterization of ferrochrome ash and ground granulated blast furnace slag based geopolymer concrete	J. Mishra, B. Nanda, S.K. Patro, S.K. Das & S.M. Mustakim	Civil Engineering	Journal of Sustainable Metallurgy	2022
43	Influence of ferrochrome ash on mechanical and microstructure properties of ambient cured fly ash based geopolymer concrete	J. Mishra, B. Nanda, S.K. Patro, S.K. Das & S.M. Mustakim	Civil Engineering	Journal of Material Cycles and Waste Management.	2022
44	Fresh and Hardened properties of Geopolymer Concrete: a Review	S. Prusty, S. Jena & R. Panigrahi	Civil Engineering	Indian Concrete Journal	2022
45	Utilization of phosphogypsum along with other additives in geo-engineering– A review	A. Bandopadhyay & D.B. Giri	Civil Engineering	Materials de Construction	2022
46	Shear behaviour of RC deep beams retrofitted with externally bonded GFRP fabrics: Experimental and numerical study	B. Dutta, A. Kumari & A. N. Nayak	Civil Engineering	Structures	2022
47	Eco-friendly and cost-effective concrete utilizing high-volume blast furnace slag and demolition waste with lime	B. P. Lenka, R. K. Majhi, S. Singh & A.N. Nayak	Civil Engineering	European J. of Environmental and Civil Engg.	2022
48	Buckling behaviour and design aids of cylindrical panel subjected to uniform in-plane loading	G. Patel & A.N. Nayak	Civil Engineering	International Journal of Structures	2022
49	Evaluation of graded layer in ground granulated blast furnace slag based layered concrete	S. K. Sahoo, B. G. Mohapatra, S. K. Patro & P. K. Acharya	Civil Engineering	Construction and Building Materials	2022
50	Impact of elevated temperature on strength and micro-structural properties of concrete containing water-cooled ferrochrome slag as fine aggregate	M. K. Dash, S. K. Patro, P. K. Acharya & Mayuresh Dash	Civil Engineering	Construction and Building Materials	2022
51	Sustainable Fly Ash Based Geopolymer Binders: A Review on Compressive Strength and Microstructure Properties	J. Mishra, B. Nanda, S. K. Patro & R. S. Krishna	Civil Engineering	Sustainability	2022
52	Strength and Microstructural Characterization of Ferrochrome Ash- and Ground Granulated Blast Furnace Slag-Based Geopolymer Concrete.	J. Mishra, B. Nanda & S. K. Patro	Civil Engineering	Journal of Sustainable Metallurgy	2022
53	Influence of ferrochrome ash on mechanical and microstructure properties of ambient cured fly ash-based geopolymer concrete	J. Mishra, B. Nanda, S. K. Patro, S. K. Das & S. M. Mustakim	Civil Engineering	Journal of Material Cycles and Waste Management	2022
54	Mechanical and Post-Cracking Performance of Recycled High Density Polyethylene Fiber Reinforced Concrete	M.M. Rao, S. K. Patro, & S.S. Basarkar	Civil Engineering	Journal of The Institution of Engineers (India): Series A	2022
55	Evaluation of Functional, Microstructural, Environmental Impact, and Economic Performance of Concrete Utilizing Ferrochrome Ash and Slag	P. K. Acharya & S. K. Patro	Civil Engineering	Journal of Sustainable Metallurgy	2022
56	Model updating using causal	K. Tiwary, S. K. Patro & A. H.	Civil	Structural and	2022

information: a case study in coupled slab	Gandomi	Engineering	Multidisciplinary Optimization	
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b) List of books/book chapter published

Sl. No.	Name of the Faculty	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	Name of the publisher
1	A. N. Nayak	ICRDSI	Non-destructive characteristics of alkali activated recycled aggregate concrete with blast furnace slags.			International	2023	
2	J. Pradhan, S. Panda, R. K. Mandal & S. K. Panigrahi	Materials Today Proceedings	Influence of GGBFS-based blended precursor on fresh properties of self-compacting geopolymer concrete under ambient temperature			International	2023	
3	R. Das, S. Panda, A. S. Sahoo & S. K. Panigrahi	Materials Today Proceedings	Effect of super plasticizer types and dosage on the flow characteristics of GGBFS based self-compacting geopolymer concrete.			International	2023	
4	Abhayaa Nayak & Anil Kumar Kar		Study and prediction of built-up land use for Bhubaneswar and its corresponding effects	Modern Technology: Industry 4.0	ETETI	Internatioal Conference	Conference Proceedings Accepted 2023	CRC Press/ Taylor and Francis
5	R. S. Krishna, J. Mishra, S.K. Das, B. Nanda, S.K. Patro & S.M. Mustakim	Tailored Functional Materials	A Review on Potential of Graphene Reinforced Geopolymer Composites			International	2023	CRC Press/ Taylor and Francis
6	J. Mishra, S.K. Das, B. Nanda, S.K. Patro & S.M. Mustakim	Circular Economy in the Construction Industry	Strength Development in Ferrochrome Ash-Based Geopolymer Concrete				2022	Taylor and Francis/ CRC Press U.S.A.
7	L. Mohanty & B. Biswal	Materials Today Proceedings	Event Scale Analysis of Sediment Concentration-River Discharge Relationship		IC4M 2022	Internatioal Conference	2022	Elsevier
8	L. Mohanty, A. Swain M. Pattanaik & B Biswal	Materials Today Proceedings	Sediment-Yield Prediction Using Map Correlation Method		IC4M 2022	Internatioal Conference	2022	Elsevier
9	L. Mohanty, S.K. Panigrahi & M. Patanaik	Materials Today Proceedings	Assessment of Water Quality of Mahanadi Basin Using Statistical And Wavelet		IC4M 2022	Internatioal Conference	2022	Elsevier

			Techniques					
10	S. Prusty, S. Jena & R. Panigrahi	International Conference on Advances in Construction materials and Structures (ICCMS 2022)	Chloride resistance of FA-GGBS based alkali activated concrete			International	2022	
11	P. Pradhan, S. Panda, S. K. Parhi & S. K. Panigrahi,	Materials Today Proceedings	Effect of critical parameters on the fresh properties of Self Compacting geopolymer concrete			International	2022	
12	P. Pradhan, S. Panda, S. K. Parhi & S. K. Panigrahi	Materials Today Proceedings	Variation in fresh and mechanical properties of GGBFS based self-compacting geopolymer concrete in the presence of NCA and RCA			International	2022	
13	H. K. Behera, S. S. Das, D. Giri & S. K. Panigrahi	Materials Today Proceedings	Application of ANN for evaluating WMA Marshall parameters			International	2022	
14	L. Mohanty, S. K. Panigrahi, & M. Patnaik	Materials Today Proceedings	Assessment of Water Quality of Mahanadi Basin using Statistical and Wavelet Techniques			International	2022	
15	S. Prusty, S. Jena & R. Panigrahi	Materials Today Proceedings	Study of the mechanical and micro structural properties of blended fly ash slag-based alkali activated concrete			International	2022	
16	A.N. Nayak	SEC 2022	Dynamic instability characteristics of Spherical Panels subjected to linearly varying in-plane loading			International	2022	
17	A. N. Nayak	SEC 2022	Nonlinear FE Model for Shear Strengthening of Simply Supported RC Beams with FRP DE Bars			International	2022	
18	B. Dutta, A.N. Nayak, B. Nanda & S. Dirar	Materials Today: Proceedings	Reinforced concrete deep beam shear retrofitted with deep embedded bar: a numerical investigation.			International	2022	
19	S.S. Mohapatro, J. Mishra, B. Nanda &	Materials Today: Proceedings	A review on waste-derived alkali activators for preparation of			International	2022	

	S.K. Patro		geopolymer composite					
20	B. Dutta, A.N. Nayak, B. Nanda & S. Dirar	Materials Today: Proceedings	Reinforced concrete deep beam shear retrofitted with deep embedded bars: A numerical investigation			International	2022	
21	P. K. Dash, S. K. Parhi, S. K. Patro & R. Panigrahi	Materials Today Communications	Influence of chemical constituents of binder and activator in predicting compressive strength of fly ash-based geopolymer concrete using firefly-optimized hybrid ensemble machine learning model			International	2023	

c) List of Patents Published

Sl. No	Title of the patent	Name of Faculty	Indian/Other	Date of Published
1	Rice Husk Derived Cement-less Alkali Activated Binder System for Structural Applications	S. K. Patro & B. Nanda	Indian	01/03/2024
2	Method and composition of rice husk ash derived alkali activator-based cement free GPC	Saswat Kumar Das & S. K. Patro	Indian	20/10/2023
3	Evaluation of High Volume Flyash Concrete for Rigid Pavement Overlays	Mrs Kajal Swain, Dr. L Abhilashi, Mr PK Singh, Dr. K Md Rafi, Dr. BK Sarkar, and Dr. Reena Singh	Indian	13/10/2023

(iii) Ph.D. Guidance

Sl. No.	Name of the Faculty	Name of the Scholar	Topic	University & Year of Registration	Status (Completed/Ongoing)	year of completion
1	Prof. Amar Nath Nayak	Mr. Rama Ballav Swain	Retrofitting of concrete structures using fibre reinforced polymer composites	Sambalpur University, Burla, 2010	Completed	2018
2	Prof. Amar Nath Nayak	Mr. Prasant Kumar Tripathy	Vibration of stiffened laminated composite plates	Sambalpur University, Burla, 2010	Completed	2018
3	Prof. Amar Nath Nayak	Mrs. Archana Kumari	Shear strengthening of RC deep beams with/without web openings using externally bonded GFRP fabrics	VSSUT, Burla, 2014	Completed	2020
4	Prof. Amar Nath Nayak	Mr. Rajib Kumar Majhi	Sustainable concrete using high volume ground granulated blast furnace slag and recycled coarse aggregate.	VSSUT, Burla, 2015	Completed	2020

5	Prof. Amar Nath Nayak	Mr. Sudeep Kumar Patel	Characterization of structural lightweight concrete utilizing high volume fly ash cenosphere and sintered fly ash aggregate	VSSUT, Burla 2014	Completed	2022
6	Prof. Amar Nath Nayak	Mrs. Leena Sihna	Experimental and numerical vibration analysis of laminated composite stiffened plates with/without cut-out	VSSUT, Burla, 2015	Completed	2022
7	Prof. Amar Nath Nayak	Mrs. Gayatri Patel	Static and dynamic stability analysis of isotropic and laminated composite curved panels subjected to varying linear in-plane loads	VSSUT, Burla, 2015	Submitted February, 2024	
8	Prof. Amar Nath Nayak	Mr. Bibhu Prasad Lenka	Production of sustainable lime activated concrete with replacement of cement and fine aggregate by blast furnace slag waste and natural coarse aggregate by demolition waste	VSSUT Burla, 2017	To be submitted shortly	
9	Prof. Amar Nath Nayak	Mrs. Baisali Dutta	Shear strengthening of RC beams using deep embedded FRP and steel bars	VSSUT Burla, 2018	Submitted February, 2024	
10	Prof. Amar Nath Nayak	Mr. Biswaranjan Tripathy	Production of bacterial concrete utilizing industrial and demolition wastes	VSSUT Burla, 2021	Ongoing	
11	Prof. Amar Nath Nayak	Mr. Amiya Mudali	Development of sustainable pavement concrete utilizing high volume of industrial and demolition wastes	VSSUT, Burla, 2022	Ongoing	
12	Prof. Amar Nath Nayak	Mrs. Laren Satpathy	Production of concrete using waste materials	VSSUT, Burla, 2023	Ongoing	
13	Prof. Sudhanshu Sekhar Das	Hemanta Kumar Behera	WMA in TPMP	VSSUT Burla	ongoing	
14	Prof. Sudhanshu Sekhar Das	Susant Kumar Sial	Traffic Flow modelling in Urban corridor	VSSUT Burla	ongoing	
15	Prof. Sudhanshu Sekhar Das	Niharika Pattanaik	Pervious pavement	VSSUT Burla	ongoing	
16	Prof. Sudhanshu Sekhar Das	Deepak Kumar Mohanty	Effect of Drivers Attitude towards accident	VSSUT Burla	ongoing	
17	Prof. Sudhanshu Sekhar Das	Ramparasad Panda	"An Alternative Approach of Design of Hot R Asphalt".	SOA, BBSR,	Completed	
18	Prof. Sudhanshu Sekhar Das	Patitapaban Panda	Parking Management: A Solution to Urban Mobility	SOA, BBSR	Completed	
19	Prof. S. K. Patro	Prasanna Kumar Acharya	Properties of Concrete made with Industrial Waste, Blended Cement and Lime	KIIT University 2014	Completed	
20	Prof. S. K. Patro	Subhransu Swain	Seismic Protection of Soft Storey Buildings Using Energy Dissipation Devices	KIIT University	Completed	2015
21	Prof. S. K.	Tribikram	Utilisation of Industrial Waste	KIIT University	Completed	2018

	Patro	Mohanty	in Normal and Geopolymer Concrete			
22	Prof. S. K. Patro	Manoj Kumar Dash	Properties of Concrete Using Water Cooled Ferrochrome Slag as Partial Replacement of Fine Aggregate	KIIT University	Completed	2019
23	Prof. S. K. Patro	Sangram Kishor Sahu	Performance of Functionally Graded Concrete Using Ground Granulated Blast Furnace Slag	KIIT University	Completed	2021
24	Prof. S. K. Patro	M. Mahesh Rao	Experimental Investigation on Mechanical and Durability Properties of Recycled Plastic Fiber Reinforced Concrete	VSSUT, Burla	Completed	2023
25	Prof. S. K. Patro and Dr B Nanda	Jyotirmay Mishra	Compressive Strength and Microstructural Characterization of Geopolymer Binder Containing Ferrochrome Ash as Primary Source Material	VSSUT, Burla	Completed	2023
26	Prof. S. K. Patro	Sima Ijmulwar	Simplified performance based seismic design of RC buildings with passive dampers	VSSUT, Burla	Ongoing	
27	Prof. S. K. Patro	Abhaya Satapathy	Fiber Reinforced Concrete	VSSUT, Burla	Ongoing	
28	Prof. S. K. Patro	Laren Satpathy	Production of sustainable concrete with various industrial wastes	VSSUT, Burla, 2023	Ongoing	
29	Prof. S. K. Patro	Suraj Parhi	Multi Scale Modeling of Cementitious Material	VSSUT, Burla, 2023	Ongoing	
30	Dr. Rakesh Roshan Dash	Rajiv Lochan Sahu	Effect of Hydrogeological Characteristics of Aquifer on River Bank Filtration	VSSUT, Burla, 2014	Completed	2022
31	Dr. Rakesh Roshan Dash	Narayan Tiadi	Characterization and Sorption Potential of Dolochar for Removal of Heavy Metals from Aqueous Solution	VSSUT, Burla, 2011	Completed	2022
32	Dr. Rakesh Roshan Dash	Akankshya	Application of Moving Bed Bio Film Reactor for Treating Landfill Leachate	VSSUT, Burla, 2018	Ongoing	
33	Dr. Rakesh Roshan Dash	Lusi Subhadarsini	Treatment of Industrial Waste Water Using Hybrid Bioreactor	VSSUT, Burla, 2018	Ongoing	
34	Dr. Rakesh Roshan Dash	Sourya Snigdha Mohapatra	Stabilization of Soil with microbial augmentation	VSSUT, Burla, 2018	Ongoing	
35	Dr. Rakesh Roshan Dash	Suven Kumar Nath	Application of Ultrasonic-Assisted Green Synthesis of Metal Oxide Nano-Particles for Wastewater Treatment	VSSUT, Burla, 2021	Ongoing	
36	Dr. Rakesh Roshan Dash	Manoranjan Dash	Removal of Organic Carbon and Nutrients from Wastewater Using Sequencing Batch Reactor	VSSUT, Burla, 2022	Ongoing	
37	Dr. Rakesh Roshan Dash	Subhashree Rout	Adsorption of Pharmaceutical Contaminants from Aqueous Solution by Using Industrial Waste	VSSUT, Burla, 2022	Ongoing	
38	Prof.	Mrs.	Study the behavior of Fly ash	VSSUT, Burla,	Completed	2020

	Ramakanta Panigrahi	Sanghamitra Jena	based Geopolymer mortar & Concrete	2016		
39	Prof. Ramakanta Panigrahi & Dr. S. Jena	Satya Ranjan Prusty	Gradation & Characterization of Geopolymer concrete	VSSUT, Burla, 2020	Synopsis submitted	
40	Prof. Ramakanta Panigrahi & Prof. Sanjay Kumar Patro	Pankaj Kumar Dash	Prediction of Properties of Geopolymer Concrete Using Experimental and Machine Learning Techniques	VSSUT, Burla,	Ongoing	
41	Anil Kumar Kar	K.K. Gupta	Optimal operation of a reservoir with conflicting demand- Hirakud reservoir	SOA, BBSR, 2019	Completed	
42	Anil Kumar Kar	G.P. Roy	A geomorphological study of subsidence of river bank embankments of Devee River in Mahanadi delta	Utkal University, 2021	Completed	
43	Anil Kumar Kar	Pratyush Kumar Panda	Water Resources Engineering (topic not finalized)	VSSUT, Burla, 2024	Ongoing	
44	Anil Kumar Kar	Anjana Khamari	Sediment quantification and disposal methodologies	VSSUT, Burla, 2020	Ongoing	
45	Anil Kumar Kar	Biswajit Choudhury	Optimum raingauge network and rainfall analysis	VSSUT, Burla, 2020	Ongoing	
46	Anil Kumar Kar	Ankita Bohidar	Urban flood modelling with multi variate analysis	VSSUT, Burla, 2018	Ongoing	
47	Anil Kumar Kar	Kirtisuta Bhoi	Catchment modelling with respect to rainfall and runoff behaviour	VSSUT, Burla, 2023	Ongoing	
48	Anil Kumar Kar	Pritimanjari Sahu	Development of water distribution networks	VSSUT, Burla, 2023	Ongoing	
49	Anil Kumar Kar	Abhaya Nayak	Remote sensing GIS applications in diagnosing the developments in the city	VSSUT, Burla, 2019	Ongoing	
50	Anil Kumar Kar	Debashish Mishra	No subject given yet	VSSUT, Burla, 2020	Ongoing	
51	Dr. Saubhagya Kumar Panigrahi	Priyanka Pradhan	Study of GGBFS-based self-compacting geopolymer concrete under ambient temperature	VSSUT, Burla, 2018	Completed	
52	Dr. Saubhagya Kumar Panigrahi	Jharana Pradhan	Study of the variation in geopolymerization material components on the properties of GGBFS-based self-compacting geopolymer concrete	VSSUT, Burla, 2021	ongoing	
53	Dr. Saubhagya Kumar Panigrahi	Ranjita Das	Study of GGBFS-based self-compacting geopolymer concrete with variation in constituent materials and curing conditions	VSSUT, Burla, 2021	ongoing	
54	Dr. Saubhagya Kumar Panigrahi	Prasanta Sethi	Study of Bacteria-based Self-healing Self-Compacting Geopolymer Concrete	VSSUT, Burla, 2022	ongoing	
55	Dr. Saubhagya Kumar Panigrahi	Ashutosh Nanda	Sustainable Construction Practice through Preparation of Precast Concrete Blocks	VSSUT, Burla, 2024	ongoing	

			using Construction-Demolition and Plastic Waste			
56	Dr. Saubhagya Kumar Panigrahi	Monalin Pradhan	Impact of elevated temperature on Self-Compacting Geopolymer Concrete with blended Precursor	VSSUT, Burla, 2024	Ongoing	
57	Dr. Debabrata Giri	Swarnima Subhadarsini	Analysis of High raise percolating Embankment	VSSUT, Burla, 2019	Ongoing	
58	Dr. Debabrata Giri	Anamika Badhopadhyaya	Application of Industrial by products RM, PG, GGBS as geomaterial	VSSUT, Burla, 2019	Ongoing	
59	Dr. Debabrata Giri	Sahin Ahmed	Dynamic Behaviour of Heterogeneous Slope Stability	VSSUT, Burla, 2022	Ongoing	
60	Dr. Janhabi Meher	Swagatika Sahoo	Morphometric study for soil erosion	VSSUT Burla 2020	Ongoing	
61	Dr. Janhabi Meher	Shradhanjali Pradhan	Machine learning application for flood frequency analysis	VSSUT Burla 2021	Ongoing	
62	Dr. Rajiv Lochan Sahu and Dr. Pradip Kumar Pradhan	Ambika Priyadarshini Mishra	Bioenzymatic Lime Stabilization of Clayey Soils	VSSUT, Burla, 2018	Ongoing	
63	Dr. Rajiv Lochan Sahu and Dr. Prakash Chandra Swain	Pritee Krishna Das	Flood Management using AI - A case Study on Subarnarekha River Basin, Odisha	VSSUT, Burla, 2021	Ongoing	
64	Ramkrishna Dandapat	Anshuman Mishra	Effect of confinement on concrete column subjected to elevated temperature.	VSSUT Burla, 2022	Ongoing	

Assessment	5
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4.8.2. Sponsored Research (10)

Funded research from outside:

Sl. No	Name of the Project	Funding Agency	COST	DATE
1	Development of Cement-Less Concrete Utilizing Industrial Solid Waste as Precursor and Rice Husk Ash as Source for Production of Alkali Activators	DST, Govt. of Odisha	9,80,000	2020-2022
2	Sustainable construction practice through preparation of precast concrete blocks using construction-demolition and plastic wast	DST, Govt. of India	28,19,703	2021-24
3	Use of FRP based Concrete column at elevated temprature	DST, Govt. of Odisha	4,46,000	2022-2023
4	Assessment of the potential for river bank filtration in the State of Odisha	AICTE, India	10,00,000	2019-2023
		Total	52,45,703	

Assessment	10
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4.8.3. Development activities (5)

(i) Product Development: faculties guide students for product development

Sl. No	Name of the Project	Cost	Date
1	Working model for measurement of corrosion resistance of concrete	1,00,000/-	2019-21
2	Geopolymer brick	13/- per piece	2022-23
3	Geopolymer paver block	26/- per piece	2022-23

(ii) Research Laboratory:

The objective of this lab is to motivate and encourage students to do their major and mini project. This lab provides a place where the students can make projects while working in groups and as an individual. Laboratory equipped with all facilities required for the project work like advance software and high performance i7 PCs. All PCs having internet connection and Wi-Fi facility is also provided in a Lab. It is maintained by the respective Lab Assistant under the guidance of Lab In charge. The project laboratory of the department offers the opportunity to gain valuable hands-on experience where students become proficient in Technical Training, Mathematical Skills, Problem-Solving, Decision-Making skills are needed in the field of Computer Engineering. The Project Laboratory has a key role in promoting practical learning experience, where students develop creative proposals and execute their final projects. For this reason, the Department of Computer Engineering has a separate Project laboratory within its premises. Professional personnel are always available to give help and support to students in projects and Experiments. Hence a free access policy beyond the regular lab hours in a safe and secure Facilities and Utilizations is available.

Instructional materials: Faculty members have created Lab Manuals for each Laboratory which helps students to perform practical during Laboratory hours.

(iii) Working models & charts:

- Charts prepared by faculty members are displayed in the respective laboratory.
- Knowledge wall flex boards are displayed outside each laboratory.

Assessment	10
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4.8.4. Consultancy (from Industry) (5)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Financial Year	Name of faculty (Chief Consultant)	Funding Agency	Title of Consultancy Project	Amount received (in Rupees)	Remarks
2020-2021	Dr. A. K. Nayak & Prof. R.K Panigrahi	CPWD, Bhubaneswar	The roof of central portion of structure is to be design with steel truss	943410/-	Ongoing
2020-2021	Dr. A. K. Nayak & Prof. R.K Panigrahi	CPWD, Bhubaneswar	Proof checking and structural design	303201/-	Ongoing
2020-2021	Dr. A. K. Nayak & Prof. R.K Panigrahi	Aankhe Engineering, Cuttack	Proof checking and structural design	100555/-	Completed
2020-2021	Dr. A. K. Nayak & Prof. R.K Panigrahi	CPWD, Bhubaneswar	Proof checking and structural design	333646/-	Ongoing
2020-2021	Dr. A. K. Nayak & Prof. R.K. Panigrahi	CPWD, Bhubaneswar	Structural & proof checking	188548/-	Ongoing

2020-2021	Dr. S. K. Panigrahi	Bargarh Municipality	Structural vetting	29500/-	completed
2020-2021	All PICs	Different Agencies	Testing of Material and Report Preparation	2750859/-	Completed
2020-2021	All PICs	Different Agencies	Testing of Material and Report Preparation	1029321/-	Completed
2020-2021	Dr. A. K. Nayak & Prof. R.K Panigrahi	CPWD, Bhubaneswar	1000 seated capacity Convention Hall for Fakir Mohan University at Balasore	943410/-	Ongoing
2020-2021	Prof. A. N. Nayak	OPGC Banharpali	NDT evaluation of defect and remedial measure for rectification of distressed portion of track Hooper	11800	Completed
2020-2021	Prof. A. N. Nayak	RBI, Bhubaneswar	Examining Resistance capacity of Existing Lifts of Bank Main office premised of RBI, Bhubaneswar	47200/-	Ongoing
2020-2021	Prof. R.R. Dash	TATA BSL Limited	Environment Audit	694000	Ongoing
2021-2022	Prof. R.R. Dash	Dalmia Cement Limited	Environment Audit	186440/-	Ongoing
2021-2022	Prof. S.K. Patro	SE PH Sub Div, Sambalpur	observation on structural design drawing VSSMCH Burla	49560/-	Ongoing
2021-2022	Dr. S.K. Panigrahi	SE PH Sub Div, Sambalpur	Structural Drawing 5,00,000 ltr capacity RCC UGR of Bargarh Municipality	59000/-	Completed
2020-2021	Prof. R.K. Panigrahi	Executive Engineer, CPWD	Academic building Fakir Mohan University Balasore	303201/-	Ongoing
2021-2022	Dr. S.K. Panigrahi	Creative Builders & Consultants Bhubaneswar	Vetting of Structural drawings of E.Co. Railway, Sambalpur Division	106200/-	Completed
2021-2022	Prof. R.K Panigrahi	Executive Engineer-II, CPWD Bhubaneswar	Construction of Academic Administrative block and Guest House of NIT Rourkela at Bhubaneswar	1186563/-	Ongoing
2021-2020	Prof. A. N. Nayak	Executive Engineer Kalahandi RWS & S Division Bhawanipatna	Design & Drawing for EXECUTION OF RURAL PIPED WATER SUPPLY TO RWS & S Division Bhawanipatna on Turnkey basis (Package-VII)	88500/-	Completed
2019-2020	Prof. A. N. Nayak	PMGSY	Project Proposal for the state under PMGSY Payment	919256/-	Completed
2020-2021	Prof. A. N. Nayak	PMGSY	Project Proposal for the state under PMGSY Payment	597534/-	Completed
2020-2021	Prof. A. N. Nayak	PMGSY	Project Proposal for the state under PMGSY Payment	691694/-	Completed
2020-2021	Prof. A. N. Nayak	PMGSY	Project Proposal for the state under PMGSY Payment	520163/-	Completed
2021-2022	Dr. S. K. Panigrahi	Octavo Solution Pvt Ltd	Vetting of Structural design and drawing Multi Utility building in Govt. medical college, Baripada	112000/-	Completed
2021-2022	Dr. S.K. Panigrahi	Octavo Solution Pvt Ltd	Vetting of Structural design and drawings for proposed new building in Govt. college campus, Koraput	88500/-	Completed
2021-2022	Dr. S. K. Panigrahi	Samal Engineering & Consultant	Construction of prposed Maintenance Building at Coaching Depot " Vetting of Structural design"	59000/-	Completed
2021-2022	Dr. S. K. Panigrahi	DSPACE	Vetting of Structural	17700/-	Completed

		CONSULTANTS P Ltd	design and drawing Mardarajpur zone vending		
2021-2022	Dr. S. K Panigrahi	Executive Engineer Bargarh Municipality	Vetting of Structural drawing and design minor bridge smashan ghat at Bargarh Municipality	29500/-	Completed
2021-2022	Prof. P. K. Pradhan	WAPCOS Limited	Construction, Renovation & Beautification of Bijli Pond project in sundargarh block	59000/-	Completed
2021-2022	Prof. P. K. Pradhan	AECS Limited	Vetting of Geotechnical Investigation report soil data work" construction of various building"	49560/-	Completed
2021-2022	Prof. R.K. Panigrahi	PH Sub Division, Burla	Design & Drawing of Pipe Flocculator SMC	70800/-	Completed
2021-2022	Prof. R.K Panigrahi	Executive Engineer CPWD, Bhubaneswar	Structural design academic block (G+4) FM University Balasore	759711/-	Completed
2021-2022	Dr. S. K. Panigrahi	SE PH Sub Div, Sambalpur	Structural Drawing 5,00,000 ltr capacity RCC UGR of Bargarh Municipality	59000/-	Completed
2021-2022	Prof. S.K. Patro	M/s PREETECH, BBSR	Structural Design for District Head quarter Hospital, Deogarh	1210644/-	Completed
2021-2022	Prof. S. K. Patro	SMC, Sambalpur	Structural drawing retaining wall work flyover service road	29500/-	Completed
2021-2022	Dr. S. K. Panigrahi	Rajkamal Builders Infrastructure P Ltd Sambalpur	Vetting	30680/-	Completed
2021-2022	Prof. A. N. Nayak	MCL, Burla	Residual strength of bricks	118000/-	Ongoing
2021-2022	Prof. R.K. Panigrahi	CPWD, Bhubaneswar	New academic Building of TPQA	402555/-	Ongoing
2021-2022	Prof. R.K Panigrahi	Triveni Civil Tech P Ltd	Construction of phase A & B Jawahar Navodaya Vidyalaya, Bhadrak	90800/-	Ongoing
2022-2023	Prof. R.K Panigrahi	CPWD AIIMS project Division	Design of toilet Block and box culvert at AIIMS Balasore	1.888	Ongoing
2022-2023	Prof. R.K Panigrahi	L C infra-Projects Pvt Ltd Bhubaneswar	Vetting of Construction of 130 MLD water treatment plant and its ancillary structures for improvement of water supply to Bhubaneswar city	4.72 Lakhs	On going
2022-2023	Prof. A. N. Nayak		Construction of 03 Nos of class rooms and multipurpose hall at Sri Aurobinda Intergal Education and Research	17700/-	Ongoing
2022-2023	Prof. A. N. Nayak		Technical Construction for the work Construction of Girls Hostel at Netaji Subash Chandra Bose College Sambalpur Under CSR of MCL	17700/-	Ongoing
2022-2023	Prof. S. K. Patro & Dr. B. Nanda		Vetting LIGG Hospital project at Pratapnagari, Besided NH-15 Cuttack - Bhubandswar Road with total area 14879.75 Sqm over plot area 6963.12 Sqm	567580/-	Ongoing
2022-2023	Prof. S. K. Patro & Dr. B. Nanda		Structural desing & drawing of 50KL UGR, 1 1000KL UGR,4 No.s 100 kL ESR Rasalpur , Palasia Maheswaar	236000/-	Ongoing

			Alabindha, Brtana Bartana Bhograi under of Balasore WESTEREND Infrastrucure, Balasore		
2022-2023	Prof. S. K. Patro & Prof. R.K Panigrahi		Constructiion of Office cum Residence (G+1) for Honorable Vice Chancellor, VSSUT, Burla, Sambalpur, Odisha	118000/-	Ongoing
2023-2024	Prof. S. K. Patro & Dr. B. Nanda		Vetting of Drawing and design of the Proposed GATE of SMC office, Durgapali Word No-15	59000/-	Ongoing
2023-2024	Prof. S. K. Patro & Dr. B. Nanda		Vetting of Drawing and Design of Structure	59000/-	Ongoing
2023-2024	Prof R.K Panigrahi		Construction of 3R Type Faculty Quarter (S+6) at VSSUT, Burla CPWD Sambalpur	1102586/-	Ongoing
2023-2024	Prof. R.K Panigrahi		Proof Checking/ Veting Monalisha Patra Ar. Mitali Monalisha Patra		Ongoing
2023-2024	Prof. R.K Panigrahi		Third party Quality Assurance (Civil, Electrical Mechanical) of Construction New Administrative Building(S+8) including internal water supply, Sanitary, Installation Drainage and providieng, Bhubaneswar	188223/-	Ongoing
2023-2024	Prof. R.K Panigrahi		Construction of Market Complex in Church Line under Padampur NAC of District for the year 2023-24	194558/-	Ongoing
2023-2024	Prof. R.K Panigrahi		Detailed Third Quality Assurance (Civil, Electrical & Mechanical) of Construction " New Administrative Building (S+8) including Internal Water Supply, Sanitary, Installation, Drainage and Providing E&M services at AIIMS Sijua, Bhubaneswar, Odisha, TPQA	239758/-	Ongoing
2023-2024	Prof. A.N. Nayak		For NDT of Bank's Properties at Staff Quarters Vidyut Marg (SQVM), RBI, Bhubaneswar	113280/-	Ongoing

Assessment	10
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4.9. Faculty Performance Appraisal and Development System (FPADS) (5)

(i) System for Faculty Appraisal: Focus on Quality

The Internal Quality Assurance Cell of VSSUT is performing following tasks on regular basis:

1. Improvement in quality of teaching and research by regular inputs to all concerned based on feedback from students.
2. Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff.
3. Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak.

(ii) Assessment of the Performance: Teaching, Learning and Evaluation Related Activities

Teaching

- Classes taught includes session tutorials, lab and other teaching related
 - activities.
- Regular and punctuality to class, remedial teaching, clarifying doubts,
 - counselling and mentoring, additional teaching etc.
- Examination, Evaluation Activities and Administrative Support & Participation
 - in Students' Co-curricular & Extra-curricular Activities:

Involvement in students related activities/research activities

- a) Administrative responsibilities such as Head/ Chairperson /Dean/ Director/ Coordinator, Warden etc.
- b) Examination and evaluation duties assigned by the University or attending the examination paper evaluation.
- c) Student related co-curricular, extension and field-based activities such as students' clubs, career counselling, study visits, students' seminars, and other events, cultural, sports, NCC, NSS and community services.
- d) Organizing seminars/conferences/workshops, other universities activities.
- e) Evidence of actively involved in guiding Ph.D. students.
- f) Conducting minor or major research project sponsored by national or international agencies.
- g) At least one single or joint publication in peer reviewed or UGC list of Journals.
- h) Presentation of papers and chairing of sessions
- i) Guiding and carrying out research projects and publishing the research output in national and international journals.

(iii) Implementation

- The Department follows the UGC approved self-appraisal method to evaluate teachers regarding research and other activities.
- The IQAC regularly monitors and collects the annual self-appraisals in the prescribed format from each Faculty member, duly forwarded by the Head of the Departments and respective Deans.
- The appraisals also help to assess the merit of the faculty members in applying for personal promotions.

A well-defined Preformat of self- appraisal report for the faculty is available on the institute web site. It consists of academic, research, curricular and extra-curricular contributions for the academic year. It is filled by the faculty and submitted in the department.

The faculty submits self- appraisal reports for the academic year which is evaluated by the head of the department.

The contents of the self-appraisal are mentioned below:

- a. Steps taken to advance technical knowledge
- b. Research contribution & other publications
- c. Capacity to guide research UG/PG/Ph.D.
- d. Development work in the Lab/Workshop
- e. Contributions to the Department/College
- f. Any other additional information related to their academic excellence.

Assessment	5
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4.10. Visiting/Adjunct/Emeritus Faculty etc. (5)

Sl. No.	Visiting Faculty	Designation	Contents	Year	Duration (Hours)
1.	Dr. Charle Severance	Associate Professor, University of Michigan, USA	Empowering Educator: Bridging Academia and Industry Through Programming	2024	8hrs
2.	Dr. Akshya Kumar Swain	Professor, University of Auckland, NZ	Interaction	2024	3hrs
3.	Dr. Dillip Debnath, Dr. Tarapasanna Dash, Mrs Nirupam	Professor, AICTE	Universal Human Values	2023	54hrs
4.	Er. Sunil Kumar Shadangi	General Manager, Hindalco Industries Limited, Odisha	Interaction	2022	3hrs
5.	Er. Jyotirmaya Behera	Superintending Engineer, Spillway Division Govt of Odisha	Interaction	2022	3hrs
6.	Mr. Predeep Kumar Sahoo	OAS, SMC Sambalpur , Govt of Odisha	Interaction	2022	3hrs
7.	Er. Rajdeep Padhee	General Manager, Ultratech Cement	Surface cohesion of calcium silicate hydrate	2022	3hrs
8.	Er. Rakesh Panda	Asst. Env. Engg RO, SBP, SPCB	Wastewater Treatment Plant design	2022	3hrs

Assessment	5
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CRITERION 5	Resources	75
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5.1 Adequate and well-equipped laboratories, and technical manpower (25)

Table B.5.1

Sl. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Hydraulics Flow Lab	35	ADV, Flow tracker, Current meter, Pitot tube, Pipe testing apparatus	Six Days	Er. G. Suna	Sr. Instructor	Diploma
2.	Structural Engg. Lab	35	Vibration analyzer,	Six Days	Er. N. K. Mishra	Sr. Instructor	M. Tech
3.	Concrete Lab	35	RCPT, UPV, Rebound hammer, Corrosion resistance	Six Days	Er. B.K. Ojha	Sr. Instructor	Diploma
4.	Geotechnical Engg. Lab	35	Digital Triaxial, large direct shear, UCS, Compaction	Six Days	Er. K. P. Khandit	Sr. Instructor	M. Tech
5.	Environmental Engg. Lab	35	GC-MS, UV Spectrometer, BOD Incubator, COD INCUBATOR, Flame photometer, muffle furnace	Six Days	Er. A. K. Satapathy	Sr. Instructor	M. Tech
6.	Highway Lab	35	Rotating machine, impact testing machine, Los Angeles Abrasion Testing Machine, Marshal testing machine	Six Days	Er. N. K. Mishra	Sr. Instructor	M. Tech
7.	Survey Lab	35	EDM, Total station, DGPS, ETS, Digital Theodolites, Auto levels	Six Days	Er. B.K. Ojha	Sr. Instructor	Diploma

Assessment	25
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5.2. Laboratories maintenance and overall ambiance (5)

- Sufficient technical staff is available to run the course laboratories.
- Each course specific lab has a qualified supporting staff to guide the students.

Assessment	5
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5.3. Safety measures in laboratories (5)

Table B.5.3

Sr. No.	Name of the Laboratory	Safety measures
1.	Structural Engg. Lab	Lab coats; Protective gloves; Fire extinguishers; Dust proof Mask First aid kits
2.	Concrete Lab	Lab coats; Protective gloves; Fire extinguishers; Dust proof Mask First aid kits
3.	Geotechnical Engg. Lab	Lab coats; Protective gloves; Fire extinguishers; Dust proof Mask First aid kits
4.	Environmental Engg. Lab	Lab coats; Protective gloves; Fire extinguishers; Dust proof Mask First aid kits Laboratory-safe refrigerators
5.	Highway Lab	Lab coats; Protective gloves; Fire extinguishers; Dust proof Mask

		First aid kits
6.	Hydraulics Flow Lab	Safety Shoes; Protective gloves; Fire extinguishers; First aid kits
7.	Survey Lab	First aid kits; Survey Umbrella; Fire extinguishers; Safety Shoes

Assessment	5
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5.4. Project laboratory (15)

Facilities & Utilization

The Department of Civil Engineering maintains unique Projects Laboratories to provide a platform for students to work in their research and innovation projects. The laboratories have shelves for storage and workbenches. The students have following regular and additional facilities for the Project work in different specializations of Civil Engineering department.

Sl. No.	LAB Name	Regular Facilities	Utilization
1	Hydraulics Flow Lab	Point Gauge (30cm, 50cm, 100cm) Electrical Point gauge (1m) Vernier type specification	To measure flow depth
2		Piezometers	To measure pressure head
3		Stopwatch	To record time during experiment
4		Differential U- tube Manometer	To measure differential pressure
5		Venturi meter	To measure discharge in pipes
6		Orifice meter	
7		Rotameter	
8		Triangular and Rectangular notches	To measure discharge in open channels
9		Bernoulli's apparatus	To verify Bernoulli's Theorem
10		Pipe friction apparatus	To measure friction factor
11		Bend meter	To measure minor bend loss
12		Metacentric height apparatus	To do stability analysis of floating body
13		Reynold's Apparatus	To visualize laminar, transition and turbulent pipe flow
14	GTE Lab	Density bottle of 100 ml capacity	To determine specific gravity of soil particles
15		Pycnometer	To determine specific gravity and water content both
16		Hydrometer	To determine grain size distribution of fine grained soil
17		Hydrometer Glass Jar	To suspend soil hydrometer in sodium hexametaphosphate solution for determining amount of soil particles in a dispersed suspension
18		Liquid Limit Device	To determine the moisture content at which clay soil pass from a plastic to a liquid state
19		Field Density Determination by Sand Replacement Method	To determine in situ dry density of soil
20		Field Density Determination by Core Cutter Method	To determine in situ dry density of soil, specifically in fine grained cohesive soils without stones
21		Standard Proctor Test	To determine the point at which soils can most efficiently be compacted using construction equipment, based on their optimal moisture content and maximum dry density

22		Shrinkage Limit Device	To determine shrinkage limit and to calculate other shrinkage factors like shrinkage ratio, shrinkage index and volumetric shrinkage
23		Plastic Limit Apparatus	To determine plastic limit of soil
24		Moisture Cans	To determine moisture content
25		Electronics Balance with battery backup	To measure the weight
26		Unconfined Compression Testing Apparatus	To measure shear strength of clayey soil
27		Standard IS Sieves	To determine particle size
28		Enamel Tray (15inch x 15inch)	Used for sorting, arranging, and preparing materials
29	Concrete Lab	Water Bath	Heating laboratory reagent
30		Flexural Testing Machine	To measure flexural strength
31		Digital Compression Testing Machine	To measure compressive strength
32		Sieve Shaker	To determine particle size
33		Briquette Tensile Testing Machine	To measure tensile strength
34		Compacting Factor Apparatus	To determine workability
35		Table Vibrator-I & II	Used for compaction
36		Hot Air Oven	To provide high temperature
37		Compression Testing Machine	To measure compressive strength
38		V-Funnel	To determine workability
39		L-Box	To determine workability
40	Structural Engg. Lab	Micro meter outside	To measure the thickness of small parts
41		Digital strain indicator	Direct measurement of strain
42		Begg's deformation	To determine reactions of statically indeterminate structure
43		UTM (100-ton capacity)	Materials test frame
44		Control panel with PC interface of UTM	To visualize stress strain diagram
45		Arch Models (2, 3 hinged)	To measure thrust and radial shear
46		Dial Gauge	Measures small displacement of a spindle
47		Optical microscope	To magnify images of small sample
48		Uni directional vibration shaker	To give compaction
49		Manual Hydraulic shaker	Promotes particle movement through a stack of sieves which facilitates accurate particle separation
50	Survey Lab	Dumpy levels	Levelling instrument to locate the points in same horizontal plane
51		Theodolites	Used to measure horizontal and vertical angles
52		Sketch Master	A photogrammetric plotter through which the operator views the aerial survey photograph and the map simultaneously, manually tracing detail from the photograph onto the map
53		Sub-Tense Bar	To measure horizontal and vertical distance in places where chaining is impossible
54		Automatic Level	Professional levelling tool that is often used by land surveyors, builders, contractors, and engineers to provide consistent level accuracy
55		Film Strip cum slide projector	To view photographic slides by using optical and mechanical methods

56		Rotring NC Scriber	Electronically controlled drafting aid
57		Auto Level	To measure height differences and to transfer, measure and set heights
58	Environmental Engg. Lab	Benchtop meter	Electronic instrument used to measure the acidity and alkalinity of liquid or semi-solid samples
59		Electronic Balance	To measure the weight
60		Flame photometer and Turbidity meter	Flame photometer is used to determine the concentration of certain metal ions. Turbidity meter is used to measure how much light is either absorbed or scattered by suspended matter in water
61		Hot Air Oven	Use extremely high temperatures over several hours to destroy microorganisms and bacterial spores.
62		Mechanical Shaker	Automatic sieve shaker
63		Conductivity Meter	To quantify the number of anions and cations present in a water sample and/or estimate the quantity of total dissolved solids present in a sample.
64		DO meter	To quantify the amount of dissolved oxygen (DO) in surface waters or at different stages of wastewater treatment.
65		BOD incubator Shaker	Used for incubation of biochemical reactions while conducting organic chemical studies of wastewater.
66		COD setup	Measures how much dissolved oxygen (DO) is consumed by the oxidation of organic matter and inorganic compounds such as ammonia or nitrite under controlled conditions
67		Distillation Set	To heat the mixture and volatilize the components of a liquid mixture
68		pH meter	To measure acidity/alkalinity
69		Jar Test apparatus	For water treatment and testing
70		Sound Level Meter	Converts the sound signal to an equivalent electrical signal
71		Conductivity meter	To measure the conductivity
72		Flame photometer	To determine the concentration of certain metal ions

Sl. No.	LAB Name	Additional Research Facilities	Utilization
1	Hydraulics Flow Lab	Pitot tubes	To measure longitudinal velocity
2		ADV	To measure 3D point velocities
3		Flow Tracker	To measure 2D point velocities and discharge in open channels
4		Propeller and Cup type current meter	To measure velocity in River
5		Open channel flumes	To perform open channel experiments
6		Self-Recording Rain gage	To measure rainfall depth
7		Heleshaw Apparatus	To study various source and sink arrangements
8		Electrical Analogy Apparatus	To study the similarity between flow of electric current and flow of water through a closed conduit
9		Pipe testing apparatus	To test material properties of PVC pipes
10	GTE Lab	Three Gang Bench Type Consolidometer	Suitable for use with consolidation cells of various diameters and consolidation cells that are floating type of oedometer
11		Automatic Liquid Limit Cone Penetrometer	To determine liquid limit
12		Liquid Limit by Plummert Balance	To determine percentage of fine grains
13		Automatic Soil Compaction	To determine Optimum Moisture Content and Maximum

		Machine	Dry Density
14		Digital Triaxial test apparatus	To determine shear strength
15	Concrete Lab	Muffle Furnace-I & II	To measure the effect of high temperature
16		Vee-Bee Consistometer	To measure the workability
17		Humidity Chamber	Analyses the prolong effect of humidity
18		Heat of Hydration Machine	To measure the heat of hydration
19		Permeability Test Apparatus	To measure permeability
20	Structural Engg. Lab	Dynamic signal analyzer	To analyze acoustic and mechanical signals
21		Vibration analyzer setup	Separates vibration signals into amplitude and frequency components to recognize failures
22		Loading frame	Applying vertical force in triaxial and many other lab tests where vertical load must be applied
23	Survey Lab	Micro Optic Theodolite	Used in detail surveys with less accuracy
24		Electronic Total Station	For modern surveying and building construction
25		Digital Theodolites	Measures both horizontal and vertical angles
26		DGPS	Transmits correction signals to GPS navigation equipment
27	Environmental Engg. Lab	Respirable Dust Sampler	To quantify the risk of inhaling air from the atmosphere and determining whether respiratory is needed to breathe safely
28		UV-VIS Spectrophotometer	Measures number of discrete wavelengths of UV
29		Autoclave Vertical	To generate steam for creating pressure and building of heat
30		AA Spectrophotometer	Detects elements in either liquid or solid samples
31		Pulverizer	To pulverize pieces of coal into fine particles
32		Peristaltic Pump	Positive displacement pump used for pumping different fluids
33		Laminar Airflow Cabinet	
34		Bacteriological incubator	Used in drying of slides, tissue culture, incubation of antibody, crystallization, and micro biological determination
35		Vapour/Hydrate generator	Designed to prevent contamination of biological samples
36		Analytical Electronic High Precision Balance	To weigh
37		Double Stage Distillation Set	Water distillation in two stages
38		Gas Chromatograph and Mass Spectroscopy	To identify different substances within a test sample

Assessment	15
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5.5. Feedback analysis and reward /corrective measures taken, if any for resources (5)

a) Student's feedback

- It is a valuable for identifying areas for instructional improvement.
- The feedback is taken at the end of each semester.
- The HOD provides the suggestions for improvement based on the feedback of the students wherever needed.
- The format of the students' feedback is given below:

COURSE APPRAISAL/FEEDBACK FORM

COURSE CODE & TITLE:

YEAR

SEMESTER

INSTRUCTOR's NAME

PLEASE TICK IN THE APPROPRIATE BOX

SL No	Course organization	Range	5	4	3	2	1	
1	Preparation for the class	Excellent						Very poor
2	Input beyond Text Book							
3	Coverage of the Syllabus							
4	Quality of Tutorial/Home assignment							
	Presentation and interaction							
5	Clarity of Delivery	Excellent						Very poor
6	Student Participation							
7	Punctuality in taking class							
8	Quality of Board Work							
9	Availability for consultation							

Would you rate this course as one of the five best courses you have had so far? Yes/ no

If you have any further comments not covered by this questionnaire, please write below.

b) Feedback analysis

The feedback forms are collected and are submitted to the HOD for perusal. Depending upon the feedback, the HOD communicates the feedback to the respective faculty member to know their strengths and deficiencies to enhance their teaching skills. The HOD gives necessary suggestions, guidance, and advice for the areas where improvement is needed. The feedback remains strictly confidential between the HOD and the concerned faculty member so that the morale of the faculty does not get affected.

Assessment	5
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5.6. Program Specific Budget Allocation, Utilization (10)

Total Budget at program level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year – CFYm1 (Current Financial Year minus 1) CFYm2 (Current Financial Year minus 2)

CFYm3 (Current Financial Year minus 3)

Table B.5.6a

Total Budget in CFY (2023-24) :25,50,000		Actual expenditure in CFY (2023-24) :23,80,965		Total No. of students in CFY (2023-24): 500
Non-recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
20,00,000	5,50,000	18,70,730	5,10,235	4762
Total Budget in CFY (2022-23) :39,10,000		Actual expenditure in CFY (2022-23): 35,46,020		Total No. of students in CFYm1 (2022-23): 512
Non-recurring	Recurring	Non-Recurring	Recurring	Expenditure per student

60,000	36,10,000	55,020	34,46,420	6926
Total Budget in CFY (2021-22): 22,50,000		Actual expenditure in CFY (2021- 22):21,35,940		Total No. of students in CFYm2 (2021- 22): 544
Non-Recurring	Recurring	Non- Recurring	Recurring	Expenditure per student
	22,50,000		21,35,940	3926
Total Budget in CFY (2020-21): 3,40,000		Actual expenditure in CFY (2020-21): 2,81,900		Total No. of students in CFYm3(2020- 21): 569
Non-Recurring	Recurring	Non- Recurring	Recurring	Expenditure per student
2,00,000	1,40,000	1,59,400	1,22,500	496

Table B.5.6b

Items	Budgeted in CFY 2023-24 in Rs.	Actual expenses in CFY (till ...) 2023-24 in Rs.	Budgeted in CFYm1 2022-23 in Rs.	Actual Expenses in CFYm1 2022-23 in Rs.	Budgeted in CFYm2 2021-22 in Rs.	Actual Expenses in CFYm2 2021-22 in Rs.	Budgeted in CFYm3 2020-21 in Rs.	Actual Expenses in CFYm3 2020-21 in Rs.
Laboratory equipment	20,00,000	18,70,730	60,000	55,020			2,00,000	1,59,400
Software								
Laboratory consumable	3,00,000	2,98,335	3,00,000	2,84,100	60,000	56,040	20,000	17,700
Maintenance and spares	20,000	18,000	20,000	16,500	20,000	17,300	20,000	17,800
R & D	2,00,000	1,85,000	2,00,000	1,70,000	1,50,000	1,30,000	1,00,000	87,000
Training and Travel	30,000	8,900	30,000	26,800	20,000	12,600		
Miscellaneous expenses *			30,00,000	28,94,000	20,00,000	19,20,000		
Total	25,50,000	23,80,965	36,10,000	34,46,420	22,50,000	21,35,940	3,40,000	2,81,900

Assessment	10
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5.6.1. Adequacy of budget allocation (5)

(Institution needs to justify that the budget allocated over the assessment years was adequate for the program)

Financial Year	Budget	Recurring	Non-Recurring	Expenditure	Recurring	Non-Recurring
2023-24	25,50,000	5,50,000	20,00,000	23,80,965	5,10,235	18,70,730
2022-23	39,10,000	36,10,000	60,000	35,46,020	34,46,420	55,020
2021-22	22,50,000	22,50,000		21,35,940	21,35,940	
2020-21	3,40,000	1,40,000	2,00,000	2,81,900	1,22,500	1,59,400

Assessment	5
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5.6.2. Utilization of allocated funds (5)

(Institution needs to state how the budget was utilized during the last three assessment years)

Financial Year	Budget	Expenditure	Percentage of Utilization
2023-24	25,50,000	23,80,965	93%
2022-23	39,10,000	35,46,020	91%
2021-22	22,50,000	21,35,940	95%
2020-21	3,40,000	2,81,900	83%

The Funds allocated have been well utilized for:

- Developing lab facilities.
- Additional labs were setup.
- New equipment was added to different labs.
- Library and Internet facilities were improved.
- Maintenance of lab equipment.
- Training programs for faculty members and non-teaching staffs.
- Extracurricular activities of students.

Assessment	5
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5.7. Library and Internet (10)

5.7.1. Quality of learning resources (hard/soft) (6)

- The University Library is the largest technical library of the State. A new separate library building has come up with the assistance from U.G.C. and State Govt. and the library has started functioning in its newly constructed building since July, 1997.
- The VSSUT library supports the Teaching, Research & and other related programs of the institute. The library has a good collection of documents that comprises of Books, Journals, Thesis, Video cassettes, Learning Resources (LRs) & Compact discs in the field of Engineering, Science, Management, Literature & Humanities.
- The library has computerized data of whole of its collection using KOHA software and is in the process of computerizing all its activities.
- Our university is now a member of Indian National Digital Library in Engineering Science and Technology with financial support provided by the All-India Council of Technical Education. As such online access to the journals of ASCE, ASME and IEL is available to all the members of the library. Further under the auspices of the INDEST we have access to JET (J-Gate Engineering and Technology). Due to financial constraints imposed by our funding authority (the Government of Orissa) we have been forced to discontinue subscription to all foreign journals from the Calendar year 2004. However, the Library subscribes to twenty-seven (27) National journals.
- The current periodicals are displayed in the Journal Hall of the Library.

Library Established in	July, 1997
Library Members	5600
Number of Books	70434

Reprographic facility	Xeroxing
Reading Room seating Capacity	150
Multimedia	11
Timing during working days	10 AM to 8PM

Layout and Floor plan

The new library building is a three storied one having area of 10,900 sq. ft. The different sections of the library have been planned in different floors. The ground floor is used for the Circulation Section and the General book Bank. The first floor houses the Journal Section, Reference Section, Reprographic Section, and the Administrative Section of the Library. The top floor is used for Text Book Section. There is a reading hall with capacity for 100 students in this floor. A portion of this floor is used for housing the SC/ST Book Bank.

Library Mission

- To promote the technical knowledge
- Generation and application of knowledge & resources
- Effective dissemination of knowledge.
- Library automation and networking for remote access of online electronic resources.
- Improve the library resources.
- Enhance the student experience.
- Build the digital research environment.
- Provide convenient and customized access to information Library Resources

The library has a wide range of resources on Engineering, Sciences, Humanities & Social Sciences.

Collection	Size (number)
Books	70434
Bund volumes of journals	6000
Dissertation & Thesis	5000
General Book Bank	4000
Books in text book section	3000
Books in SC, ST section	11,600

E- Recourses

Library (Electronic/On-line resources/e-resource 2018)

E-library provides collaborative search of all type of e-resources/on-line resources such as e-journals and books.

E-Books

Central library procured different type of e-books, online books for students and faculty via IP range in the campus. The different departments can also be accessing various type of e-books such as text books and reference books in the electronic form.

SERVICES

Membership

All the students, faculty members, research scholars & administrative staff can register themselves for the

membership of the library. The membership form is available at the circulation counter and the same is required to be attested by the Head of the Department/Section.

Membership cards of students are renewed every year in the beginning of the academic session for which the students have to apply in the prescribed form available in the library.

Loan Privilege

Category	No of books	Tenure
Undergraduate Students	2 Books	for 2 weeks
P.G. Students	4 Books	for 1 week
Teachers	15 Books	for 5 for semester & 10 for 2 weeks
Others	2 Books	for 2 weeks

Our Team

Name	Designation
Dr Sunanda Patri	PIC, Library
Dr. Archita Nanda	Sr. Librarian

Assessment	6
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5.7.2. Internet (4)

- Name of the Internet provider: BSNL
- Available bandwidth: 1Gbps loose line
- Wi Fi availability: NO
- Internet access in labs, classrooms, library and offices of all Departments: YES (through LAN)
- Cyber Security measures: Firewall installed (Fortinet)

Assessment	4
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CRITERION 6	Continuous Improvement	75
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6.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

POs & PSOs Attainment Levels and Actions for improvement – CAYm1 only

Table B.6.1

POs	Target Level	Attainment Level	Observation
PO1: Statement as mentioned in Annexure I			
PO1	3.0	2.67	An expectation on PO1 is moderately obtained due to the weaker knowledge on basic concepts.
<p>Action 1: Additional practice problems to be solved for numerical subjects</p> <p>Action 2: Illustrations for various practical concepts will be given in classroom.</p> <p>Action 3: Conduction of activities like quiz and use of National Program on Technology Enhanced Learning video lectures during teaching.</p> <p>Action 4: Tutorials conducted focusing the knowledge of engineering fundamentals.</p> <p>Action 5: Webinars/Expert Lecture on latest technology to enhance engineering knowledge are planned</p>			
PO2: Statement as mentioned in Annexure I			
PO2	2.0	2.0	Contributing only a little to the attainment of PO2 due to the lack of practice in solving problems.
Action1: students will be motivated by explaining the mathematical application to engineering subjects.			
PO3: Statement as mentioned in Annexure I			
PO3	3.0	1.83	This attribute will be strengthened in higher semester
Action1: Organize an industrial visit to get familiar with engineering problems			
Action2: Students are encouraged to take on projects related to societal and environmental considerations.			
PO4: Statement as mentioned in Annexure I			
PO4	3.0	2.0	level is slightly attained due to the lack in ability to analyse and interpret the data.
Action1: students will be motivated to design some basic problem. They will be trained to solve the problem independently.			
PO5: Statement as mentioned in Annexure I			
PO5	3.0	1.17	The attainment level is revised
Action1: Effective utilization of modern tools like Virtual Lab, Agile basics, Google Quiz, Ppt YouTube videos, Google Websites, NPTEL Video Lectures, M.S Teams.			
Action2: To facilitate students for using modern online simulation software			
PO6: Statement as mentioned in Annexure I			
PO6	3.0	1.67	This attribute will be strengthened in higher semester
Action1: Activities related to techno-social and project-based learning to be organized through NSS and student chapters.			
PO7: Statement as mentioned in Annexure I			

PO7	3	1.83	This attribute will be strengthened in higher semester
Action1: Awareness through Lab Activity and Field Visit to explore the knowledge of Environment & Sustainability			
PO8: Statement as mentioned in Annexure I			
PO8	3	1	This attribute will be strengthened in higher semester
Action1: Organize expert lectures/ motivational talk to overcome above observation			
PO9: Statement as mentioned in Annexure I			
PO9	3	2	The attainment is moderate
Action1: Evaluation of student performance through Group activities/presentations.			
PO10: Statement as mentioned in Annexure I			
PO10	3	2	The attainment is moderate
Action1: Encouraging students through mentoring to improve verbal & written communication through practical activities/Group Discussion/Presentations/Reports.			
PO 11: Statement as mentioned in Annexure I			
PO11	3	2	The attainment is moderate
Action1: To create awareness among the students about project management principles while writing project reports.			
PO 12: Statement as mentioned in Annexure I			
PO12	3	1.67	This attribute will be strengthened in higher semester
Action1: More number of self-learning assignments to be given.			
Action2: Students are to be encourage to join and participate student professional chapter activities.			
PSO1: Students are able to devise, analyse and implement algorithms			
PSO 1	3.0	3.0	
Action1: Students are given more assignments on implementation of algorithms.			
PSO2: Students are able to exhibit their IT based knowledge for the development of society			
PSO 2	3.0	3.0	
Action1: Students are guided to participate in various online certification courses.			
PSO3: Enhance communication and leadership skills to get good position in National and International Organizations			
PSO 3	3.0	3.0	
Action1: Guidance sessions are planned to make students mentored for various state and national level competition.			
Assessment		30	

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

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

(i) Academic Audit system:

One Academic Audits per year. It is done in two stages. First stage audit is done by internal committee members from another department at VSSUT Burla. Then in next step the audit is verified by the external committee members from various reputed institute.

(ii) Conduct Mechanism:

Subject Course files (syllabus, lesson plan, university question paper, questions bank with answers) log books, track records and Lab manuals are checked during the academic audit by the auditors. Noncompliance report is filed.

(iii) Action plan:

Noncompliance reports are given for the deviations and corrections are made for closing the report.

(iv) Implementation and effectiveness

- University syllabus and lesson plan of the corresponding subjects will be verified.
- Hand written notes of the corresponding subjects maybe verified.
- Three years previous university question papers will be verified.
- Logbook of the subject will be verified.
- The syllabus coverage by the staff will be checked according to the lesson plan and the timetable.
- Internal assessment marks and question papers will be checked.
- Special class related information will be checked.
- The log book of the Lab sessions will be verified
- The syllabus coverage of the Lab classes will be verified according to the syllabus and the timetable.
- It helps the teaching and learning process effectively.

Assessment	10
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6.3 Improvement in Placement, Higher Studies, and Entrepreneurship (15)

Assessment is based on improvement in:

- *Placement: number, quality placement, core industry, pay packages etc.*
- *Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions*
- *Entrepreneurs*

(i) Improvement in Placement

- Students are encouraged to enroll with B.Tech guru portal for taking up N number of online tests.
- Soft skills training (Aptitude training, Group discussions, etc) are conducted by alumni.
- Technical training for core subjects will be conducted by faculty members.
- For improvement in the communication skills, comprehension classes will be conducted for the students.
- Mock interviews will be conducted by the faculty members.

- Special coaching for slow learners regarding placement training will be given by the toppers.
- For better performance in Aptitude tests, repeated test and coaching are given.

(ii) Higher Studies:

- Career guidance programme is conducted.
- Students are motivated to go for higher studies.
- Students are guided to prepare for competitive exams like GRE, GMAT, GATE and TOEFEL.
- The students are motivated through guest lecturers to go for higher studies in India and abroad.
- The Letter of Recommendation is verified and given by the faculty members to students to pursue their higher studies in various Universities.

(iii) Entrepreneurship:

- To develop a base for students to identify their area of interest, to kindle the spirit of ownership and to develop their skills to become a good entrepreneur.
- Guest lectures are organized to provide information to the students as to how to develop a strategy and acquire a knowledge base.
- Industrial visits will be arranged to enhanced entrepreneurship.

Assessment	15
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6.4 Improvement in the quality of students admitted to the program (10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

Table B.6.4

Item	CAY	CAYm1	CAYm2
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted		
	Opening Score/Rank		
	Closing Score/Rank		
State/ Institute/ Level Entrance Examination/ Others (Name of the Entrance Examination)	No. of Students admitted	143	140
	Opening Score/Rank	123902	116147
	Closing Score/Rank	753466	741937
Name of the Entrance Examination for Lateral Entry or lateral entry details	No. of Students admitted	11	13
	Opening Score/Rank	22	28
	Closing Score/Rank	397	224
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Mathematics)			

Assessment	10
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6.5 Remedial action taken on the observations made during last accreditation visit/New initiatives taken/ New Facilities Introduced/ Improvement made after last visit. (10)

Criterion 1: Vision, Mission, and Programme educational objectives

- General Remarks: Vision, Mission, and Programme educational objectives are well defined
- Remedial action taken: Continuous effort is going on to improve.

Criterion 2: Programme Outcome

- General Remarks: More effort may be made to involve large number of stakeholders
- Remedial action taken: The programme outcomes redefined in new syllabus.

Criterion 3: Programme Curriculum

- General Remarks: It is noticed that in syllabus of some the courses, there is obsolesce in content. It is observed that in some of the course content beyond syllabus is very limited to Pos and Cos.
- Remedial action taken: Course content of the syllabus is modified with the consultation of outside faculties from reputed institute and it was passed in Board of Studies.

Criterion 4: Student Performance

- General Remarks: Involvement in professional activities such as entrepreneurship needs to be improved
- Remedial action taken: Guest lectures are organized to provide information to the students as to how to develop a strategy and acquire a knowledge base. Industrial visits are arranged to enhanced entrepreneurship.

Criterion 5: Faculty Contribution:

- General Remarks: The student teacher ratio, faculty retention, FIPR, R&D, FRDC, and interaction with outside world need to be strengthened.
- Remedial action taken: Guest faculties are appointed to maintain the student teacher ratio. Faculty development programme is arranged to enhance the knowledge. Also, faculties and research scholars are motivated to attained national and international conferences.

Criterion 6: Facilities and technical support

- General Remarks: The number of support staff is inadequate and recruitment at necessary level may done at earliest. Majority of the faculty have shared rooms with inadequate infrastructure.
- Remedial action taken: Recruitment at necessary level done in 2015, 2016 and 2017 to meet the requirement of sufficient number of staff. Separate building was constructed only for faculties. Laptops were given to individual faculties.

Criterion 7: Academic support unit and teaching learning process

- General Remarks: There is a need to provide carrier guidance and entrepreneur skill.
- Remedial action taken: Soft skills training's (Aptitude training, Group discussions, etc.) are conducted by alumni. Students are guided to prepare for competitive exams like GRE, GMAT, GATE and TOEFEL.

Criterion 8: Governance, Institutional support and financial resource

- General Remarks: Good governance and administrative set up are available. Library has number of text/Reference books. However proper budgeting procedures and transparency needs to be practiced.
- Remedial action taken: Each year review is done by the departmental to update the library.

Criterion 9: Continuous improvement

- General Remarks: There is a need to improve R&D and consultancy works. Since the last accreditation there has been significant improvement in SI, API and FQI
- Remedial action taken: Continuous effort is going on to improve R&D and consultancy works. The data are presented in this report.

Assessment	10
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VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA

ବୀର ସୁରେନ୍ଦ୍ର ସାଏ ବିଶ୍ୱବିଦ୍ୟାଳୟ

(A UGC Recognized State Government University by an Act of Assembly, Estd. -1956)

P.O. Engineering College, Burla, Dist: Sambalpur, Odisha, (India) -768 018

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Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date 06/03/2024

Place: VSSUT Burla.

Burla
(Prof. B. Majhi)

Signature & Name

Head of the Institution with seal

Vice-Chancellor

V.S.S. University of Technology; Odisha

Burla-768018

ANNEXURE I

(A) PROGRAM OUTCOMES Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, 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 OUTCOMES (PSOs) Program should specify 2-4 program specific outcomes.

- PSO1: Students are able to devise, analyse and implement algorithms
- PSO2: Students are able to exhibit their IT based knowledge for the development of society
- PSO3: Enhance communication and leadership skills to get good position in National and International Organizations.