



**SARASWATI EDUCATION SOCIETY'S
SARASWATI COLLEGE OF ENGINEERING
KHARGHAR, NAVI MUMBAI- 410210**

**Department of Civil Engineering
Action taken based on feedback from students (CO & PO)
Academic Year :2023-24 (ODD)**

Summary of Feedback:

Feedbacks collected through course exit forms were analyzed and necessary actions which are useful for students were planned and conducted. Abstract of suggestions obtained from the stakeholders to enhance the employability of the student are discusses below.

Action Taken:

Based on suggestions, Action taken is mentioned below.

Subject	Faculty Name	Feedback/suggestions	Action Taken	Date
ACT	Prof. Deepali Padatara	Practical knowledge is required	Pre-Placement training for BE students	14/7/2023 17/8/2023 18/8/2023
SIWM	Prof. Aamita Lakhote	Introducing innovation technique	Expert talk on Case Studies on rain water harvesting and leak Detection technology.	22/3/2024



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Department of Civil Engineering

Academic Year: 2023-2024

Course Exit Report Analysis (SEM-III)

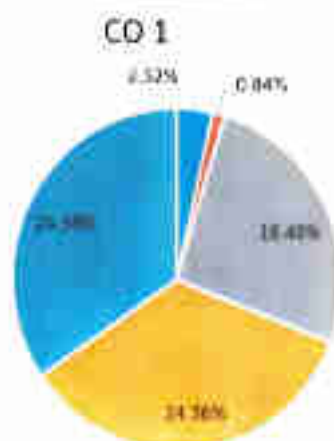
Subject – Architectural Planning & Design of Building (Theory)

Subject Teacher – Prof. Rachel Gitty/ Prof. Neha Changani

CO1: Apply the principles and code of practices for planning and designing of residential buildings, remember and intricate details of building design and drawing.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	1	0.84
3- Moderately	22	18.48
4- Mostly	29	24.36
5- Definitely	29	24.36
Total	84	100

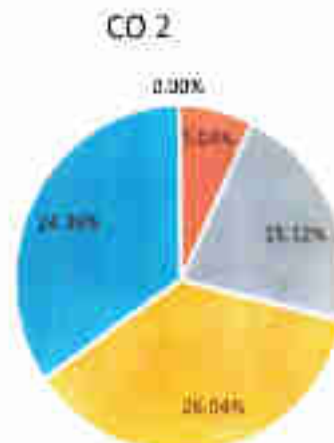
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO2: Learn how to apply professional act responsibly pertaining to the norms of building components design and drawing.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	6	5.04
3- Moderately	18	15.12
4- Mostly	31	26.04
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

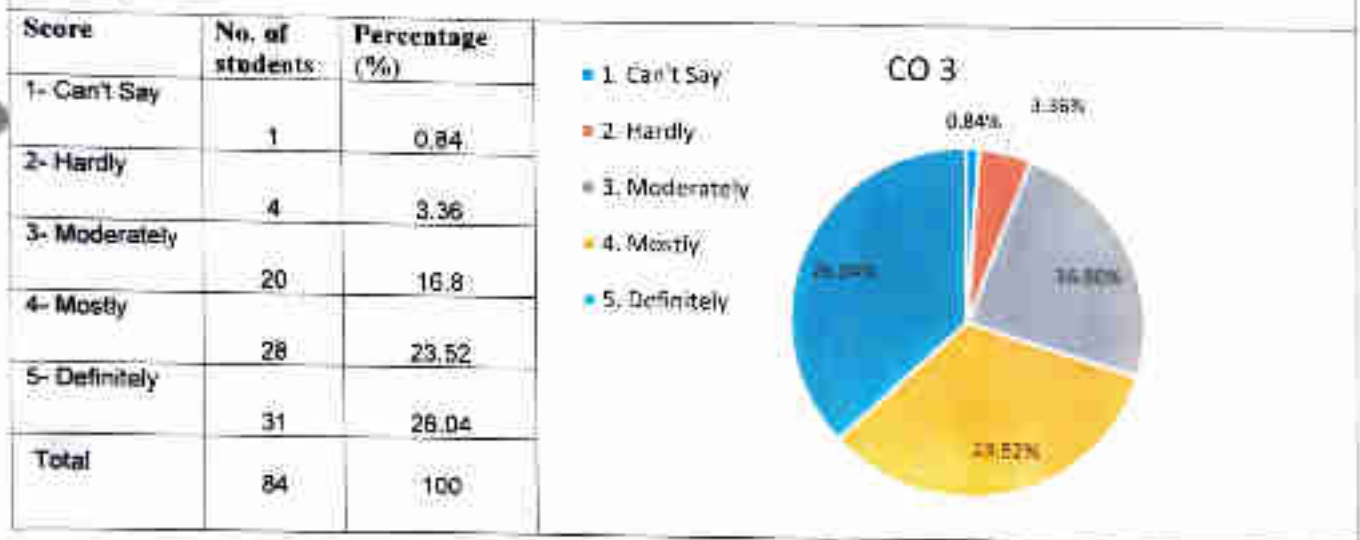
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

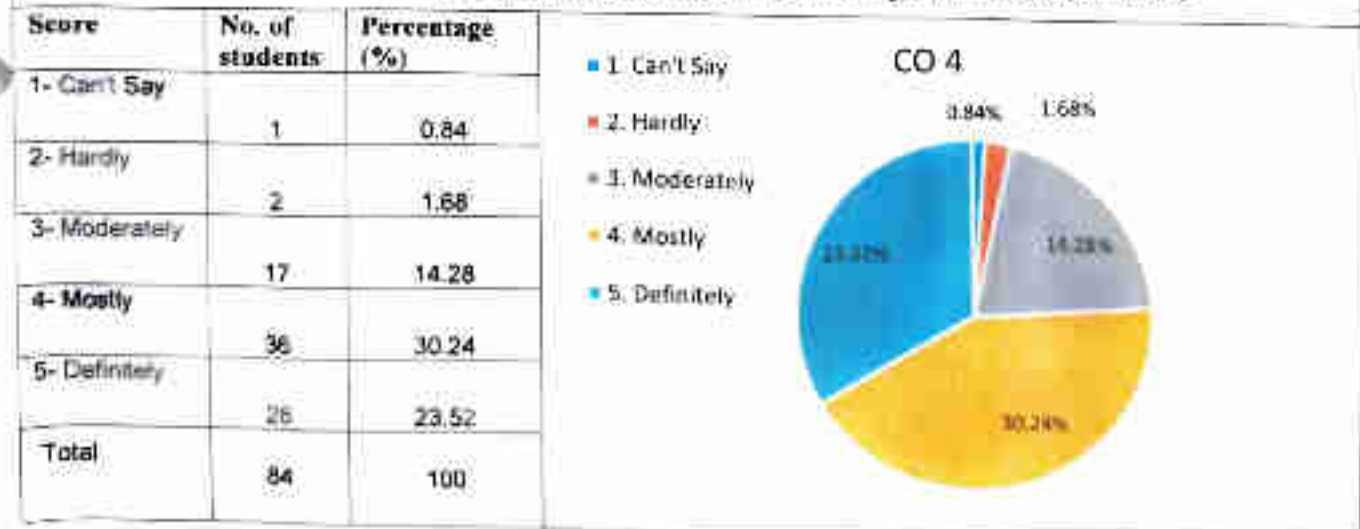
Subject – Architectural Planning & Design of Building (Theory)

Subject Teacher – Prof. Rachel Gitty/ Prof. Neha Changani

CO.3 Apply the concept of one point and two-point perspective drawing to create different views of building



CO.4 Understand the concept of town planning, architectural planning and built environment.





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

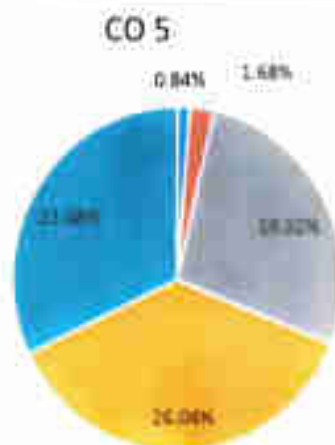
Subject – Architectural Planning & Design of Building (Theory)

Subject Teacher – Prof. Rachel Gitty/ Prof. Neha Changani

CO. 5 Understand the concept of Green buildings and various certification methods LEED, TERI, GRIHA, IGBC

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	2	1.68
3- Moderately	23	19.32
4- Mostly	31	26.04
5- Definitely	27	22.68
Total	84	100

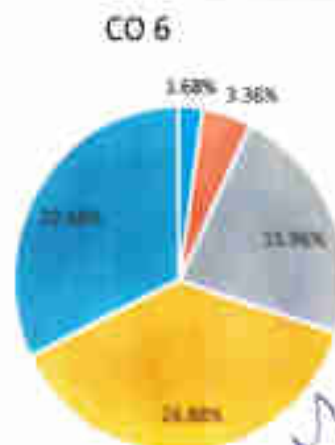
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 6 Apply the principles and code of practices for planning and designing of various public buildings and study the various components and building services as well as apply the knowledge for overall planning and design.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	4	3.36
3- Moderately	19	15.96
4- Mostly	32	26.88
5- Definitely	27	22.68
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Course Exit Report Analysis (SEM-III)

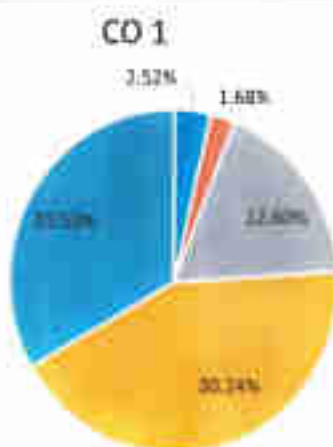
Subject – Architectural Planning & Design of Building (LAB)

Subject Teacher – Prof. Rachel Gitty/ Prof. Neha Changanani

CO.1 Apply the principles and code of practices for planning and designing of residential buildings, remember and intricate details of building design and drawing.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	2	1.68
3- Moderately	15	12.6
4- Mostly	35	30.24
5- Definitely	28	23.52
Total	84	100

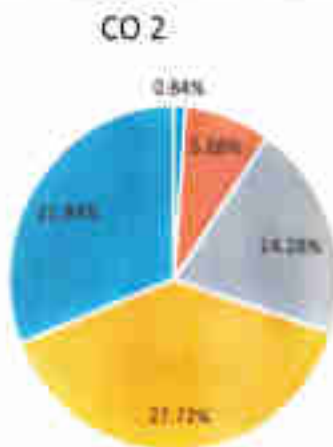
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2 Learn how to apply professional act responsibly pertaining to the norms of building components design and drawing.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	7	5.88
3- Moderately	17	14.28
4- Mostly	33	27.72
5- Definitely	26	21.84
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





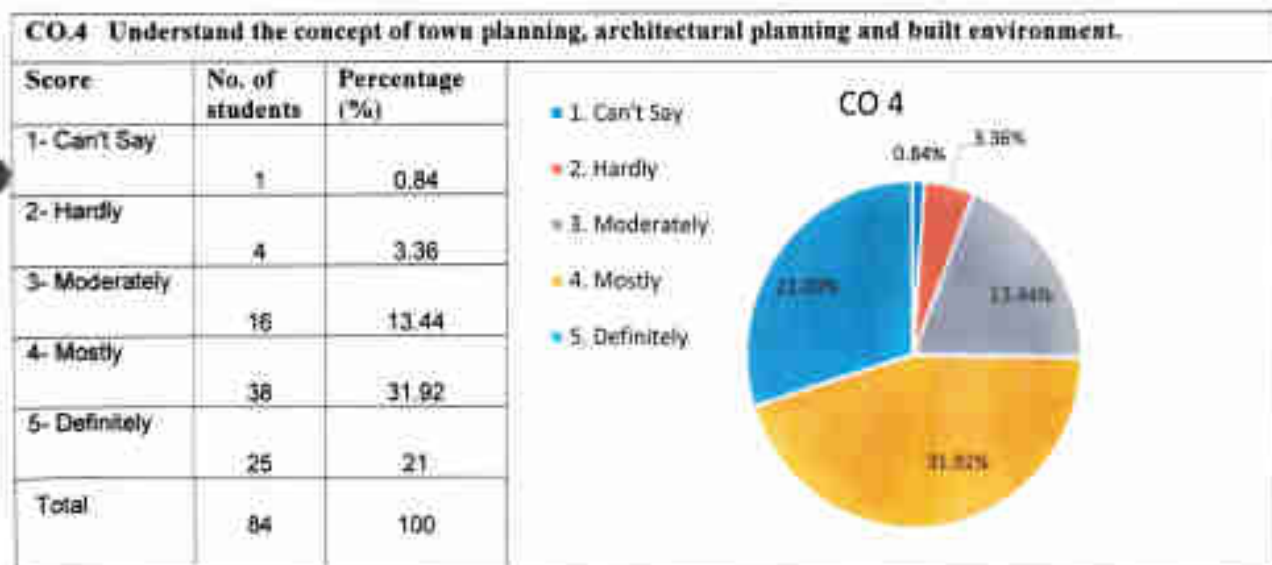
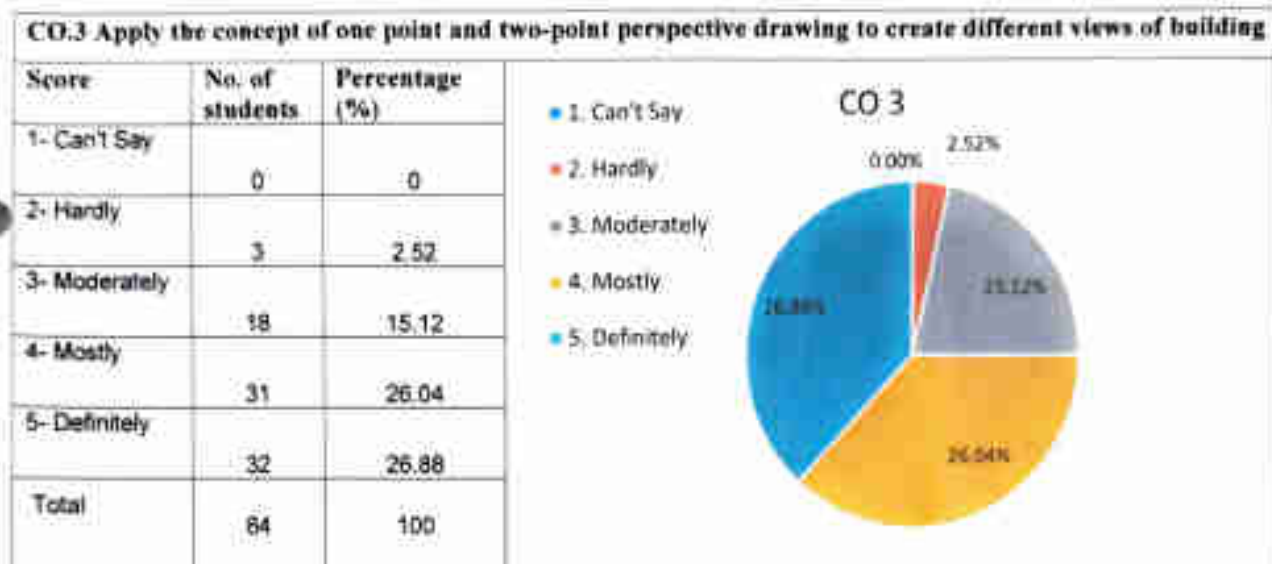
Department of Civil Engineering

Academic Year : 2023-2024

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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Architectural Planning & Design of Building (LAB)

Subject Teacher – Prof. Rachel Gitty/ Prof. Neha Changani

CO. 5 Understand the concept of Green buildings and various certification methods LEED, TERI, GRIHA, IGBC

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	2	1.68
3- Moderately	21	17.64
4- Mostly	30	25.2
5- Definitely	30	25.2
Total	84	100

CO 5

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO. 6. Apply the principles and code of practices for planning and designing of various public buildings and study the various components and building services as well as apply the knowledge for overall planning and design.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1.68
3- Moderately	21	17.64
4- Mostly	33	27.72
5- Definitely	28	23.52
Total	84	100

CO 6

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

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Course Exit Report Analysis (SEM-III)

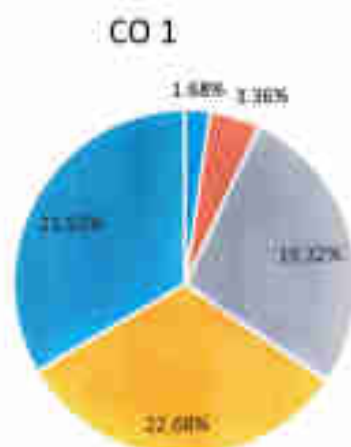
Subject – Mechanics of Solids (Theory)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO. 1. Evaluate stress - strain behavior of elastic members and thin cylinders subjected to internal pressure

Score	No. of students	Percentage (%)
1- Can't Say	2	1.88
2- Hardly	4	3.36
3- Moderately	23	19.32
4- Mostly	27	22.68
5- Definitely	26	23.52
Total	84	100

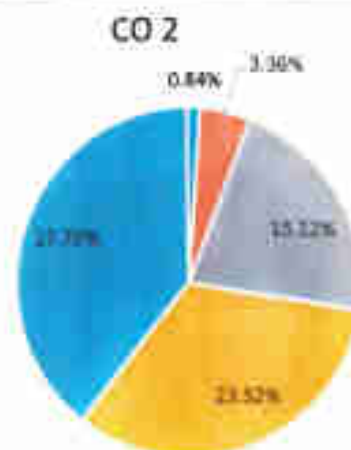
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 2. Draw variation of axial force, shear force and bending moment diagram for statically determinate beams and frames.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	4	3.36
3- Moderately	18	15.12
4- Mostly	28	23.52
5- Definitely	33	27.72
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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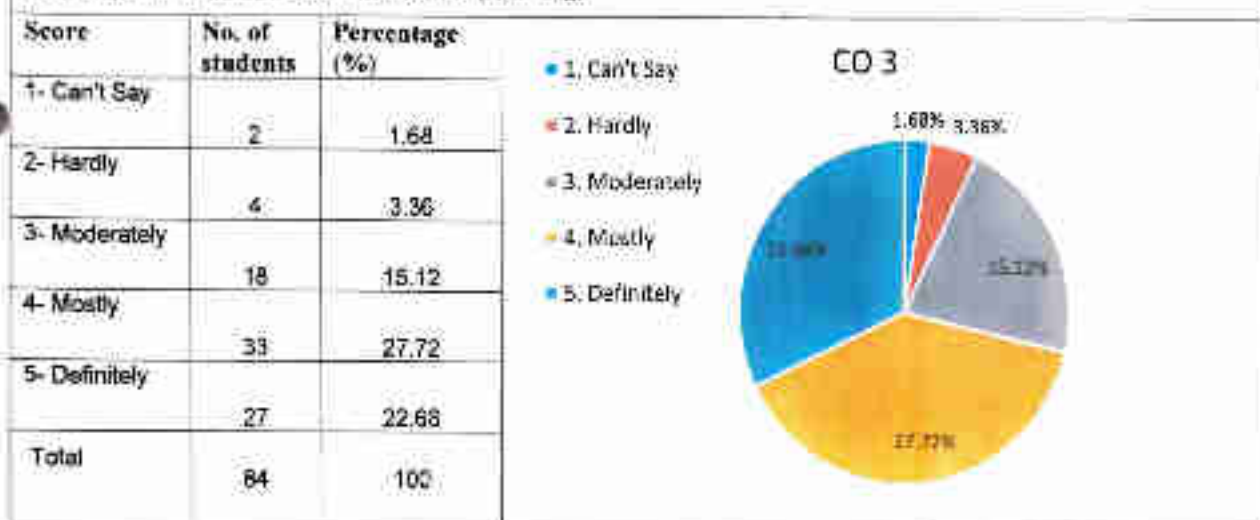
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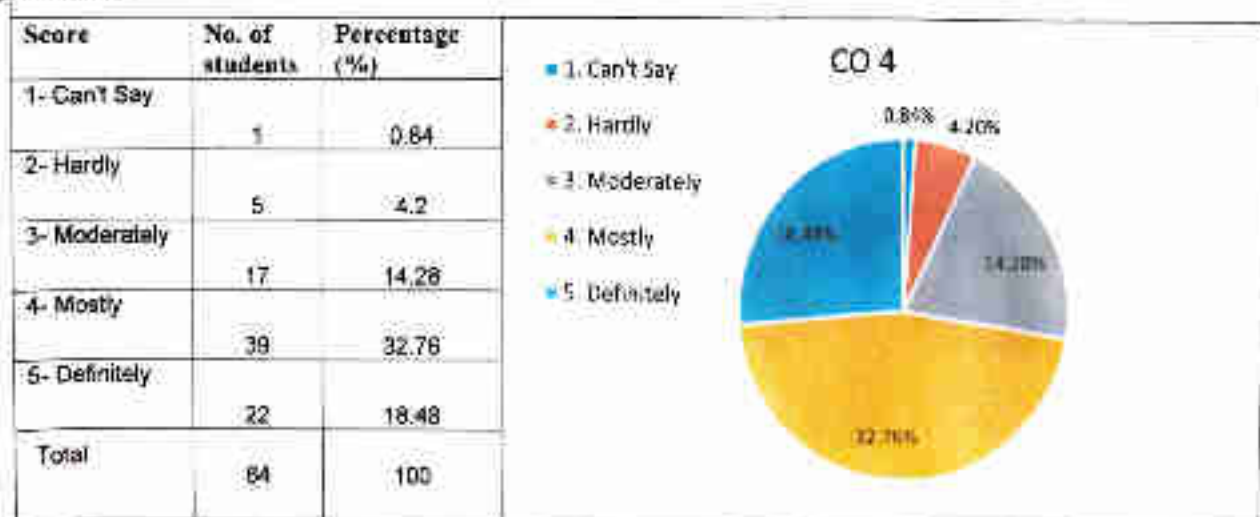
Subject – Mechanics of Solids (Theory)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO. 3. Calculate Moment of Inertia for cross sections and analyse the material response under the action of shear and the effect of flexure (bending)



CO. 4. Predict the angle of twist and shear stress developed in torsion and compute direct and bending stresses developed in the cross section of centrally and eccentrically loaded columns.





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Mechanics of Solids (Theory)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO. 5. Locate principal planes in members and calculate principal stresses using analytical and graphical method and to calculate strain energy stored in members due to elastic deformation.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	4	3.38
3- Moderately	18	15.12
4- Mostly	33	27.72
5- Definitely	28	23.52
Total	84	100

Legend for CO 5:

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

CO. 6. Evaluate slope and deflection of beams supported and loaded in different ways.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	5	4.2
3- Moderately	22	18.48
4- Mostly	31	26.04
5- Definitely	24	20.16
Total	84	100

Legend for CO 6:

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6


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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Mechanics of Solids (LAB)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO. 1. Determine the engineering properties for metals and non-metals and the strains induced

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	0	0
3- Moderately	18	15.12
4- Mostly	30	25.2
5- Definitely	34	28.56
Total	84	100

Legend for CO 1:

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 1

1.68%	0.00%
28.56%	15.12%
25.20%	

CO. 2. Understand the concepts of shear force, bending moment, axial force for statically

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	4	3.36
3- Moderately	17	14.28
4- Mostly	30	25.2
5- Definitely	31	26.04
Total	84	100

Legend for CO 2:

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 2

1.68%	3.36%
26.04%	14.28%
25.20%	



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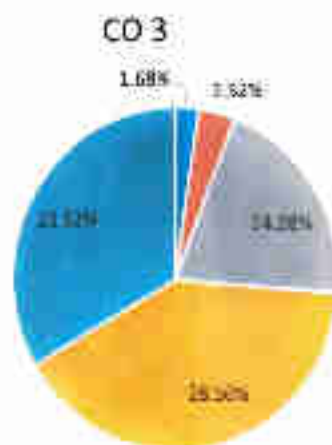
Subject – Mechanics of Solids (LAB)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO. 3. Identify the flexural members for its structural behavior under the effect of flexure (bending)

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	3	2.52
3- Moderately	17	14.28
4- Mostly	34	28.56
5- Definitely	28	23.52
Total	84	100

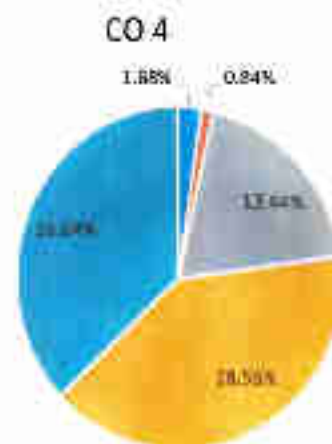
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 4. Generate the behavior of the structural member under the action of shear and torsion

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	1	0.84
3- Moderately	16	13.44
4- Mostly	34	28.56
5- Definitely	31	26.04
Total	64	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

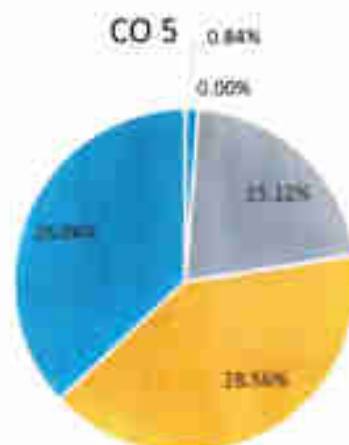
Subject – Mechanics of Solids (LAB)

Subject Teacher – Prof. D.M. Joshi/ Dr. Kavita Ganorkar

CO.5. Study the deformation behavior of axially loaded columns having different end conditions and further, evaluate the strength of such columns.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	0	0
3- Moderately	18	15.12
4- Mostly	34	28.56
5- Definitely	31	26.04
Total	84	100

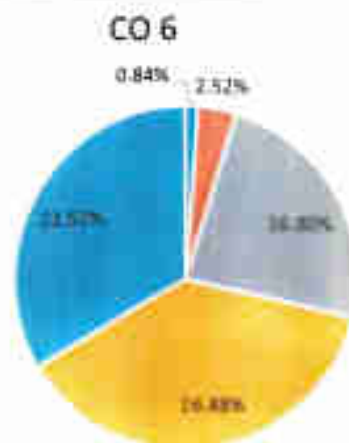
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Study the deformation behavior of axially loaded columns having different end conditions and further, evaluate the strength of such columns.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	3	2.52
3- Moderately	20	18.8
4- Mostly	32	26.88
5- Definitely	28	23.52
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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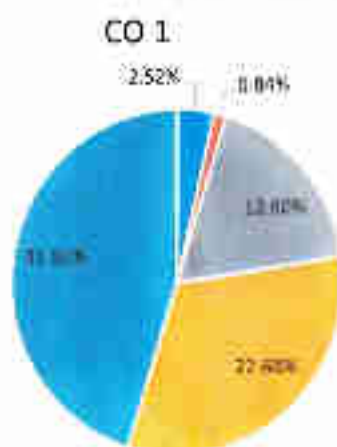
Subject – Engineering Geology (Theory)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.1. Understand and explain the significance of geological studies and its significance in various civil engineering projects.

Score	No. of students	Percentage (%)
1- Can't Say		
2- Hardly	3	2.52
3- Moderately	1	0.64
4- Mostly	15	12.6
5- Definitely	27	22.68
	38	31.92
Total	64	100

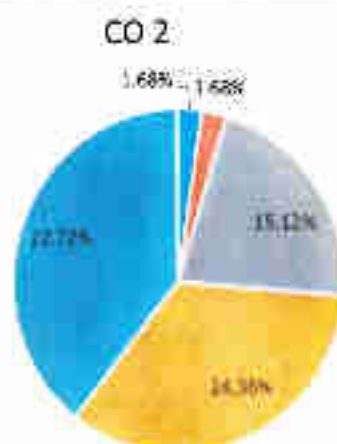
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Study the properties of minerals and rocks and make use of the knowledge for civil engineering.

Score	No. of students	Percentage (%)
1- Can't Say		
2- Hardly	2	1.66
3- Moderately	2	1.66
4- Mostly	18	15.12
5- Definitely	29	24.36
	33	27.72
Total	64	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Engineering Geology (Theory)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.3. Analyse and distinguish various geological structures and report geological data using standards in engineering practice, and determine the thickness of strata

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	3	2.52
3- Moderately	21	17.64
4- Mostly	25	21
5- Definitely	33	27.72
Total	84	100

CO 3

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.4. Explain different methods of geological investigation and mention opinion after calculations and check the suitability of a site to construct civil structures and comment on their engineering consideration

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	3	2.52
3- Moderately	19	15.96
4- Mostly	28	23.52
5- Definitely	32	26.88
Total	84	100

CO 4

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Engineering Geology (Theory)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.5. Describe various geological considerations to select the site to construct a tunnel and define various sources of groundwater.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	5	4.2
3- Moderately	17	14.28
4- Mostly	26	21.84
5- Definitely	35	29.4
Total	84	100

CO 5

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.6. Find what are the causes of occurrence of natural hazards, distinguish between their types and recommend the control measures.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	2	1.68
3- Moderately	16	13.44
4- Mostly	26	21.84
5- Definitely	38	31.92
Total	84	100

CO 6

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Engineering Geology (LAB)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.1. To acquire basic knowledge of Geological Lab practices and apply it for the safe development of Civil Engineering works.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	2	1.68
3- Moderately	16	13.44
4- Mostly	34	28.56
5- Definitely	31	26.04
Total	84	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.2. To examine the mineral and rock sample and understand their fundamental properties .

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	4	3.36
3- Moderately	17	14.28
4- Mostly	32	26.88
5- Definitely	31	26.04
Total	84	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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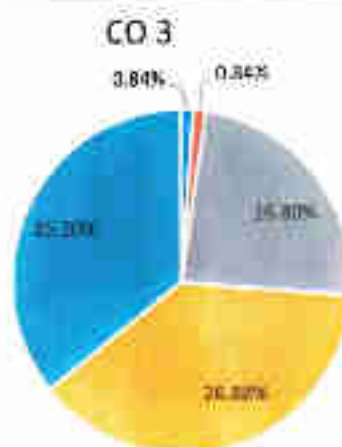
Subject – Engineering Geology (LAB)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.3. To understand the fundamental properties of rocks for their evaluation as construction and foundation material.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	20	16.8
4- Mostly	32	26.88
5- Definitely	30	25.2
Total	84	100

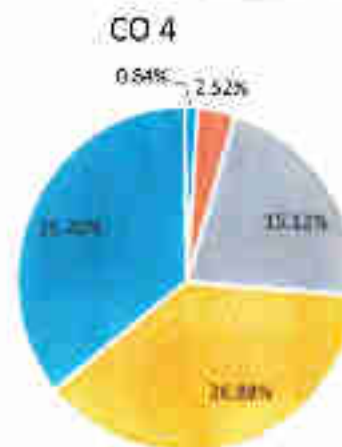
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. To study the Geological maps and their sections in terms of selecting the sites for various civil engineering structures.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	3	2.52
3- Moderately	18	15.12
4- Mostly	32	26.88
5- Definitely	30	25.2
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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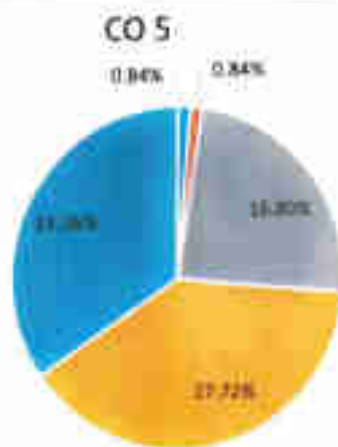
Subject – Engineering Geology (LAB)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Asmita Lakhote

CO.5. To study Borehole problems for determination of subsurface geology of the area.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	20	16.8
4- Mostly	33	27.72
5- Definitely	29	24.36
Total	84	100

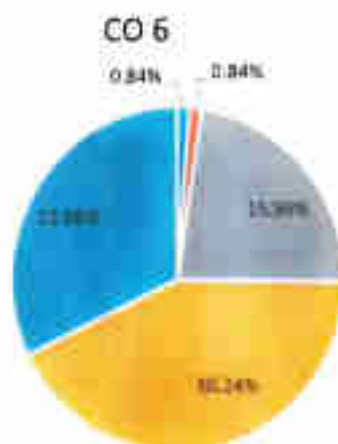
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. To Study the drilling data and calculate RQD for assessment of rock masses for Civil Engineering purposes.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	19	15.96
4- Mostly	36	30.24
5- Definitely	27	22.88
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

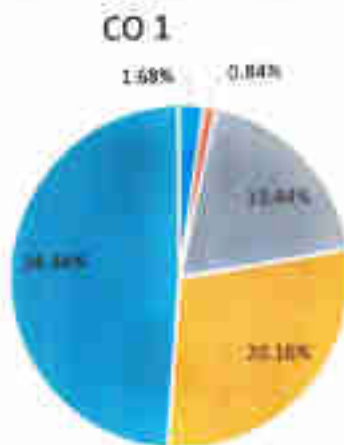
Subject – Fluid Mechanics (Theory)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.1. Describe various properties of fluids and types of flow

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	1	0.84
3- Moderately	16	13.44
4- Mostly	24	20.16
5- Definitely	41	34.44
Total	84	100

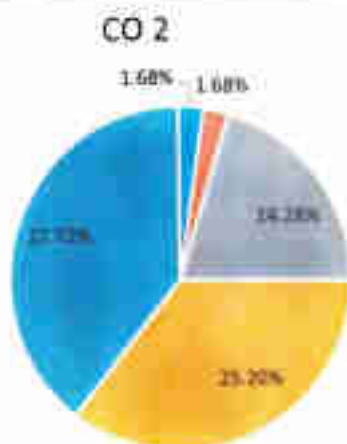
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Determine the pressure difference in pipe flows, application of Continuity equation and Bernoulli's theorem to determine velocity and discharge

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	2	1.68
3- Moderately	17	14.28
4- Mostly	30	25.2
5- Definitely	33	27.72
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

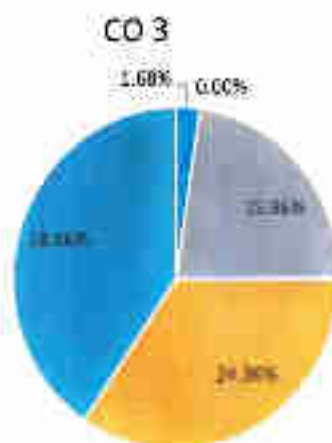
Subject – Fluid Mechanics (Theory)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.3. Apply hydro static and dynamic solutions for fluid flow applications

Score	No. of students	Percentage (%)
1- Can't Say	2	1.88
2- Hardly	0	0
3- Moderately	19	15.95
4- Mostly	29	24.36
5- Definitely	34	28.58
Total	84	100

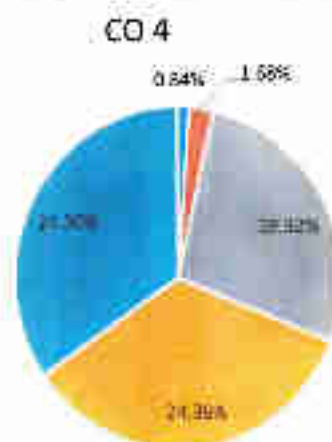
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4 Analyse the stability of floating bodies

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	2	1.68
3- Moderately	23	19.32
4- Mostly	29	24.36
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

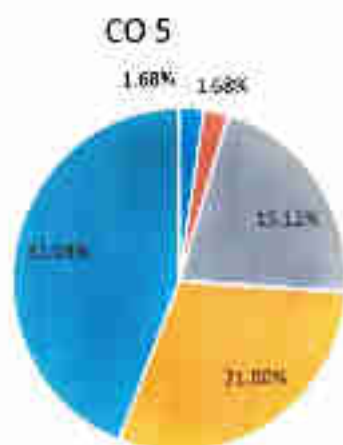
Subject – Fluid Mechanics (Theory)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.5 Apply the working concepts of various devices to measure the flow through pipes and channels

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	2	1.68
3- Moderately	16	15.12
4- Mostly	25	21
5- Definitely	37	31.08
Total	84	100

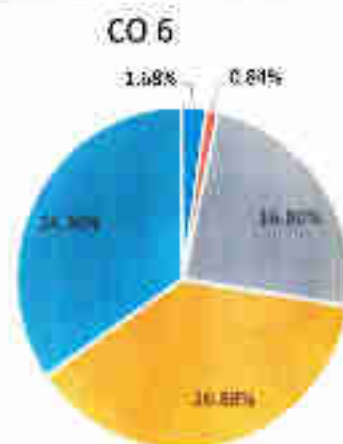
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6 Explain the compressible flow, propagation of pressure waves and stagnation properties

Score	No. of students	Percentage (%)
1. Can't Say	2	1.68
2- Hardly	1	0.84
3- Moderately	20	18.8
4- Mostly	32	26.88
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

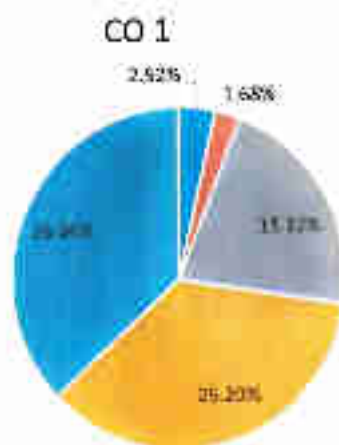
Subject – Fluid Mechanics (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.1. To determine Metacentric Height of given ship model.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	2	1.88
3- Moderately	16	15.12
4- Mostly	30	25.2
5- Definitely	31	26.04
Total	84	100

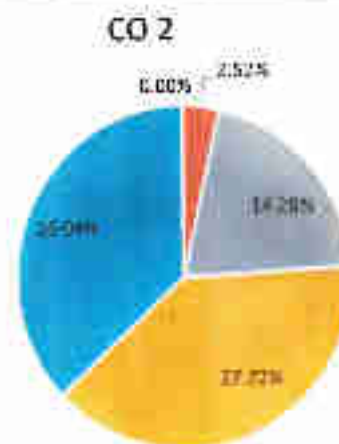
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. To determine coefficient of discharge through Venturimeter

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	2.52
3- Moderately	17	14.28
4- Mostly	33	27.72
5- Definitely	31	26.04
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

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Course Exit Report Analysis (SEM-III)

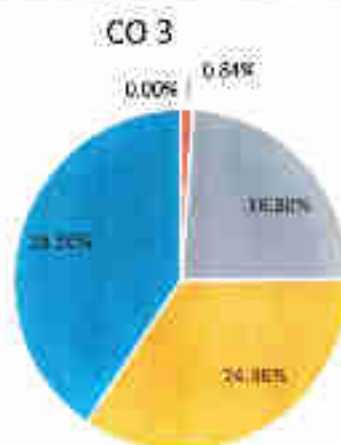
Subject – Fluid Mechanics (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.3. To compare theoretical and actual discharge of pipe flowing through orificemeter and calculate coefficient of discharge of Orifice meter.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	0.84
3- Moderately	20	16.8
4- Mostly	29	24.36
5- Definitely	34	28.56
Total	84	100

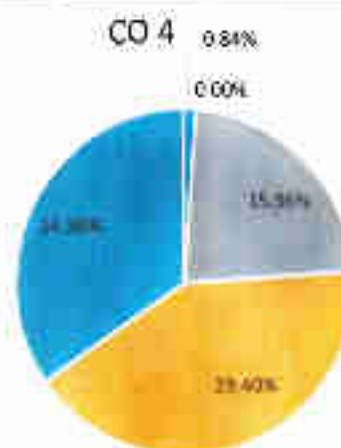
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. To verify Bernoulli's Theorem experimentally

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	0	0
3- Moderately	19	15.96
4- Mostly	35	29.4
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

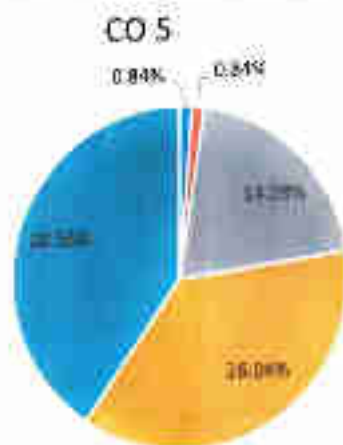
Subject – Fluid Mechanics (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Pooja Somani

CO.5. To determine the co efficient of discharge (Cd) of the given notch for different rates of flow

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	17	14.28
4- Mostly	31	26.04
5- Definitely	34	28.56
Total	84	100

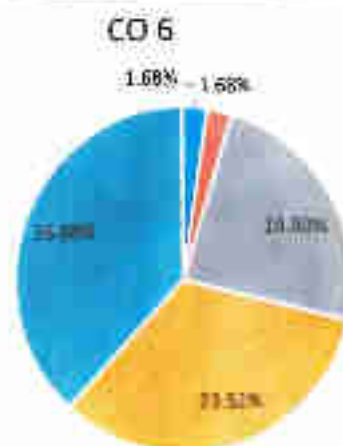
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. To compute coefficient of discharge of weirs

Score	No. of students	Percentage (%)
1- Can't Say	2	1.66
2- Hardly	7	1.56
3- Moderately	20	16.6
4- Mostly	26	23.52
5- Definitely	32	26.88
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

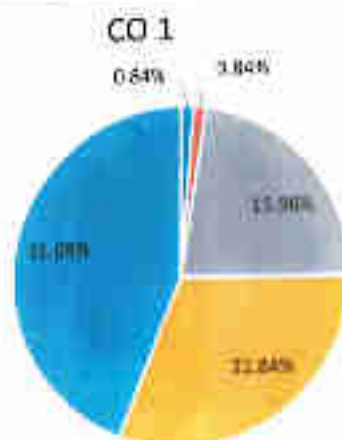
Subject – Skill Based Lab Course - I

Subject Teacher – Prof. Shahbaz Khan/ Prof. Athira Haridas/ Prof. Dipali Phadtare

CO.1. Make use of software to Transfer the plan from a drawing sheet to a 2-D drafting software

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	19	15.96
4- Mostly	26	21.84
5- Definitely	37	31.08
Total	84	100

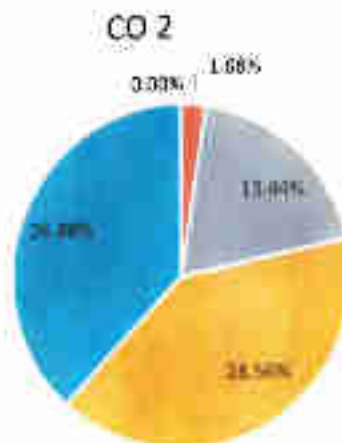
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Show various operations to determine height of structures, area of plot, subdividing area, demarcating boundaries, etc. Using Total Station

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1.88
3- Moderately	16	13.44
4- Mostly	34	28.56
5- Definitely	32	26.88
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-III)

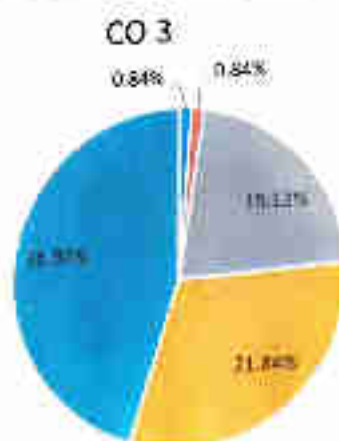
Subject – Skill Based Lab Course - I

Subject Teacher – Prof. Shahbaz Khan/ Prof. Athira Haridas/ Prof. Dipali Phadtare

CO.3. Make use of CAD software in Total Station to develop foundation plan.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	1	0.84
3- Moderately	18	15.12
4- Mostly	26	21.84
5- Definitely	36	31.82
Total	84	100

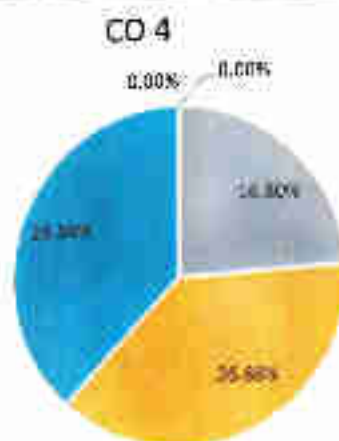
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Explain the fundamental features of Global Navigation Satellite System (GNSS) and determine latitudes, longitudes, altitudes of points, length of roads, area of plots, etc. using GNSS.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	20	16.8
4- Mostly	32	26.68
5- Definitely	32	26.88
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

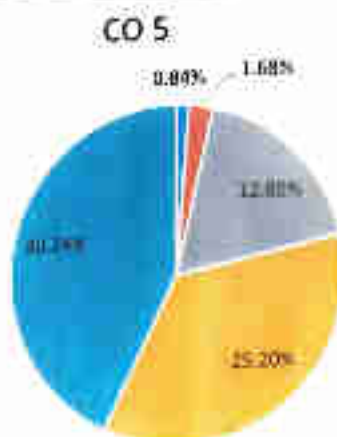
Subject – Skill Based Lab Course - I

Subject Teacher – Prof. Shahbaz Khan/ Prof. Athira Haridas/ Prof. Dipali Phadtare

CO.5. Name some Geographical Information System (GIS) softwares available and discuss their various features, and functions.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	2	1.68
3- Moderately	15	12.6
4- Mostly	30	25.2
5- Definitely	36	30.24
Total	84	100

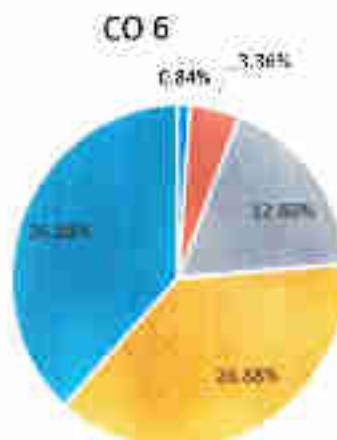
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Make use of GIS in GNSS and 'S and show various statistical operations in GIS.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	4	3.36
3- Moderately	15	12.6
4- Mostly	32	26.88
5- Definitely	32	26.88
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Course Exit Report Analysis (SEM-III)

Subject – Mini Project-I

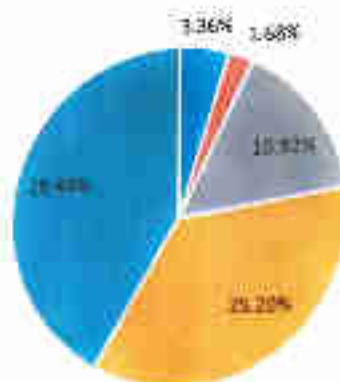
Subject Teacher – Prof. Neha Changani

CO.1. To acquaint with the process of identifying the needs and utilize it by converting it into a problem.

Score	No. of students	Percentage (%)
1- Can't Say	4	3.36
2- Hardly	2	1.68
3- Moderately	13	10.92
4- Mostly	30	25.2
5- Definitely	35	29.4
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 1

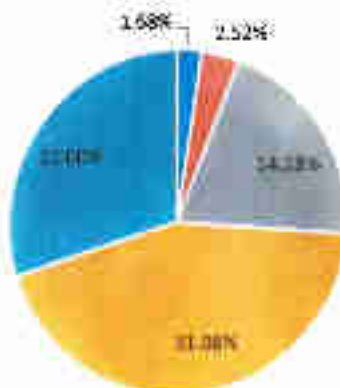


CO.2. To familiarize and infer the process of solving the problem in a group.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	3	2.52
3- Moderately	17	14.28
4- Mostly	37	31.08
5- Definitely	25	21
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 2





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-III)

Subject – Mini Project-I

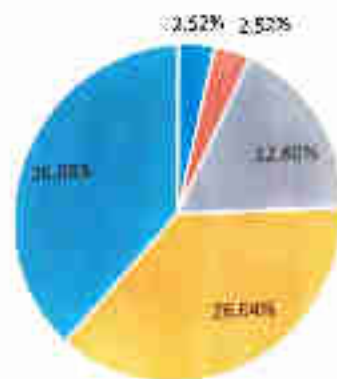
Subject Teacher – Prof. Neha Changani

CO.3. To analyze and choose the process of applying basic engineering fundamentals to attempt solutions to the problems.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	3	2.52
3- Moderately	15	12.6
4- Mostly	31	26.04
5- Definitely	32	26.86
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 3

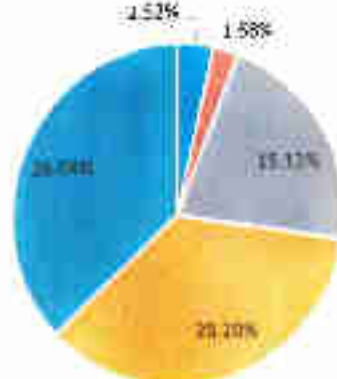


CO.4. To develop interpersonal skills to work as a member of a group or leader.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	7	1.66
3- Moderately	16	15.12
4- Mostly	30	25.2
5- Definitely	31	26.04
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 4





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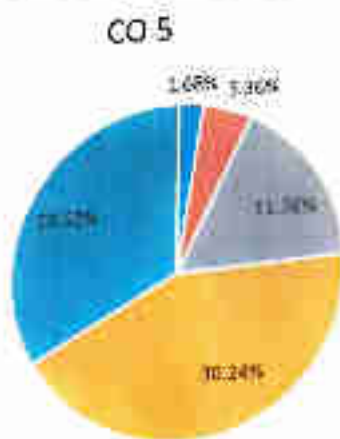
Subject – Mini Project-I

Subject Teacher – Prof. Neha Changani

CO.5. To adapt the process of self learning and research in a group which leads to a life long learning.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	4	3.38
3- Moderately	14	11.76
4- Mostly	36	30.24
5- Definitely	28	23.52
Total	84	100

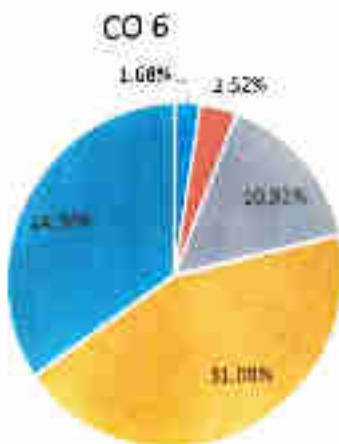
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. To perceive project management principles during project work.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	3	2.52
3- Moderately	13	10.92
4- Mostly	37	31.08
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Course Exit Report Analysis (SEM-III)

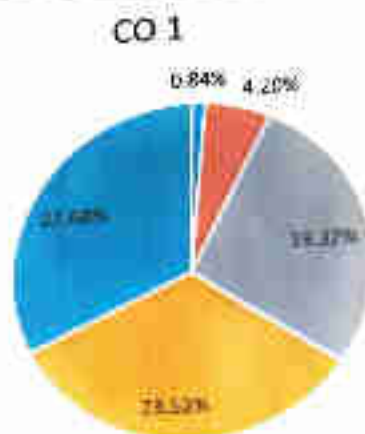
Subject – Engineering Mathematics-III

Subject Teacher – Prof. Madhukar Andhale

CO.1. Apply the concept of Laplace transforms & use to solve real integrals in engineering problems.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	5	4.2
3- Moderately	23	19.32
4- Mostly	28	23.52
5- Definitely	27	22.68
Total	84	100

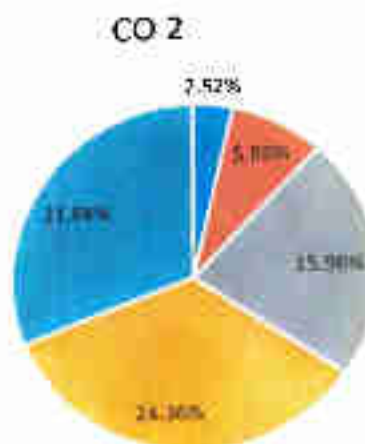
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Identify the concept of Inverse Laplace transforms & compare to various function & its applications.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.52
2- Hardly	7	5.88
3- Moderately	19	15.96
4- Mostly	29	24.36
5- Definitely	26	21.84
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-III)

Subject – Engineering Mathematics-III

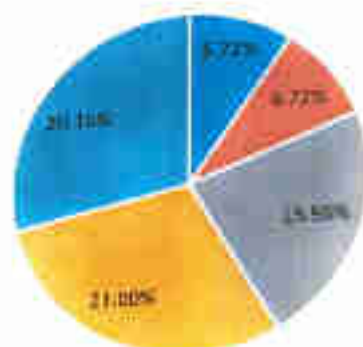
Subject Teacher – Prof. Madhukar Andhale

CO.3. Determine & develop Fourier series for real life problems & application.

Score	No. of students	Percentage (%)
1- Can't Say	8	6.72
2- Hardly	8	6.72
3- Moderately	19	15.96
4- Mostly	25	21
5- Definitely	24	20.16
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 3

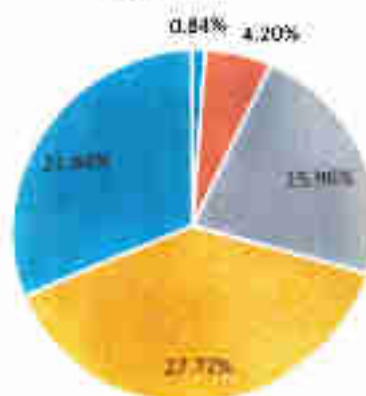


CO.4. Apply the properties of Complex analysis & select the application to orthogonal trajectories.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.84
2- Hardly	5	4.2
3- Moderately	19	15.96
4- Mostly	33	27.72
5- Definitely	26	21.84
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 4





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Course Exit Report Analysis (SEM-III)

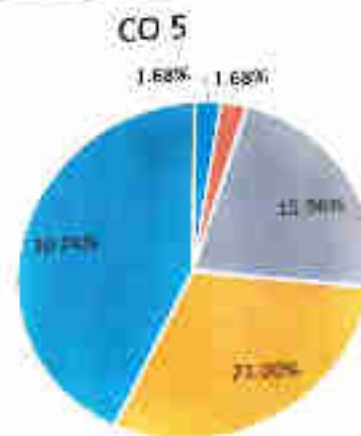
Subject – Engineering Mathematics-III

Subject Teacher – Prof. Madhukar Andhale

CO.5. Use the concept of matrices to solve problems in machine learning, computer graphics & in google page ranking.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	2	1.68
3- Moderately	19	15.96
4- Mostly	25	21
5- Definitely	36	30.24
Total	84	100

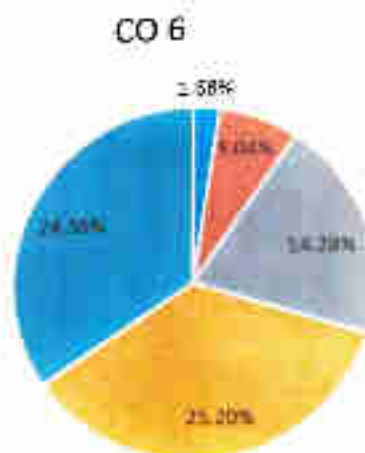
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Ability to solve partial differential equations & analytical method for one dimensional heat & wave equations.

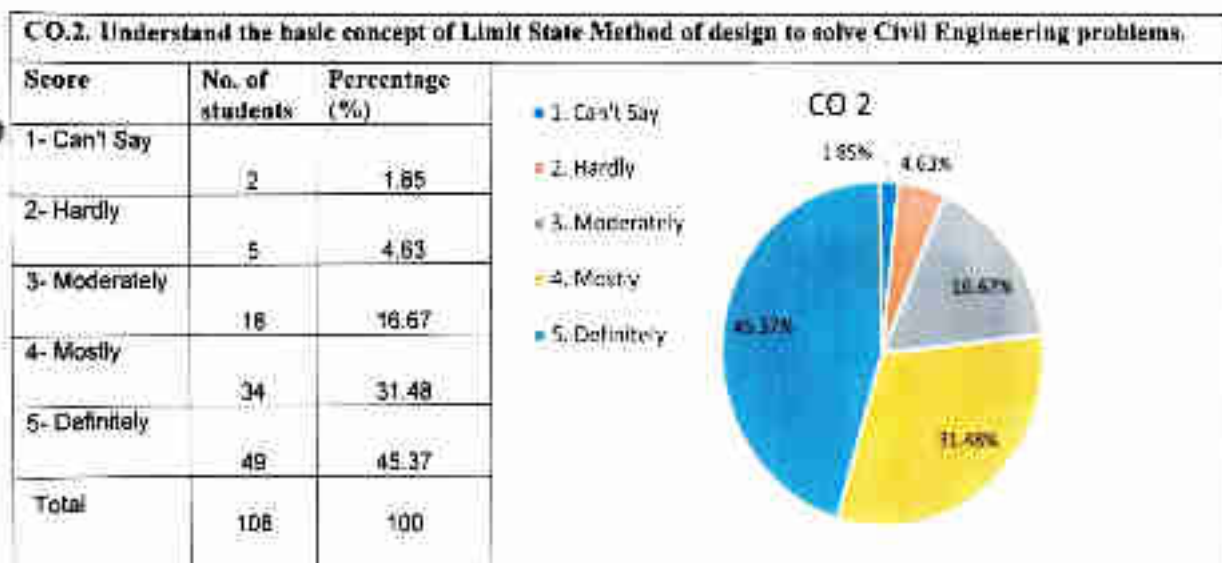
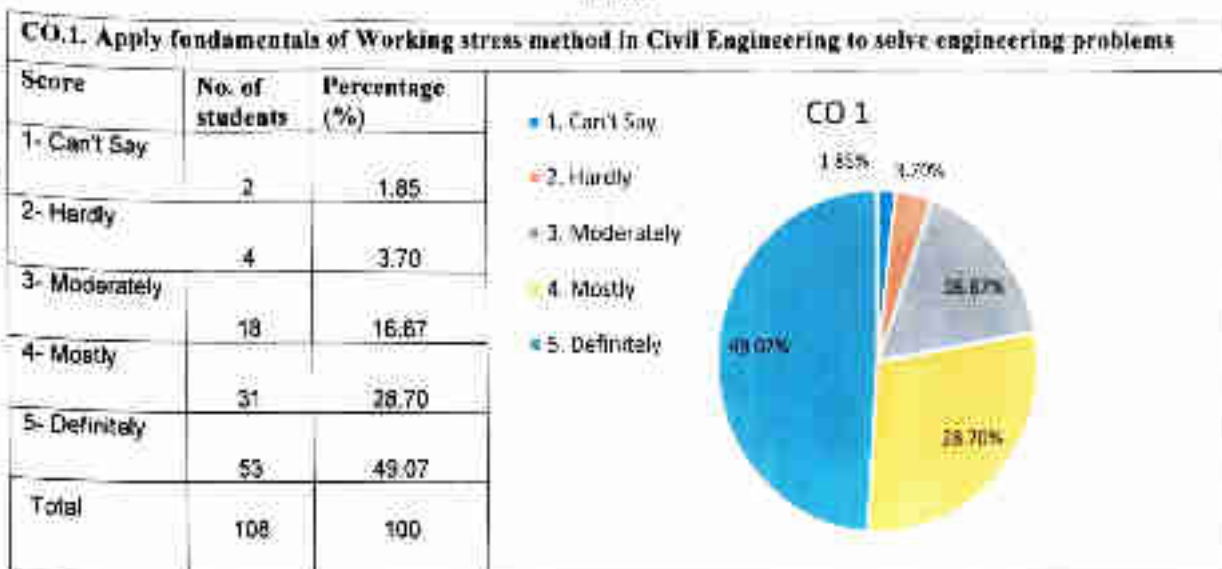
Score	No. of students	Percentage (%)
1- Can't Say	2	1.68
2- Hardly	6	5.04
3- Moderately	17	14.28
4- Mostly	30	25.2
5- Definitely	29	24.36
Total	84	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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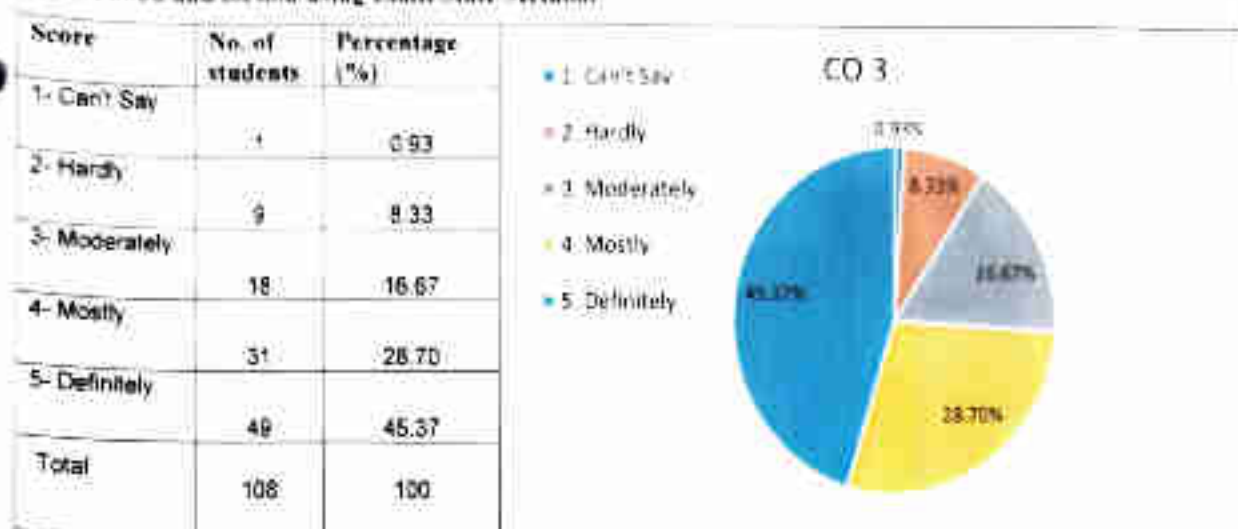
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

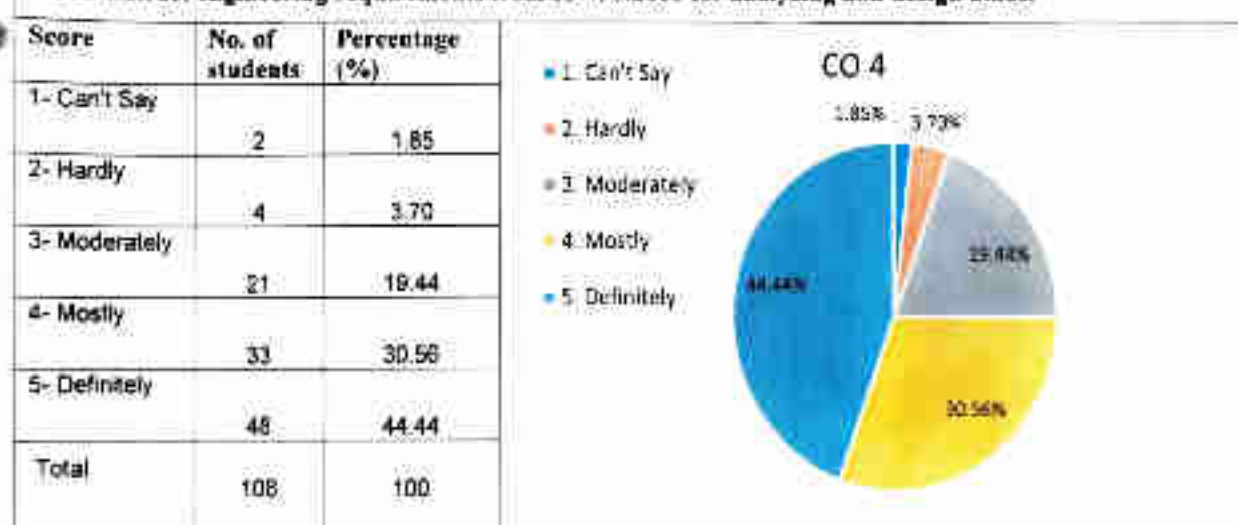
Subject – Theory of Reinforced Concrete Structure

Subject Teacher – Dr. Shreedevi Lakshmi/ Prof. Shweta Motharkar/ Prof. D.M. Joshi

CO.3. Identify existing solution method to analyse and design various types of beam sections under flexure, shear, bond and torsion using Limit State Method.



CO.4. Extract engineering requirements from IS-456:2000 for analyzing and design Slabs.





SARASWATI College of Engineering

WARRANGAL, TELANGANA
Established in the year 1983

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

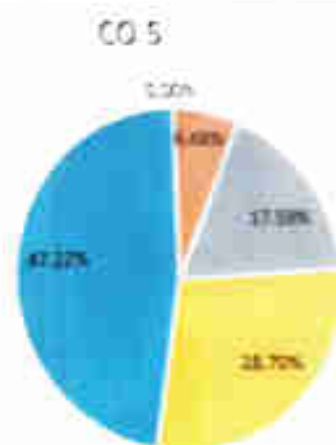
Subject – Theory of Reinforced Concrete Structure

Subject Teacher – Dr. Shreedevi Lakshmi/ Prof. Shweta Motharkar/ Prof. D.M. Joshi

CO.5. Identify the mathematical, engineering and other relevant knowledge that applies to the design of columns

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	7	6.48
3- Moderately	19	17.59
4- Mostly	31	28.70
5- Definitely	51	47.22
Total	108	100

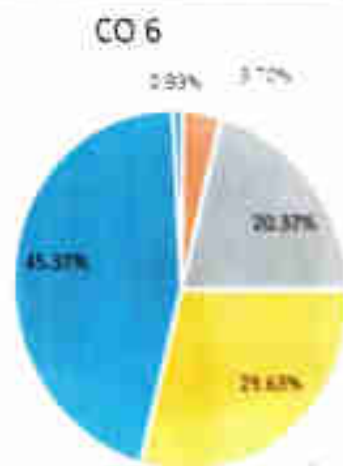
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Determine design objectives, functional requirements and arrive at design specifications of different types of footing.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	4	3.70
3- Moderately	22	20.37
4- Mostly	32	29.63
5- Definitely	41	37.96
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

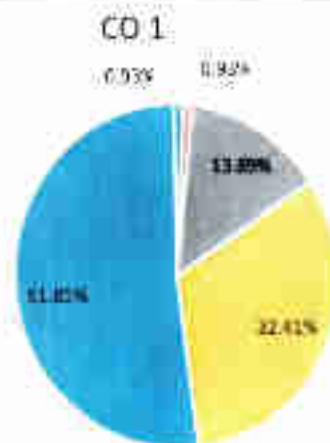
Subject – Applied Hydraulics

Subject Teacher – Prof. Ashwini Borkhe/ Prof. Athira Haridas/ Prof. Nilima Shende

CO.1. Demonstrate impact of jet on stationary, moving, hinged and series of plates also solve the numerical based on forces acting on it.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	15	13.89
4- Mostly	35	32.41
5- Definitely	56	51.85
Total	108	100

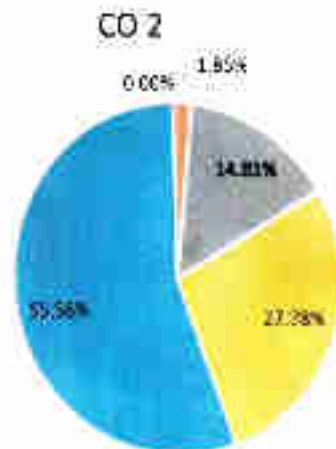
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Distinguish various types of turbines, Characteristic curves and its components

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	1.85
3- Moderately	16	14.81
4- Mostly	30	27.78
5- Definitely	60	55.56
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

Subject – Applied Hydraulics

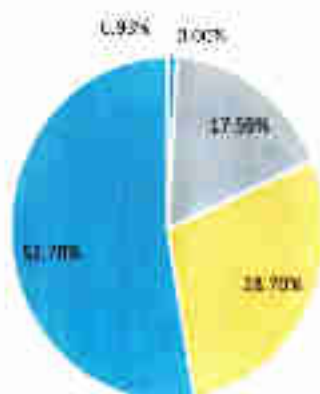
Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Athira Haridas/ Prof. Nilima Shende

CO.3. Analyse Centrifugal pumps by incorporating velocity triangle diagrams

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	19	17.59
4- Mostly	31	28.70
5- Definitely	57	52.78
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 3

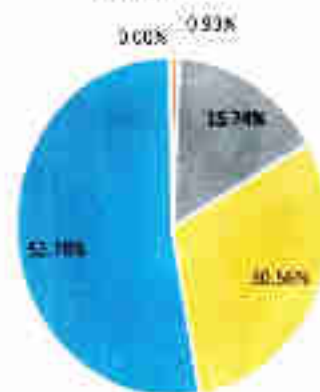


CO.4. Explain the working mechanism of various Hydraulic machines.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	17	15.74
4- Mostly	33	30.58
5- Definitely	57	52.78
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 4





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

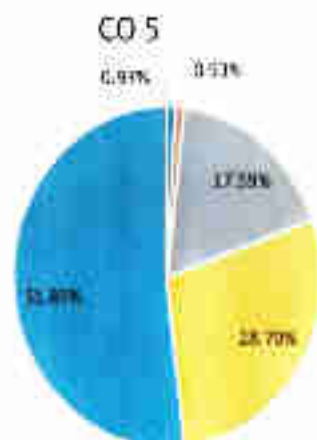
Subject - Applied Hydraulics

Subject Teacher - Prof. Ashwini Bodkhe/ Prof. Athira Haridas/ Prof. Nilima Shende

CO.5. Identify the hydraulic behaviour of open channel flow and design the most economical section of channels

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	19	17.59
4- Mostly	31	28.70
5- Definitely	56	51.85
Total	108	100

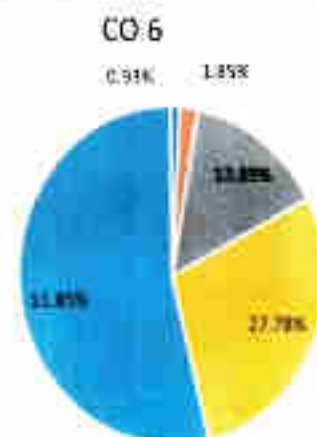
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Apply mathematical relationships for hydraulic jumps, surges, and critical, uniform, and gradually-varying flows

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	2	1.85
3- Moderately	15	13.89
4- Mostly	30	27.78
5- Definitely	60	55.56
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

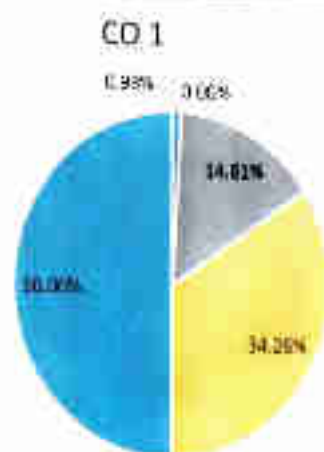
Subject – Geotechnical Engineering-I

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Sanjay Singh

CO.1. Explain the basic concepts of the physical and engineering properties of soil and use the relationship among various unit weights & other parameters to solve the problems

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	16	14.81
4- Mostly	37	34.26
5- Definitely	54	50.00
Total	108	100

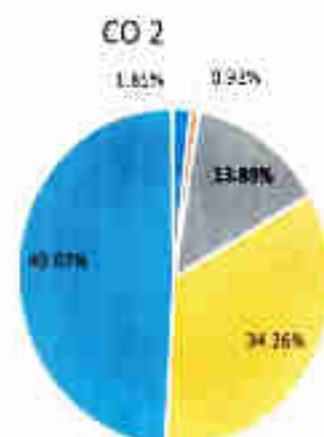
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Evaluate the index properties of soil and describe clay mineralogy

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	1	0.93
3- Moderately	15	13.89
4- Mostly	37	34.26
5- Definitely	53	49.07
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

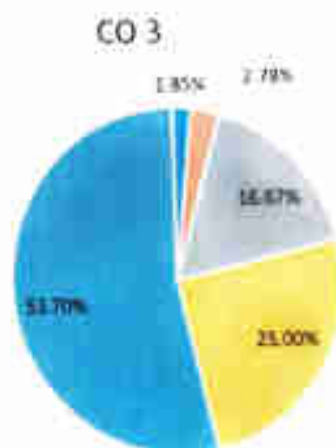
Subject – Geotechnical Engineering-I

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Sanjay Singh

CO.3. Classify the soil as per IS code.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	3	2.78
3- Moderately	18	16.67
4- Mostly	27	25.00
5- Definitely	58	53.70
Total	108	100

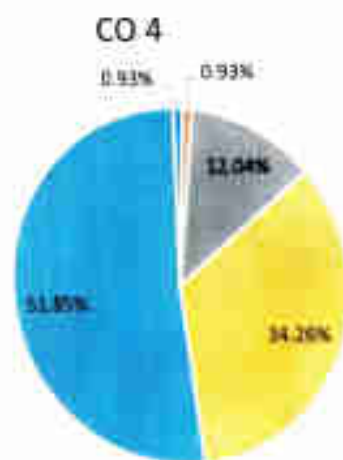
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Calculate the coefficient of permeability of different types of soils and summarize flow net

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	13	12.04
4- Mostly	37	34.26
5- Definitely	56	51.85
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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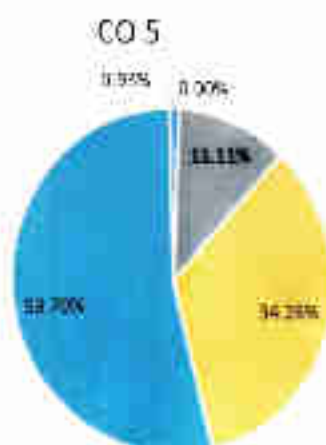
Subject – Geotechnical Engineering-I

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Sanjay Singh

CO.5. Determine the total stress, neutral stress and effective stress in a soil mass subjected to different geotechnical condition.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	12	11.11
4- Mostly	37	34.26
5- Definitely	58	53.70
Total	108	100

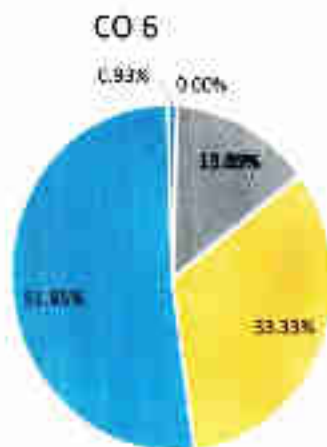
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




CO.6. Calculate the optimum moisture content of a soil and explain the necessity and methods of soil exploration.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	15	13.89
4- Mostly	36	33.33
5- Definitely	56	51.85
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Course Exit Report Analysis (SEM-V)

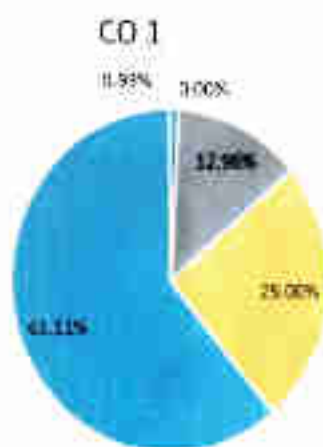
Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.1. Summarize various modes of transportation and explain basic technical aspect of railways, airways and waterways.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	14	12.96
4- Mostly	27	25.00
5- Definitely	66	61.11
Total	108	100

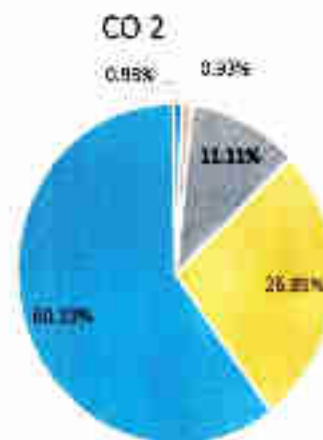
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Describe different roads plans, requirements of alignment and calculate the sight distances, superelevation, widening and gradient compensation on a highway.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	12	11.11
4- Mostly	29	26.85
5- Definitely	65	60.19
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.3. Identify different traffic studies and analyze basic parameters of traffic engineering for efficient planning and control of traffic

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	15	13.89
4- Mostly	29	25.93
5- Definitely	64	59.26
Total	108	100

CO 3

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.4. Combine scientific principles and engineering concepts to understand various components of building water supply system and storage of water in terms of applicability and required accuracy

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	2	1.85
3- Moderately	11	10.19
4- Mostly	26	24.07
5- Definitely	68	62.96
Total	108	100

CO 4

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.5. Describe different types of pavements , use of soil stabilization and planning of highway drainage

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	2	1.85
3- Moderately	14	12.96
4- Mostly	25	23.15
5- Definitely	68	61.11
Total	108	100

CO 5

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.6. Identify the failures in pavement and determine the thickness of overlay

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	0	0.00
3- Moderately	15	13.89
4- Mostly	27	25.00
5- Definitely	64	59.26
Total	108	100

CO 6

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

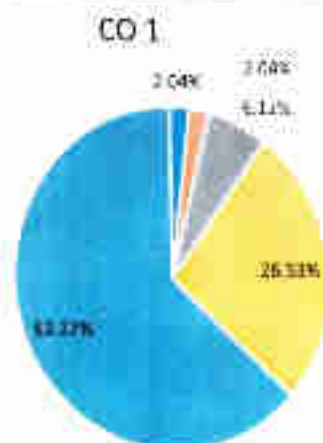
Subject – Advanced Concrete Technology

Subject Teacher – Prof. Deepali Phadtare

CO.1. Understand the various properties and tests of materials used in concrete along with the rheology of fresh concrete

Score	No. of students	Percentage (%)
1- Can't Say	1	2.04
2- Hardly	1	2.04
3- Moderately	3	6.12
4- Mostly	13	26.53
5- Definitely	31	63.27
Total	49	100

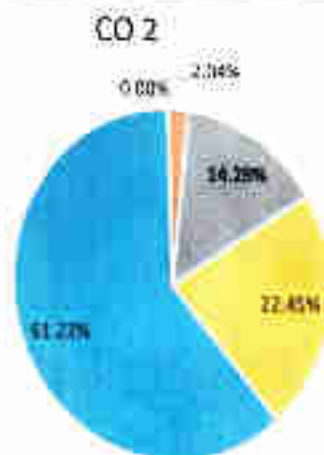
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Study the different procedures for testing hardened concrete, its compositions and quality of in place concrete.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	2.04
3- Moderately	7	14.28
4- Mostly	11	22.45
5- Definitely	30	61.22
Total	49	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-V)

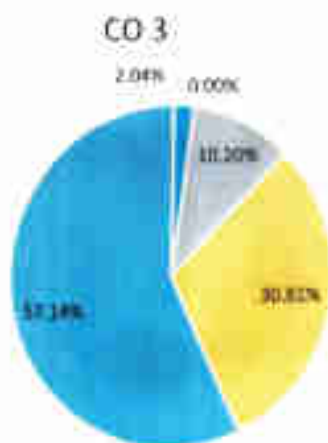
Subject – Advanced Concrete Technology

Subject Teacher – Prof. Deepali Phadtare

CO.3. Understand the concept of durability and cracking in concrete, also understand the significance and parameters of concreting under extreme environment and conditions.

Score	No. of students	Percentage (%)
1- Can't Say	1	2.04
2- Hardly	0	0.00
3- Moderately	5	10.20
4- Mostly	15	30.61
5- Definitely	28	57.14
Total	49	100

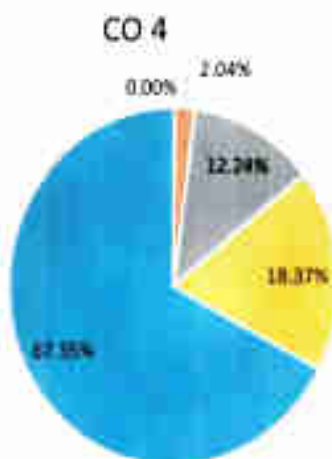
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Generate the mix proportions of concrete for field application by using various methods

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	2.04
3- Moderately	6	12.24
4- Mostly	9	18.37
5- Definitely	33	67.35
Total	49	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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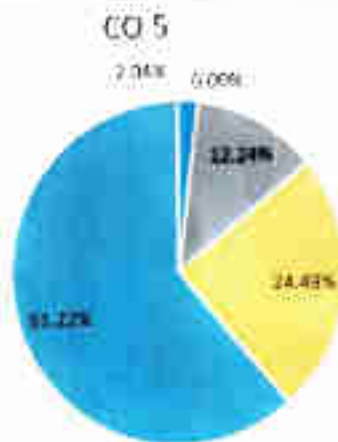
Subject – Advanced Concrete Technology

Subject Teacher – Prof. Deepali Phadtare

CO.5. Describe the various properties of special concrete

Score	No. of students	Percentage (%)
1- Can't Say	1	2.04
2- Hardly	0	0.00
3- Moderately	5	12.24
4- Mostly	12	24.49
5- Definitely	30	61.22
Total	49	100

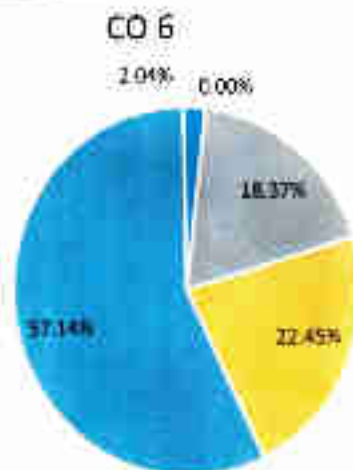
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Justify the quality of concrete by evaluating the acceptance criteria.

Score	No. of students	Percentage (%)
1- Can't Say	1	2.04
2- Hardly	0	0.00
3- Moderately	9	18.37
4- Mostly	11	22.45
5- Definitely	28	57.14
Total	49	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

Subject – Building Services and Repairs

Subject Teacher – Prof. Vinitha Jovar/ Prof. Rachel Gitty

CO.1. Explain the design concepts of various machineries like lift, escalators, vibrators, concrete mixers etc

Score	No. of students	Percentage (%)													
1- Can't Say	0	0.00	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely <p>CO 1</p> <table border="1"><thead><tr><th>Score</th><th>Percentage (%)</th></tr></thead><tbody><tr><td>1</td><td>0.00%</td></tr><tr><td>2</td><td>0.00%</td></tr><tr><td>3</td><td>23.73%</td></tr><tr><td>4</td><td>32.20%</td></tr><tr><td>5</td><td>44.07%</td></tr></tbody></table>	Score	Percentage (%)	1	0.00%	2	0.00%	3	23.73%	4	32.20%	5	44.07%
Score	Percentage (%)														
1	0.00%														
2	0.00%														
3	23.73%														
4	32.20%														
5	44.07%														
2- Hardly	0	0.00													
3- Moderately	14	23.73													
4- Mostly	19	32.20													
5- Definitely	26	44.07													
Total	59	100													

CO.2. Illustrate the functioning of plumbing system and fire safety system in buildings

Score	No. of students	Percentage (%)													
1- Can't Say	0	0.00	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely <p>CO 2</p> <table border="1"><thead><tr><th>Score</th><th>Percentage (%)</th></tr></thead><tbody><tr><td>1</td><td>0.00%</td></tr><tr><td>2</td><td>0.00%</td></tr><tr><td>3</td><td>22.03%</td></tr><tr><td>4</td><td>37.29%</td></tr><tr><td>5</td><td>40.68%</td></tr></tbody></table>	Score	Percentage (%)	1	0.00%	2	0.00%	3	22.03%	4	37.29%	5	40.68%
Score	Percentage (%)														
1	0.00%														
2	0.00%														
3	22.03%														
4	37.29%														
5	40.68%														
2- Hardly	0	0.00													
3- Moderately	13	22.03													
4- Mostly	22	37.29													
5- Definitely	24	40.68													
Total	59	100													



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

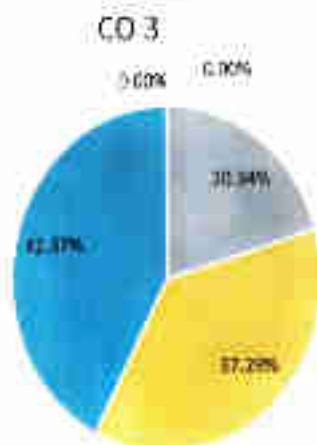
Subject – Building Services and Repairs

Subject Teacher – Prof. Vinitha Jovar/ Prof. Rachel Gitty

CO.3. Summarize the working of electrical systems and illumination designs in buildings

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	12	20.34
4- Mostly	22	37.29
5- Definitely	25	42.37
Total	59	100

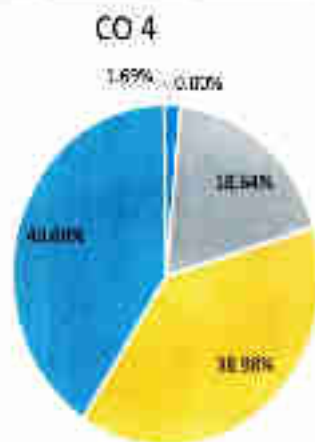
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Summarize the working of electrical systems and illumination designs in buildings

Score	No. of students	Percentage (%)
1- Can't Say	1	1.69
2- Hardly	0	0.00
3- Moderately	11	18.64
4- Mostly	23	38.98
5- Definitely	24	40.68
Total	59	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





SARASWATI Education Society's
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Charge No. Number: 410/110

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

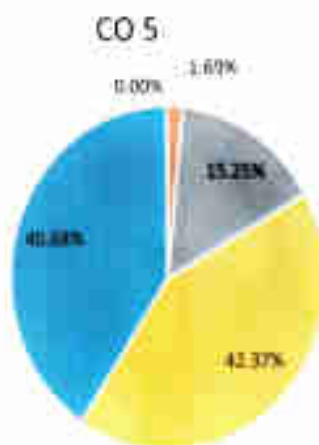
Subject – Building Services and Repairs

Subject Teacher – Prof. Vinitha Jovar/ Prof. Rachel Gitty

CO.5. Determine the condition of a building through condition survey

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	1.69
3- Moderately	9	15.25
4- Mostly	25	42.37
5- Definitely	24	40.68
Total	59	100

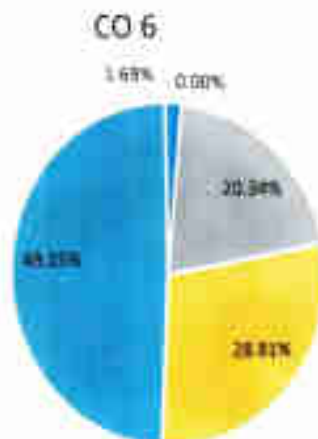
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Select the repair materials and methodologies to repair the distressed buildings

Score	No. of students	Percentage (%)
1- Can't Say	1	1.69
2- Hardly	0	0.00
3- Moderately	12	20.34
4- Mostly	17	28.81
5- Definitely	29	49.15
Total	59	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Department of Civil Engineering

Academic Year - 2023-2024

Course Exit Report Analysis (SEM-V)

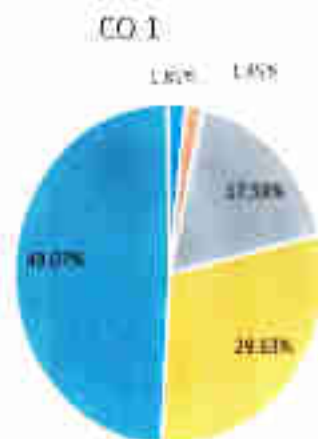
Subject – Theory of Reinforced Concrete Structure (LAB)

Subject Teacher – Dr. Shreedevi Lakshmi/ Prof. Shweta Motbarkar/ Prof. D.M. Joshi

CO.1. Apply fundamentals of Working stress method in Civil Engineering to solve engineering problems

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	2	1.85
3- Moderately	19	17.59
4- Mostly	32	29.63
5- Definitely	53	49.07
Total	108	100

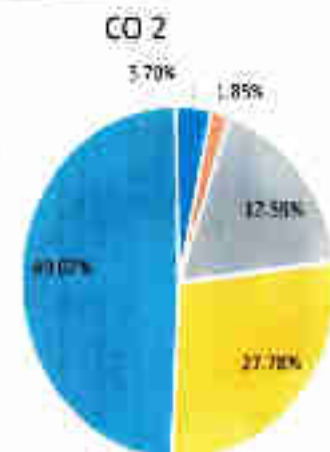
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.2. Understand the basic concept of Limit State Method of design to solve Civil Engineering problems

Score	No. of students	Percentage (%)
1- Can't Say	4	3.70
2- Hardly	2	1.85
3- Moderately	18	17.59
4- Mostly	30	27.78
5- Definitely	53	49.07
Total	108	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

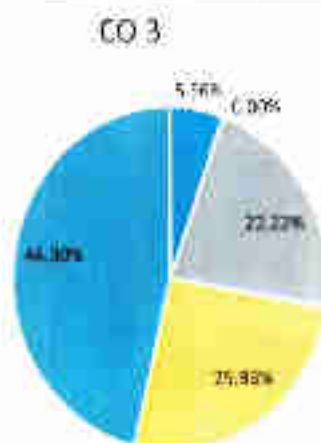




CO.3. Identify existing solution method to analyse and design various types of beam sections under flexure, shear, bond and torsion using Limit State Method

Score	No. of students	Percentage (%)
1- Can't Say	8	5.56
2- Hardly	0	0.00
3- Moderately	24	22.22
4- Mostly	28	25.93
5- Definitely	50	46.30
Total	108	100

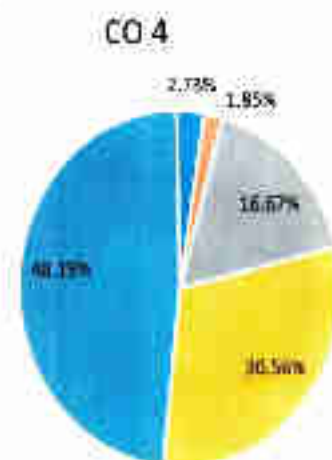
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Extract engineering requirements from IS-456:2000 for analysing and design Slabs

Score	No. of students	Percentage (%)
1- Can't Say	3	2.76
2- Hardly	2	1.85
3- Moderately	18	16.67
4- Mostly	33	30.56
5- Definitely	52	48.15
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





SARASWATI Educational Society's
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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

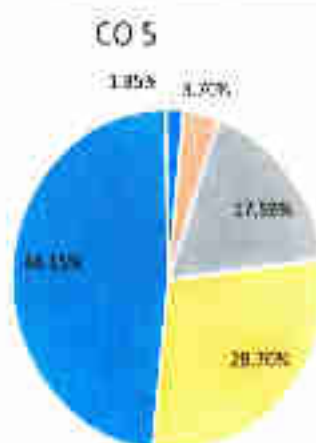
Subject – Theory of Reinforced Concrete Structure (LAB)

Subject Teacher – Dr. Shreedevi Lakshmi/ Prof. Shweta Mothurkar/ Prof. D.M. Joshi

CO.5. Combine the basic principles and engineering concepts to apply limit state of collapse in compression for designing of different types of columns

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	4	3.70
3- Moderately	19	17.59
4- Mostly	31	28.70
5- Definitely	52	48.15
Total	108	100

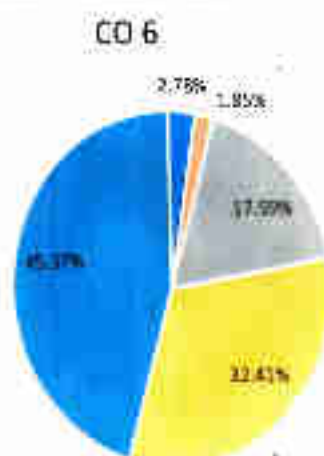
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Design different types of footing by identifying the existing processes and solution method.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.78
2- Hardly	2	1.85
3- Moderately	19	17.59
4- Mostly	35	32.41
5- Definitely	49	45.37
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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CO.1. Evaluate the efficiencies and discuss the working of various pumps and turbines

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	14	12.98
4- Mostly	31	28.70
5- Definitely	62	57.41
Total	108	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1	0.93%
2	0.00%
3	12.98%
4	28.70%
5	57.41%

CO.2. Apply impulse momentum principle to hydraulic machines

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	2	1.85
3- Moderately	15	13.89
4- Mostly	26	25.93
5- Definitely	62	57.41
Total	108	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1	0.93%
2	1.85%
3	13.89%
4	25.93%
5	57.41%



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Department of Civil Engineering

Academic Year - 2023-2024

Course Exit Report Analysis (SEM-V)

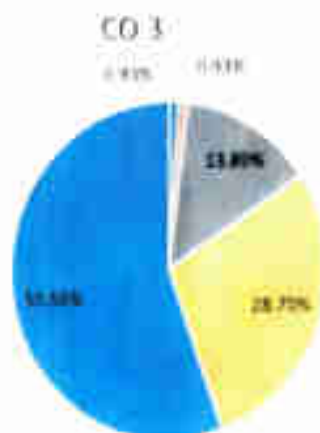
Subject – Applied Hydraulics (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Athira Haridas/ Prof. Nilima Shende

CO.3. Determine the rate of flow through open channel

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	15	13.89
4- Mostly	31	28.70
5- Definitely	60	55.56
Total	108	100

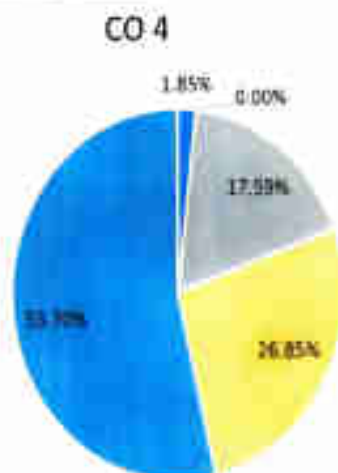
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.4. Generate and evaluate Gradually varied flow (GVF) and Rapid varied Flow (RVF) in open channel flow

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	0	0.00
3- Moderately	19	17.59
4- Mostly	29	26.85
5- Definitely	58	53.70
Total	108	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely





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Khadgaon, Nashik District - 422 210.

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

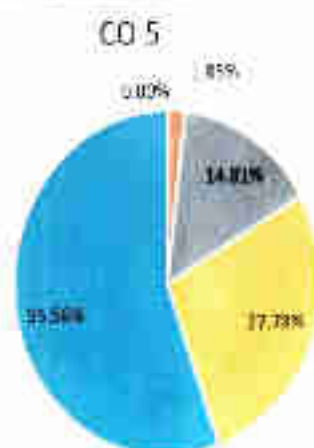
Subject – Applied Hydraulics (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Athira Haridas/ Prof. Nilima Shende

CO.5. Compute the Chezy's Constant through tilting flume

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	1.85
3- Moderately	16	14.81
4- Mostly	30	27.78
5- Definitely	60	55.56
Total	108	100

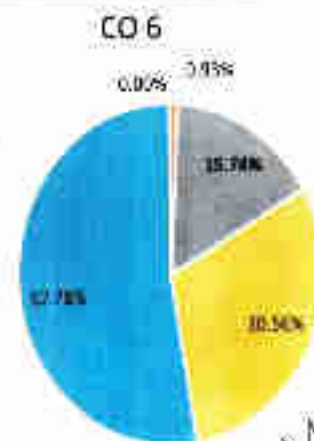
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Apply mathematical relationships for hydraulic jumps, surges, and critical, uniform, and gradually-varying flows

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	17	15.74
4- Mostly	33	30.58
5- Definitely	57	52.78
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

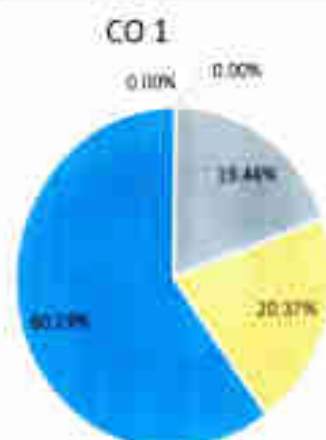
Subject – Geotechnical Engineering-I (LAB)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Sanjay Singh

CO.1. Classify the physical and engineering properties of soil

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	21	19.44
4- Mostly	22	20.37
5- Definitely	65	60.19
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Examine the plasticity characteristics of soil

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	16	14.81
4- Mostly	28	25.93
5- Definitely	63	58.33
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

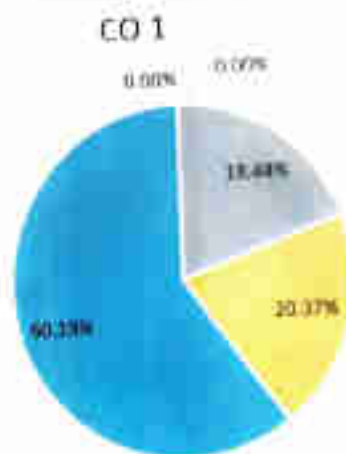




CO.1. Classify the physical and engineering properties of soil

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	21	19.44
4- Mostly	22	20.37
5- Definitely	65	60.19
Total	108	100

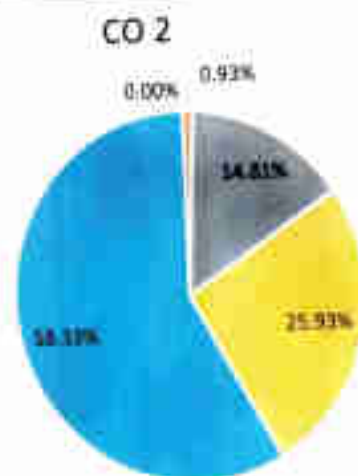
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Examine the plasticity characteristics of soil

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	16	14.81
4- Mostly	26	25.93
5- Definitely	63	58.33
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

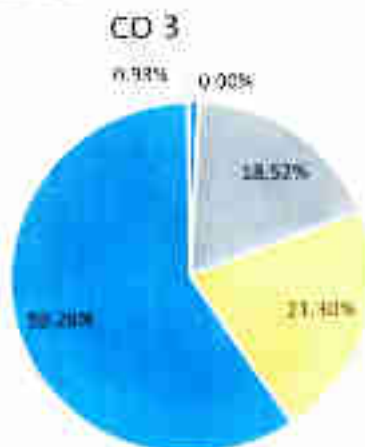




CO.3. Summarize the sieve analysis of soil, plot grain size distribution curve and determine the IS classification of soil.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	20	18.52
4- Mostly	23	21.30
5- Definitely	64	59.26
Total	108	100

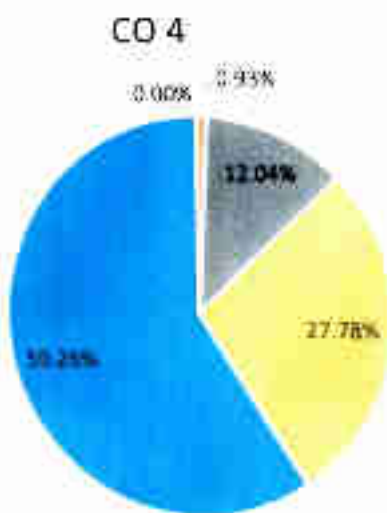
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Illustrate coefficient of permeability of soils

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	13	12.04
4- Mostly	30	27.78
5- Definitely	64	59.26
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

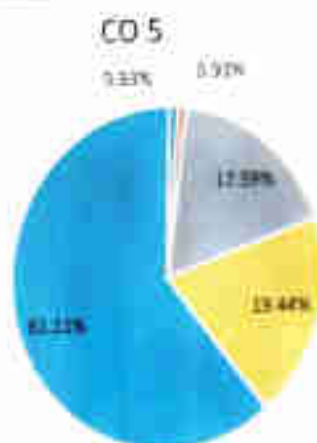




CO.5. Evaluate the compaction characteristics of soils.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	19	17.59
4- Mostly	21	19.44
5- Definitely	66	61.11
Total	108	100

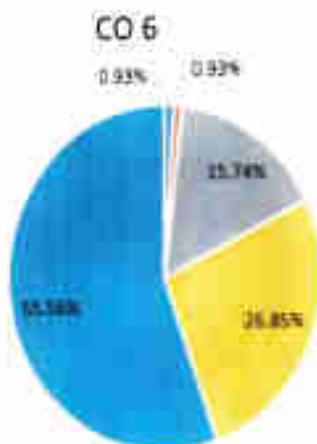
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Compose the field SPT 'N' value and prepare the bore log

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	17	15.74
4- Mostly	29	26.85
5- Definitely	60	55.56
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

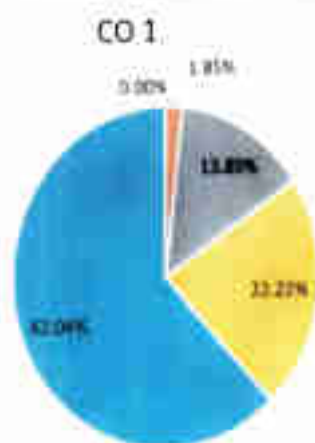
Subject – Transportation Engineering (LAB)

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.1. Classify Bitumen on the basis of Penetration and Viscosity grade

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	1.85
3- Moderately	15	13.89
4- Mostly	24	22.22
5- Definitely	67	62.04
Total	108	100

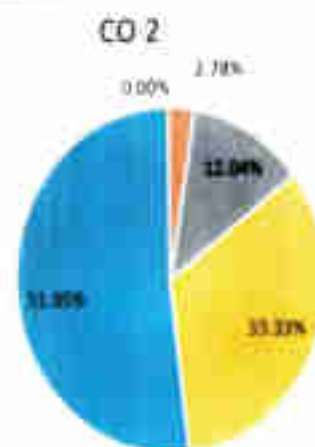
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Select Bitumen as per suitability on basis of softening point and ductility value

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	3	2.78
3- Moderately	13	12.04
4- Mostly	36	33.33
5- Definitely	56	51.85
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-V)

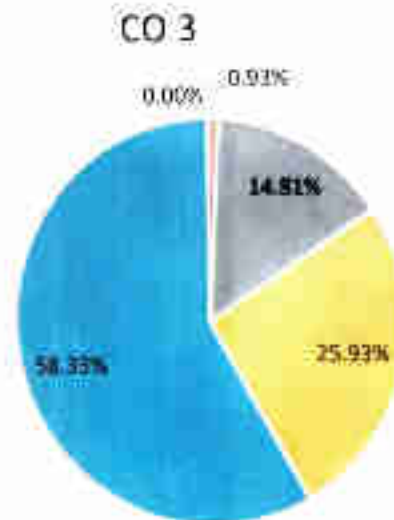
Subject – Transportation Engineering (LAB)

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.3. Determine suitability of aggregate on basis of Impact value, Abrasion value and crushing value

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	16	14.81
4- Mostly	28	25.93
5- Definitely	63	58.33
Total	108	100

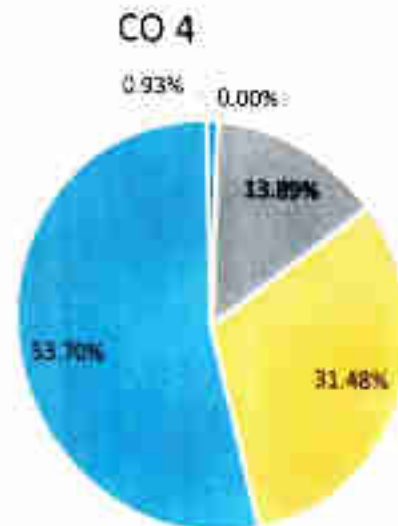
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Distinguish Elongated and Flaky aggregate on basis of Shape test

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	0	0.00
3- Moderately	15	13.89
4- Mostly	34	31.48
5- Definitely	58	53.70
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-V)

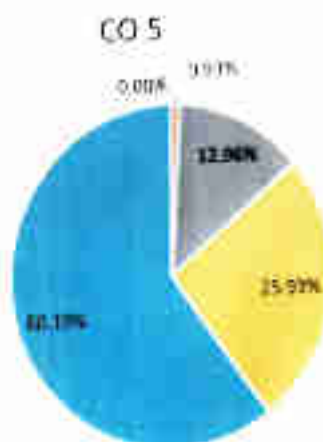
Subject – Transportation Engineering (LAB)

Subject Teacher – Prof. Manoj Pillai/ Prof. Pallavi Tajane

CO.5. Calculate calcificates volume study at mid-block section of road

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	14	12.96
4- Mostly	28	25.93
5- Definitely	65	60.19
Total	108	100

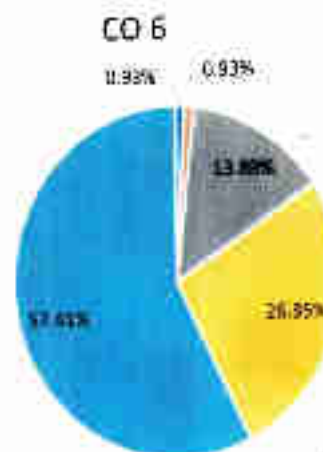
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.6. Analyse speed profile curve at mid-block section of a road

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	15	13.89
4- Mostly	29	28.85
5- Definitely	62	57.41
Total	108	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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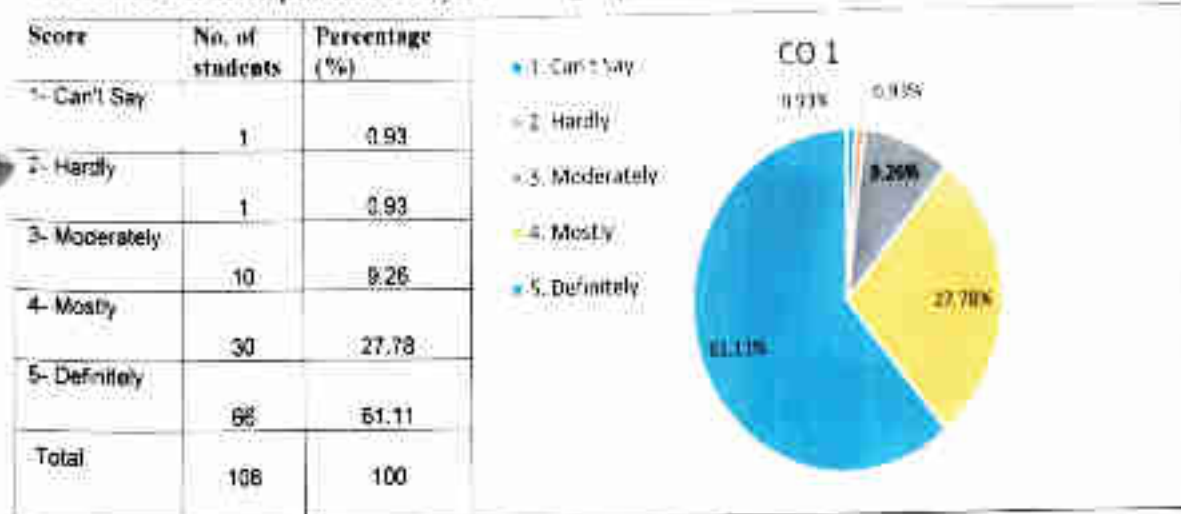
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

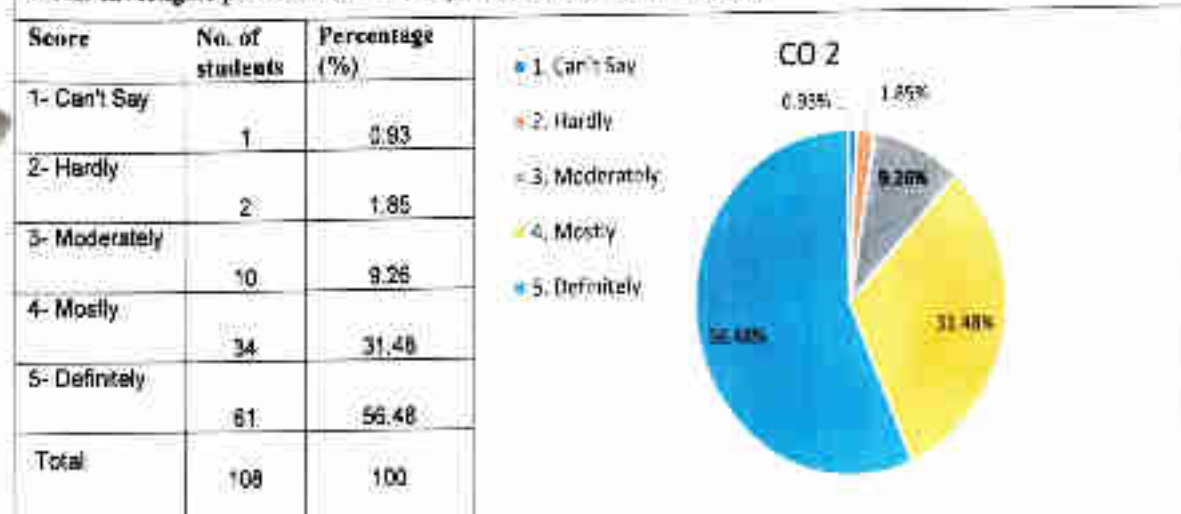
Subject – Professional Communication and Ethics

Subject Teacher – Dr. Neha Sharma/ Prof. Alka Purohit

CO.1. Discern & develop an effective style of writing important technical/ hu



CO.2. Investigate possible resources & plan a successful job campaign





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

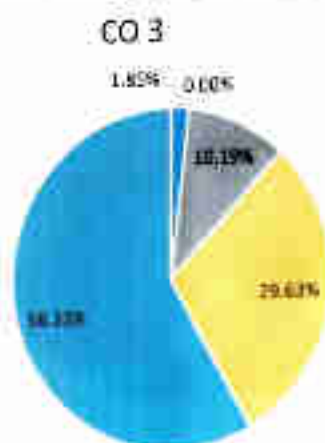
Subject – Professional Communication and Ethics

Subject Teacher – Dr. Neha Sharma/ Prof. Alka Purohit

CO.3. Understand the dynamics of professional communication in the form of group discussions, meetings, etc. required for career enhancement

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	0	0.00
3- Moderately	11	10.19
4- Mostly	32	29.63
5- Definitely	63	58.33
Total	108	100

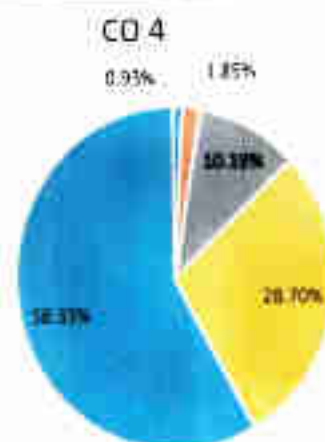
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Develop creative and impactful presentation skills

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	2	1.85
3- Moderately	11	10.19
4- Mostly	31	28.70
5- Definitely	63	58.33
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

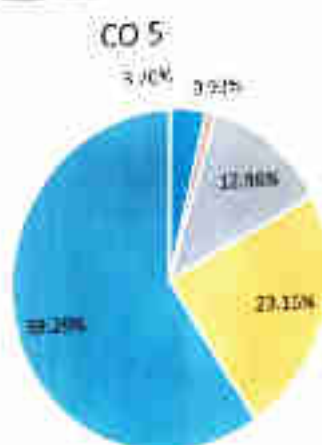
Subject – Professional Communication and Ethics

Subject Teacher – Dr. Neha Sharma/ Prof. Alka Purohit

CO.5. Analyse personal traits, interests, values, aptitudes & skills.

Score	No. of students	Percentage (%)
1- Can't Say	4	3.70
2- Hardly	1	0.93
3- Moderately	14	12.98
4- Mostly	25	23.15
5- Definitely	64	59.28
Total	108	100

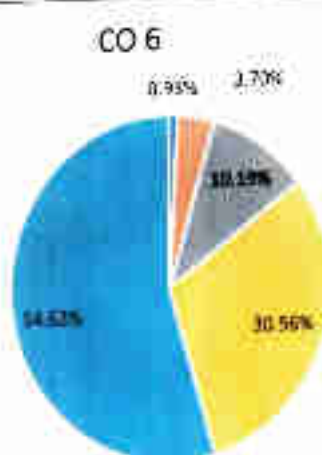
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Understand the importance of integrity and develop a personal code of ethics.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	4	3.70
3- Moderately	11	10.19
4- Mostly	33	30.56
5- Definitely	59	54.63
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

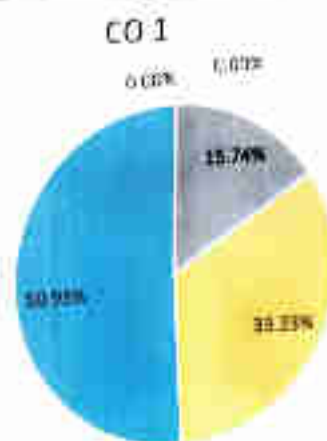
Subject – Mini Project-2A

Subject Teacher – Prof. Nilima Shende

CO.1. Illustrate the problems based on societal /research needs and formulate a solution strategy.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	17	15.74
4- Mostly	35	33.33
5- Definitely	55	50.93
Total	108	100

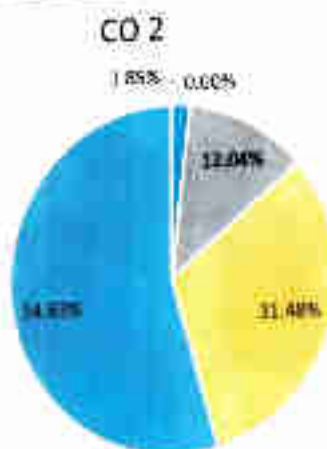
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Apply fundamentals to develop solutions to solve societal problems in a group

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	0	0.00
3- Moderately	13	12.04
4- Mostly	34	31.48
5- Definitely	59	54.63
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

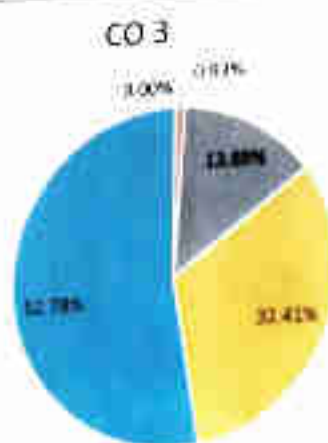
Subject – Mini Project-2A

Subject Teacher – Prof. Nilima Shende

CO.3. Analyse the specific need, formulate the problem and deduce the interdisciplinary approaches, software-based solutions and computer applications

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	15	13.89
4- Mostly	35	32.41
5- Definitely	57	52.78
Total	108	100

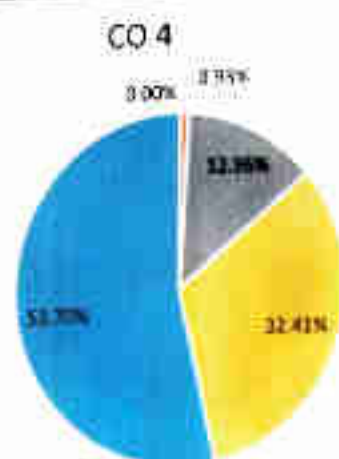
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Identify the systematic flow chart, evaluate inter disciplinary practices, devices, available software, estimate and recommend possible solutions

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	14	12.96
4- Mostly	35	32.41
5- Definitely	58	53.70
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-V)

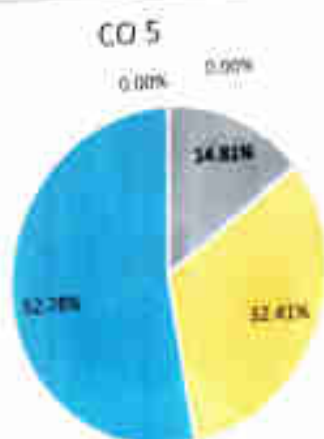
Subject – Mini Project-2A

Subject Teacher – Prof. Nilima Shende

CO.5. Demonstrate the proper inferences from available results through theoretical/ experimental/ simulations and assemble physical systems.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	16	14.81
4- Mostly	36	32.41
5- Definitely	57	52.78
Total	108	100

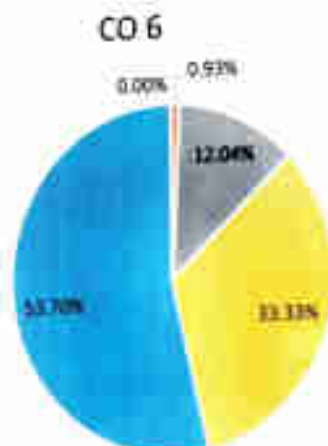
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Create devices or design a computer program or develop computer application

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	0.93
3- Moderately	13	12.04
4- Mostly	36	33.33
5- Definitely	58	53.70
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Course Exit Report Analysis (SEM-VII)

Subject – Quality Survey, Estimation and Valuation

Subject Teacher – Prof. Molly Mathew/ Prof. Sanjay Singh/ Prof. Shanthi Selvam

CO.1. Read, understand and interpret plans sections and detailed drawings. Prepare estimates for different construction projects.

Score	No. of students	Percentage (%)	
1- Can't Say	3	2.17	<ul style="list-style-type: none">■ 1. Can't Say■ 2. Hardly■ 3. Moderately■ 4. Mostly■ 5. Definitely
2- Hardly	1	0.72	
3- Moderately	7	5.07	
4- Mostly	38	27.54	
5- Definitely	80	64.49	
Total	138	100	

CO.2. Perform Quantity survey of materials, labours and equipments.

Score	No. of students	Percentage (%)	
1- Can't Say	2	1.45	<ul style="list-style-type: none">■ 1. Can't Say■ 2. Hardly■ 3. Moderately■ 4. Mostly■ 5. Definitely
2- Hardly	1	0.72	
3- Moderately	13	9.42	
4- Mostly	33	23.91	
5- Definitely	89	64.49	
Total	138	100	



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

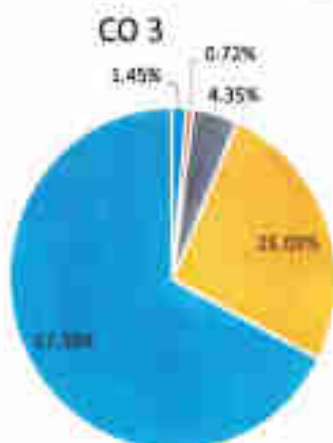
Subject – Quality Survey, Estimation and Valuation

Subject Teacher – Prof. Molly Mathew/ Prof. Sanjay Singh/ Prof. Shanthi Selvam

CO.3. Draft specifications for various items of work

Score	No. of students	Percentage (%)
1- Can't Say		
2- Hardly	2	1.45
3- Moderately	1	0.72
4- Mostly	6	4.35
5- Definitely	36	26.09
	93	67.39
Total	138	100

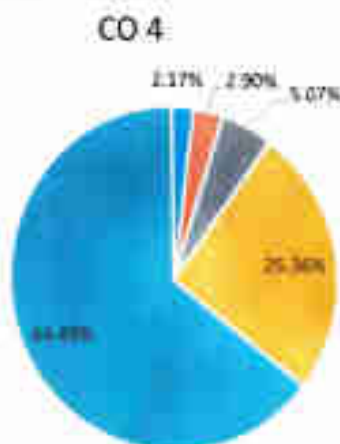
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Perform the rate analysis for various items of work

Score	No. of students	Percentage (%)
1- Can't Say		
2- Hardly	3	2.17
3- Moderately	4	2.90
4- Mostly	7	5.07
5- Definitely	35	25.36
	89	64.49
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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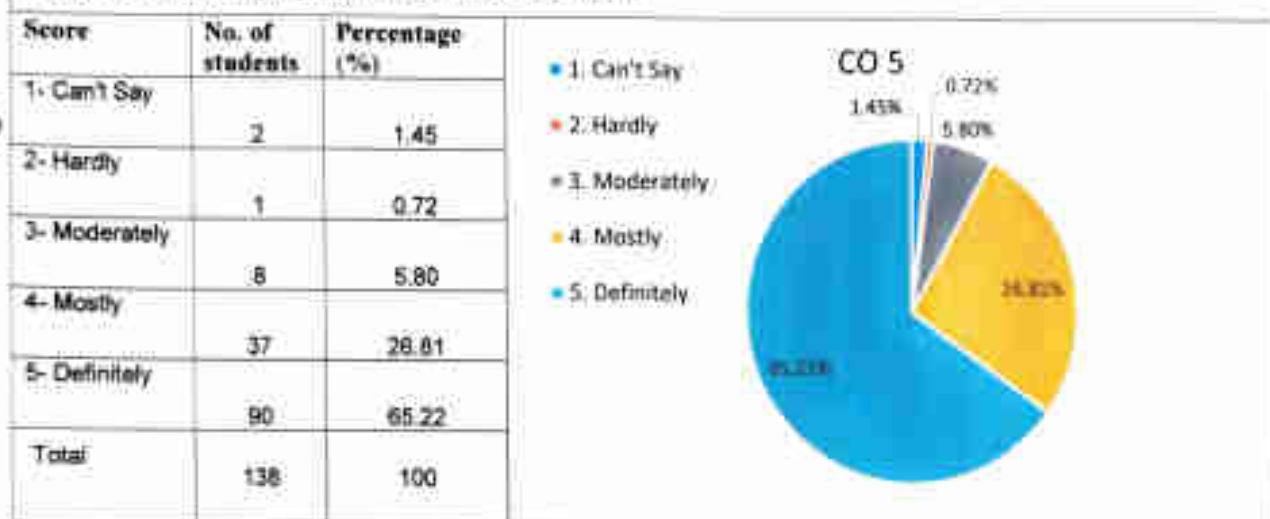
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

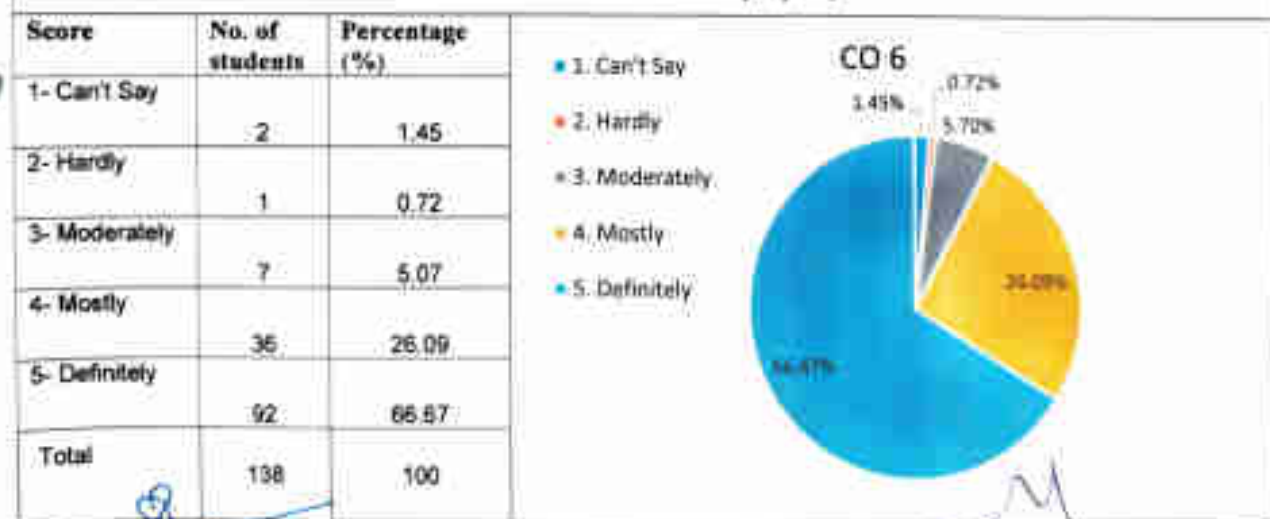
Subject – Quality Survey, Estimation and Valuation

Subject Teacher – Prof. Molly Mathew/ Prof. Sanjay Singh/ Prof. Shanthi Selvam

CO.5. Draft tender, prepare valid contract documents



CO.6. Understand the role of a valuer and asses the value of a property



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

Subject – Quality Survey, Estimation and Valuation (LAB)

Subject Teacher – Prof. Molly Mathew/ Prof. Sanjay Singh/ Prof. Shanthi Selvam

CO.1. Identify current unit rates of various construction materials through market survey & also study District Schedule of Rates (DSR)

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	2	1.45
3- Moderately	9	6.52
4- Mostly	37	28.81
5- Definitely	89	64.49
Total	138	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1. Can't Say	0.72%
2. Hardly	1.45%
3. Moderately	6.52%
4. Mostly	28.81%
5. Definitely	64.49%

CO.2. Prepare rate analysis of few important Items of work.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	9	6.52
4- Mostly	46	33.33
5- Definitely	78	56.52
Total	138	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

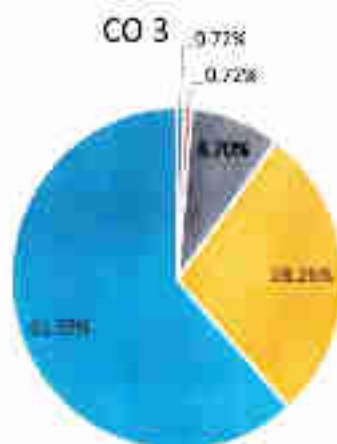
Score	Percentage (%)
1. Can't Say	1.45%
2. Hardly	2.17%
3. Moderately	6.52%
4. Mostly	33.33%
5. Definitely	56.52%



CO.3. Estimate approximate cost of the structures by using various methods & prepare detailed Estimates of various civil engineering structures, including bar bending schedule, by referring drawings

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	1	0.72
3- Moderately	12	8.70
4- Mostly	39	28.26
5- Definitely	85	61.58
Total	138	100

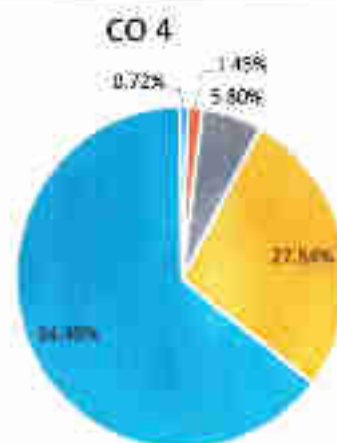
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Assess the quantities of earthwork & construct mass haul diagrams.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	2	1.45
3- Moderately	8	5.80
4- Mostly	38	27.54
5- Definitely	89	64.49
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-VII)

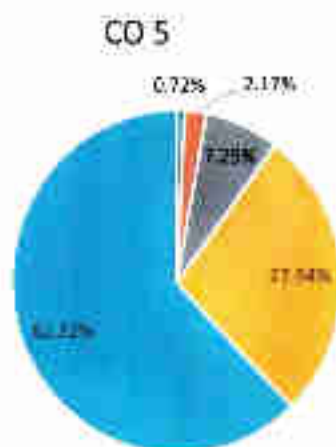
Subject – Quality Survey, Estimation and Valuation (LAB)

Subject Teacher – Prof. Molly Mathew/ Prof. Sanjay Singh/ Prof. Shanthi Selvam

CO.5. Draft tender notice & demonstrate the significance of the tender as well as contract process

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	3	2.17
3- Moderately	10	7.25
4- Mostly	38	27.54
5- Definitely	86	62.32
Total	138	100

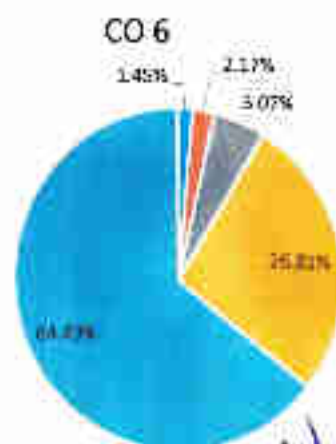
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Evaluate present fair value of any constructed building at stated time.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	7	5.07
4- Mostly	37	26.81
5- Definitely	89	64.49
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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CO.1. Refine a conceptual design into a detailed design by applying the provisions of relevant engineering codes and standards

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	8	5.80
4- Mostly	48	34.78
5- Definitely	77	55.80
Total	138	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1. Can't Say	1.45%
2. Hardly	2.17%
3. Moderately	5.80%
4. Mostly	34.78%
5. Definitely	55.80%

CO.2. Identify the mathematical, engineering, and other relevant knowledge that applies to the design of retaining walls.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	10	7.25
4- Mostly	48	34.78
5- Definitely	75	54.35
Total	138	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1. Can't Say	1.45%
2. Hardly	2.17%
3. Moderately	7.25%
4. Mostly	34.78%
5. Definitely	54.35%



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

Subject – Design and Drawing Reinforced Concrete Structures

Subject Teacher – Prof. Roshni John/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Niranjan Patil

CO.3. Discuss the structural behaviour and apply the concepts of WSM in the design of RCC water tanks

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	5	3.62
3- Moderately	10	7.25
4- Mostly	45	32.61
5- Definitely	77	55.80
Total	138	100

CO 3

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.4. Explain the basics of structural dynamics and identify the structural behavior under the dynamic load and the effect of damping

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	3	2.17
3- Moderately	9	6.52
4- Mostly	46	34.76
5- Definitely	77	55.80
Total	138	100

CO 4

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

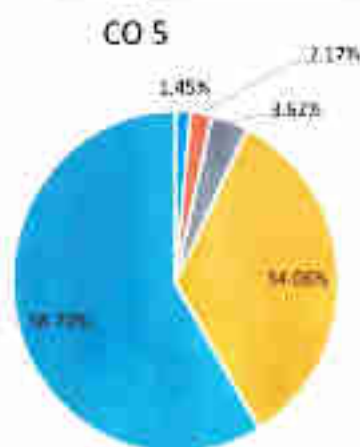
Subject – Design and Drawing Reinforced Concrete Structures

Subject Teacher – Prof. Roshni John/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Niranjan Patil

CO.5. Demonstrate the response of a structure during earthquake and determine design seismic forces

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	5	3.62
4- Mostly	47	34.05
5- Definitely	81	58.70
Total	138	100

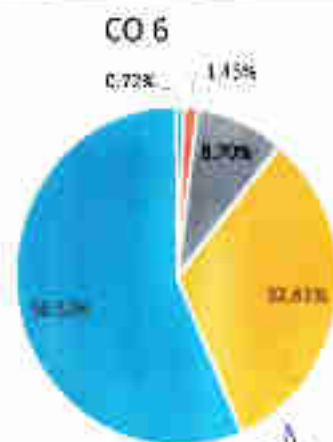
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Explain principles of prestressing and analyse the stresses in prestressed beams

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	2	1.45
3- Moderately	12	8.70
4- Mostly	45	32.61
5- Definitely	78	56.52
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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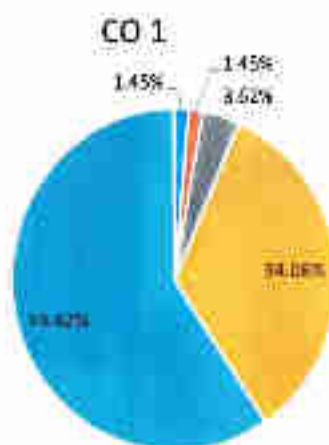

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CO.1. Design components of G+3 RCC framed building using IS code recommendations:

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	2	1.45
3- Moderately	5	3.62
4- Mostly	47	34.08
5- Definitely	82	59.42
Total	138	100

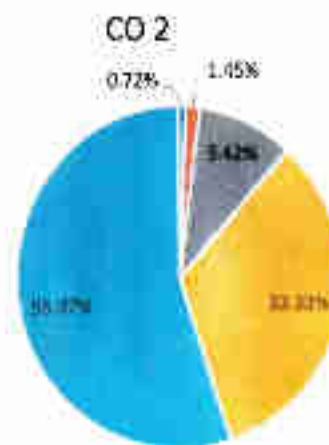
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Apply mathematical, engineering, and other relevant knowledge that applies to the design of retaining walls.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	2	1.45
3- Moderately	13	9.42
4- Mostly	46	33.33
5- Definitely	76	55.07
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





CO.3. Discuss the structural behaviour and apply the concepts of WSM in the design of RCC water tanks

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	12	8.70
4- Mostly	43	31.16
5- Definitely	78	56.52
Total	138	100

CO 3

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

CO.4. Apply the basics of structural dynamics and identify the structural behavior under the dynamic load and the effect of damping.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.17
2- Hardly	3	2.17
3- Moderately	13	9.42
4- Mostly	48	34.78
5- Definitely	71	51.45
Total	138	100

CO 4

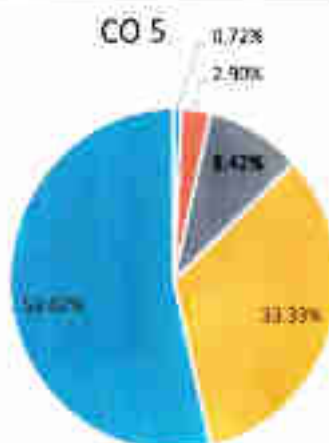
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.5. Evaluate the response of structure during an earthquake

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	4	2.90
3- Moderately	13	9.42
4- Mostly	46	33.33
5- Definitely	74	53.62
Total	138	100

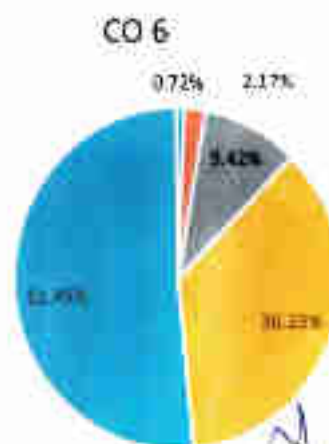
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Explain principles of Pre stressed Concrete and analyse the losses due to prestress

Score	No. of students	Percentage (%)
1- Can't Say	1	0.72
2- Hardly	3	2.17
3- Moderately	13	9.42
4- Mostly	50	36.23
5- Definitely	71	51.45
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

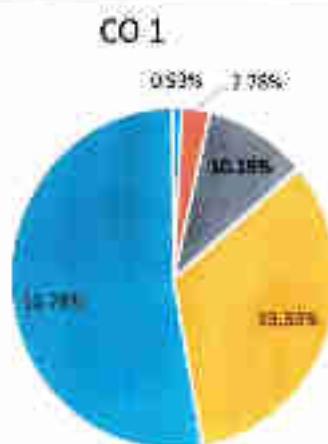
Subject – Advanced Construction Technology

Subject Teacher – Prof. Pallavi Tajane/ Prof. Athira Haridas/ Prof. Mrinmayee Ganage

CO.1. Evaluate the procedure of construction techniques for sub structure of major civil engineering projects

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	3	2.78
3- Moderately	11	10.19
4- Mostly	38	33.33
5- Definitely	57	52.78
Total	108	100

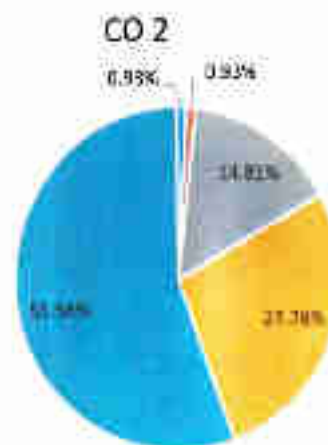
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Explain various stages of construction of super structure of major civil engineering projects:

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	16	14.81
4- Mostly	30	27.78
5- Definitely	60	55.56
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

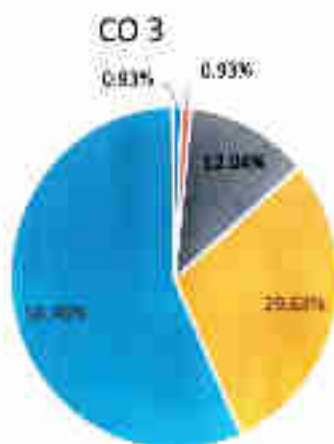




CO.3. Classify the implementation of new construction technology on engineering concepts which are applied in the field Advanced construction technology in special structures

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	13	12.04
4- Mostly	32	29.63
5- Definitely	61	56.48
Total	108	100

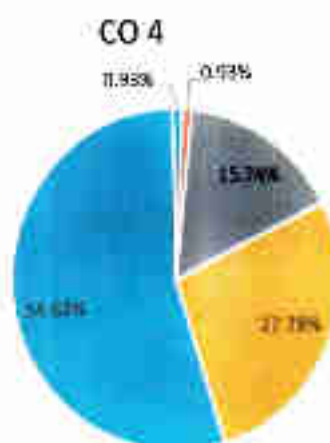
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Examine diverse knowledge of the different methods of advancement in construction techniques and ground improvement techniques.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	17	15.74
4- Mostly	30	27.78
5- Definitely	59	54.63
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Kharghar, New Mumbai - 410 210

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

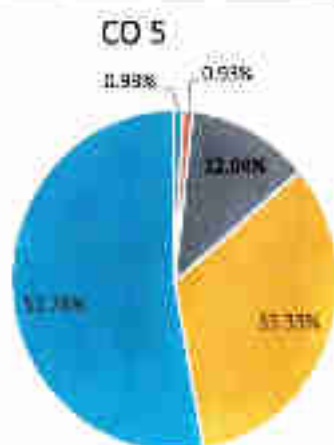
Subject – Advanced Construction Technology

Subject Teacher – Prof. Pallavi Tajane/ Prof. Athira Haridas/ Prof. Mrinmayee Ganuge

CO.5. Determine various dredging systems for major civil engineering projects

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	1	0.93
3- Moderately	13	12.04
4- Mostly	36	33.33
5- Definitely	57	52.78
Total	108	100

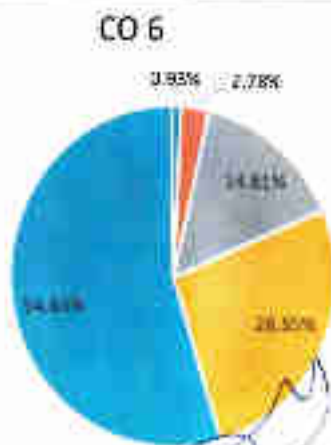
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Explain the theoretical and practical aspects of rehabilitation and strengthening techniques in civil engineering along with the design and management applications

Score	No. of students	Percentage (%)
1- Can't Say	1	0.93
2- Hardly	3	2.78
3- Moderately	16	14.81
4- Mostly	29	26.85
5- Definitely	59	54.63
Total	108	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



HOD
Civil Dept.

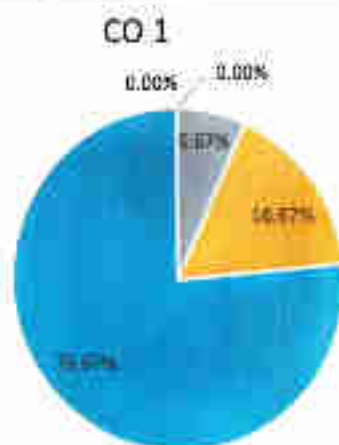
Principal
SCOE



CO.1. Distinguish between Prestressed Concrete and RCC.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	6.67
4- Mostly	5	16.67
5- Definitely	23	76.67
Total	30	100

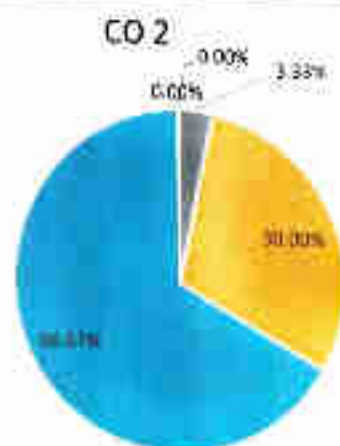
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Calculate the stresses in PSC beams using stress method, Internal resisting couple method and load balancing concept

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	1	3.33
4- Mostly	9	30.00
5- Definitely	20	66.67
Total	30	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

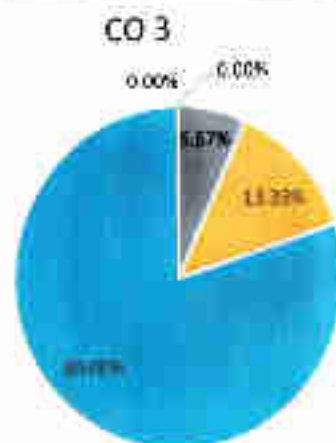




CO.3. Estimate the losses in prestress concrete

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	6.67
4- Mostly	4	13.33
5- Definitely	24	80.00
Total	30	100

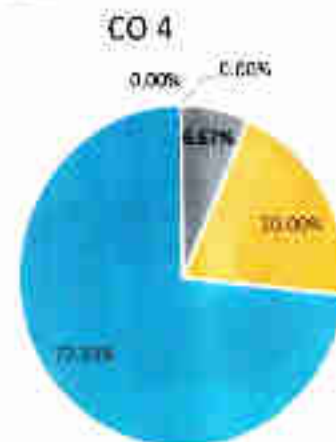
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Compute the instantaneous and long term deflection in prestressed concrete beams.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	6.67
4- Mostly	6	20.00
5- Definitely	22	73.33
Total	30	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

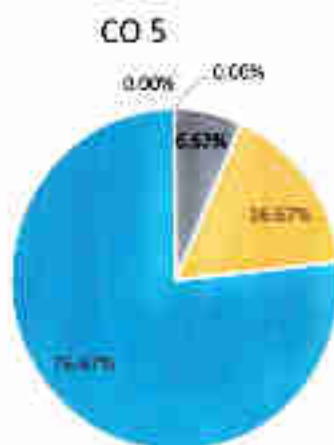
Subject – Prestressed Concrete

Subject Teacher – Prof. Shahbaz Khan

CO.5. Calculate the principal tension and flexural strength of prestressed concrete beams in limit state of serviceability

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	6.67
4- Mostly	5	16.67
5- Definitely	23	76.67
Total	30	100

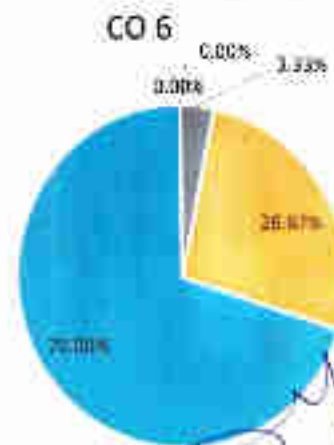
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Design of prestressed concrete beams in limit state of serviceability, maximum compression and cracking

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	1	3.33
4- Mostly	8	26.67
5- Definitely	21	70.00
Total	30	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

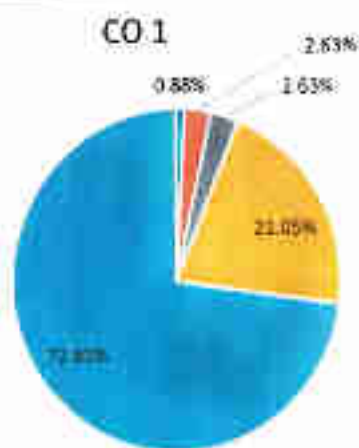
Subject – Solid Hazardous Waste Management

Subject Teacher – Prof. Asmita Lakhote/ Dr.Saumya Singh

CO.1. Read, understand and interpret technical and non-technical information which describe functional elements of solid waste management and its need.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.88
2- Hardly	3	2.63
3- Moderately	3	2.63
4- Mostly	24	21.05
5- Definitely	83	72.81
Total	114	100

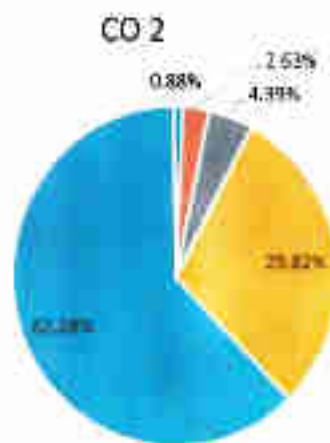
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. To understand the characteristics of different types of solid waste and solving problem related to waste characteristics

Score	No. of students	Percentage (%)
1- Can't Say	1	0.88
2- Hardly	3	2.63
3- Moderately	5	4.38
4- Mostly	34	29.82
5- Definitely	71	62.28
Total	114	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

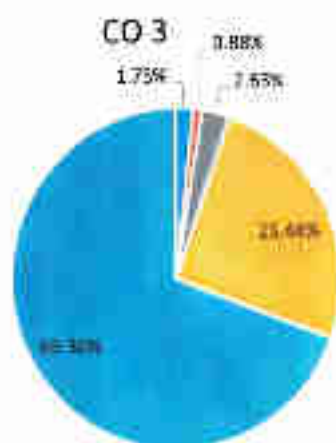




CO.3. Compare and contrast alternative solution/methods to select the best techniques for waste processing and energy recovery

Score	No. of students	Percentage (%)
1- Can't Say	2	1.75
2- Hardly	1	0.88
3- Moderately	3	2.63
4- Mostly	29	25.44
5- Definitely	75	69.30
Total	114	100

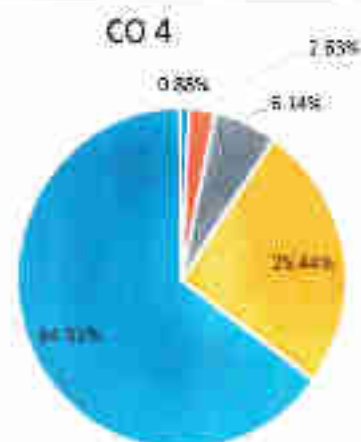
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Study methods or techniques for waste processing

Score	No. of students	Percentage (%)
1- Can't Say	1	0.88
2- Hardly	3	2.63
3- Moderately	7	6.14
4- Mostly	29	25.44
5- Definitely	74	64.91
Total	114	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VII)

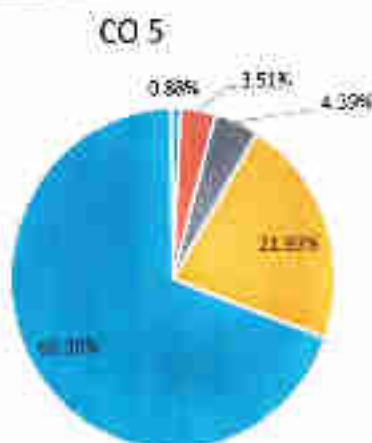
Subject – Solid Hazardous Waste Management

Subject Teacher – Prof. Asmita Lakhote/ Dr.Saumya Singh

CO.5. Identify existing hazardous waste management processes or methods for solving the problem through its safe handling and disposal

Score	No. of students	Percentage (%)
1- Can't Say	1	0.88
2- Hardly	4	3.51
3- Moderately	5	4.39
4- Mostly	25	21.93
5- Definitely	79	69.30
Total	114	100

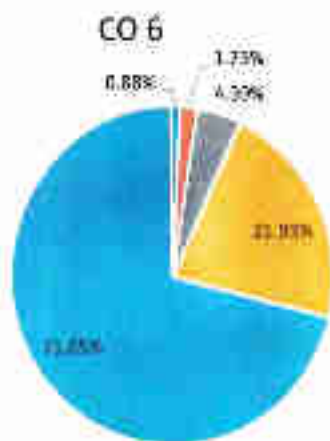
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Explore and synthesize engineering requirements considering health, safety risks, environmental and societal issues for treatment, disposal and management of Biomedical, plastic, Construction and Demolition waste & E- waste

Score	No. of students	Percentage (%)
1- Can't Say	1	0.88
2- Hardly	2	1.75
3- Moderately	5	4.39
4- Mostly	25	21.93
5- Definitely	81	71.05
Total	114	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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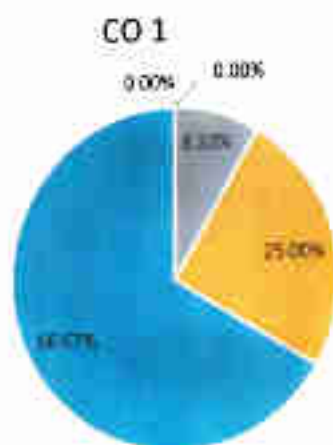
Subject – Legal Aspects in Construction

Subject Teacher – Prof. Tarannum Shaikh

CO.1. Explain needs of various laws and legislation related to Construction Industry.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	8.33
4- Mostly	6	25.00
5- Definitely	16	66.67
Total	24	100

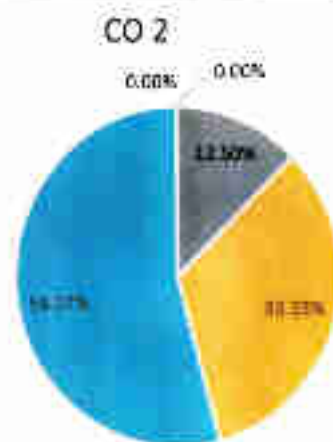
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Describe applications of various Contracts and their forms

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	3	12.50
4- Mostly	6	33.33
5- Definitely	13	54.17
Total	24	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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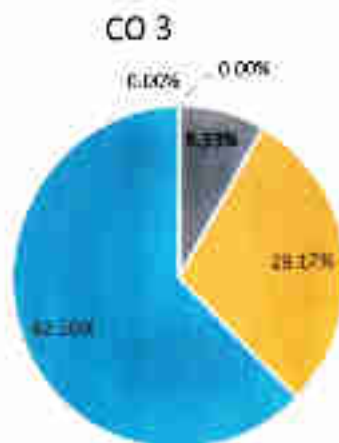
Subject – Legal Aspects in Construction

Subject Teacher – Prof. Tarannum Shaikh

CO.3. Describe applications of various Tenders and their forms

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	8.33
4- Mostly	7	29.17
5- Definitely	15	62.50
Total	24	100

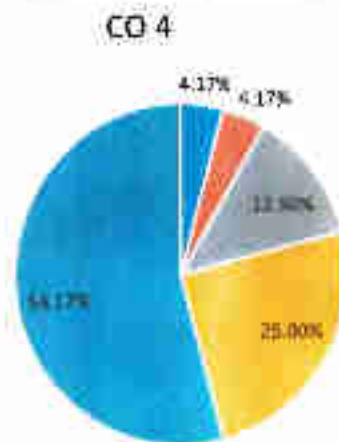
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Evaluate needs and methods of arbitration and dispute resolution mechanism

Score	No. of students	Percentage (%)
1- Can't Say	1	4.17
2- Hardly	1	4.17
3- Moderately	3	12.50
4- Mostly	6	25.00
5- Definitely	13	54.17
Total	24	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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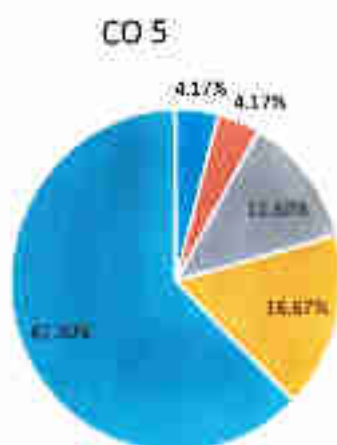
Subject – Legal Aspects in Construction

Subject Teacher – Prof. Tarannum Shaikh

CO.5. Explain health, safety and labour laws associated with construction industry

Score	No. of students	Percentage (%)
1- Can't Say	1	4.17
2- Hardly	1	4.17
3- Moderately	3	12.50
4- Mostly	4	16.67
5- Definitely	15	62.50
Total	24	100

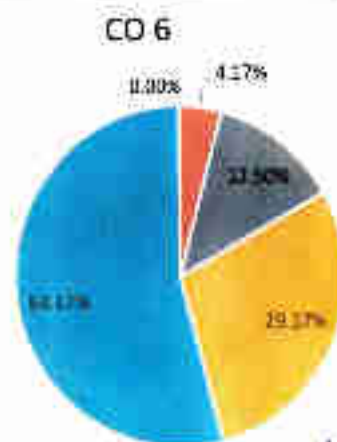
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Apply needs of environmental protection and ethics in construction industry

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	4.17
3- Moderately	3	12.50
4- Mostly	7	29.17
5- Definitely	13	54.17
Total	24	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Coarse Exit Report Analysis (SEM-VII)

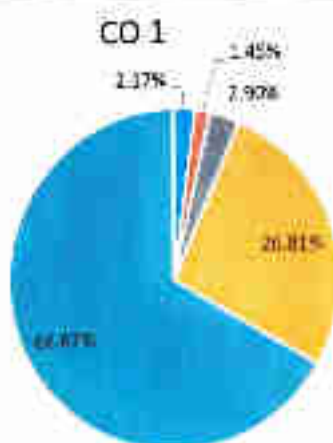
Subject – Disaster Management and Mitigation Measures

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Tarannum Shaikh/ Prof. Neha Chhangani

CO.1. Understand and distinguish the various types of disasters occurring around the world.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.17
2- Hardly	2	1.45
3- Moderately	4	2.90
4- Mostly	37	26.81
5- Definitely	82	66.57
Total	138	100

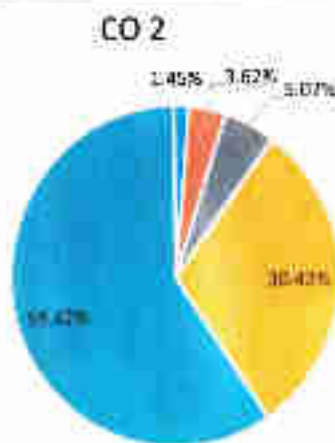
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Identify and analyse natural and manmade disasters and their extent and possible effects on the economy

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	5	3.62
3- Moderately	7	5.07
4- Mostly	42	30.43
5- Definitely	82	59.42
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

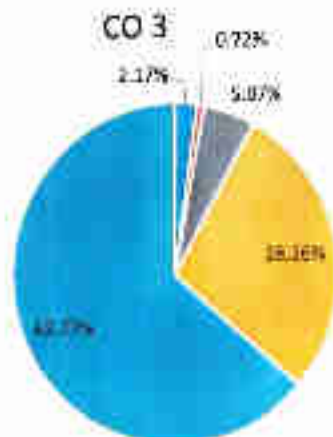




CO.3. Determine and get acquainted with government policies, acts and various organizational structure associated with an emergency.

Score	No. of students	Percentage (%)
1- Can't Say	5	2.17
2- Hardly	1	0.72
3- Moderately	7	5.07
4- Mostly	39	28.26
5- Definitely	86	63.77
Total	138	100

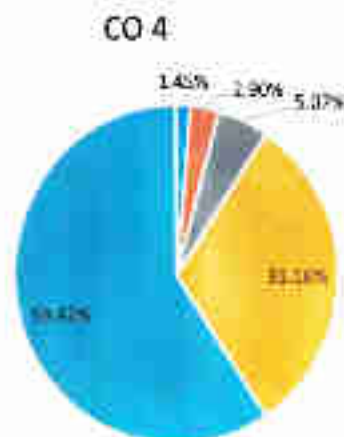
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. To explain the institutional framework and GIS application in disaster management

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	4	2.90
3- Moderately	7	5.07
4- Mostly	43	31.16
5- Definitely	82	59.42
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-VII)

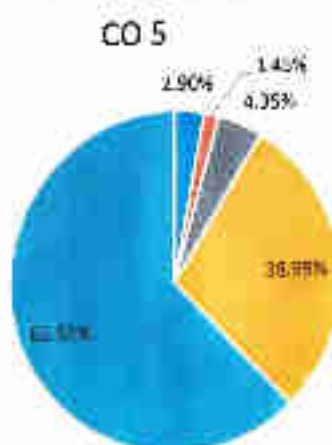
Subject – Disaster Management and Mitigation Measures

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Tarannum Shaikh/ Prof. Neha Chhangani

CO.5. Categorize the various ways to raise the funds for relief operations

Score	No. of students	Percentage (%)
1- Can't Say	4	2.90
2- Hardly	2	1.45
3- Moderately	8	4.35
4- Mostly	40	28.99
5- Definitely	86	62.32
Total	138	100

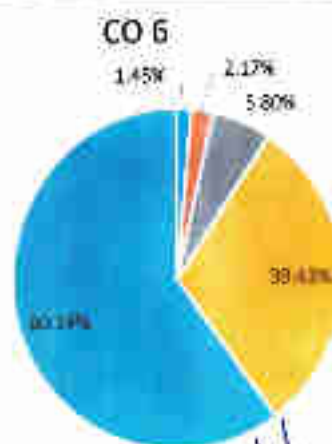
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Make use of simple preventive and mitigation measures before and after disasters.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	8	5.80
4- Mostly	42	30.43
5- Definitely	83	60.14
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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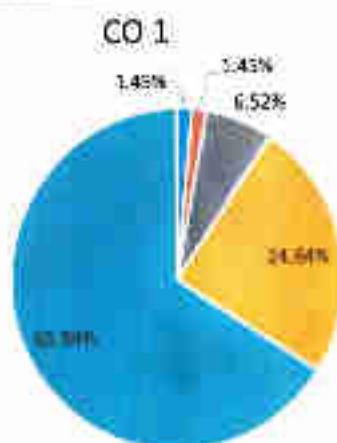
Subject – Project Stage- I

Subject Teacher – Prof. Shanthi Selvam

CO.1. Evaluate, Apply and analyse problem statements based on societal /research needs and identifies objectives to solve an engineering problem in society

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	2	1.45
3- Moderately	9	6.52
4- Mostly	34	24.64
5- Definitely	91	65.94
Total	138	100

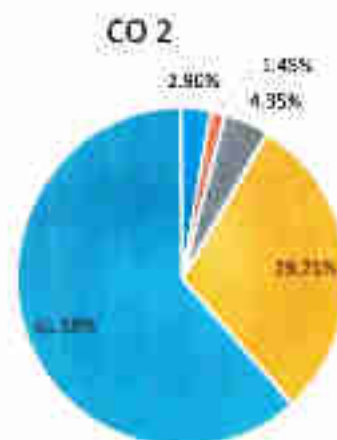
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Explore and synthesize system requirements from larger social and professional concerns and identify modern engineering tools, techniques and resources to produce a variety of potential design solutions

Score	No. of students	Percentage (%)
1- Can't Say	4	2.90
2- Hardly	2	1.45
3- Moderately	6	4.35
4- Mostly	41	29.71
5- Definitely	85	61.59
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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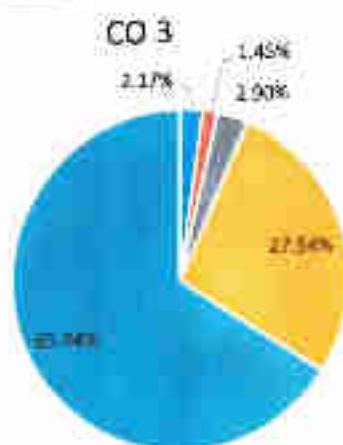
Subject – Project Stage- I

Subject Teacher – Prof. Shanthi Selvam

CO.3. Critically analyse data through theoretical/ experimental/simulations and describe management techniques to analyse the impact of solutions in societal and environmental for sustainable development

Score	No. of students	Percentage (%)
1- Can't Say	3	2.17
2- Hardly	2	1.45
3- Moderately	4	2.90
4- Mostly	38	27.54
5- Definitely	91	65.94
Total	138	100

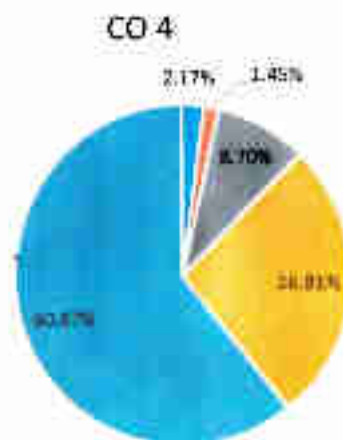
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Interpret legislation, regulations, codes, and use standard norms of engineering practices to identify and understand situations of unethical professional conduct and propose ethical alternatives

Score	No. of students	Percentage (%)
1- Can't Say	3	2.17
2- Hardly	2	1.45
3- Moderately	12	8.70
4- Mostly	37	26.81
5- Definitely	64	60.87
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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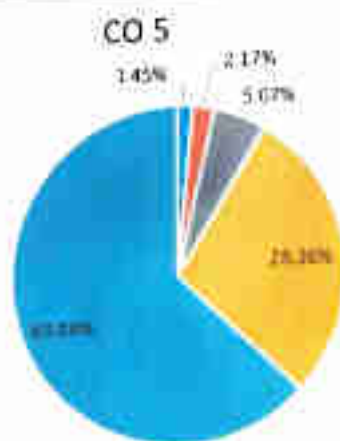
Subject – Project Stage- 1

Subject Teacher – Prof. Shanthi Selvam

CO.5. Recognize and develop a variety of interpersonal skills to work as member of a group or leader and produce well-constructed written engineering documents for publications and deliver effective oral presentations

Score	No. of students	Percentage (%)
1- Can't Say	2	1.45
2- Hardly	3	2.17
3- Moderately	7	5.07
4- Mostly	39	28.25
5- Definitely	87	63.04
Total	138	100

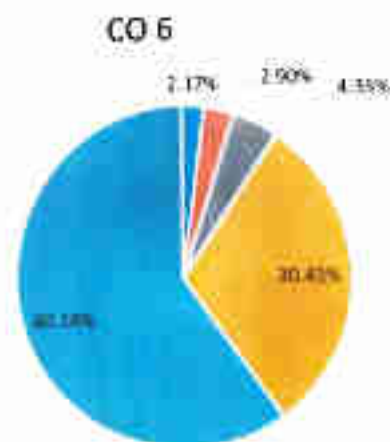
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Describe the rationale and Use project management tools to schedule project work leads to lifelong learning for continuing professional development.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.17
2- Hardly	4	2.90
3- Moderately	6	4.35
4- Mostly	42	30.43
5- Definitely	83	60.14
Total	138	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





**SARASWATI EDUCATION SOCIETY'S
SARASWATI COLLEGE OF ENGINEERING
KHARGHAR, NAVI MUMBAI- 410210**

**Department of Civil Engineering
Action taken based on feedback from students (CO & PO)
Academic Year :2023-24 (EVEN)**

Summary of Feedback:

Feedbacks collected through course exit forms were analyzed and necessary actions which are useful for students were planned and conducted. Abstract of suggestions obtained from the stakeholders to enhance the employability of the student are discussed below.

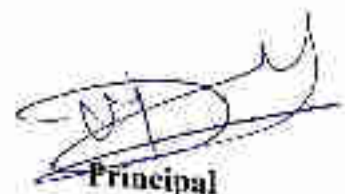
Action Taken:

Based on suggestions, Action taken is mentioned below.

Subject	Faculty Name	Feedback/suggestions	Action Taken	Date
SDLC-II & III	Prof. Chaitali Isal	Need to learn new software	AutoCAD Course	30/1/2024 22/4/2024
BMCT	Prof. Sujaya Wadkar	For additional experiment	Site Visit to Technology Transfer Centre, Turbhe labs	27/6/2024 28/6/2024
Mini Project and Major Project	Prof. Manoj Pillaj	Identifying research topic	Technathon-2024 State level project competition for Degree and Diploma students	15/3/2024



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Academic Year: 2023-2024

Course Exit Report Analysis (SEM-IV)

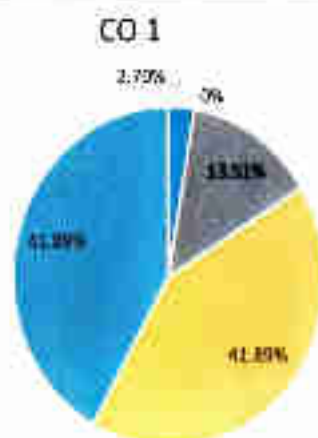
Subject – Engineering Mathematics-IV

Subject Teacher – Prof. Madhukar Andhale

CO1: Apply the concept of Vector calculus to evaluate line integrals, surface integrals using Green's theorem, Stoke's theorem & Gauss Divergence theorem.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	0	0
3- Moderately	10	13.51
4- Mostly	31	41.89
5- Definitely	31	41.89
Total	74	100

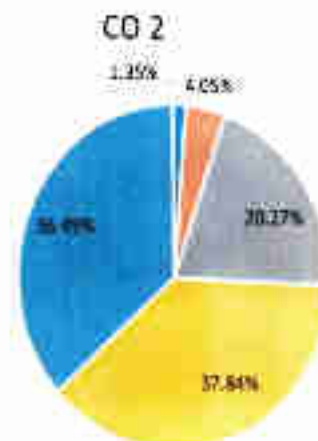
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.2 Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	15	20.27
4- Mostly	28	37.84
5- Definitely	27	36.49
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

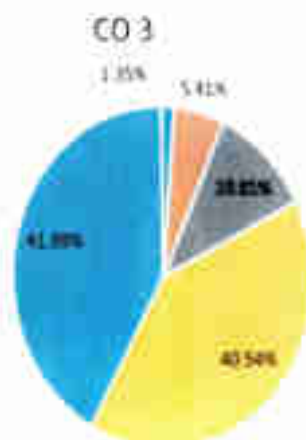
Subject – Engineering Mathematics-IV

Subject Teacher – Prof. Madhukar Andhale

CO.3 Apply the concept of Correlation, Regression and curve fitting to the engineering problems in data science.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	4	5.41
3- Moderately	8	10.81
4- Mostly	30	40.54
5- Definitely	31	41.89
Total	74	100

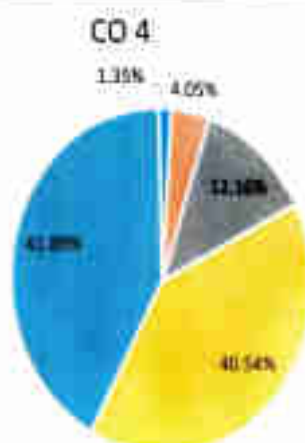
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4 Illustrate understanding of the concepts of probability and expectation for getting the spread of the data and distribution of probabilities.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	9	12.16
4- Mostly	30	40.54
5- Definitely	31	41.89
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year - 2023-2024

Course Exit Report Analysis (SEM-IV)

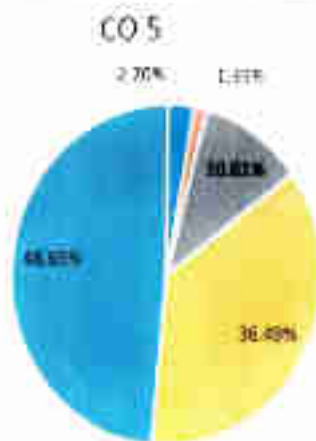
Subject - Engineering Mathematics-IV

Subject Teacher - Prof. Madhukar Andhale

CO. 5 Apply the concept of probability distribution to engineering problems & Testing hypothesis of small samples using sampling theory.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	1	1.35
3- Moderately	8	10.81
4- Mostly	27	36.49
5- Definitely	36	48.65
Total	74	100

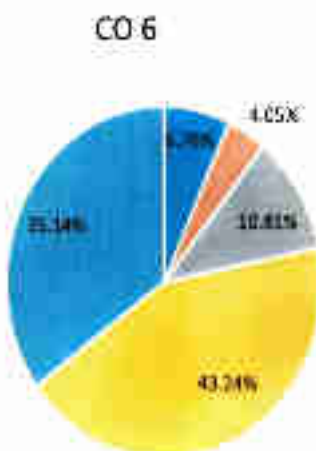
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO. 6 Apply the concepts of parametric and nonparametric tests for analysing practical problems.

Score	No. of students	Percentage (%)
1- Can't Say	5	6.76
2- Hardly	3	4.05
3- Moderately	6	10.81
4- Mostly	32	43.24
5- Definitely	28	35.14
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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Department of Civil Engineering

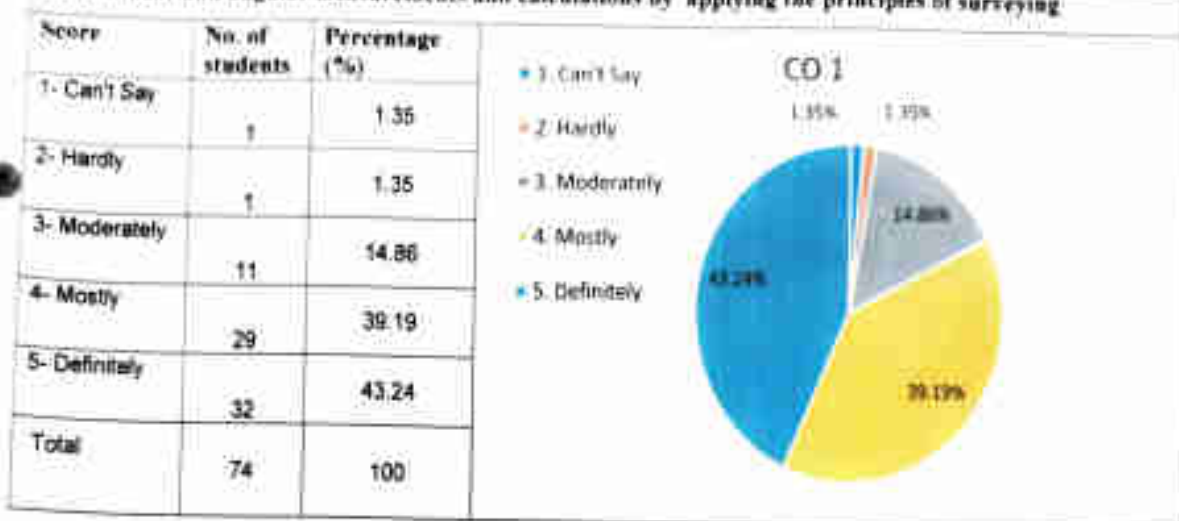
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

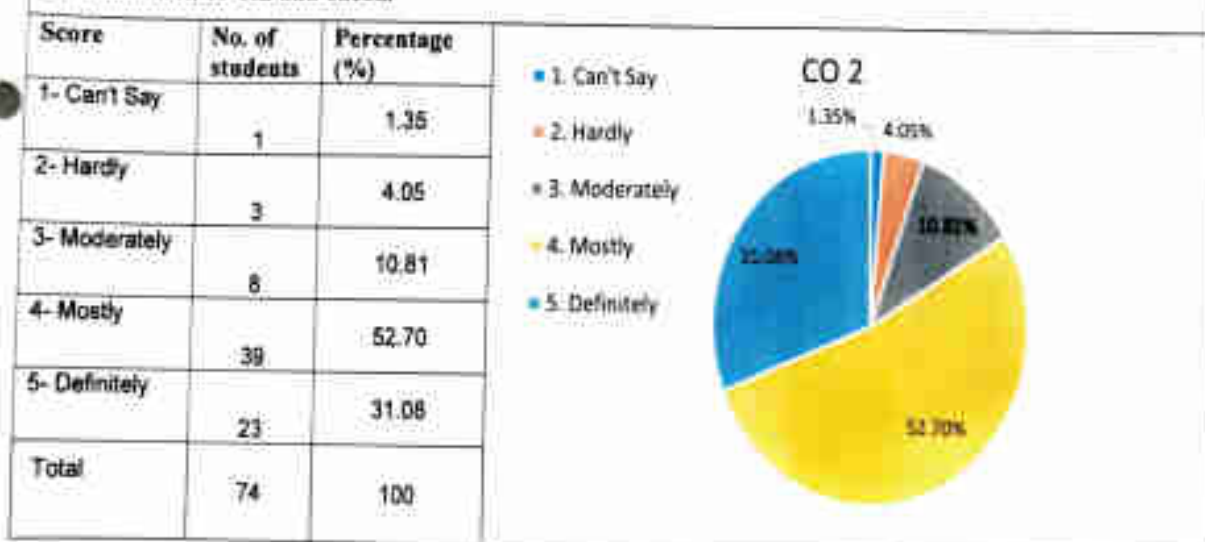
Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Yugandhara Kasture

CO-1 Linear and angular measurements and calculations by applying the principles of surveying



CO-2 selection of suitable types of levelling for measuring vertical distances and their applications for determination of RL and check.





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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

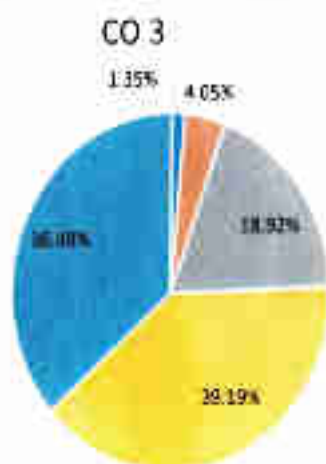
Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Yugandhara Kasture

CO.3 Record of data using theodolite and analysis of the field data for preparation of drawing.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	14	18.92
4- Mostly	29	39.19
5- Definitely	27	36.48
Total	74	100

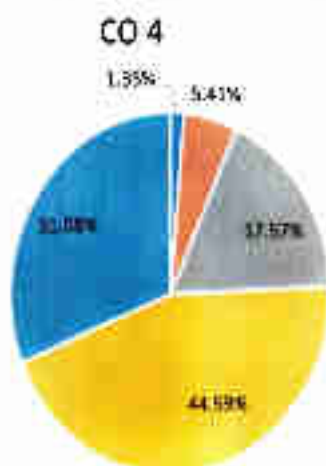
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4 Make use of indirect and advanced methods of surveying

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	4	5.41
3- Moderately	13	17.57
4- Mostly	33	44.59
5- Definitely	23	31.08
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

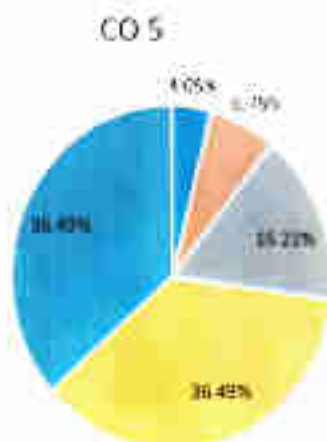
Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Yugandhara Kasture

CO- 5 Determination of areas and volumes for solving surveying problems.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	5	6.76
3- Moderately	12	16.22
4- Mostly	27	36.49
5- Definitely	27	36.49
Total	74	100

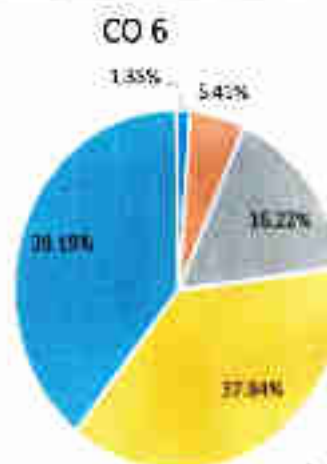
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO- 6. Design and setting out of horizontal and vertical curves using suitable methods.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	4	5.41
3- Moderately	12	16.22
4- Mostly	28	37.84
5- Definitely	29	39.19
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

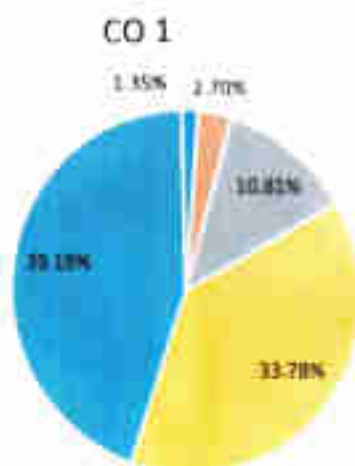
Subject – Building Materials and Concrete Technology (Theory)

Subject Teacher – Prof. Deepali Phadtare / Prof. Sujaya Wadekar

CO. 1. Develop & implement the conceptual knowledge of building materials in the construction industry.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	2	2.70
3- Moderately	8	10.81
4- Mostly	25	33.78
5- Definitely	38	51.35
Total	74	100

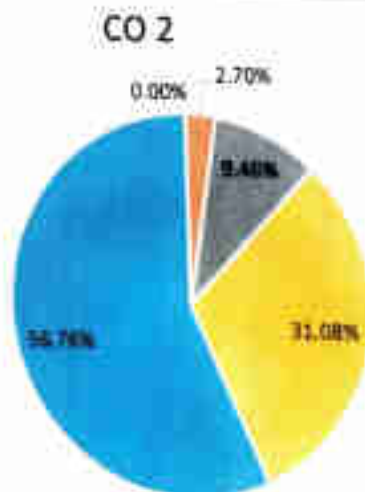
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 2. Classify the type & manufacturing process of different types of building materials.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	2.70
3- Moderately	7	9.46
4- Mostly	23	31.08
5- Definitely	42	56.76
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

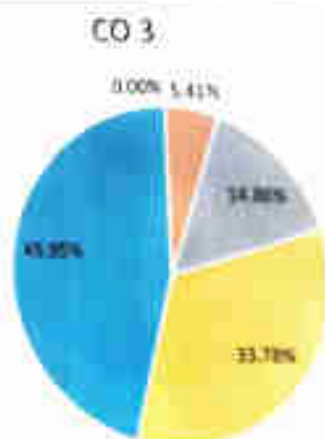
Subject -- Building Materials and Concrete Technology (Theory)

Subject Teacher - Prof. Deepali Phadtare / Prof. Sujaya Wadekar

CO. 3. Assess the various quality control aspects of civil engineering materials by performing different lab tests on materials.)

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	4	5.41
3- Moderately	11	14.86
4- Mostly	25	33.78
5- Definitely	34	45.95
Total	74	100

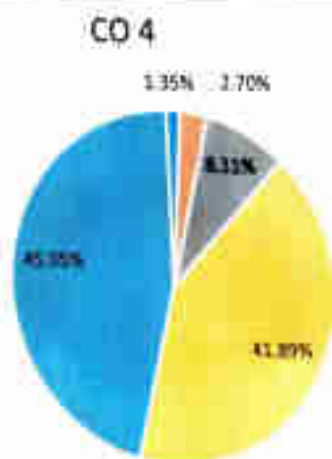
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 4. Identify the ingredients & properties of fresh and hardened concrete.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	2	2.70
3- Moderately	6	8.11
4- Mostly	31	41.89
5- Definitely	34	45.95
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year - 2023-2024

Course Exit Report Analysis (SEM-IV)

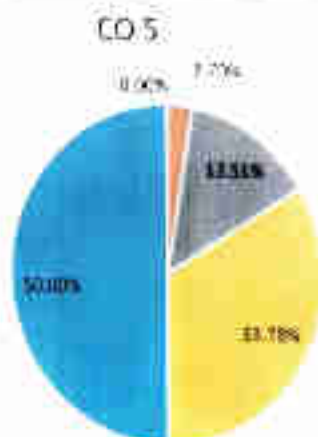
Subject – Building Materials and Concrete Technology (Theory)

Subject Teacher – Prof. Deepali Phadtare / Prof. Sujaya Wadekar

CO. 5. Design and interpret concrete mix for various grades for various exposure conditions.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	2.70
3- Moderately	10	13.51
4- Mostly	25	33.78
5- Definitely	37	50.00
Total	74	100

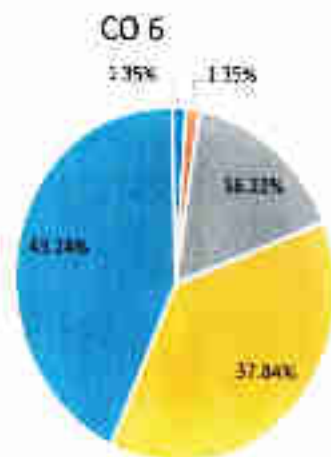
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO. 6. Explain the new technology for manufacturing, testing & quality of concrete.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	1	1.35
3- Moderately	12	16.22
4- Mostly	28	37.84
5- Definitely	32	43.24
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

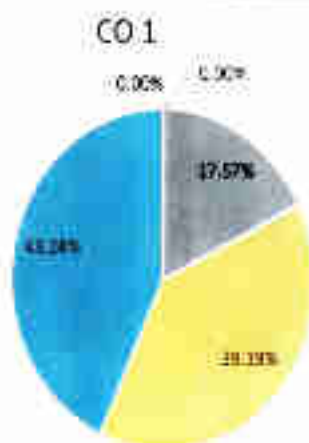
Subject – Fluid Mechanics - II (Theory)

Subject Teacher – Prof. Pooja Somani

CO. 1. Analyze flow through pipes, various losses through pipes, pipe network and power transmission through nozzle.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	13	17.57
4- Mostly	29	39.19
5- Definitely	32	43.24
Total	74	100

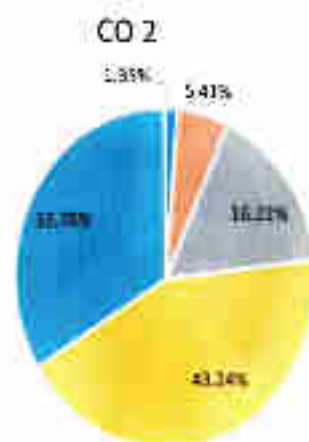
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 2. Explain the concept of Laminar flow and velocity distribution through parallel plates and pipes

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	4	5.41
3- Moderately	12	16.22
4- Mostly	32	43.24
5- Definitely	25	33.78
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year - 2023-2024

Course End Report Analysis (SEM-IV)

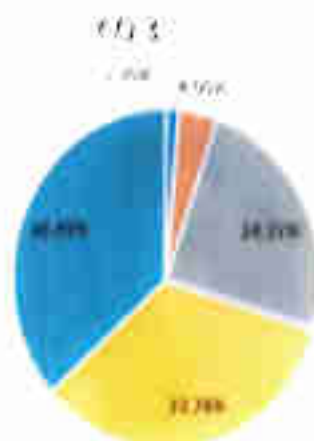
Subject - Fluid Mechanics - II (Theory)

Subject Teacher - Prof. Pooja Sonant

CO-3 Explain the concept of Turbulent flow and velocity distribution in pipes

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	18	24.32
4- Mostly	25	33.78
5- Definitely	27	36.49
Total	74	100

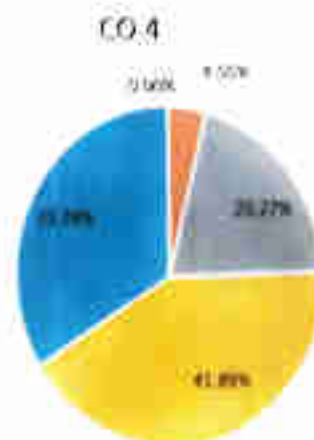
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO-4 Describe boundary layer concept, boundary layer separation and flow around submerged bodies

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	3	4.05
3- Moderately	15	20.27
4- Mostly	31	41.89
5- Definitely	25	33.78
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

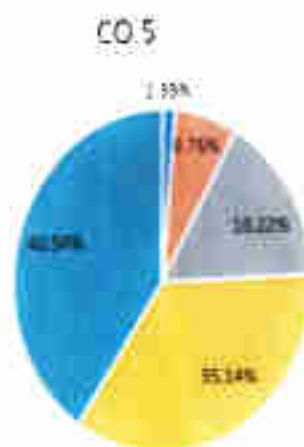
Subject -- Fluid Mechanics - II (Theory)

Subject Teacher - Prof. Pooja Somani

CO.5. Apply Moment of Momentum Principle.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	5	6.76
3- Moderately	12	16.22
4- Mostly	26	35.14
5- Definitely	30	40.54
Total	74	100

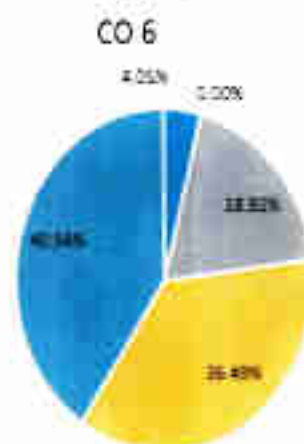
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO.6. Explain the importance of dimensionless numbers, dimensional analysis and similarity behavior of model and prototype.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	0	0.00
3- Moderately	14	18.92
4- Mostly	27	36.49
5- Definitely	30	40.54
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

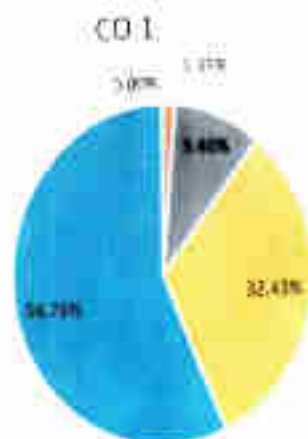
Subject - Structural Analysis (Theory)

Subject Teacher - Prof. Shweta Motharkar/ Prof. Manoj Pillai/ Prof. Dinesh Joshi

CO-1. Determine the forces acting on determinate structures such as trusses and arches.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	1.35
3- Moderately	7	9.46
4- Mostly	24	32.43
5- Definitely	42	56.76
Total	74	100

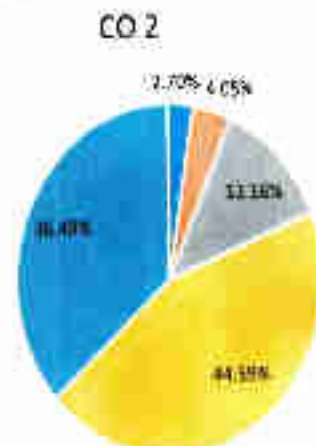
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO-2. Draw influence line diagrams for axial forces for trusses and beams for rolling and static loads

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	3	4.05
3- Moderately	9	12.16
4- Mostly	33	44.59
5- Definitely	27	36.49
Total	74	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

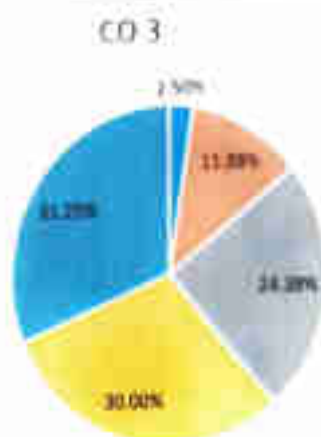
Subject - Structural Analysis (Theory)

Subject Teacher - Prof. Shweta Motharkar/ Prof. Manoj Pillai/ Prof. Dinesh Joshi

CO-3. Evaluate rotation and displacement characteristics for joint frames and trusses and compute degree of indeterminacies.

Score	No. of students	Percentage (%)
1- Can't Say	1	2.50
2- Hardly	3	11.88
3- Moderately	12	24.38
4- Mostly	25	30
5- Definitely	33	31.25
Total	74	100

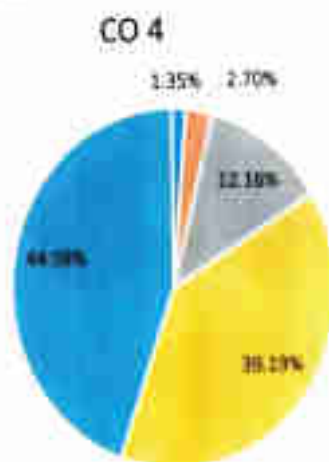
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-4. Analyze the indeterminate structures using flexibility approach of analysis and application of clapeyrons three moment theorem.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	2	2.70
3- Moderately	9	12.18
4- Mostly	29	39.19
5- Definitely	33	44.59
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

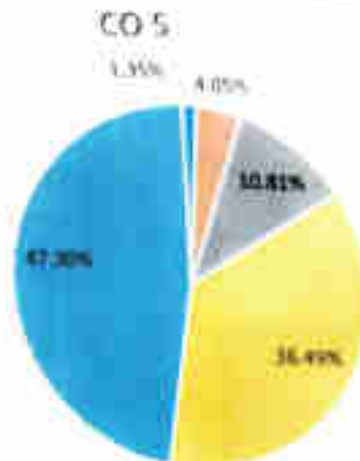
Subject - Structural Analysis (Theory)

Subject Teacher - Prof. Shweta Motharkar/ Prof. Manoj Pillai/ Prof. Dinesh Joshi

CO.5. evaluation of stiffness matrices for indeterminate structures to compute response for the same.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	8	10.81
4- Mostly	27	36.49
5- Definitely	35	47.30
Total	74	100

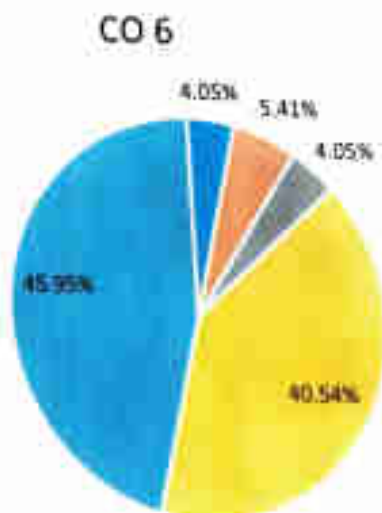
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Analyze indeterminate structures by MDM and to carry out plastic analysis of structures.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	4	5.41
3- Moderately	3	4.05
4- Mostly	30	40.54
5- Definitely	34	45.95
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

Subject – Surveying (LAB)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Niranjana Patil

CO.1. Use and operate the surveying instruments according to the accuracy and suitability.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	3	4.05
3- Moderately	7	9.46
4- Mostly	27	36.49
5- Definitely	35	47.30
Total	74	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Detailed description: A pie chart titled 'CO 1' showing the distribution of student scores. The largest slice is blue, representing '5. Definitely' at 47.30%. The next largest is yellow, representing '4. Mostly' at 36.49%. Other slices include '3. Moderately' (grey, 9.46%), '2. Hardly' (orange, 4.05%), and '1. Can't Say' (light blue, 2.70%).

CO.2. Calculate linear and angular dimensions in horizontal and vertical planes.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	1	1.35
3- Moderately	11	14.86
4- Mostly	32	43.24
5- Definitely	28	37.84
Total	74	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Detailed description: A pie chart titled 'CO 2' showing the distribution of student scores. The largest slice is yellow, representing '4. Mostly' at 43.24%. The next largest is blue, representing '5. Definitely' at 37.84%. Other slices include '3. Moderately' (grey, 14.86%), '1. Can't Say' (light blue, 2.70%), and '2. Hardly' (orange, 1.35%).



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

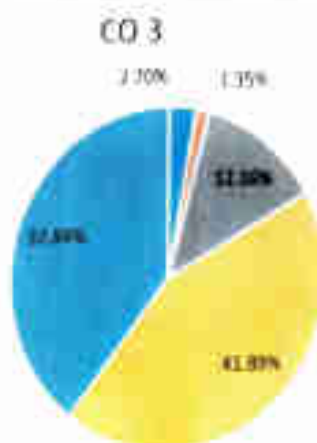
Subject – Surveying (IAB)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Niranjan Patil

CO.3. Analyse, collect and record the field data systematically.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	1	1.35
3- Moderately	9	12.16
4- Mostly	31	41.89
5- Definitely	31	41.89
Total	74	100

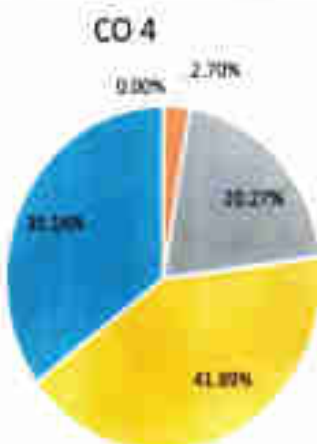
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Develop plans of the existing features on the ground, sections and contours.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	2.70
3- Moderately	15	20.27
4- Mostly	31	41.89
5- Definitely	26	35.14
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

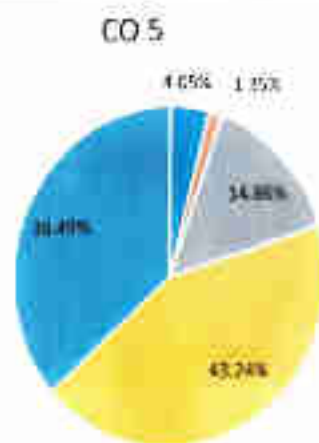
Subject – Surveying (LAB)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Niranjan Patil

CO.5. Measure the area of land and the volume of earthwork.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	1	1.35
3- Moderately	11	14.86
4- Mostly	32	43.24
5- Definitely	27	36.49
Total	74	100

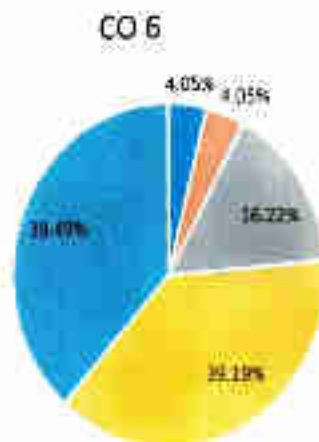
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Develop curves and foundation plans.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	3	4.05
3- Moderately	12	16.22
4- Mostly	29	39.19
5- Definitely	27	36.49
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

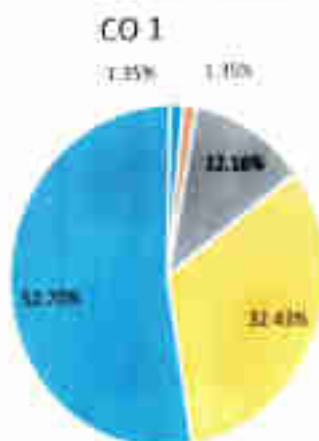
Subject – Building Materials and Concrete Technology (Lab)

Subject Teacher – Prof. Deepali Phadtare /Prof. Niranjan Patil

CO.1. Test physical properties of cement, aggregate & concrete.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	1	1.35
3- Moderately	8	12.16
4- Mostly	24	32.43
5- Definitely	39	52.70
Total	74	100

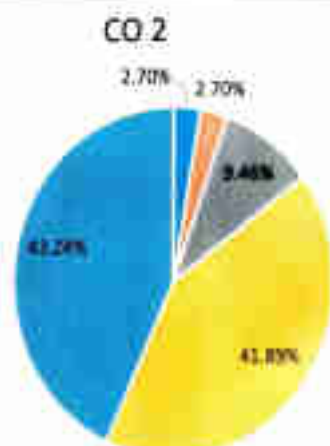
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Experiment with the physical attributes and mechanical strength of various other building materials like tiles, bricks & timber.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	2	2.70
3- Moderately	7	9.46
4- Mostly	31	41.89
5- Definitely	32	43.24
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-IV)

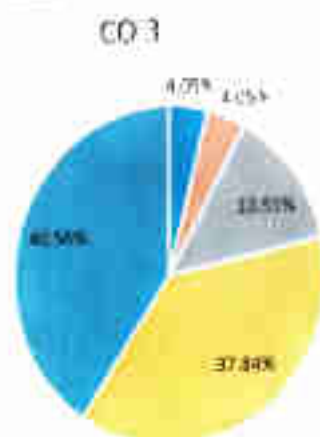
Subject – Building Materials and Concrete Technology (Lab)

Subject Teacher – Prof. Deepali Phadtare /Prof. Niranjan Patil

CO-3. Evaluate the effects of admixtures on physical properties of concrete.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	3	4.05
3- Moderately	10	13.51
4- Mostly	28	37.84
5- Definitely	30	40.54
Total	74	100

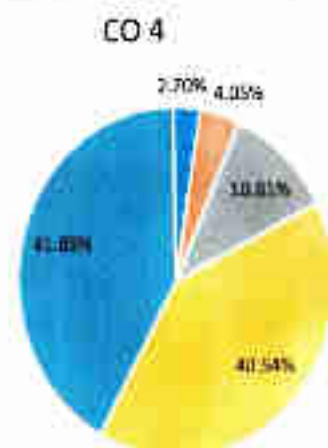
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-4 Examine the different basic non-destructive tests determine the durability and strength of existing concrete structures.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	3	4.05
3- Moderately	8	10.81
4- Mostly	30	40.54
5- Definitely	31	41.89
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-IV)

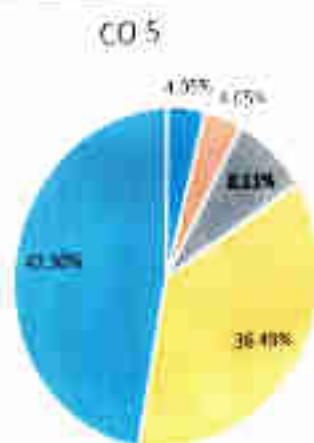
Subject - Building Materials and Concrete Technology (Lab)

Subject Teacher - Prof. Deepali Phadtare /Prof. Niranjana Patil

CO-5 Design the concrete mix

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	3	4.05
3- Moderately	6	8.11
4- Mostly	27	36.49
5- Definitely	35	47.30
Total	74	100

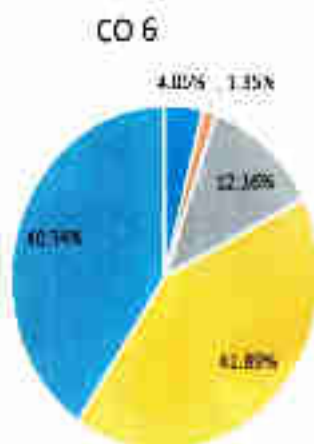
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-6 Develop collaborative skills to work in team/group.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	1	1.35
3- Moderately	9	12.16
4- Mostly	31	41.89
5- Definitely	30	40.54
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

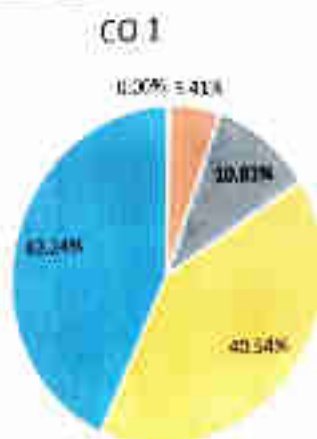
Subject – Fluid Mechanics-II (LAB)

Subject Teacher – Prof. Neha Chhangani / Prof. Tarannum Shaikh

CO.1. Compare different types of flow using Reynold's apparatus.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	4	5.41
3- Moderately	8	10.81
4- Mostly	30	40.54
5- Definitely	32	43.24
Total	74	100

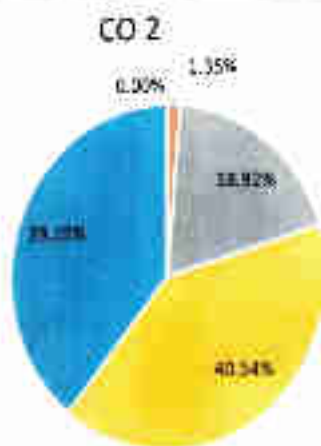
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Evaluate the viscosity of fluid flowing through pipes.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	1.35
3- Moderately	14	18.92
4- Mostly	30	40.54
5- Definitely	29	39.19
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-IV)

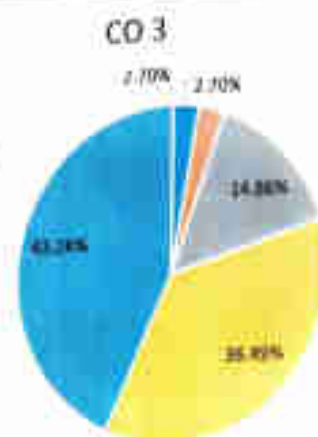
Subject – Fluid Mechanics- II (LAB)

Subject Teacher – Prof. Neha Chhangani / Prof. Tarannum Shaikh

CO.3. Calculate head loss due to friction incurred by a fluid along a pipeline.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	2	2.70
3- Moderately	11	14.86
4- Mostly	27	36.49
5- Definitely	32	43.24
Total	74	100

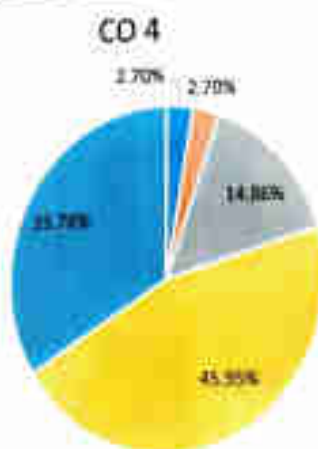
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Determine different minor losses in pipe fittings.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	2	2.70
3- Moderately	11	14.86
4- Mostly	34	45.95
5- Definitely	25	33.78
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-IV)

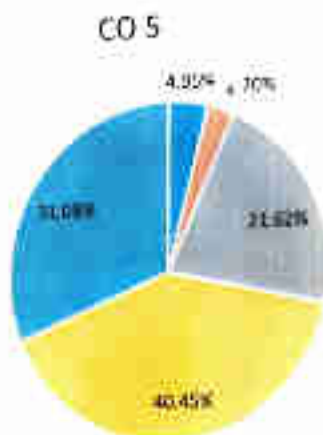
Subject – Fluid Mechanics- II (LAB)

Subject Teacher – Prof. Neha Chhangani / Prof. Tarannum Shaikh

CO.5. Analyse the behaviour of Laminar flow through pipes.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	2	2.70
3- Moderately	16	21.62
4- Mostly	30	40.54
5- Definitely	23	31.08
Total	74	100

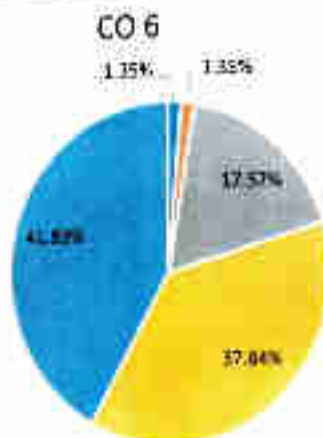
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Assess the flow pattern and velocity distribution in pipe flow.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	1	1.35
3- Moderately	13	17.57
4- Mostly	28	37.84
5- Definitely	31	41.89
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Course Exit Report Analysis (SEM-IV)

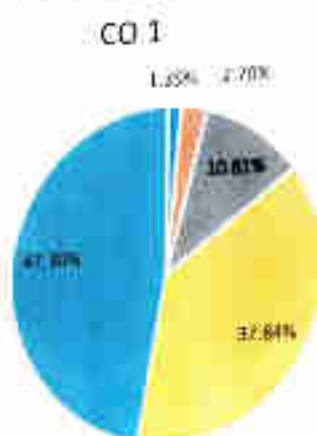
Subject – Skill Based Lab Course - II

Subject Teacher – Prof. Tarannum Shaikh / Prof. Pallavi Tajane

CO.1 Explain the fundamental features and working principle of Total Station (TS) and demonstrate the settings of TS for traversing.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	2	2.70
3- Moderately	8	10.81
4- Mostly	28	37.84
5- Definitely	35	47.20
Total	74	100

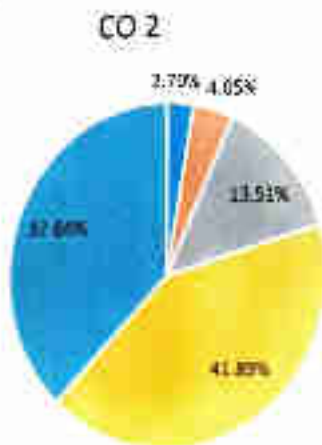
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Show various operations to determine height of structures, area of plot, subdividing area, demarcating boundaries, etc. Using Total Station.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	3	4.05
3- Moderately	10	13.51
4- Mostly	31	41.89
5- Definitely	28	37.64
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

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Course Exit Report Analysis (SEM-IV)

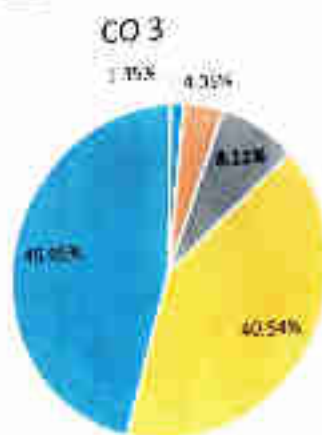
Subject – Skill Based Lab Course - II

Subject Teacher – Prof. Tarannum Shaikh / Prof. Pallavi Tajane

CO.3. Make use of CAD software in Total Station to develop foundation plan.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	3	4.05
3- Moderately	6	8.11
4- Mostly	30	40.54
5- Definitely	34	45.95
Total	74	100

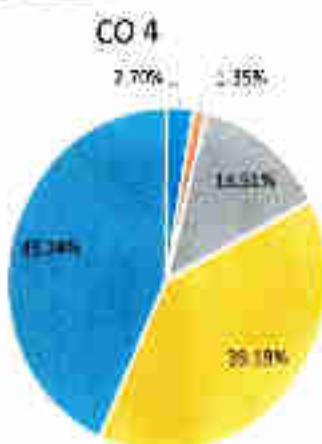
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Explain the fundamental features of Global Navigation Satellite System (GNSS) and determine latitudes, longitudes, altitudes of points, length of roads, area of plots, etc. using GNSS.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	1	1.35
3- Moderately	10	13.51
4- Mostly	29	39.19
5- Definitely	32	43.24
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



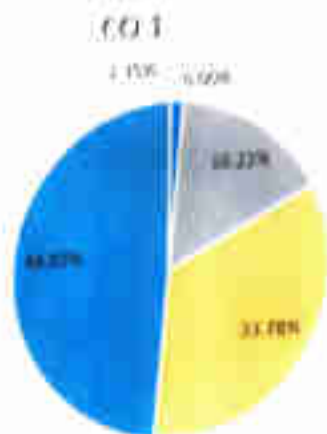


Department of Civil Engineering
Academic Year - 2023-2024
Course Exit Report Analysis (SEM-IV)
Subject - Mini Project III
Subject Teacher - Prof. Nilima Shende

CO-1. To acquaint with the process of identifying the needs and utilize it by converting it into a problem.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.35
2- Hardly	0	0.00
3- Moderately	12	16.22
4- Mostly	25	33.78
5- Definitely	36	48.65
Total	74	100

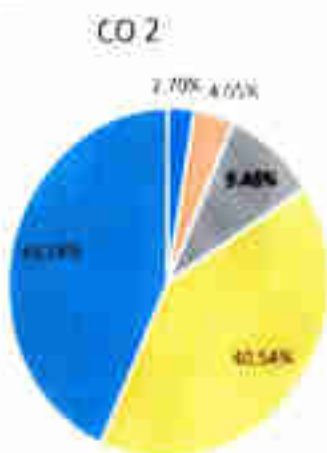
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-2. To familiarize and infer the process of solving the problem in a group.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.70
2- Hardly	1	1.35
3- Moderately	7	9.46
4- Mostly	30	40.54
5- Definitely	32	43.24
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Course Exit Report Analysis (SEM-IV)

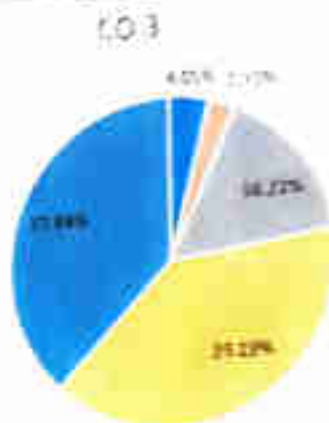
Subject - Mini Project-IB

Subject Teacher - Prof. Nilima Shende

CO-3. To analyze and choose the process of applying basic engineering fundamentals to attempt solutions to the problems.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	2	2.70
3- Moderately	12	16.22
4- Mostly	29	39.19
5- Definitely	28	37.84
Total	74	100

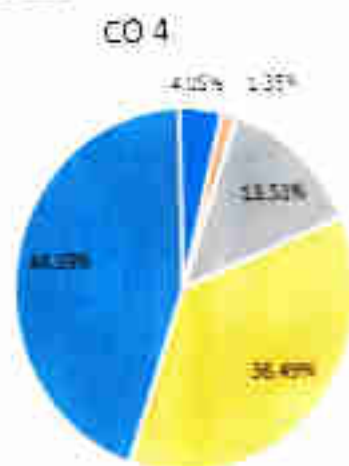
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-4. To develop interpersonal skills to work as a member of a group or leader.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	1	1.35
3- Moderately	10	13.51
4- Mostly	27	36.49
5- Definitely	33	44.55
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-IV)

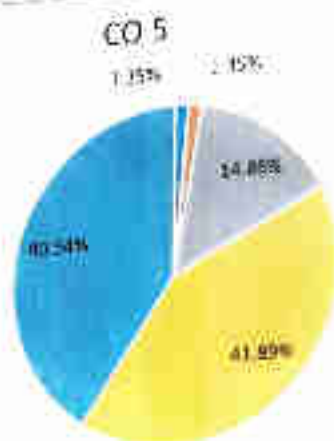
Subject – Mini Project-IB

Subject Teacher – Prof. Nilima Shende

CO.5. To adapt the process of self learning and research in a group which leads to a life long learning.

Score	No. of students	Percentage (%)
1- Can't Say	3	1.35
2- Hardly	1	1.35
3- Moderately	11	14.86
4- Mostly	31	41.89
5- Definitely	30	40.54
Total	74	100

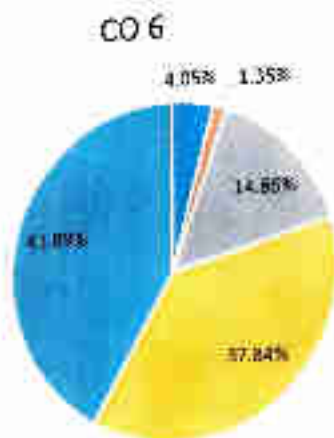
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. To perceive project management principles during project work.

Score	No. of students	Percentage (%)
1- Can't Say	3	4.05
2- Hardly	1	1.35
3- Moderately	11	14.86
4- Mostly	28	37.84
5- Definitely	31	41.89
Total	74	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

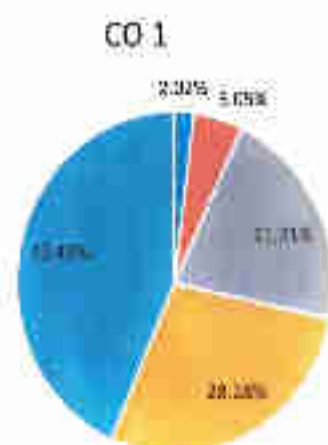
Subject – Design and Drawing of Steel Structure (Theory)

Subject Teacher – Prof. Nilima Shende / Prof. Roshni John

CO.1. Understand usefulness of steel sections and able to use suitable philosophy for the design of steel structures.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	5	5.05
3- Moderately	21	21.21
4- Mostly	28	28.28
5- Definitely	43	43.43
Total	99	100

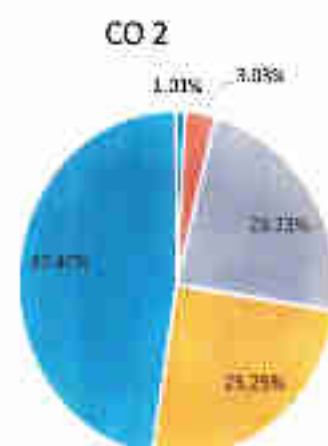
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Categorize and design steel structural connections (bolted and welded)

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	3	3.03
3- Moderately	23	23.23
4- Mostly	25	25.25
5- Definitely	47	47.47
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

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Course Exit Report Analysis (SEM-VI)

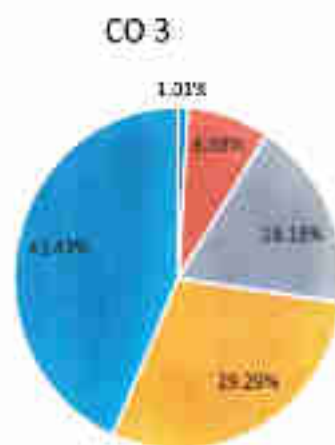
Subject – Design and Drawing of Steel Structure (Theory)

Subject Teacher – Prof. Nilima Shende / Prof. Roshni John

CO.3. Design members subjected to axial tension using single angle and double angle section.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	8	8.08
3- Moderately	18	18.18
4- Mostly	29	29.29
5- Definitely	43	43.43
Total	99	100

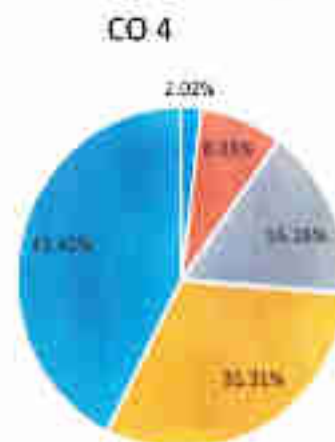
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Design and sketch the structural details of compression member including the design of columns and column bases.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	8	8.08
3- Moderately	16	16.16
4- Mostly	31	31.31
5- Definitely	42	42.42
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



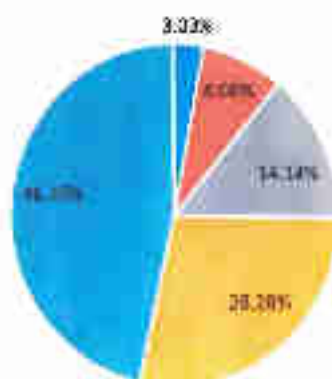


CO.5. Design laterally supported and unsupported beams and apply the concept in the design of welded plate girders.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	8	8.08
3- Moderately	14	14.14
4- Mostly	28	28.28
5- Definitely	46	46.46
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

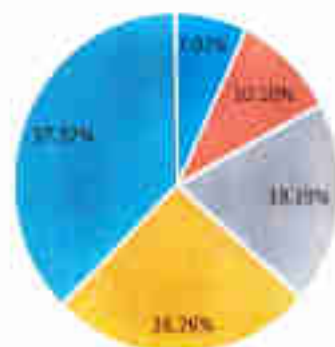


CO.6. Design and sketch the structural details of roof truss and steel roof truss.

Score	No. of students	Percentage (%)
1- Can't Say	7	7.07
2- Hardly	10	10.10
3- Moderately	19	19.19
4- Mostly	26	26.26
5- Definitely	37	37.37
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6




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Kharjat, Navi Mumbai - 410210

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

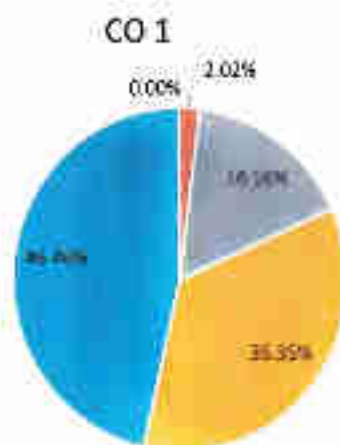
Subject – Geotechnical Engineering-II (Theory)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

CO.1. Appraise the consolidation parameters for the soil

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	2.02
3- Moderately	16	16.16
4- Mostly	35	35.35
5- Definitely	46	46.46
Total	99	100

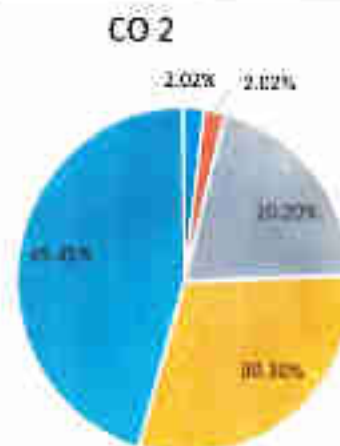
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Interpret the shear strength parameters for the soil.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	2	2.02
3- Moderately	20	20.20
4- Mostly	30	30.30
5- Definitely	45	45.45
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

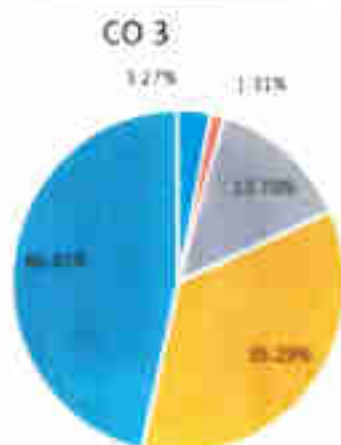




CO-3. Estimate the factors of safety of different types of slopes under various soil conditions and infer the stability of slopes, retaining walls & lateral earth pressures.

Score	No. of students	Percentage (%)
1- Can't Say	2	3.27
2- Hardly	2	1.31
3- Moderately	17	13.73
4- Mostly	39	35.29
5- Definitely	39	46.41
Total	99	100

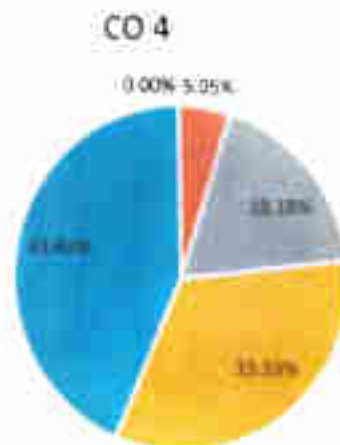
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-4. Calculate the lateral earth pressure using Rankine, coulombs and graphical method also evaluate the stability analysis of gravity and cantilever retaining walls

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	5	5.05
3- Moderately	18	18.18
4- Mostly	33	33.33
5- Definitely	43	43.43
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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[Saraswati Acharya and Chaitanya]

Wanghal, Post: Mundra - 812 110

Department of Civil Engineering

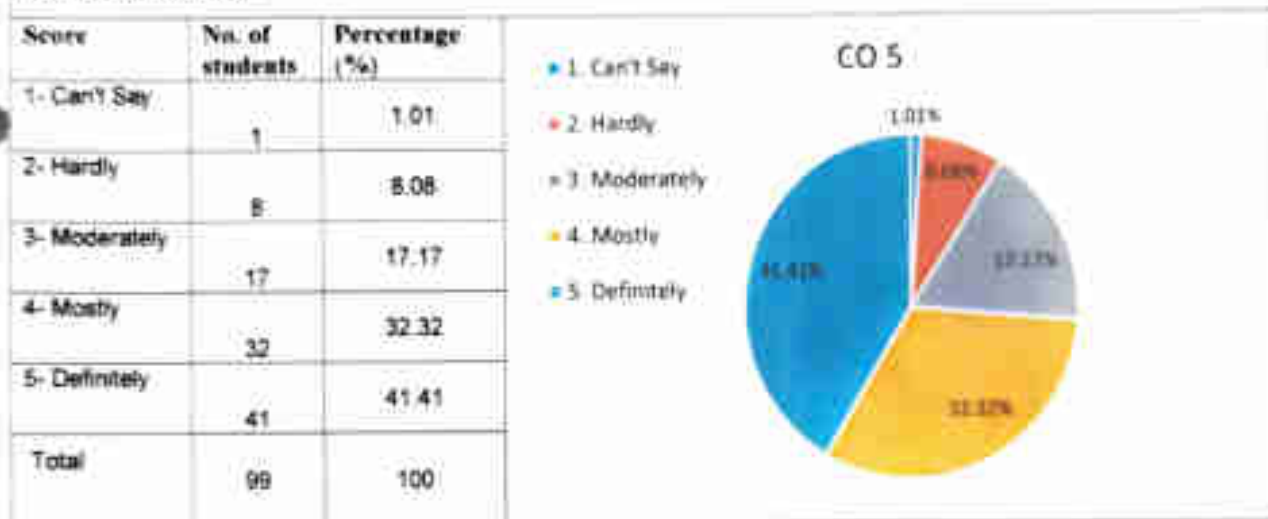
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

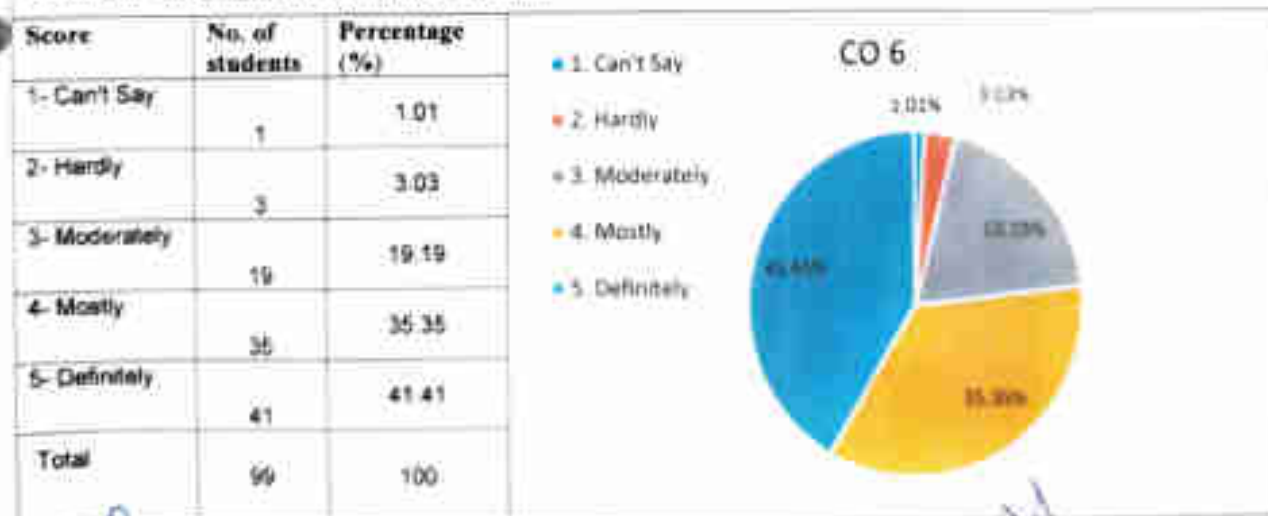
Subject – Geotechnical Engineering-II (Theory)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

CO.5. Evaluate the bearing capacity of shallow foundation using theoretical, field methods, Vesic methods and IS code method.



CO.6. Determine the load bearing capacity of individual as well as group of pile foundations and their settlement using theoretical and field Method.



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CO.1. Summarize the basics of Irrigation engineering and types of irrigation projects along with National Water policy.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	4	4.04
3- Moderately	22	22.22
4- Mostly	32	32.32
5- Definitely	41	41.41
Total	99	100

CO 1

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Score	Percentage (%)
1. Can't Say	0.00%
2. Hardly	4.04%
3. Moderately	22.22%
4. Mostly	32.32%
5. Definitely	41.41%

CO.2. Determine flood discharge and Runoff by traditional and modern usage tools for planning and management of water resources projects.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	7	7.07
3- Moderately	21	21.21
4- Mostly	32	32.32
5- Definitely	39	39.39
Total	99	100

CO 2

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

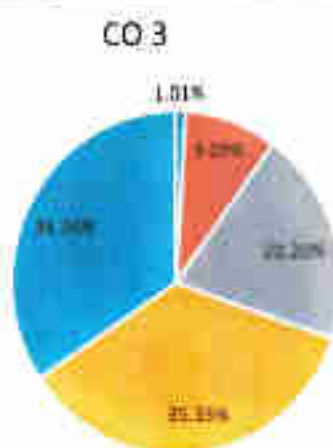
Score	Percentage (%)
1. Can't Say	0.00%
2. Hardly	7.07%
3. Moderately	21.21%
4. Mostly	32.32%
5. Definitely	39.39%



CO.3. Apply knowledge on ground water, well hydraulics to estimate the safe yield and ground water potential.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	9	9.09
3- Moderately	20	20.20
4- Mostly	35	35.35
5- Definitely	34	34.34
Total	99	100

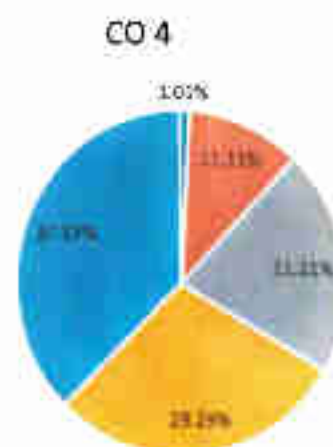
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Analyze and design gravity dams and earthen dams with spillways for sustainable development.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	11	11.11
3- Moderately	21	21.21
4- Mostly	29	29.29
5- Definitely	37	37.37
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





CO.5. Compare different silt theories related to irrigation channel and design the same.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	8	8.08
3- Moderately	25	25.25
4- Mostly	26	26.26
5- Definitely	38	38.38
Total	99	100

CO 5

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Detailed description: A pie chart titled 'CO 5' showing the distribution of student responses for the objective. The chart is divided into five segments: a small blue segment for '1. Can't Say' (2.02%), a red segment for '2. Hardly' (8.08%), a grey segment for '3. Moderately' (25.25%), a yellow segment for '4. Mostly' (26.26%), and a large blue segment for '5. Definitely' (38.38%). A legend to the left of the chart lists the five categories with their corresponding colors.

CO.6. Classify and explain various canal structures and suggest remedial measures for water logging to save fertile irrigation.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	4	4.04
3- Moderately	27	27.27
4- Mostly	32	32.32
5- Definitely	35	35.35
Total	99	100

CO 6

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

Detailed description: A pie chart titled 'CO 6' showing the distribution of student responses for the objective. The chart is divided into five segments: a very small blue segment for '1. Can't Say' (1.01%), a small red segment for '2. Hardly' (4.04%), a grey segment for '3. Moderately' (27.27%), a yellow segment for '4. Mostly' (32.32%), and a large blue segment for '5. Definitely' (35.35%). A legend to the left of the chart lists the five categories with their corresponding colors.

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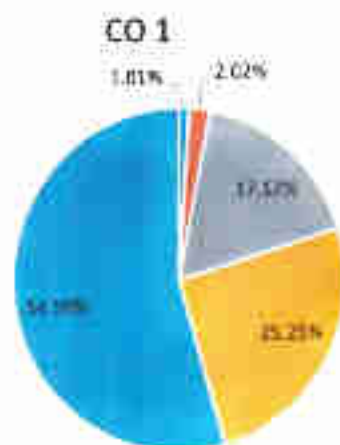
Principal
SCOE



CO.1. Understand and analyse the quality of water and make outline of water Supply scheme.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	2	2.02
3- Moderately	17	17.17
4- Mostly	25	25.25
5- Definitely	54	54.55
Total	99	100

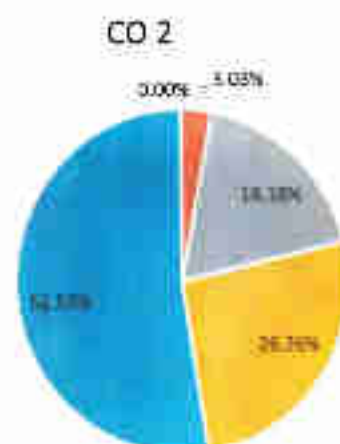
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Design the various units of water treatment plant and apply the advanced, miscellaneous treatments whenever necessary.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	3	3.03
3- Moderately	18	18.18
4- Mostly	26	26.26
5- Definitely	52	52.53
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





CO.3. Build service connection of water supply from main and building drainage system at construction site along with rain water harvesting layout.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	2	2.02
3- Moderately	16	16.16
4- Mostly	25	25.25
5- Definitely	56	56.57
Total	99	100

CO 3

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO.4. Analyse and plan sewerage system along with test for sewer line.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	4	4.04
3- Moderately	13	13.13
4- Mostly	27	27.27
5- Definitely	55	55.56
Total	99	100

CO 4

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

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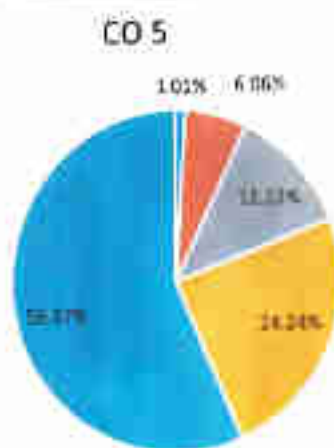
Subject – Environmental Engineering (Theory)

Subject Teacher – Prof. Asmita Lakhote / Dr. Saumya Singh

CO.5. Design the units of sewage treatment plant. Also, able to apply the knowledge of low-cost treatment and stream sanitation.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	6	6.08
3- Moderately	12	12.12
4- Mostly	24	24.24
5- Definitely	56	56.57
Total	99	100

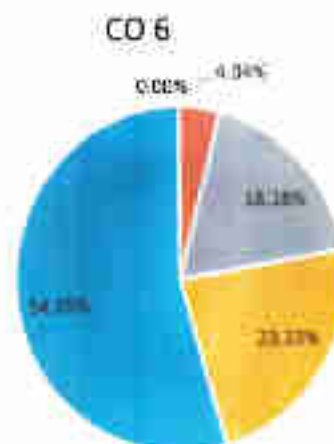
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Understand air pollution, noise pollution and functional elements of solid waste management.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	4	4.04
3- Moderately	18	18.18
4- Mostly	23	23.23
5- Definitely	54	54.55
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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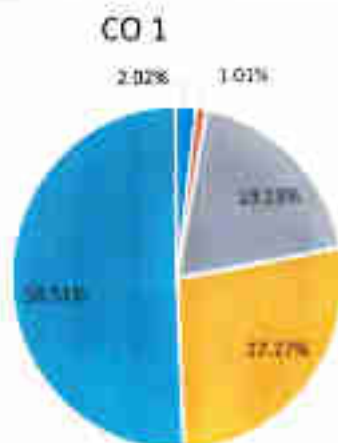
Principal
SCOE



CO.1. Summarize the use and application of various conventional construction equipment's in different construction projects.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	1	1.01
3- Moderately	19	19.19
4- Mostly	27	27.27
5- Definitely	50	50.51
Total	99	100

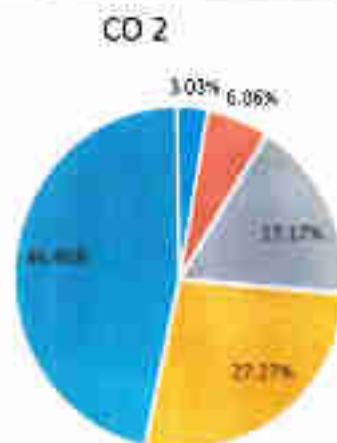
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Explain advance methods and special equipment used for under-ground as well as under-water tunnelling.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	6	6.06
3- Moderately	17	17.17
4- Mostly	27	27.27
5- Definitely	46	46.46
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

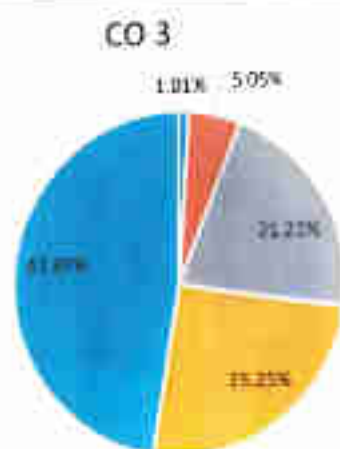




CO.3. Compare the conventional and modern methods of form work on the basis of productivity, reuse value, ease of erection and dismantling, flexibility offered and overall cost.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	5	5.05
3- Moderately	21	21.21
4- Mostly	25	25.25
5- Definitely	47	47.47
Total	99	100

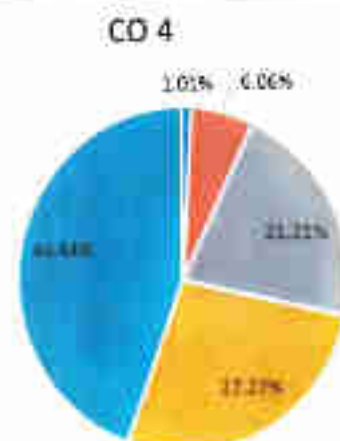
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Identify different methods/equipment of construction for road/flyovers/bridge projects and systems for locating under-ground utilities

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	6	6.06
3- Moderately	21	21.21
4- Mostly	27	27.27
5- Definitely	44	44.44
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Khadgaon, Nashik District - 410 210

Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

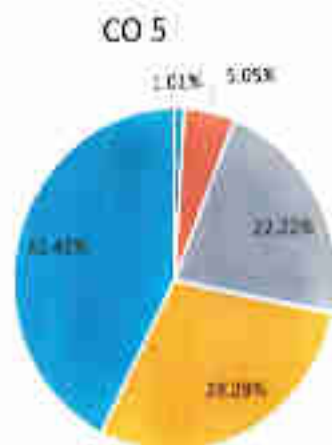
Subject – Construction Equipment and Techniques

Subject Teacher – Prof. Deepali Phadtare/ Prof. Vinitha Jovar

CO.5. Perceive knowledge about the setting up of different kinds of the power generating structures.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	5	5.05
3- Moderately	22	22.22
4- Mostly	29	29.29
5- Definitely	42	42.42
Total	99	100

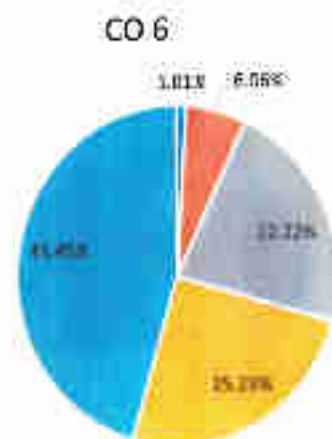
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Discuss the techniques involved and the equipment required thereof for construction of various transporting facilities. Choose proper equipment for construction of transporting facilities based on function.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	6	6.06
3- Moderately	22	22.22
4- Mostly	26	25.25
5- Definitely	45	45.45
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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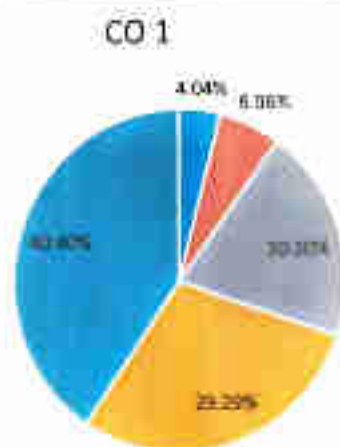
Principal
SCOE



CO.1. Calculate dead, live and wind loads on the structure.

Score	No. of students	Percentage (%)
1- Can't Say	4	4.04
2- Hardly	6	6.06
3- Moderately	20	20.20
4- Mostly	29	29.29
5- Definitely	40	40.40
Total	99	100

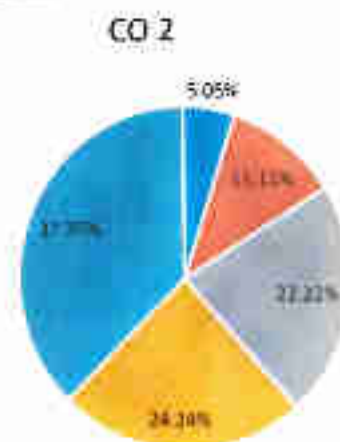
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Analyze the structure by analytical/graphical method.

Score	No. of students	Percentage (%)
1- Can't Say	5	5.05
2- Hardly	11	11.11
3- Moderately	22	22.22
4- Mostly	24	24.24
5- Definitely	37	37.37
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

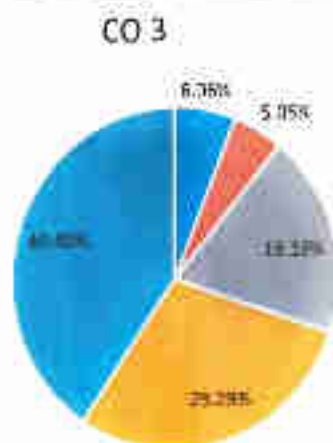




CO.3. Use steel table for selecting appropriate section.

Score	No. of students	Percentage (%)
1- Can't Say	8	6.06
2- Hardly	5	5.05
3- Moderately	19	19.19
4- Mostly	29	29.29
5- Definitely	40	40.40
Total	99	100

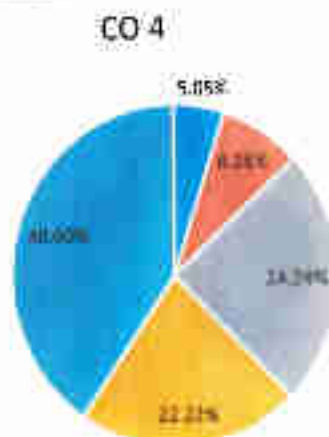
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Design the members for various load combinations.

Score	No. of students	Percentage (%)
1- Can't Say	4	5.05
2- Hardly	8	8.08
3- Moderately	24	24.24
4- Mostly	22	22.22
5- Definitely	40	40.40
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



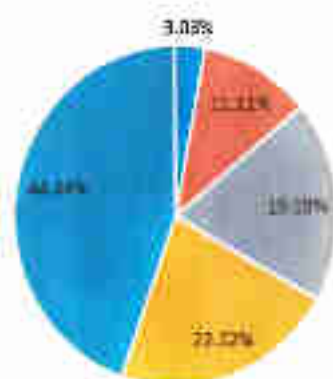


CO.5. Design the bolted and welded connection, Read and Prepare the detailed fabrication drawing and design report

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	11	11.11
3- Moderately	19	19.19
4- Mostly	22	22.22
5- Definitely	44	44.44
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

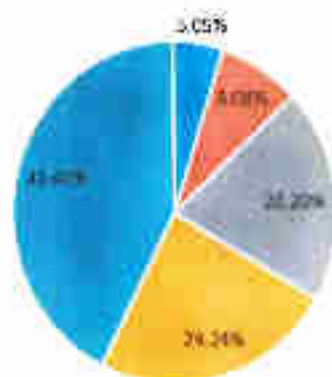


CO.6. Read and Prepare the detailed fabrication drawing and design report.


Score	No. of students	Percentage (%)
1- Can't Say	5	5.05
2- Hardly	8	8.08
3- Moderately	20	20.20
4- Mostly	24	24.24
5- Definitely	42	42.42
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6




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Kharghar, Near Mundar - 410 210.

Department of Civil Engineering

Academic Year : 2023-2024

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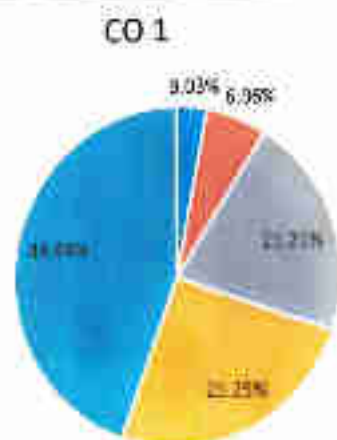
Subject – Geotechnical Engineering- II (Lab)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Neha Chhangani

CO.1. Examine the consolidation parameters such as coefficient of compressibility, coefficient of volume change, coefficient of consolidation.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	8	6.06
3- Moderately	21	21.21
4- Mostly	25	25.25
5- Definitely	44	44.44
Total	99	100

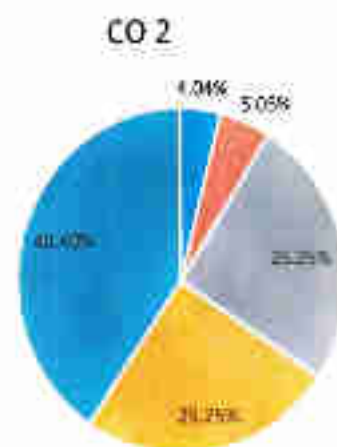
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Analyze the cohesion and angle of shearing resistance for various soil types.

Score	No. of students	Percentage (%)
1- Can't Say	4	4.04
2- Hardly	5	5.05
3- Moderately	25	25.25
4- Mostly	25	25.25
5- Definitely	40	40.40
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

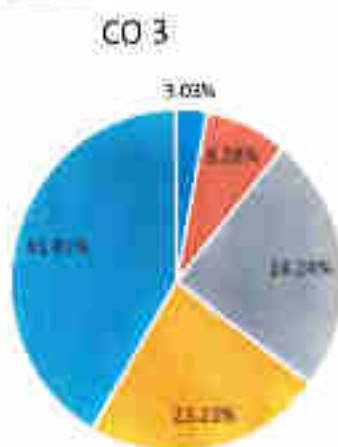




CO-3. Summarize the CBR value of soil for pavement design.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	8	8.08
3- Moderately	24	24.24
4- Mostly	23	23.23
5- Definitely	41	41.41
Total	99	100

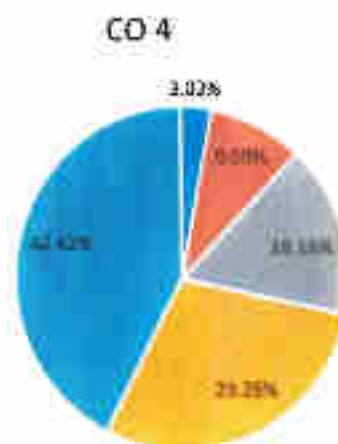
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-4. Evaluate the swelling pressure of soil.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	9	9.09
3- Moderately	16	16.16
4- Mostly	29	29.29
5- Definitely	42	42.42
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

Subject – Geotechnical Engineering- II (Lab)

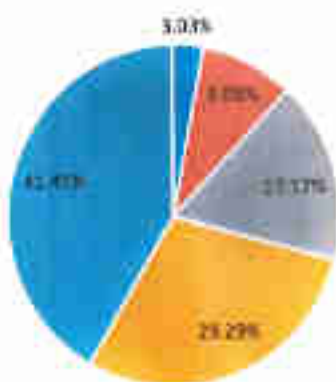
Subject Teacher – Prof. Yugandhara Kasture/ Prof. Neha Chhangani

CO.5. Formulate the concept of stress distribution in soils due to vertically applied load.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	9	9.09
3- Moderately	17	17.17
4- Mostly	29	29.29
5- Definitely	41	41.41
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

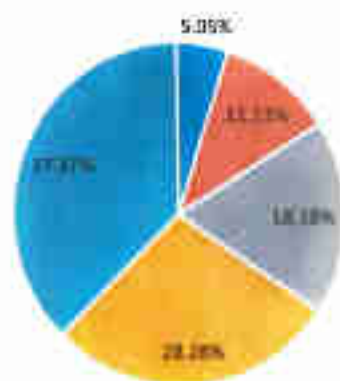


CO.6. Solve design problems using geotechnical software.

Score	No. of students	Percentage (%)
1- Can't Say	5	5.05
2- Hardly	11	11.11
3- Moderately	18	18.18
4- Mostly	28	28.28
5- Definitely	37	37.37
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

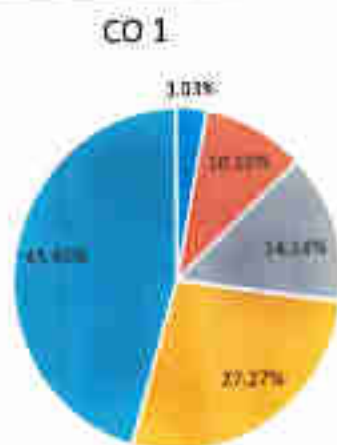
Subject – Water Resource Engineering (Lab)

Subject Teacher – Prof. Sujaya Wadekar / Prof. Rachel Gitty

CO.1. Classify various techniques of water distribution and compute water requirement of crops.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	10	10.10
3- Moderately	14	14.14
4- Mostly	27	27.27
5- Definitely	45	45.45
Total	99	100

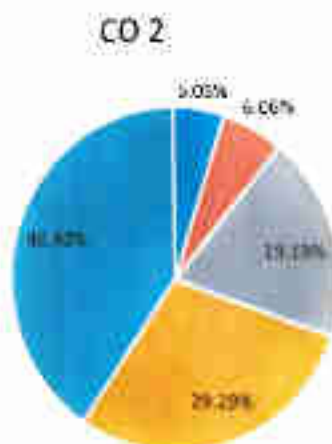
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Conclude in detail about hydrological process and interpret plotting of hydrographs.

Score	No. of students	Percentage (%)
1- Can't Say	5	5.05
2- Hardly	6	6.06
3- Moderately	19	19.19
4- Mostly	29	29.29
5- Definitely	40	40.40
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

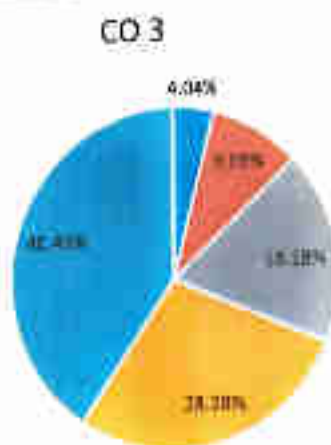




CO.3. Apply their knowledge on well hydraulics and compute discharge from an aquifer.

Score	No. of students	Percentage (%)
1- Can't Say	4	4.04
2- Hardly	9	9.09
3- Moderately	18	18.18
4- Mostly	28	28.28
5- Definitely	40	40.40
Total	99	100

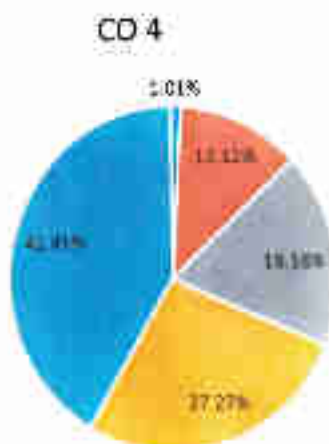
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Categorize various hydraulic structures such as dams and carry out its analysis for structural stability.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	12	12.12
3- Moderately	18	18.18
4- Mostly	27	27.27
5- Definitely	41	41.41
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

Subject – Water Resource Engineering (Lab)

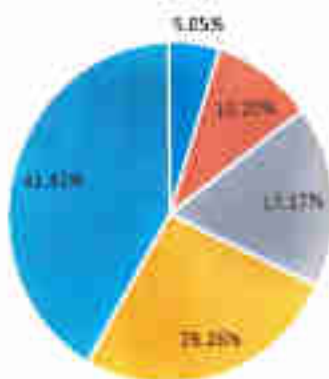
Subject Teacher – Prof. Sujaya Wadekar / Prof. Rachel Gitty

CO.5. Compare different silt theories related to irrigation channel and design the same.

Score	No. of students	Percentage (%)
1- Can't Say	3	5.05
2- Hardly	10	10.10
3- Moderately	17	17.17
4- Mostly	26	26.26
5- Definitely	41	41.41
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO-5

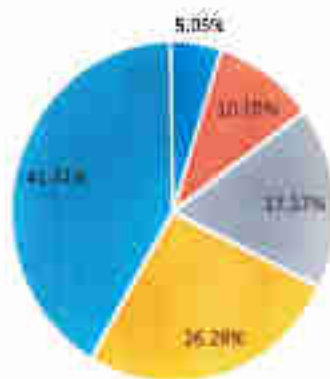


CO.6. Determine and Illustrate different canal head works - its distribution system and canal Structures.

Score	No. of students	Percentage (%)
1- Can't Say	1	5.05
2- Hardly	11	10.10
3- Moderately	20	17.17
4- Mostly	26	26.26
5- Definitely	41	41.41
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6



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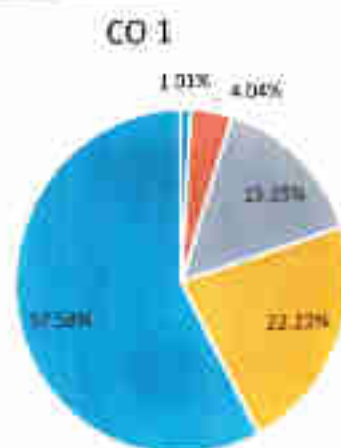
Principal
SCOE



CO.1. Impart the knowledge on quality or characteristic of water and wastewater sample.

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	4	4.04
3- Moderately	15	15.15
4- Mostly	22	22.22
5- Definitely	57	57.58
Total	99	100

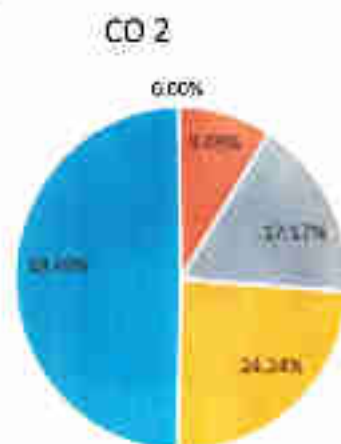
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Interpret the required treatment for water and wastewater based on standards and norms.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	9	9.09
3- Moderately	17	17.17
4- Mostly	24	24.24
5- Definitely	49	49.49
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

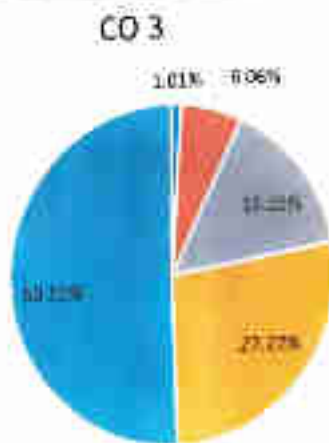
Subject – Environmental Engineering (LAB)

Subject Teacher – Prof. Asmita Lakhote / Dr. Saumya Singh

CO.3. Identify the required treatment for water water based on the sewage disposal standards and norms

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	0	0.00
3- Moderately	15	15.15
4- Mostly	27	27.27
5- Definitely	50	50.51
Total	93	100

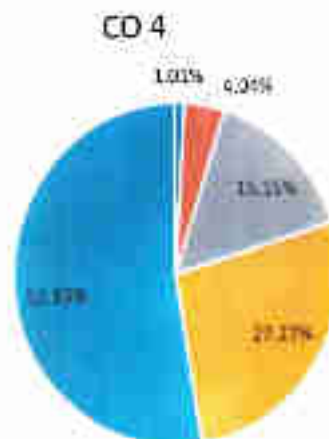
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Impart the knowledge on quality of solid waste

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	4	4.04
3- Moderately	15	15.15
4- Mostly	27	27.27
5- Definitely	52	52.53
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

Coarse Exit Report Analysis (SEM-VI)

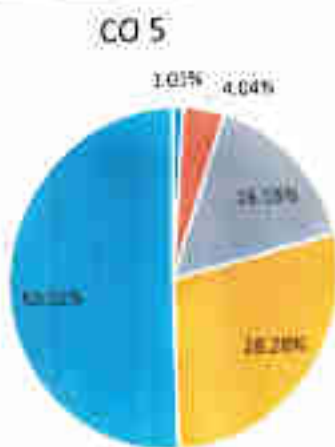
Subject – Environmental Engineering (LAB)

Subject Teacher – Prof. Asmita Lakhote / Dr. Saumya Singh

CO.5. Measure the concentration of particulate matters, dust and dispersed pollutants in air

Score	No. of students	Percentage (%)
1- Can't Say	1	1.01
2- Hardly	4	4.04
3- Moderately	16	16.16
4- Mostly	28	28.28
5- Definitely	50	50.51
Total	99	100

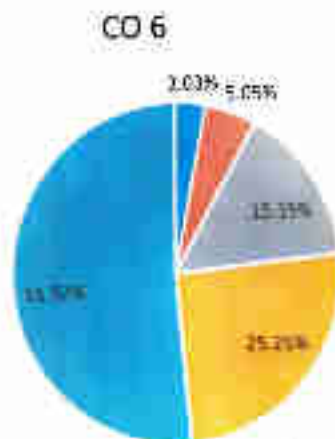
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Inspect the levels of noise and interpret the results

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	5	5.05
3- Moderately	15	15.15
4- Mostly	25	25.25
5- Definitely	51	51.52
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

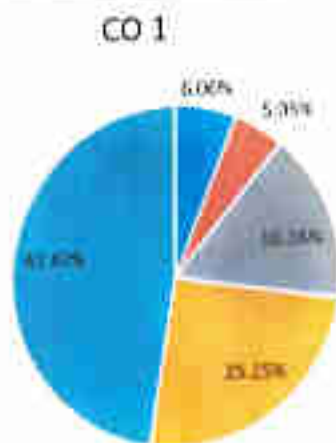
Subject – Skill Based Lab Course - III

Subject Teacher – Prof. Athira Haridas/ Prof. Supriya Kadam

CO.1. Explain the importance, needs, advantages and limitations of software.

Score	No. of students	Percentage (%)
1- Can't Say	8	8.08
2- Hardly	5	5.05
3- Moderately	16	16.16
4- Mostly	25	25.25
5- Definitely	47	47.47
Total	99	100

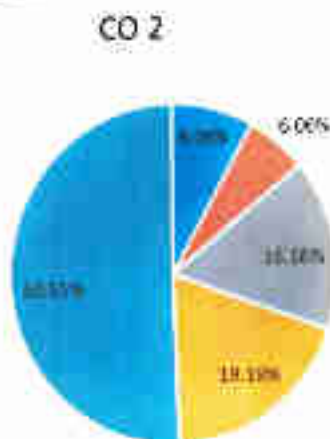
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Classify different types of software available in Civil Engineering.

Score	No. of students	Percentage (%)
1- Can't Say	8	8.08
2- Hardly	5	5.05
3- Moderately	16	16.16
4- Mostly	19	19.19
5- Definitely	50	50.51
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





CO.3. Determine the rate of flow through open channel

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	15	15.15
4- Mostly	19	19.19
5- Definitely	48	48.48
Total	99	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

CO 3

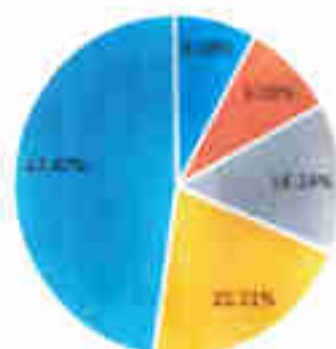


CO.4. Make use of software results and validate them by analysing results obtained from conventional methods.

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	14	14.14
4- Mostly	21	21.21
5- Definitely	47	47.47
Total	99	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

CO 4





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

Subject – Skill Based Lab Course - III

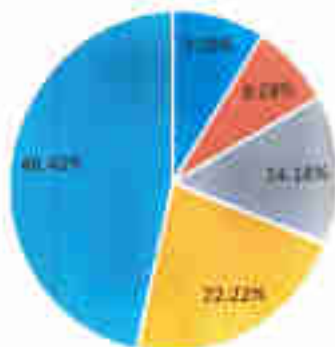
Subject Teacher – Prof. Athira Haridas/ Prof. Supriya Kadam

CO.5. Organize an executive summary of the report based on whole work.

Score	No. of students	Percentage (%)
1- Can't Say	9	9.09
2- Hardly	8	8.08
3- Moderately	14	14.14
4- Mostly	22	22.22
5- Definitely	46	46.46
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

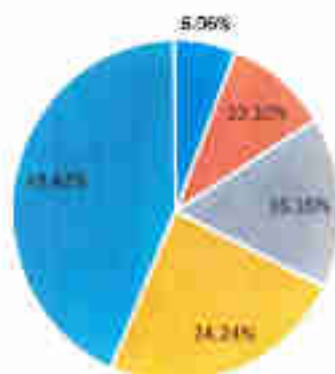


CO.6. Build their communication skill as well as teamwork qualities.

Score	No. of students	Percentage (%)
1- Can't Say	6	6.06
2- Hardly	10	10.10
3- Moderately	16	16.16
4- Mostly	24	24.24
5- Definitely	43	43.43
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

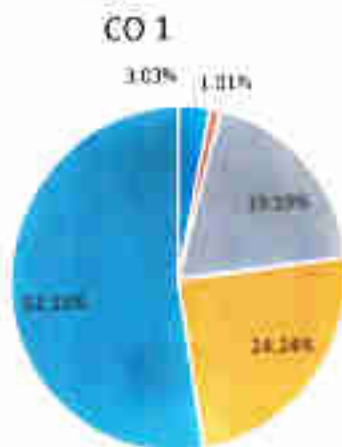
Subject – Mini Project- 2B

Subject Teacher – Prof. Nilima Shende

CO.1. Illustrate the problems based on societal /research needs and formulate a solution strategy.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	1	1.01
3- Moderately	19	19.19
4- Mostly	24	24.24
5- Definitely	52	52.53
Total	99	100

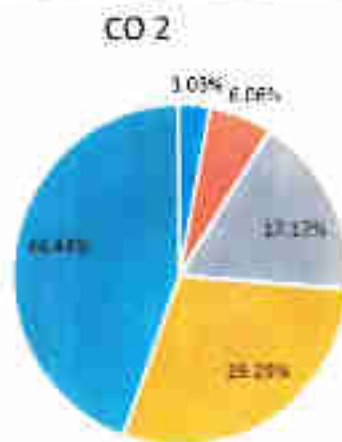
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Examine the plasticity characteristics of soil

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	6	6.06
3- Moderately	17	17.17
4- Mostly	28	28.28
5- Definitely	44	44.44
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





SARASWATI Education Society's
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Wishes Like Reviews and Comments

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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VI)

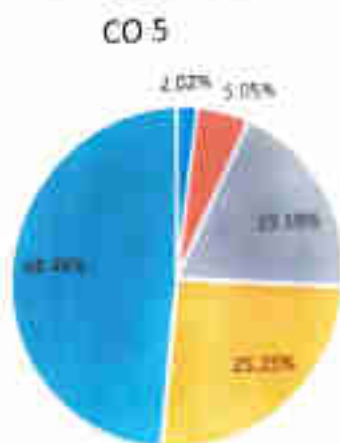
Subject – Mini Project-2B

Subject Teacher – Prof. Nilima Shende

CO.5. Demonstrate the proper inferences from available results through theoretical/ experimental/ simulations and assemble physical systems.

Score	No. of students	Percentage (%)
1- Can't Say	2	2.02
2- Hardly	5	5.05
3- Moderately	19	19.19
4- Mostly	25	25.25
5- Definitely	48	48.48
Total	99	100

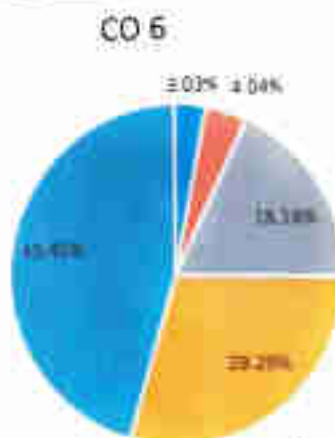
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.6. Create devices or design a computer program or develop computer application.

Score	No. of students	Percentage (%)
1- Can't Say	3	3.03
2- Hardly	4	4.04
3- Moderately	18	18.18
4- Mostly	29	29.29
5- Definitely	45	45.45
Total	99	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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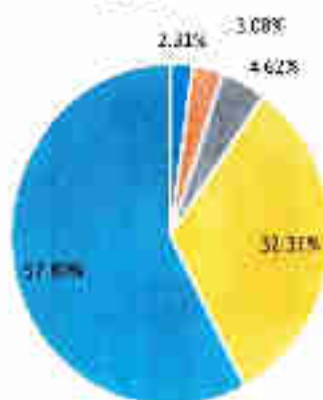


CO1: Understand & apply the knowledge of management functions like planning, scheduling, executing & controlling the construction projects.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	4	3.08
3- Moderately	6	4.62
4- Mostly	42	32.31
5- Definitely	75	57.68
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 1

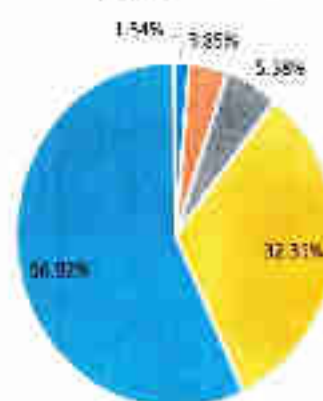


CO2: Discover the importance of construction Industry. Classify the construction Projects. Decide how to select the lay-out of a site

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	5	3.85
3- Moderately	7	5.38
4- Mostly	42	32.31
5- Definitely	74	56.92
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 2





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

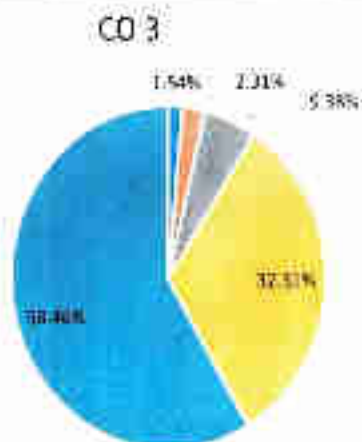
Subject – Construction Management (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Molly Mathew/ Prof. Sanjay Singh

CO3: Construct feasible project schedule by using scheduling techniques like CPM and PERT and evaluate the critical path in the network.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	3	2.31
3- Moderately	7	5.38
4- Mostly	42	32.31
5- Definitely	76	58.46
Total	130	100

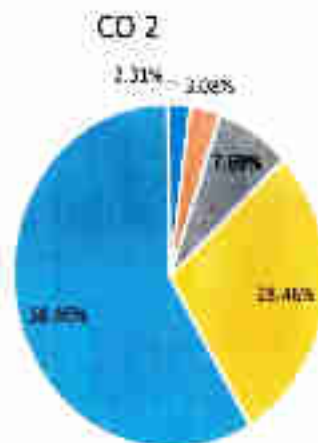
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO4: Evaluate the daily resource requirement and interpret the best possible schedule from different combinations

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	4	3.08
3- Moderately	10	7.69
4- Mostly	37	28.46
5- Definitely	76	58.46
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

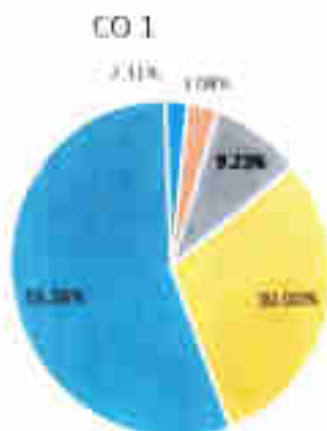
Subject - Construction Management (Theory)

Subject Teacher - Prof. Shanthi Selvam/ Prof. Molly Mathew/ Prof. Sanjay Singh

CO5: Analyze the given network and determine an optimum time cost optimization curve

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	4	3.08
3- Moderately	12	9.23
4- Mostly	39	30.00
5- Definitely	72	55.38
Total	130	100

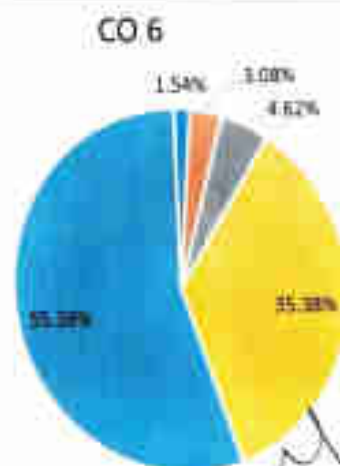
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO6: Inspect the quality & safety measures on construction sites during execution of civil engineering projects and adopt the laws pertaining to construction industry

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	4	3.08
3- Moderately	6	4.62
4- Mostly	46	35.38
5- Definitely	72	55.38
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

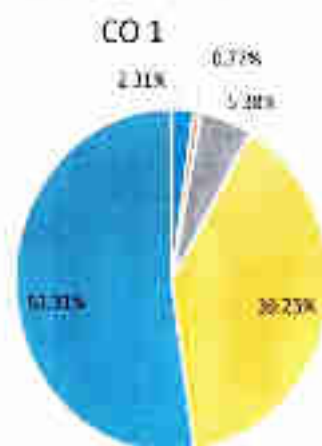
Subject- Construction Management (Tutorial)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Molly Mathew/ Prof. Sanjay Singh

CO1: Understand & apply the knowledge of management functions like planning, scheduling, executing & controlling the construction projects

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	1	0.77
3- Moderately	7	5.38
4- Mostly	51	39.23
5- Definitely	68	52.31
Total	130	100

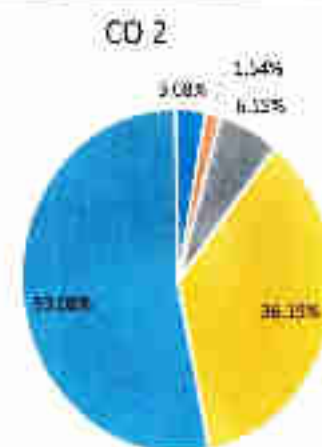
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO2: Discover the importance of construction Industry. Classify the construction Projects. Decide how to select the lay-out of a site

Score	No. of students	Percentage (%)
1- Can't Say	2	3.08
2- Hardly	2	1.54
3- Moderately	8	6.15
4- Mostly	47	36.15
5- Definitely	69	53.08
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

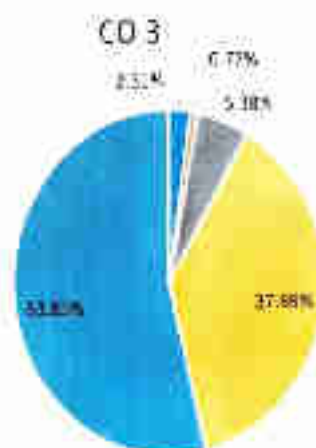
Course Exit Report Analysis (SEM-VIII)

Subject – Construction Management (Tutorial)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Molly Mathew/ Prof. Sanjay
Singh**CO3: Construct feasible project schedule by using scheduling techniques like CPM and PERT and evaluate the critical path in the network.**

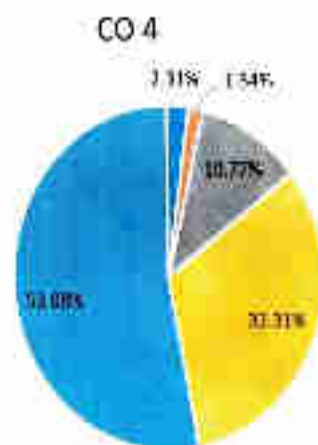
Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	1	0.77
3- Moderately	7	5.38
4- Mostly	48	37.69
5- Definitely	70	53.85
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

**CO4: Evaluate the daily resource requirement and interpret the best possible schedule from different combinations.**

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	2	1.54
3- Moderately	14	10.77
4- Mostly	42	32.31
5- Definitely	69	53.08
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

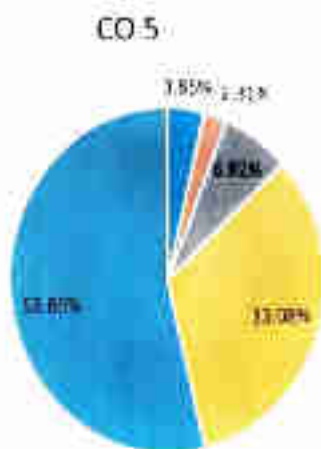
Subject – Construction Management (Tutorial)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Molly Mathew/ Prof. Sanjay Singh

CO5: Analyze the given network and determine an optimum time cost optimization curve.

Score	No. of students	Percentage (%)
1- Can't Say	5	3.85
2- Hardly	3	2.31
3- Moderately	9	6.92
4- Mostly	43	33.08
5- Definitely	70	53.85
Total	130	100

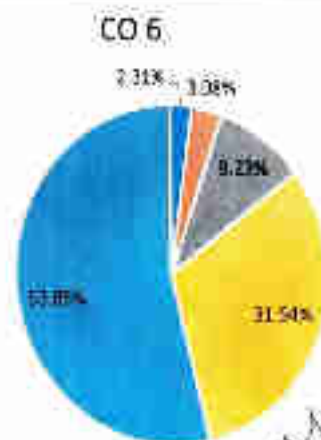
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO6: Inspect the quality & safety measures on construction sites during execution of civil engineering projects and adopt the laws pertaining to construction industry.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	4	3.08
3- Moderately	12	9.23
4- Mostly	41	31.54
5- Definitely	70	53.85
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



HOD
Civil Dept.

Principal
SCOE



Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

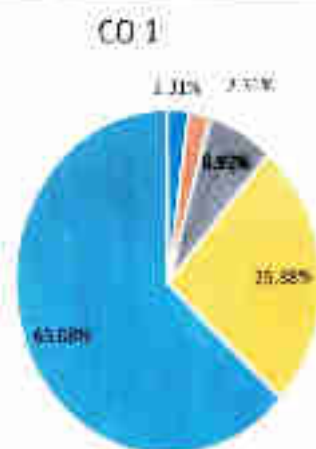
Subject – Construction Safety

Subject Teacher – Prof. Shweta Motharkar/ Prof. Shahbaz Khan

CO1: Apply safety mechanisms and concepts for improving overall safety of construction sites.

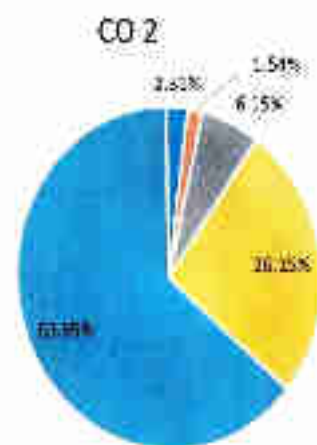
Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	3	2.31
3- Moderately	9	6.92
4- Mostly	33	25.38
5- Definitely	82	63.08
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

**CO2: Explain the various safety requirements.**

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	2	1.54
3- Moderately	8	6.15
4- Mostly	34	26.15
5- Definitely	83	63.85
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year: 2023-2024

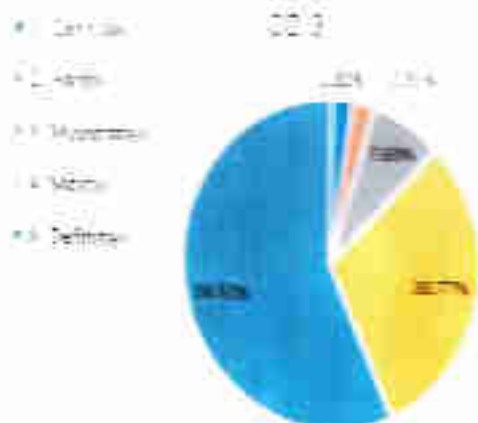
Course Exit Report Analysis (SEM-V III)

Subject - Constructing Safety

Subject Teacher - Prof. Shweta Mathurkar, Prof. Shabbir Khan

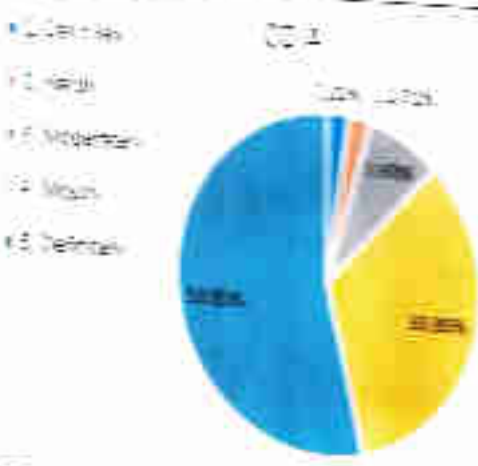
CO3: Explain the various techniques to prevent accidents.

Score	No. of students	Percentage (%)
1- Very Poor	0	0.00
2- Poor	1	2.22
3- Moderate	2	4.44
4- Good	10	22.22
5- Excellent	45	100.00
Total	68	100



CO4: Explain construction safety management.

Score	No. of students	Percentage (%)
1- Very Poor	0	0.00
2- Poor	1	2.22
3- Moderate	2	4.44
4- Good	10	22.22
5- Excellent	45	100.00
Total	68	100





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Course Exit Report Analysis (SEM-VIII)

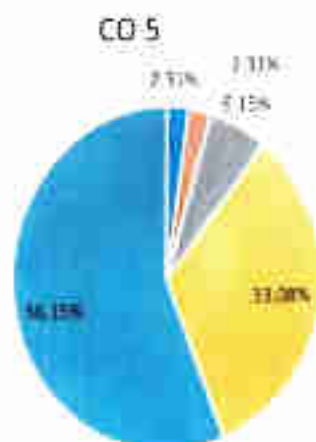
Subject – Construction Safety

Subject Teacher – Prof. Shweta Motharkar/ Prof. Shahbaz Khan

CO5: Analyze safety policies, methods and training on construction sites.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	3	2.31
3- Moderately	8	6.15
4- Mostly	43	33.08
5- Definitely	73	56.15
Total	130	100

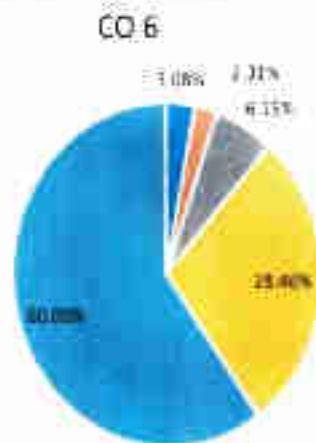
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO6: Apply safety in construction operations.

Score	No. of students	Percentage (%)
1- Can't Say	4	3.08
2- Hardly	3	2.31
3- Moderately	8	6.15
4- Mostly	37	28.46
5- Definitely	78	60.00
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




HOD
 Civil Dept.

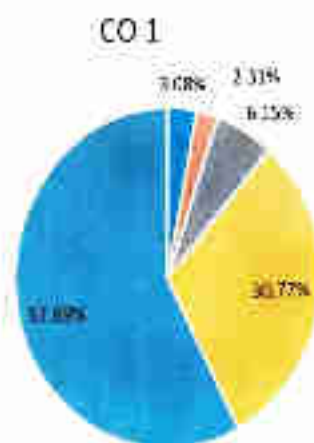

Principal
 SCE



CO1: Explain the need for repairs, rehabilitation & maintenance of buildings.

Score	No. of students	Percentage (%)
1- Can't Say	4	3.08
2- Hardly	3	2.31
3- Moderately	9	6.15
4- Mostly	40	30.77
5- Definitely	75	57.69
Total	130	100

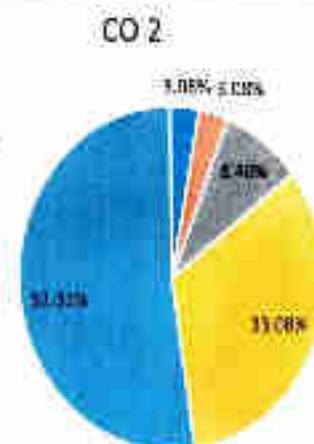
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO2: Judge the cause & extent of damage in buildings

Score	No. of students	Percentage (%)
1- Can't Say	4	3.08
2- Hardly	4	3.08
3- Moderately	11	8.46
4- Mostly	43	33.08
5- Definitely	68	52.31
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



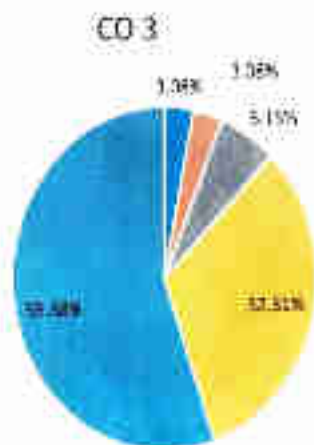


Haridas

CO3: Select the appropriate repair materials & methods to rectify cracks & corrosion

Score	No. of students	Percentage (%)
1- Can't Say	4	3.08
2- Hardly	4	3.08
3- Moderately	8	6.15
4- Mostly	42	32.31
5- Definitely	72	55.38
Total	130	100

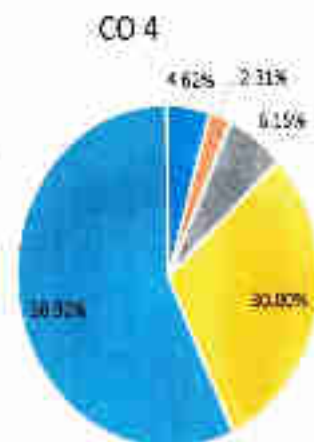
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO4: Demonstrate various rehabilitation & retrofitting methods for concrete structures

Score	No. of students	Percentage (%)
1- Can't Say	6	4.62
2- Hardly	3	2.31
3- Moderately	8	6.15
4- Mostly	39	30.00
5- Definitely	74	56.92
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



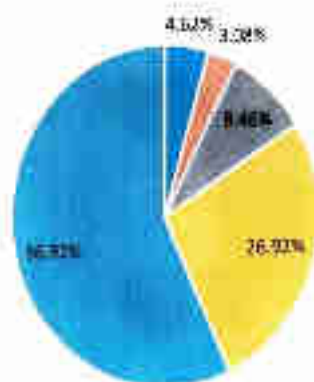


CO5: Understand causes & repair procedure for steel structures.

Score	No. of students	Percentage (%)
1- Can't Say	6	4.62
2- Hardly	4	3.08
3- Moderately	11	8.46
4- Mostly	35	26.92
5- Definitely	74	56.92
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 5

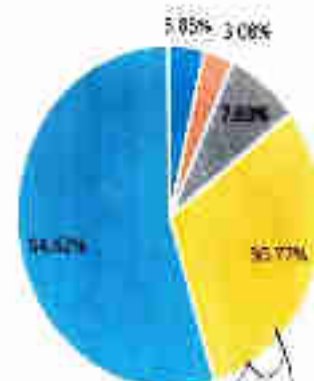


CO6: Understand the effect the earthquake & procedure for seismic retrofitting & maintenance of heritage structures

Score	No. of students	Percentage (%)
1- Can't Say	5	3.85
2- Hardly	4	3.08
3- Moderately	10	7.69
4- Mostly	40	30.77
5- Definitely	71	54.62
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6



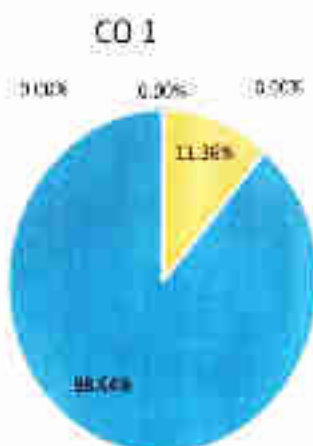
HOD
Civil Dept.

Principal
SCOE

**CO1: Understand and identify environmental issues relevant to India and global concerns.**

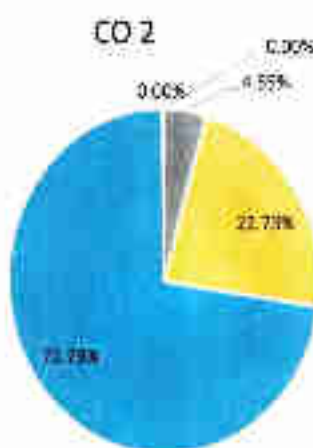
Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	0	0.00
4- Mostly	5	11.36
5- Definitely	39	88.64
Total	44	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

**CO2: Study the needs for sustainable development.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	0	0.00
3- Moderately	2	4.55
4- Mostly	10	22.73
5- Definitely	32	72.73
Total	44	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

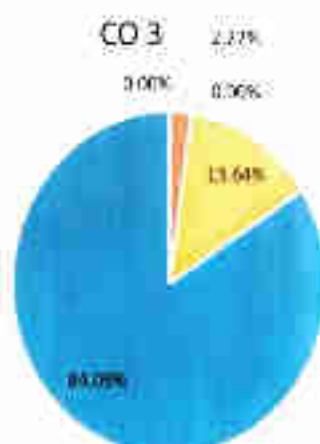




CO3: Learn concept of ecology

Score	No. of students	Percentage (%)
1- Can't Say	0	0.00
2- Hardly	1	2.27
3- Moderately	0	0.00
4- Mostly	6	13.64
5- Definitely	37	84.09
Total	44	100

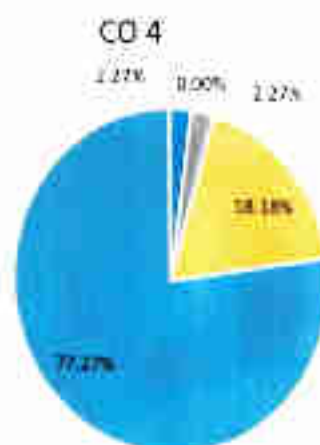
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO4: Understand the scope and implementation of Environmental Management in corporates.

Score	No. of students	Percentage (%)
1- Can't Say	1	2.27
2- Hardly	0	0.00
3- Moderately	1	2.27
4- Mostly	8	18.18
5- Definitely	34	77.27
Total	44	100

- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely





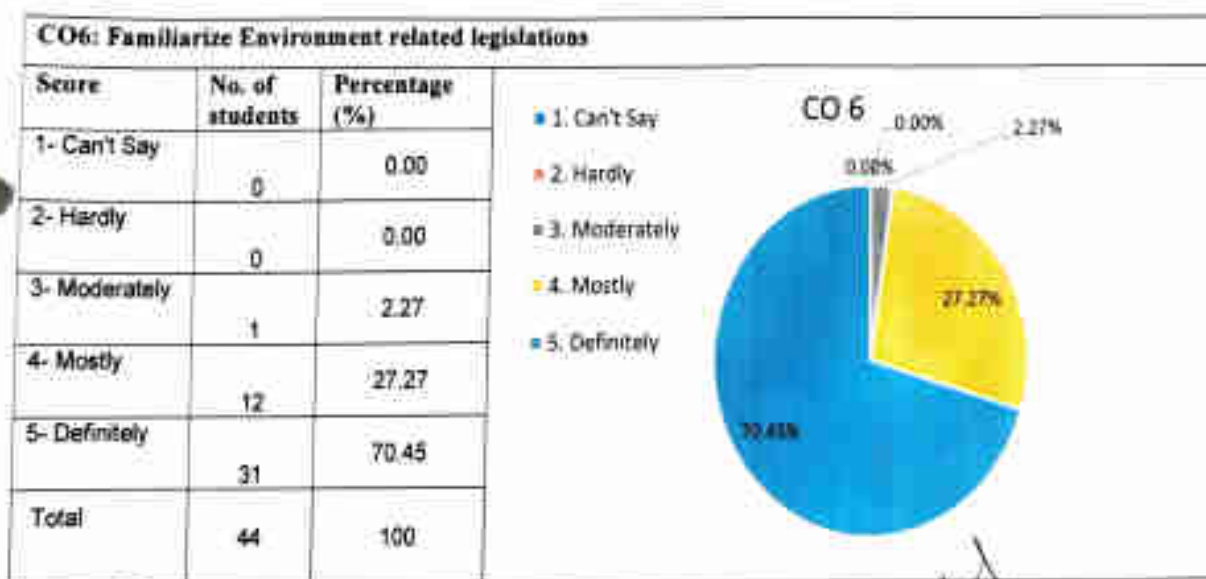
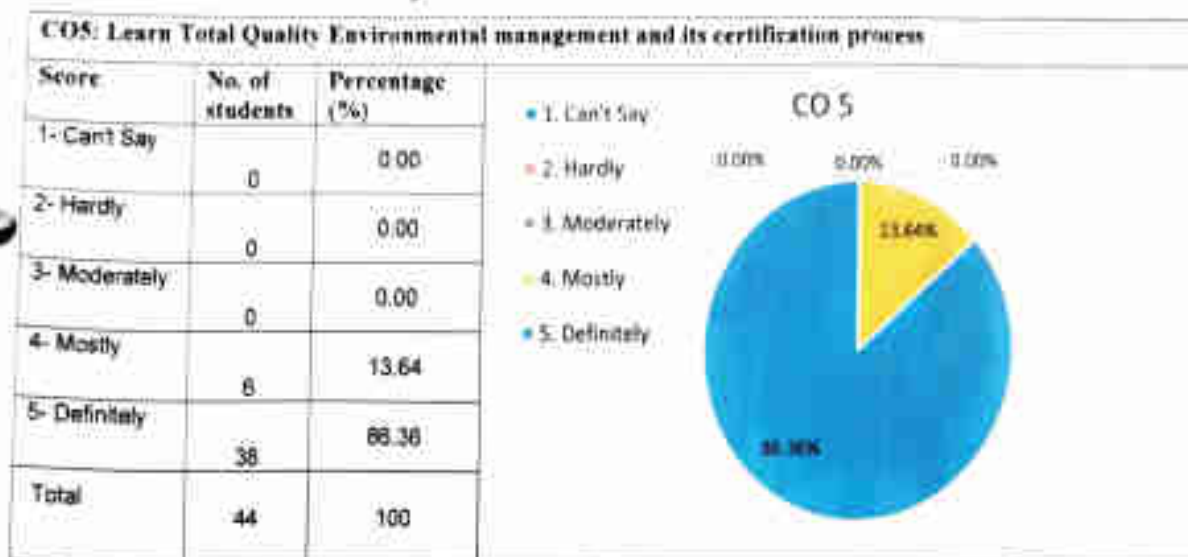
Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

Subject – Environmental Management

Subject Teacher – Prof. Sreedevi Lekshmi



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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

Subject – Project Management

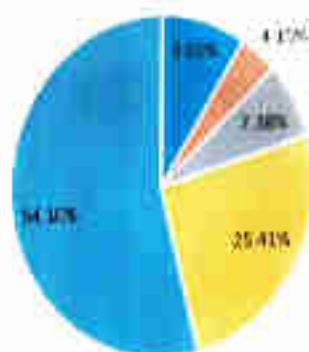
Subject Teacher – Prof. Tarannum Shaikh

CO1: Apply selection criteria and select an appropriate project from different options.

Score	No. of students	Percentage (%)
1- Can't Say	11	9.02
2- Hardly	5	4.10
3- Moderately	9	7.38
4- Mostly	31	25.41
5- Definitely	66	54.10
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 1

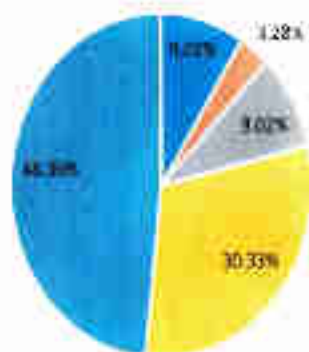


CO2: Write work breakdown structure for a project and develop a schedule based on it.

Score	No. of students	Percentage (%)
1- Can't Say	11	9.02
2- Hardly	4	3.28
3- Moderately	11	9.02
4- Mostly	37	30.33
5- Definitely	59	48.36
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 2





Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

Subject – Project Management

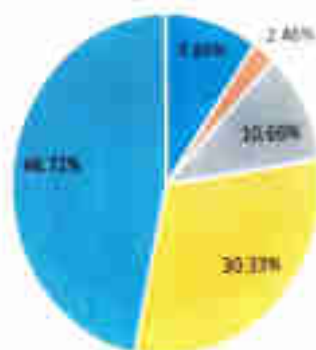
Subject Teacher – Prof. Tarannum Shaikh

CO3: Identify opportunities and threats to the project and decide an approach to deal with them strategically.

Score	No. of students	Percentage (%)
1- Can't Say	12	9.84
2- Hardly	3	2.46
3- Moderately	13	10.66
4- Mostly	37	30.33
5- Definitely	57	46.72
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

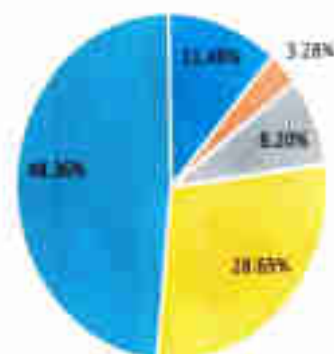
CO 3

**CO4: Use Earned value technique and determine & predict status of the project.**

Score	No. of students	Percentage (%)
1- Can't Say	14	11.48
2- Hardly	4	3.28
3- Moderately	10	8.20
4- Mostly	35	28.69
5- Definitely	59	48.36
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 4





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Course Exit Report Analysis (SEM-VIII)

Subject - Project Management

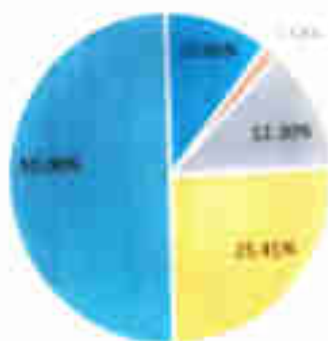
Subject Teacher - Prof. Tarannum Shaikh

CO5: Capture lessons learned during project phases and document them for future reference

Score	No. of students	Percentage (%)
1- Can't Say	13	10.66
2- Hardly	2	1.64
3- Moderately	15	12.30
4- Mostly	31	25.41
5- Definitely	61	50.00
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO-5

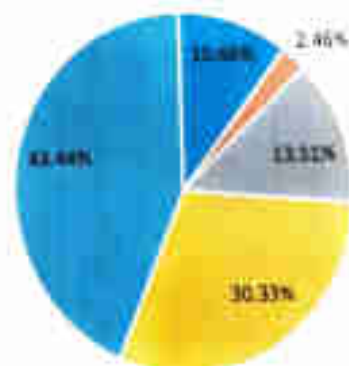


CO6: Learn project termination types and acknowledge the success and failures of the project.

Score	No. of students	Percentage (%)
1- Can't Say	13	10.66
2- Hardly	3	2.46
3- Moderately	16	13.11
4- Mostly	37	30.33
5- Definitely	53	43.44
Total	122	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

CO 6



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Course Exit Report Analysis (SEM-VIII)

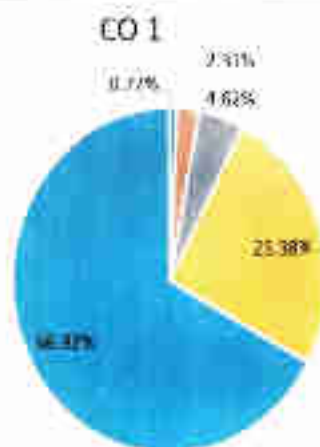
Subject – Major Project

Subject Teacher – Prof. Shanthi Selvam

CO1: Apply formal idea generation tools to develop multiple engineering design solutions through project research work.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.77
2- Hardly	3	2.31
3- Moderately	6	4.62
4- Mostly	33	25.38
5- Definitely	87	66.92
Total	130	100

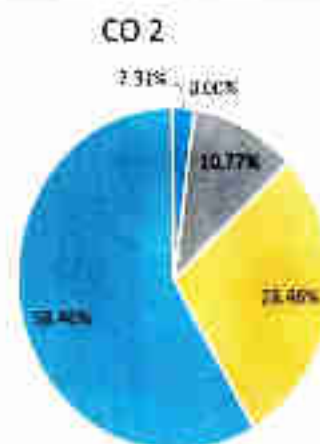
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO2: Create engineering-standard figures, reports and drawings to complement research writing and its presentations. [Estimate the viscosity of fluid]

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	0	0.00
3- Moderately	14	10.77
4- Mostly	37	28.46
5- Definitely	76	58.46
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

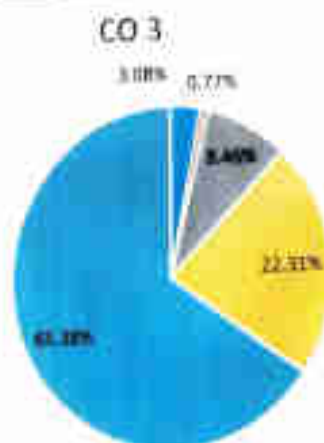
Subject – Major Project

Subject Teacher – Prof. Shanthi Selvam

CO3: Apply developed product to formal decision-making tools to select optimal engineering design solutions for further development. [Evaluate the losses in pipes]

Score	No. of students	Percentage (%)
1- Can't Say	4	3.08
2- Hardly	1	0.77
3- Moderately	11	8.46
4- Mostly	29	22.31
5- Definitely	85	65.36
Total	130	100

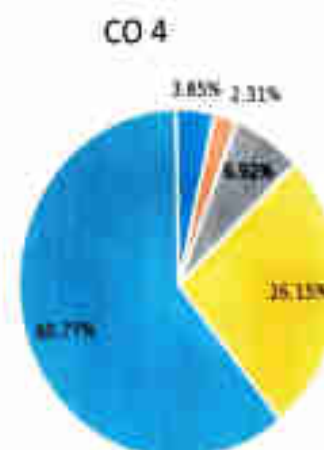
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO4: Present results of the project as a team, with smooth integration of contributions from all individual efforts. [Assess the flow pattern and velocity distribution in pipe flow]

Score	No. of students	Percentage (%)
1- Can't Say	5	3.85
2- Hardly	3	2.31
3- Moderately	9	6.92
4- Mostly	34	26.15
5- Definitely	79	60.77
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Department of Civil Engineering

Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

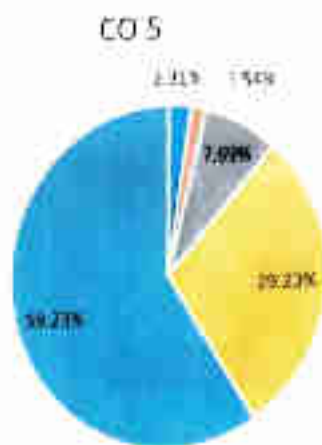
Subject – Major Project

Subject Teacher – Prof. Shanthi Selvam

CO5: Identify engineering systems, variables, and parameters to formulate the project design and solve various problems. [Learn the water hammer phenomenon through demonstration]

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	2	1.54
3- Moderately	10	7.69
4- Mostly	38	29.23
5- Definitely	77	59.23
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely

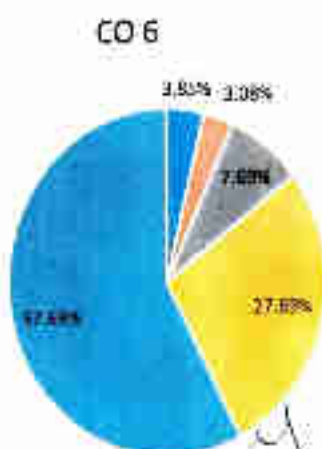


CO6: Describe the requirement of knowledge, skills and attitudes for continuing professional development. [Learn the wind tunnel testing through demonstration]

[Learn the wind tunnel testing through demonstration]

Score	No. of students	Percentage (%)
1- Can't Say	5	3.85
2- Hardly	4	3.08
3- Moderately	10	7.69
4- Mostly	36	27.69
5- Definitely	75	57.69
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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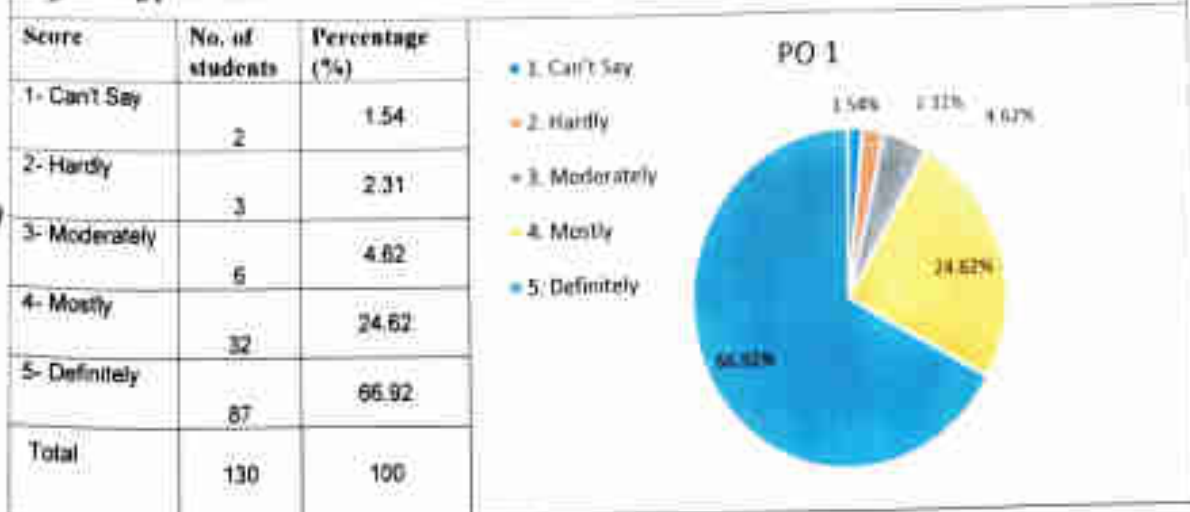
Department of Civil Engineering

Academic Year : 2023-2024

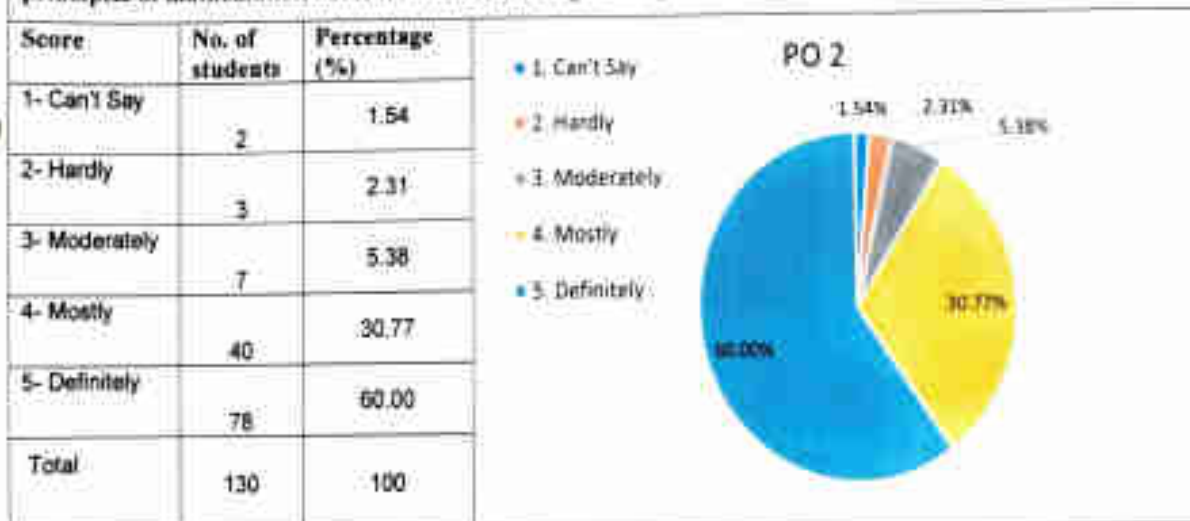
Course Exit Report Analysis (SEM-VIII)

Subject – Program Exit

PO1: Apply the knowledge of mathematics, science and engineering fundamentals to solve complex civil engineering problems.



PO2: Identify, formulate and analyze civil engineering problems and derive conclusions using first principles of mathematics, natural sciences, and engineering sciences.





Department of Civil Engineering

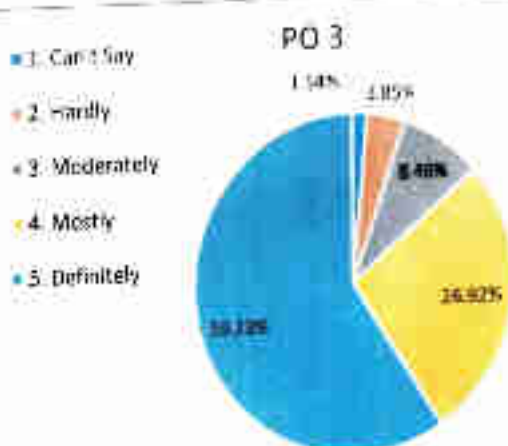
Academic Year : 2023-2024

Course Exit Report Analysis (SEM-VIII)

Subject – Program Exit

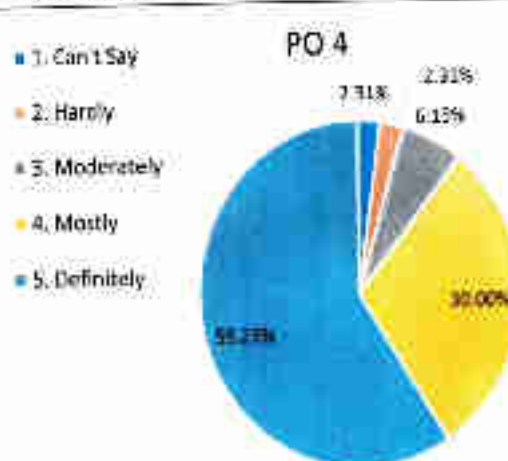
PO3: Investigate complex civil engineering problems and find appropriate solution leading to valid conclusions.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	5	3.85
3- Moderately	11	8.46
4- Mostly	35	26.92
5- Definitely	77	59.23
Total	130	100



PO-4: Design a civil engineering system, component, or process to meet specified needs with appropriate attention to health, safety, standards, environmental and societal considerations.

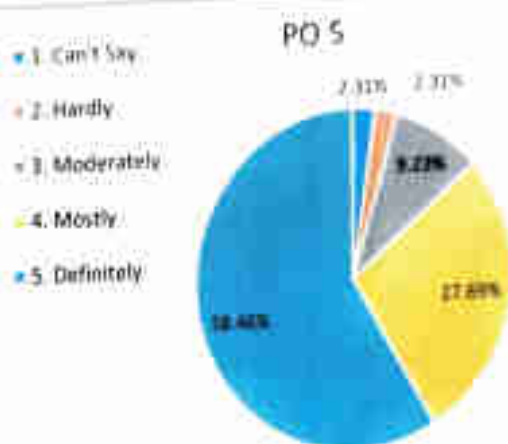
Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	3	2.31
3- Moderately	8	6.15
4- Mostly	39	30.00
5- Definitely	77	59.23
Total	130	100





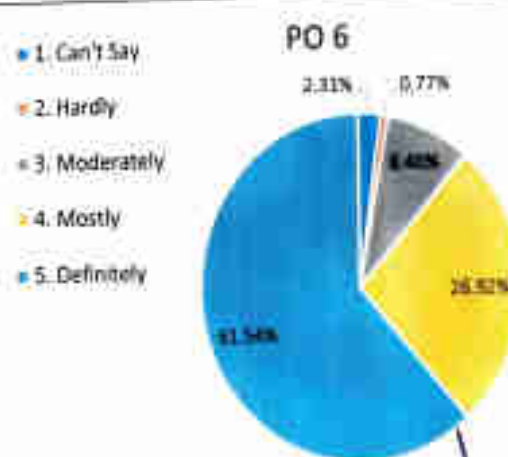
PO-5: Create, select and apply appropriate techniques, resources, and advanced engineering and software tools necessary to analyze and design civil engineering problems.

Score	Nn. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	3	2.31
3- Moderately	12	9.23
4- Mostly	36	27.69
5- Definitely	76	58.46
Total	130	100



PO-6: Understand the impact of Civil Engineering solution on society and environment for sustainable development

Score	Nu. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	1	0.77
3- Moderately	11	8.46
4- Mostly	35	26.92
5- Definitely	80	61.54
Total	130	100



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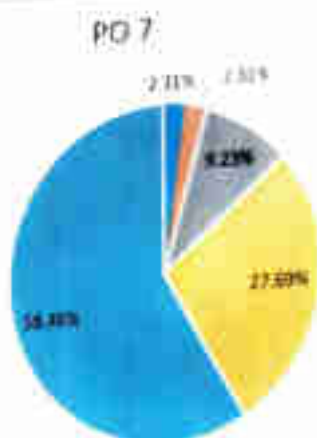
Course Exit Report Analysis (SEM-VIII)

Subject – Program Exit

PO-7: Understand societal, health, safety, cultural and legal issues and responsibilities relevant to engineering profession.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	3	2.31
3- Moderately	12	9.23
4- Mostly	35	27.69
5- Definitely	75	58.46
Total	130	100

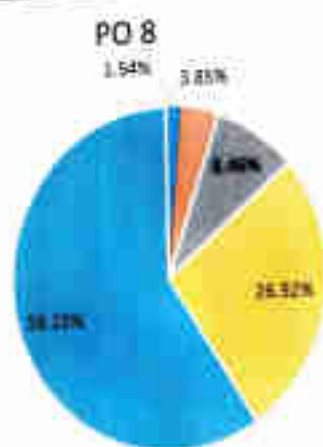
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



PO-8: Apply professional ethics, accountability and equity in engineering profession.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	5	3.85
3- Moderately	11	8.46
4- Mostly	35	26.92
5- Definitely	77	59.23
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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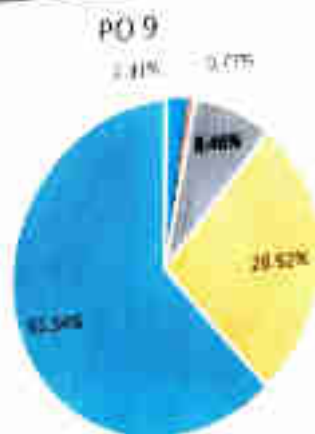
Course Exit Report Analysis (SEM-VIII)

Subject - Program Exit

PO-9: Work effectively as a member and leader in multidisciplinary teams for a common goal.

Score	No. of students	Percentage (%)
1- Can't Say	3	2.31
2- Hardly	5	3.77
3- Moderately	11	8.46
4- Mostly	36	26.92
5- Definitely	80	61.54
Total	130	100

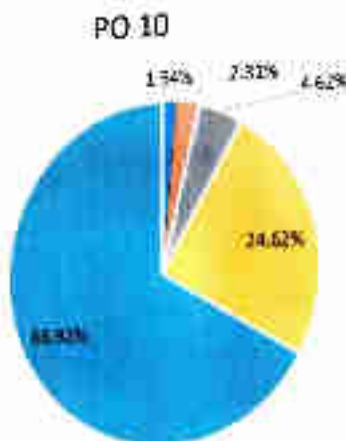
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



PO-10: Communicate effectively with in a profession and society at large.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	3	2.31
3- Moderately	6	4.62
4- Mostly	32	24.62
5- Definitely	87	66.92
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





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Academic Year : 2023-2024

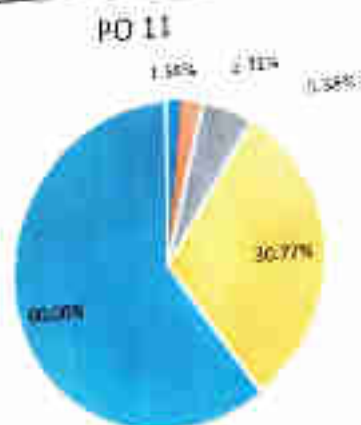
Course Exit Report Analysis (SEM-VIII)

Subject - Program Exit

PO-11: Appropriately incorporate principles of management and finance to one's own work.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	3	2.31
3- Moderately	7	5.38
4- Mostly	40	30.77
5- Definitely	78	60.00
Total	130	100

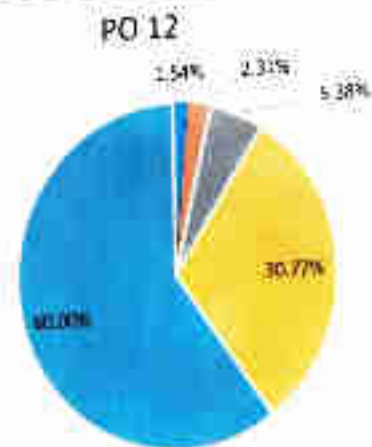
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



PO-12: Identify educational needs and engage in lifelong learning in a changing world on Technology.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.54
2- Hardly	3	2.31
3- Moderately	7	5.38
4- Mostly	40	30.77
5- Definitely	78	60.00
Total	130	100

- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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