



**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 :2022-23 (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.

<b>Subject</b>	<b>Faculty Name</b>	<b>Feedback/suggestions</b>	<b>Action Taken</b>	<b>Date</b>
Survey	Prof. Shanthi Selvam	For on field experiment	AutoCAD Course	20/3/2023 21/3/2023
BMCT	Prof. Sujaya Wadekar	For additional experiment	Site Visit to Ready mix concrete plant	28/3/2023 29/3/2023 31/3/2023
Water Resource Engineering	Prof. Rachel Gitty	Learning basic Concept	Site visit to Bhandardara dam	9/3/2023 10/3/2023
Repairs, Rehabilitation and Retrofitting of Structure	Prof. Vinitha Jovar	Introducing new technology in RRRS	Seminar on Repairs, Rehabilitation and Retrofitting of Structure	29/3/2023
Environmental Engineering	Prof. Asmita Lakhote	Sewage Treatment process	Sewage Treatment Plant	15/3/2023 16/3/2023

HOD  
Civil Engg.

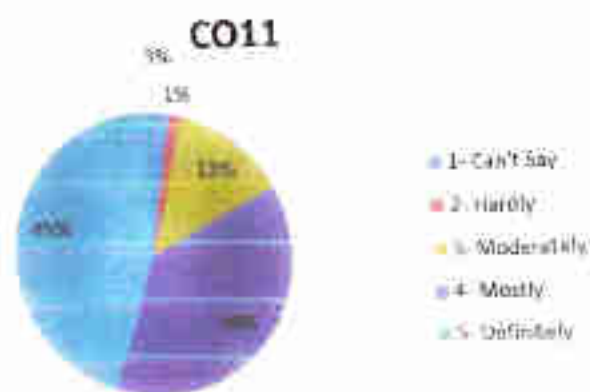
Principal



**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Program Exit Analysis Report (SEM VIII)**

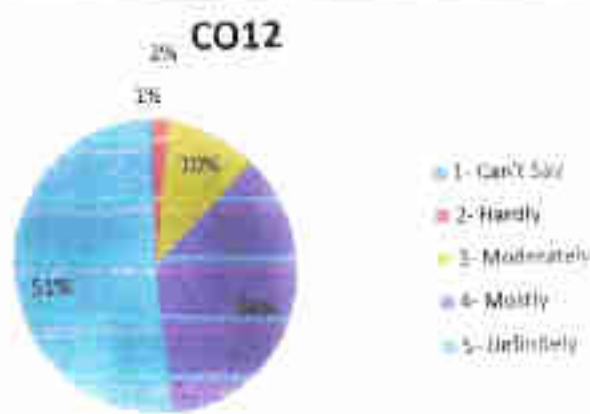
**PO-11: Appropriately incorporate principles of management and finance to one's own work.**

Score	No. of students	Percentage (%)
1- Can't Say	5	3
2- Hardly	3	2
3- Moderately	25	13
4- Mostly	74	38
5- Definitely	88	45
Total	198	100



**PO-12: Identify educational needs and engage in lifelong learning in a changing world of technology**

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	4	2
3- Moderately	20	10
4- Mostly	71	36
5- Definitely	100	51
Total	198	100



HOD  
Civil Dept.

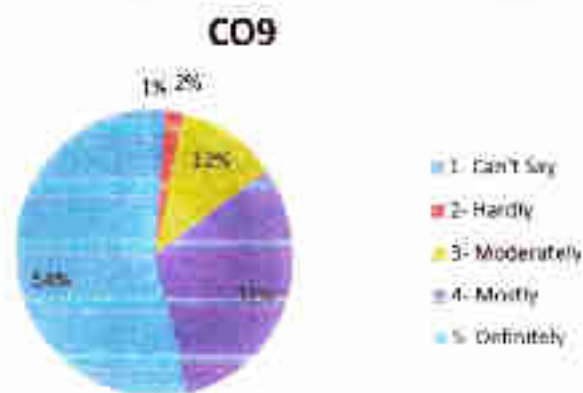
Principal  
SCOE



Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Program Exit Analysis Report (SEM VIII)

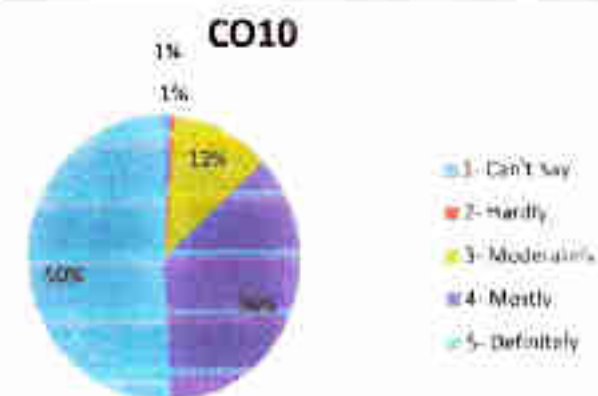
**PO-9: Work Effectively as a member and leader in multidisciplinary team for a common goal.**

Score	No. of students	Percentage (%)
1- Can't Say	3	2
2- Hardly	4	2
3- Moderately	23	12
4- Mostly	61	31
5- Definitely	105	54
Total	196	100



**PO-10: Communicate Effectively within a Profession and Society at large.**

Score	No. of students	Percentage (%)
1- Can't Say	2	1
2- Hardly	1	1
3- Moderately	23	12
4- Mostly	71	36
5- Definitely	99	51
Total	196	100

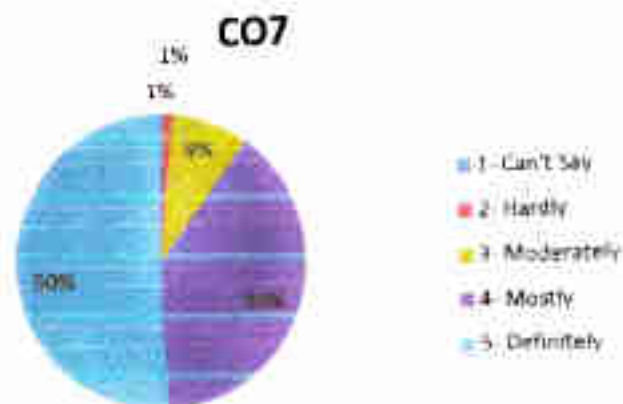




**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Program Exit Analysis Report (SEM VIII)**

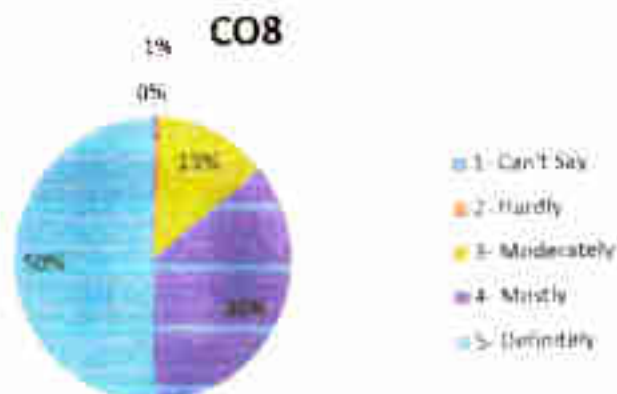
**PO-7: Understand Societal, health, Safety, cultural, Legal issues and Responsibilities relevant to Engineering Profession.**

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	2	1
3- Moderately	17	9
4- Mostly	77	39
5- Definitely	99	51
Total	196	100



**PO-8: Apply Professional ethics, accountability and equity in Engineering Profession**

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	25	13
4- Mostly	70	35
5- Definitely	98	50
Total	196	100





SARASWATI Educational Society's  
**SARASWATI College of Engineering**

Learn, Live, Achieve and Contribute  
Higher Education: 410 210

**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Program Exit Analysis Report (SEM VIII)**

**PO-5: Create, select and apply appropriate techniques, resources, and advanced engineering and software tools necessary to analyze and design civil engineering problems.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2
2- Hardly	3	2
3- Moderately	30	15
4- Mostly	65	33
5- Definitely	94	48
Total	196	100

**CO5**

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

**PO-6: Understand the impact of Civil Engineering solution on society and environment for sustainable development**

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	3	2
3- Moderately	28	14
4- Mostly	58	30
5- Definitely	106	54
Total	196	100

**CO6**

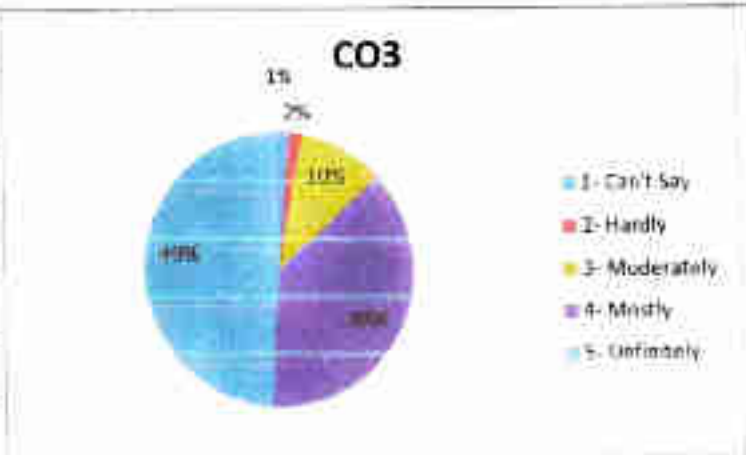
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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**Program Exit Analysis Report (SEM VIII)**

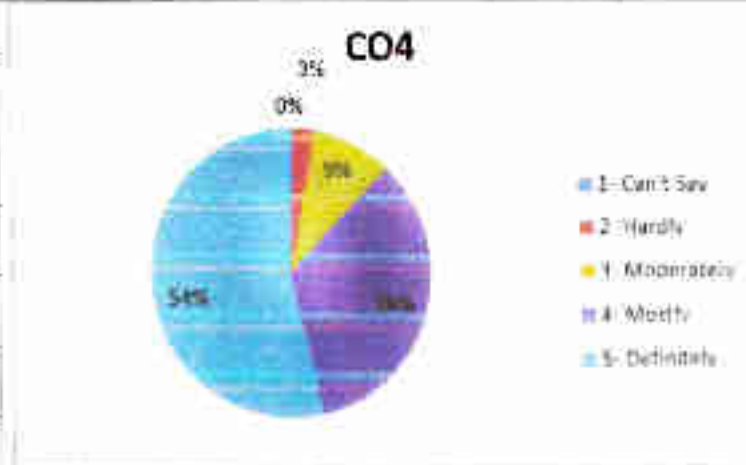
**PO3: Investigate complex civil engineering problems and find appropriate solution leading to valid conclusions.**

Score	No. of students	Percentage (%)
1- Can't Say	3	2
2- Hardly	3	2
3- Moderately	20	10
4- Mostly	74	38
5- Definitely	96	49
<b>Total</b>	<b>196</b>	<b>100</b>



**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	1	1
2- Hardly	5	3
3- Moderately	18	9
4- Mostly	67	34
5- Definitely	105	54
<b>Total</b>	<b>196</b>	<b>100</b>

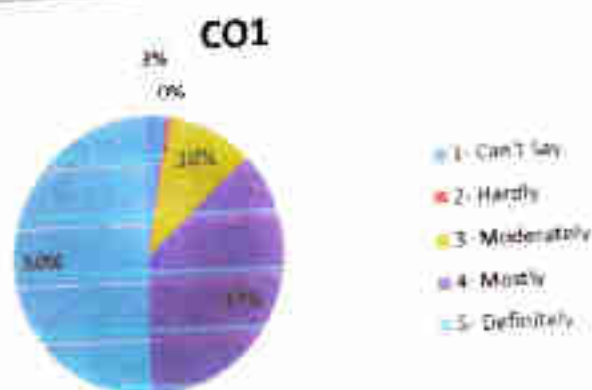




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Academic Year: 2022-23 (Even)  
Program Exit Analysis Report (SEM VIII)

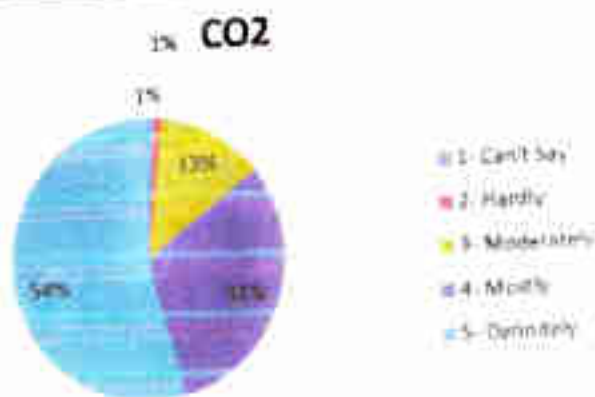
PO1: Apply the knowledge of mathematics, science and engineering fundamentals to solve complex civil engineering problems.

Score	No. of students	Percentage (%)
1- Can't Say	5	3
2- Hardly	1	1
3- Moderately	20	10
4- Mostly	72	37
5- Definitely	98	50
Total	196	100



PO2: Identify, formulate and analyze civil engineering problems and derive conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Score	No. of students	Percentage (%)
1- Can't Say	2	1
2- Hardly	2	1
3- Moderately	25	13
4- Mostly	61	31
5- Definitely	106	54
Total	196	100





# SARASWATI College of Engineering

Waste Less Resource and Conserve It  
Kuvempu, Navalur, KTO 210

Department of Civil Engineering

Academic Year: 2022-23 (Even)

Course Exit Analysis Report (SEM VIII)

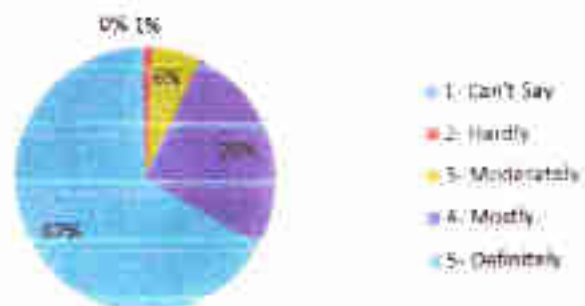
Subject – Major Project

Subject Teacher – Prof. Shanthi Selvam/ Nilima Shende

**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	0	0
2- Hardly	2	1
3- Moderately	11	6
4- Mostly	48	26
5- Definitely	121	66
Total	182	100

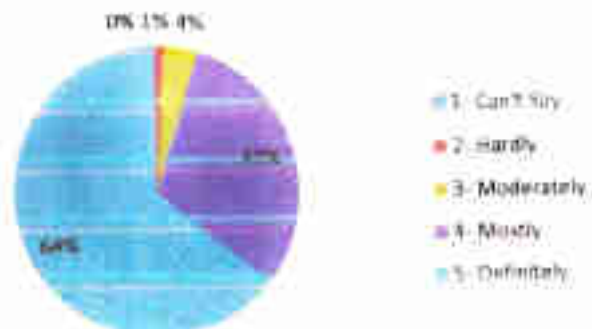
**CO1**



**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	0	0
2- Hardly	2	1
3- Moderately	7	4
4- Mostly	56	31
5- Definitely	117	64
Total	182	100

**CO2**







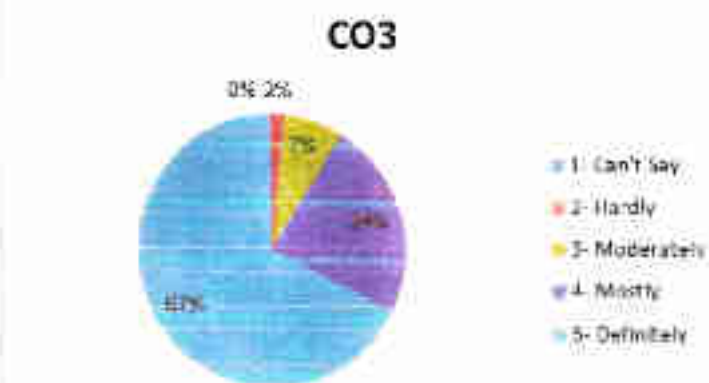
**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**

**Subject – Major Project**

**Subject Teacher – Prof. Shanthi Selvam/ Nilima Shende**

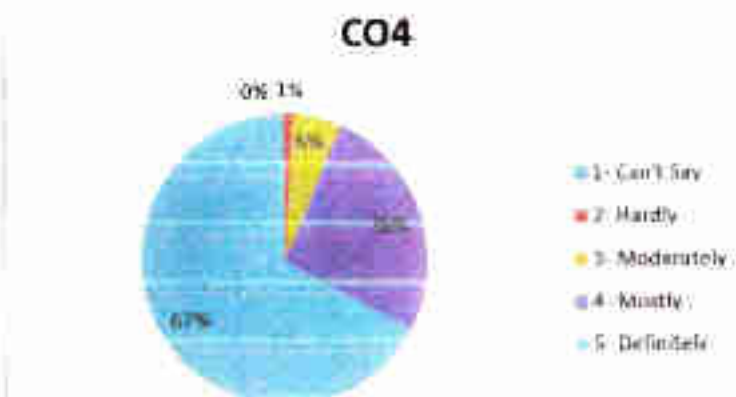
**CO3: Apply developed product to formal decision-making tools to select optimal engineering design solutions for further development. [Evaluate the losses in pipes]**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	2
3- Moderately	13	7
4- Mostly	43	24
5- Definitely	123	68
Total	182	100



**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	0	0
2- Hardly	2	1
3- Moderately	10	5
4- Mostly	48	26
5- Definitely	122	67
Total	182	100

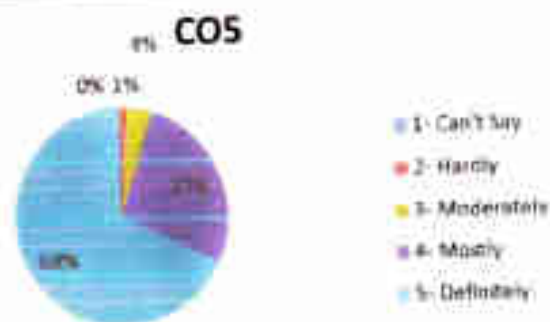




Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Major Project  
Subject Teacher – Prof. Shunthi Selvam/ Nilima Sheude

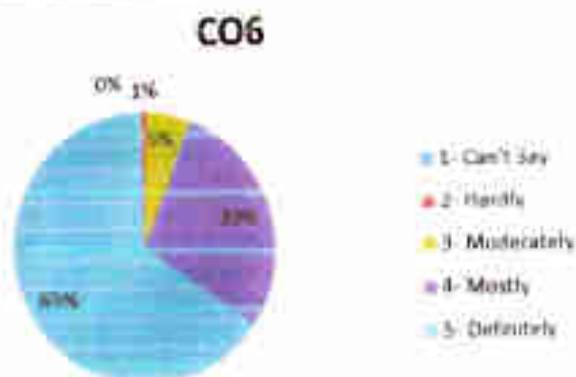
CO5: Identify engineering systems, variables, and parameters to formulate the project design and solve various problems. [Learn the water hammer phenomenon through demonstration]

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	7	4
4- Mostly	49	27
5- Definitely	124	68
Total	182	100



CO6: Describe the requirement of knowledge, skills and attitudes for continuing professional development. [Learn the wind tunnel testing through demonstration]

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	10	5
4- Mostly	52	29
5- Definitely	119	65
Total	182	100

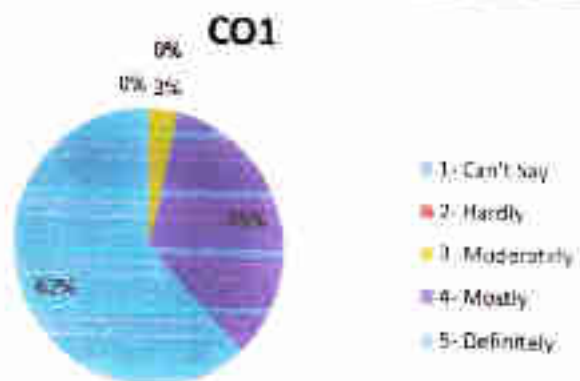




Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject –Environment Management ( ILOC-2)  
Subject Teacher – Prof. Dipika Patil

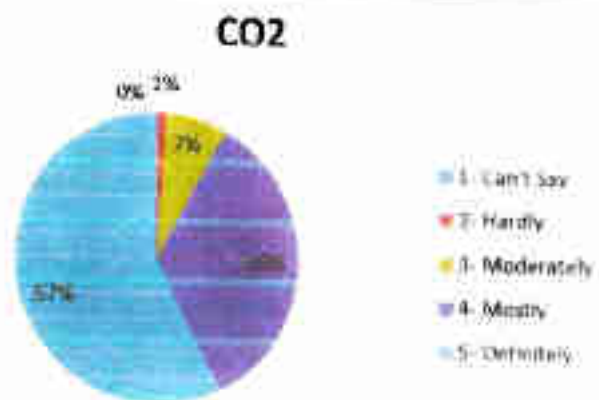
CO1: Understand and identify environmental issues relevant to India and global concerns.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	3
4- Mostly	30	34
5- Definitely	54	62
Total	87	100



CO2: Study the needs for sustainable development.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	6	7
4- Mostly	30	34
5- Definitely	50	57
Total	87	100





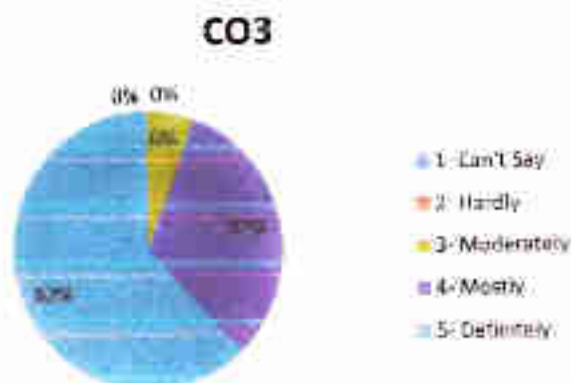
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**SARASWATI College of Engineering**

Swami Vivekananda and Gokulnagar  
Kalyan, Maharashtra - 410210.

**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject –Environment Management ( H.O.C-2)**  
**Subject Teacher – Prof. Dipika Patil**

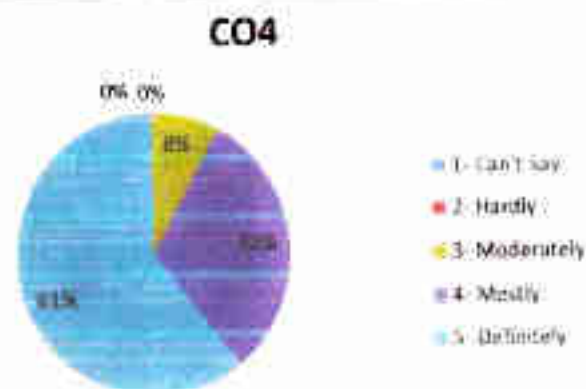
**CO3: Learn concept of ecology**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	5	6
4- Mostly	28	32
5- Definitely	54	62
Total	87	100



**CO4: Understand the scope and implementation of Environmental Management in corporates**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	7	8
4- Mostly	27	31
5- Definitely	53	61
Total	87	100

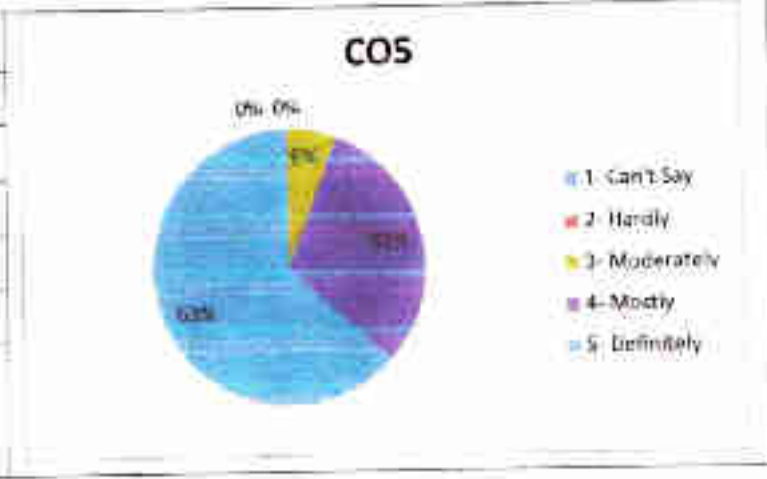




Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Environment Management ( ILOC-2)  
Subject Teacher – Prof. Dipika Patil

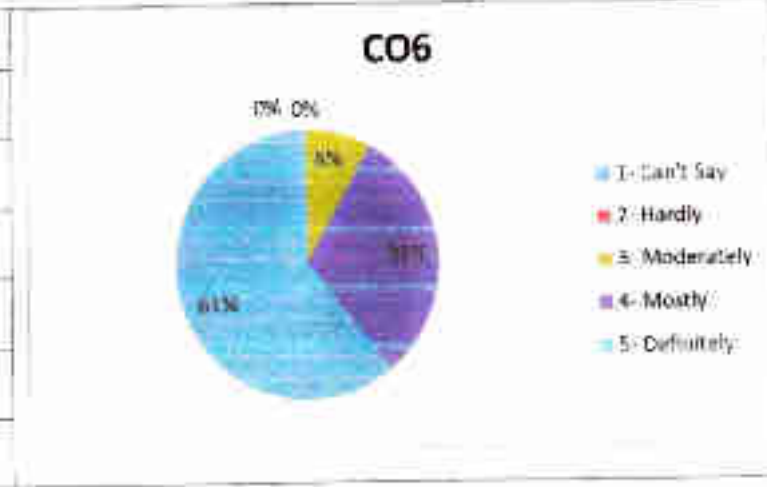
**C05: Learn Total Quality Environmental management and its certification process**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	5	6
4- Mostly	27	31
5- Definitely	55	63
Total	87	100



**C06: Familiarize Environment related legislations**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	7	8
4- Mostly	27	31
5- Definitely	53	61
Total	87	100



HOD  
Civil Dept.

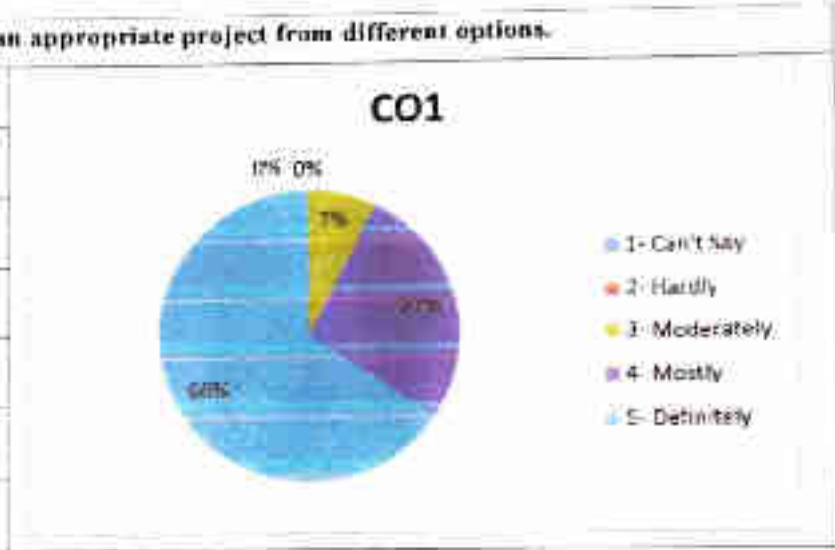
Principal  
SCOE



**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject - Project Management (ILO-2)**  
**Subject Teacher – Prof. Neha Sharma**

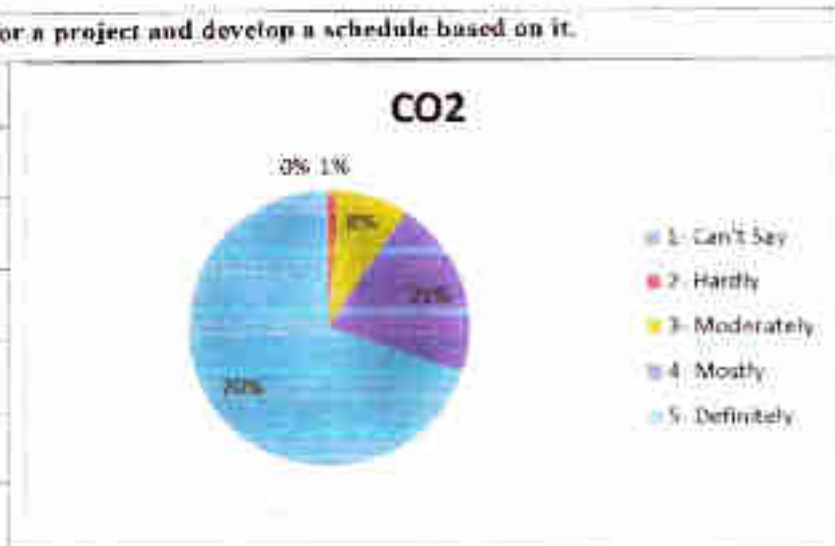
**CO1: Apply selection criteria and select an appropriate project from different options.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	7	7
4- Mostly	26	27
5- Definitely	63	66
Total	96	100



**CO2: Write work breakdown structure for a project and develop a schedule based on it.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	8	8
4- Mostly	20	21
5- Definitely	67	70
Total	96	100

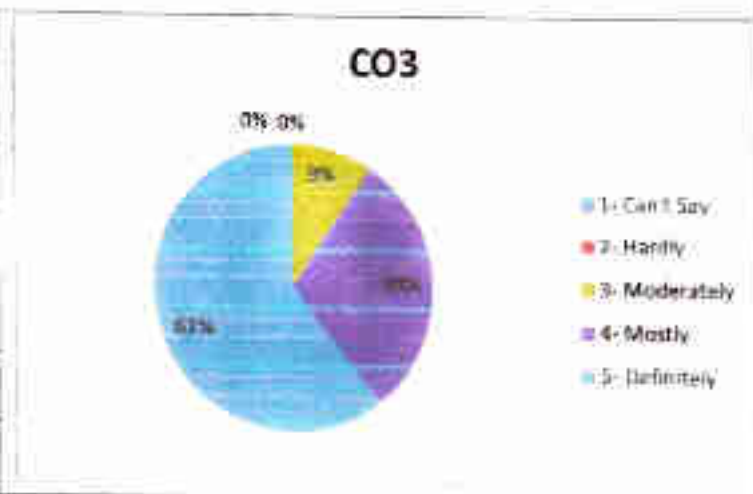




**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject – Project Management (ILO-C-2)**  
**Subject Teacher – Prof. Neha Sharma**

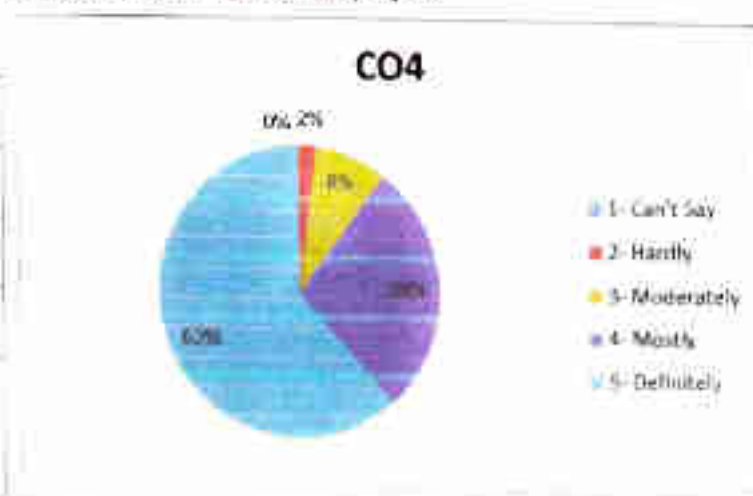
**CO3: Identify opportunities and threats to the project and decide an approach to deal with them strategically**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	9	9
4- Mostly	26	30
5- Definitely	58	60
Total	96	100



**CO4: Use Earned value technique and determine & predict status of the project.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	2
3- Moderately	8	8
4- Mostly	27	28
5- Definitely	59	61
Total	96	100





Department of Civil Engineering

Academic Year: 2022-23 (Even)

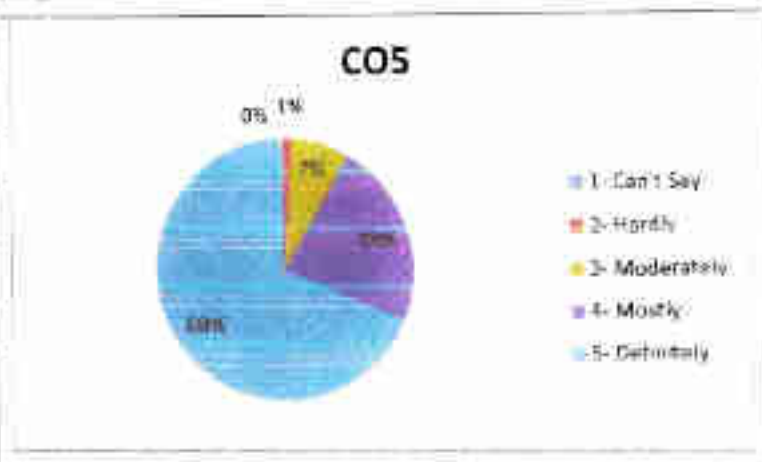
Course Exit Analysis Report (SEM VIII)

Subject - Project Management (ILO-2)

Subject Teacher - Prof. Neha Sharma

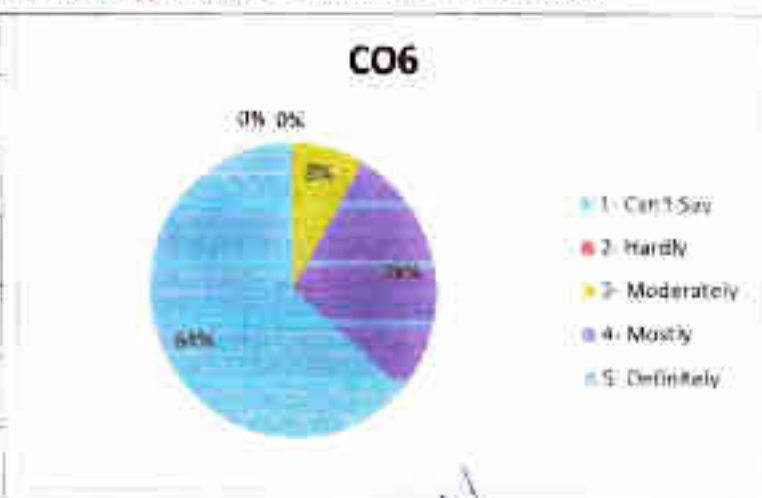
CO5: Capture lessons learned during project phases and document them for future reference.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	7	7
4- Mostly	22	23
5- Definitely	66	69
Total	96	100



CO6: Learn project termination types and acknowledge the success and failures of the project.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	8	8
4- Mostly	27	28
5- Definitely	61	64
Total	96	100



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Principal  
SCE



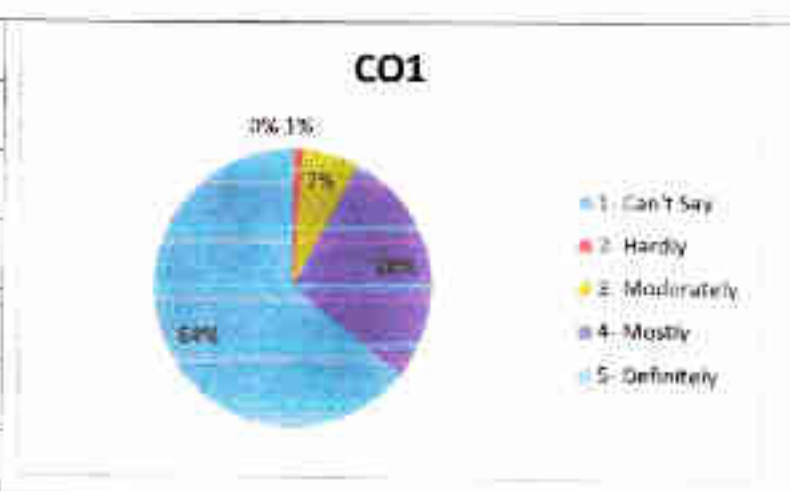


Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Construction Management

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

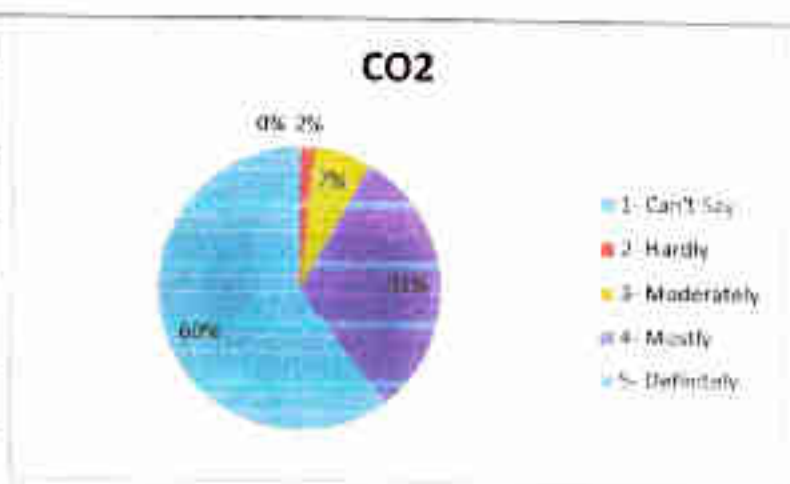
CO1: Understand & apply the knowledge of management functions like planning, scheduling, executing & controlling the construction projects

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	12	7
4- Mostly	51	28
5- Definitely	117	64
Total	182	100



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	0	0
2- Hardly	3	2
3- Moderately	12	7
4- Mostly	57	31
5- Definitely	110	60
Total	182	100





Department of Civil Engineering

Academic Year: 2022-23 (Even)

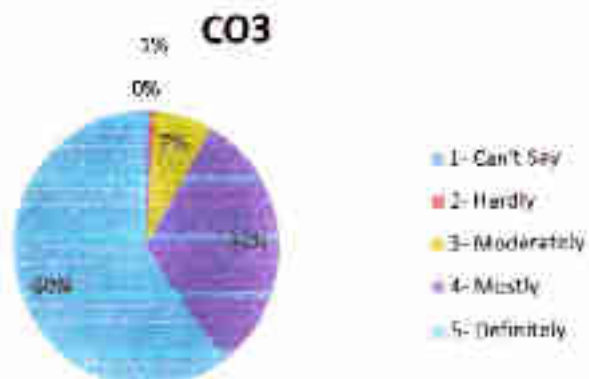
Course Exit Analysis Report (SEM VIII)

Subject - Construction Management

Subject Teacher - Prof. Mally Mathew / Shanthi Selyam / Sanjay Singh

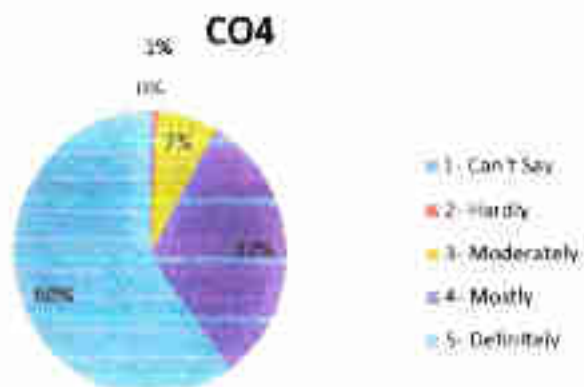
CO3: Construct feasible project schedule by using scheduling techniques like CPM and PERT and evaluate the critical path in the network.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	13	7
4- Mostly	58	32
5- Definitely	109	60
Total	182	100



CO4: Evaluate the daily resource requirement and interpret the best possible schedule from different combinations

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	13	7
4- Mostly	58	32
5- Definitely	109	60
Total	182	100





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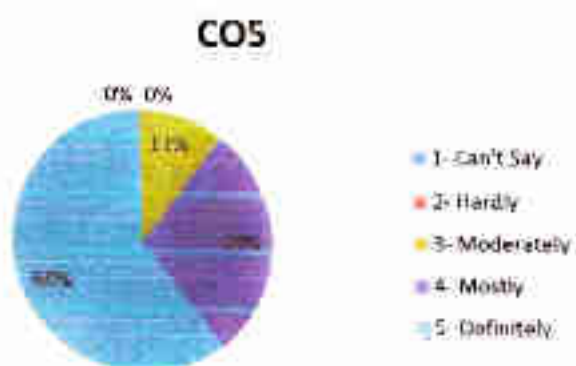
Course Exit Analysis Report (SEM VIII)

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Subject Teacher - Prof. Mally Mathew / Shanthi Selvam / Sanjay Singh

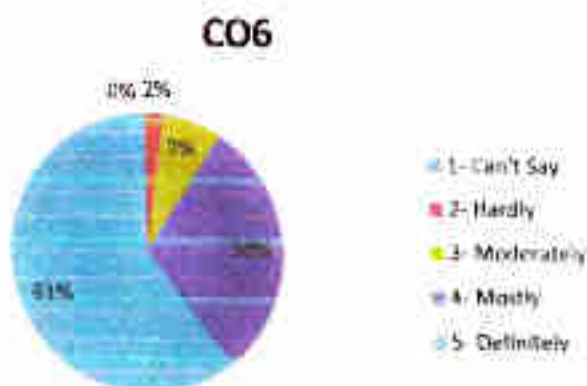
CO5: Analyze the given network and determine an optimum time cost optimization curve

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	19	10
4- Mostly	53	29
5- Definitely	110	60
Total	182	100



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	0	0
2- Hardly	4	2
3- Moderately	13	7
4- Mostly	55	30
5- Definitely	110	60
Total	182	100



HOD  
Civil Dept.

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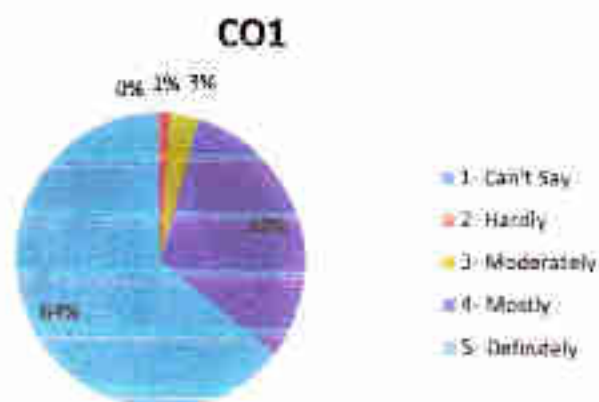
Course Exit Analysis Report (SEM VIII)

Subject – Repairs, Rehabilitation & Retrofitting Of Structures

Subject Teacher – Prof. Vinitha Javar/ Prof. Mriimayee Ganage/ Prof. Neha Chhanagani

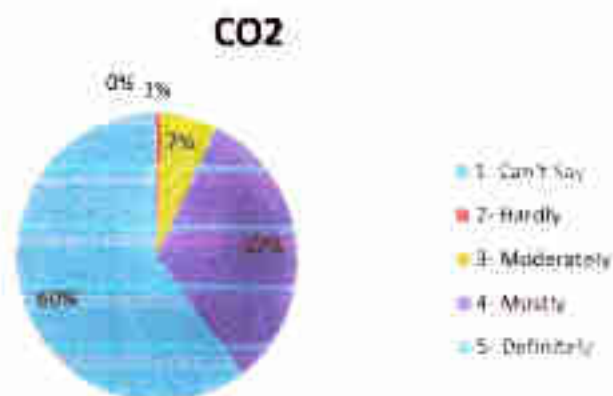
CO1: Explain the need for repairs, rehabilitation & maintenance of buildings

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	6	3
4- Mostly	57	31
5- Definitely	117	64
Total	182	100



CO2: Judge the cause & extent of damage in buildings

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	12	7
4- Mostly	59	32
5- Definitely	110	60
Total	182	100





**Department of Civil Engineering**

**Academic Year: 2022-23 (Even)**

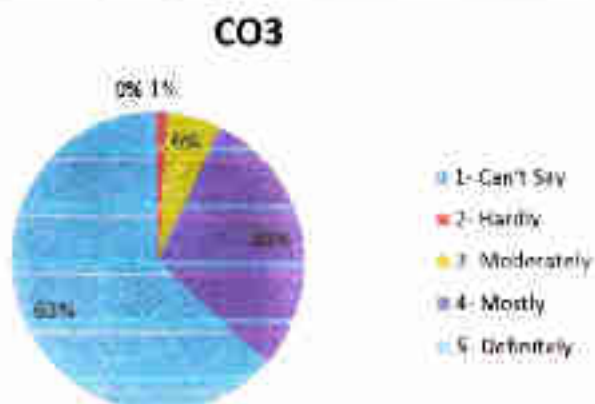
**Course Exit Analysis Report (SEM VIII)**

**Subject – Repairs, Rehabilitation & Retrofitting Of Structures**

**Subject Teacher – Prof. Vinitha Jayar/ Prof. Mrinmayee Ganage/ Prof. Neha Chhanagani**

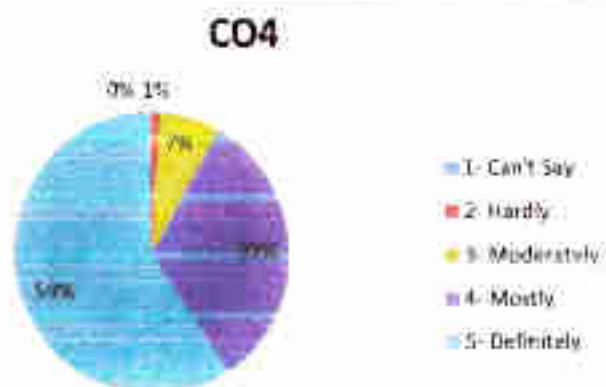
**CO3: Select the appropriate repair materials & methods to rectify cracks & corrosion**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	11	6
4- Mostly	54	30
5- Definitely	115	63
Total	182	100



**CO4: Demonstrate various rehabilitation & retrofitting methods for concrete structures**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	13	7
4- Mostly	59	32
5- Definitely	108	59
Total	182	100





Department of Civil Engineering

Academic Year: 2022-23 (Even)

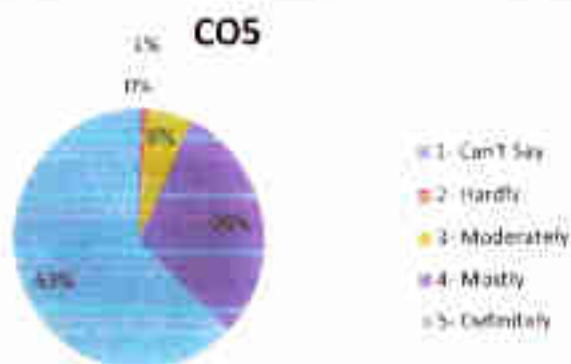
Course Exit Analysis Report (SEM VIII)

Subject – Repairs, Rehabilitation & Retrofitting Of Structures

Subject Teacher – Prof. Vinitha Jovar/ Prof. Mriyamayee Ganage/ Prof. Neha Chhanagan

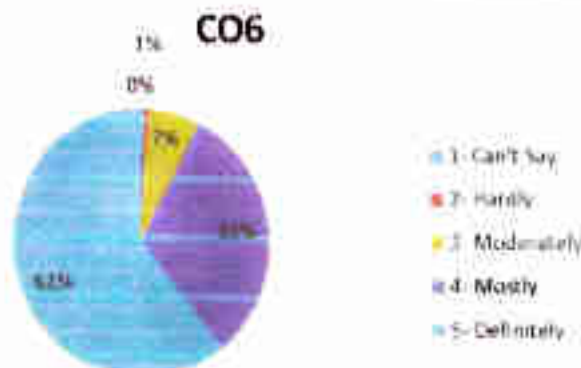
CO5: Understand causes & repair procedure for steel structures

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	11	6
4- Mostly	55	30
5- Definitely	114	63
Total	182	100



CO6: Understand the effect the earthquake & procedure for seismic retrofitting & maintenance of heritage structures

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	12	7
4- Mostly	57	31
5- Definitely	111	61
Total	182	100



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**Department of Civil Engineering**

**Academic Year: 2022-23 (Even)**

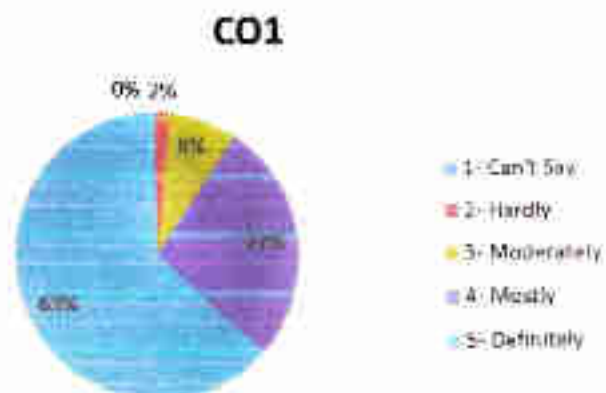
**Course Exit Analysis Report (SEM VIII)**

**Subject – Construction Management TUTORIAL**

**Subject Teacher - Prof. Molly Mathew / Shanthi Selvam / Sanjay Singh**

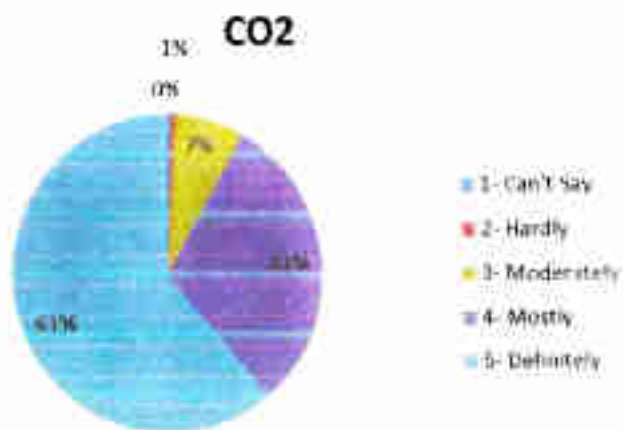
**CO1: Understand & apply the knowledge of management functions like planning, scheduling, executing & controlling the construction projects**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	2
3- Moderately	14	8
4- Mostly	50	27
5- Definitely	115	63
Total	162	100



**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	1	1
2- Hardly	1	1
3- Moderately	13	7
4- Mostly	58	31
5- Definitely	111	61
Total	182	100





**Department of Civil Engineering**

**Academic Year: 2022-23 (Even)**

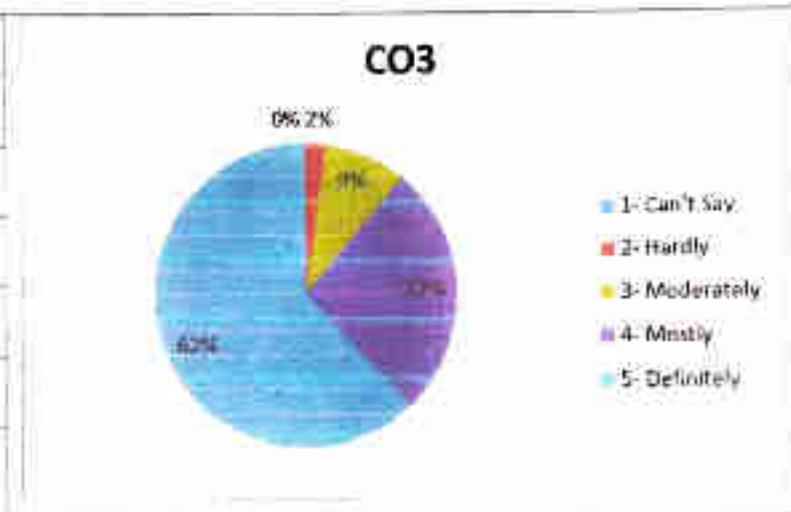
**Course Exit Analysis Report (SEM VIII)**

**Subject – Construction Management TUTORIAL**

**Subject Teacher - Prof. Molly Mathew / Shanthi Selvam / Sanjay Singh**

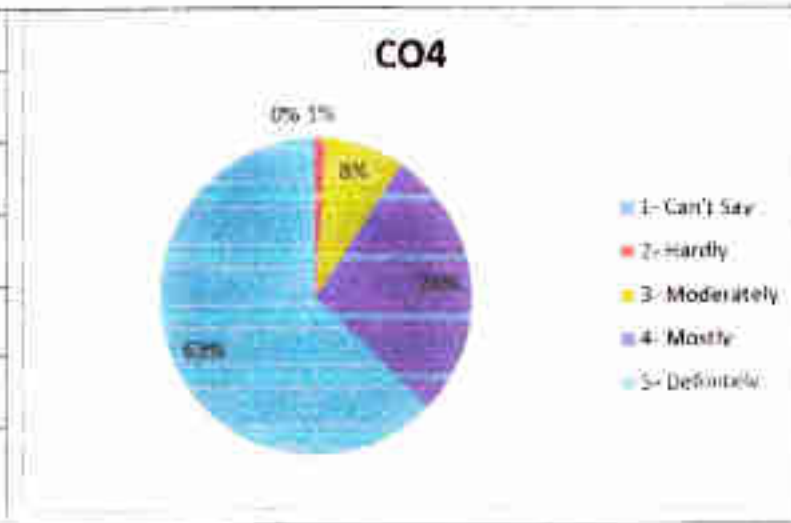
**CO3: Construct feasible project schedule by using scheduling techniques like CPM and PERT and evaluate the critical path in the network.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	4	2
3- Moderately	16	9
4- Mostly	49	27
5- Definitely	113	62
Total	182	100



**CO4: Evaluate the daily resource requirement and interpret the best possible schedule from different combinations.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	15	8
4- Mostly	51	28
5- Definitely	114	63
Total	182	100







Department of Civil Engineering

Academic Year: 2022-23 (Even)

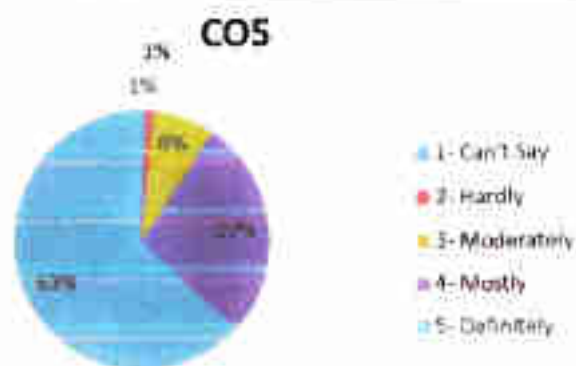
Course Exit Analysis Report (SEM VIII)

Subject – Construction Management TUTORIAL

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

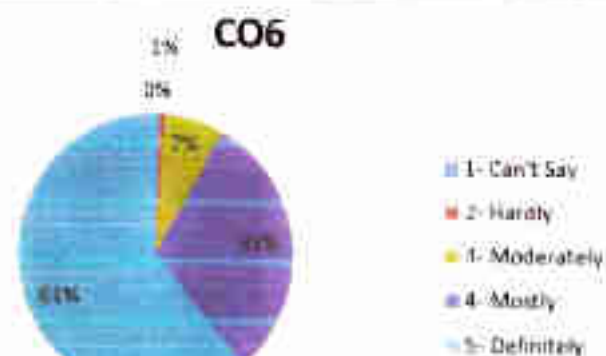
CO5: Analyze the given network and determine an optimum time cost optimization curve

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	2	1
3- Moderately	14	8
4- Mostly	50	27
5- Definitely	115	63
Total	182	100



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	1	1
2- Hardly	1	1
3- Moderately	13	7
4- Mostly	56	31
5- Definitely	111	61
Total	182	100



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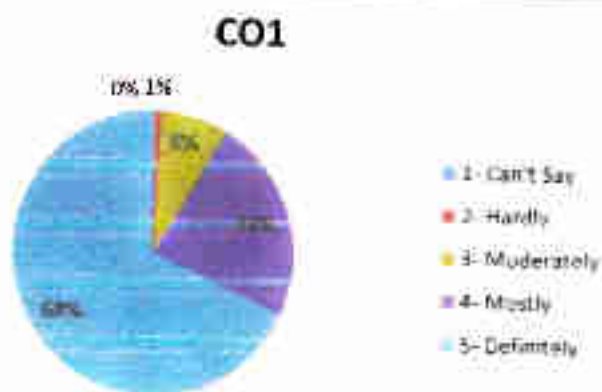


Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Industrial Water Treatment

Subject Teacher - Prof. Dr. Saumya Singh / Amrita Lakhotte

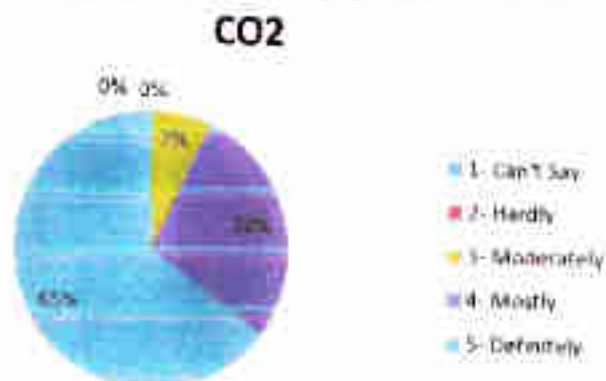
CO1: Explain the impact of industrial wastewater characteristics on natural streams.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	10	8
4- Mostly	30	23
5- Definitely	88	68
Total	129	100



CO2: Analyze various stream protection measures to protect the natural streams.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	9	7
4- Mostly	36	28
5- Definitely	84	65
Total	129	100





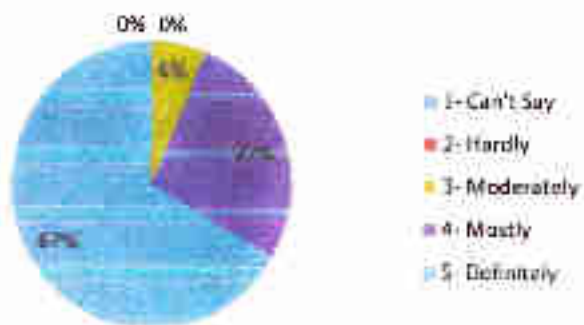
**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject – Industrial Water Treatment**

**Subject Teacher - Prof. Dr. Saumya Singh / Amrita Lakhote**

**CO3: Summarize waste minimization techniques for industrial wastewater**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	8	6
4- Mostly	35	27
5- Definitely	88	67
Total	129	100

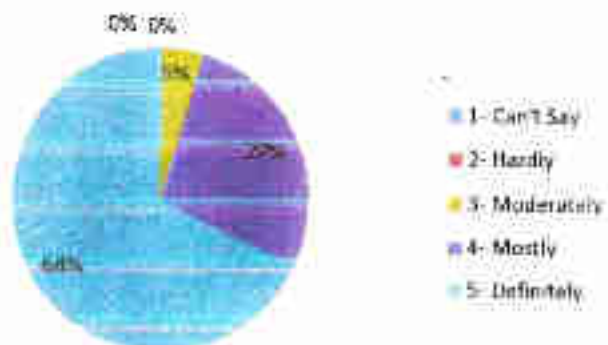
**CO3**



**CO4: Relate biological treatment concept and summarize various treatments along with advance technologies.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	6	5
4- Mostly	35	27
5- Definitely	88	68
Total	129	100

**CO4**



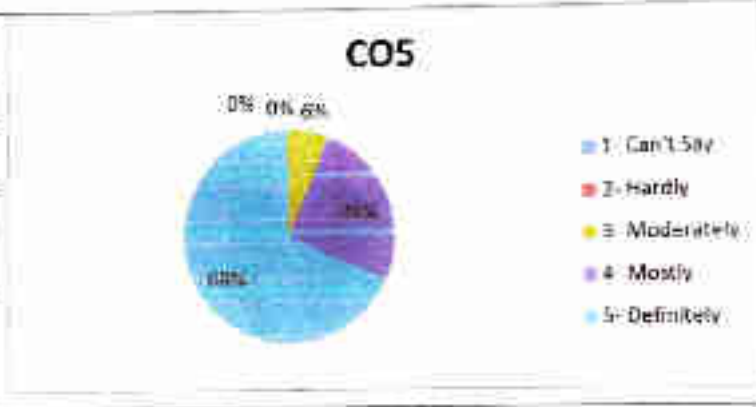


Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Industrial Water Treatment

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

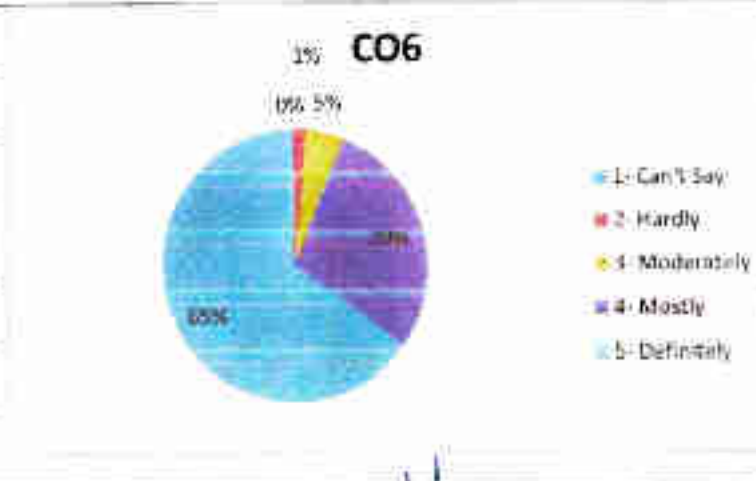
CO5: Relate biological treatment concept and summarize various treatments along with advance technologies.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	6	6
4- Mostly	33	26
5- Definitely	88	68
Total	129	100



CO6: Evaluate legislative framework for the remediation of industrial wastewater through environmental audit, environmental impact assessment and common effluent treatment plant.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	2
3- Moderately	8	5
4- Mostly	37	29
5- Definitely	84	65
Total	129	100



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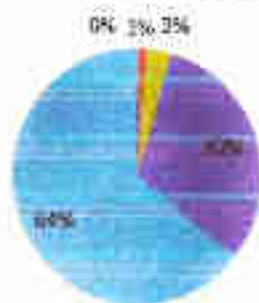


**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject – Construction Safety**  
**Subject Teacher – Dr. Raji S.**

**CO1: Apply safety mechanisms and concepts for improving overall safety of construction sites.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	4	8
4- Mostly	16	30
5- Definitely	33	62
Total	53	100

**CO1**

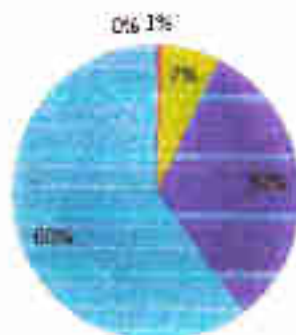


- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

**CO2: Explain the various safety requirements.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	6
4- Mostly	17	32
5- Definitely	33	62
Total	53	100

**CO2**



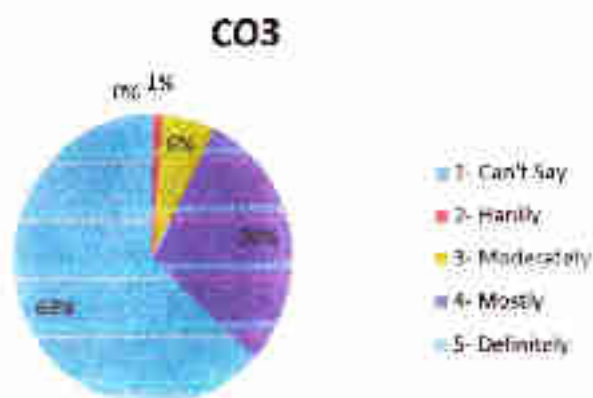
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



**Department of Civil Engineering**  
**Academic Year: 2022-23 (Even)**  
**Course Exit Analysis Report (SEM VIII)**  
**Subject – Construction Safety**  
**Subject Teacher – Dr. Raji S.**

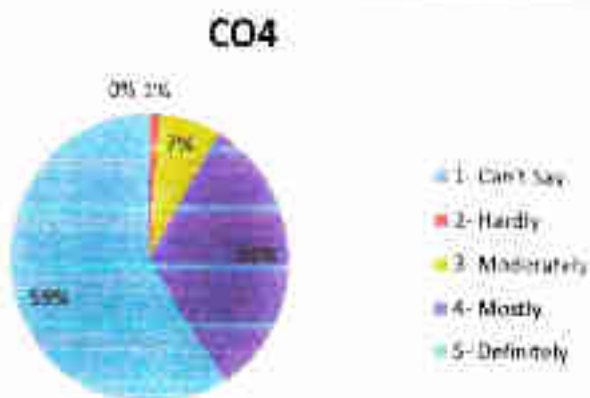
**CO3: Explain the various techniques to prevent accidents.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	4	8
4- Mostly	16	30
5- Definitely	33	62
Total	53	100



**CO4: Examine construction safety management.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	6
4- Mostly	13	25
5- Definitely	37	70
Total	53	100

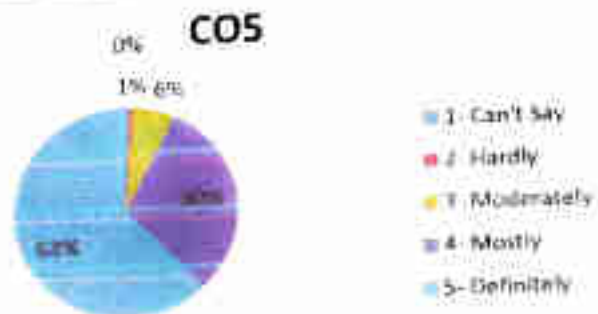




Department of Civil Engineering  
Academic Year: 2022-23 (Even)  
Course Exit Analysis Report (SEM VIII)  
Subject – Construction Safety  
Subject Teacher – Dr. Raji S.

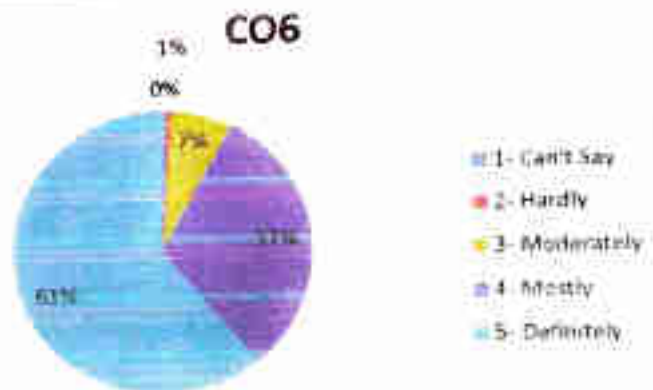
CO5: Analyze safety policies, methods and training on construction sites.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	6
4- Mostly	16	38
5- Definitely	31	58
Total	53	100



CO6: Apply safety in construction operations.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	6
4- Mostly	13	25
5- Definitely	37	70
Total	53	100



  
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**Course Exit Report Analysis (SEM-VI)**

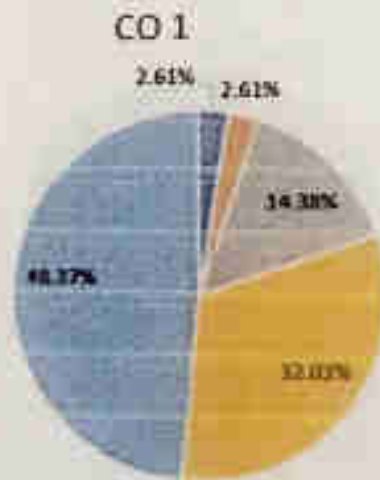
**Subject – Design and Drawing of Steel Structure (Theory)**

**Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ 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	4	2.61
2- Hardly	4	2.61
3- Moderately	22	14.38
4- Mostly	49	32.03
5- Definitely	74	48.37
<b>Total</b>	<b>153</b>	<b>100</b>

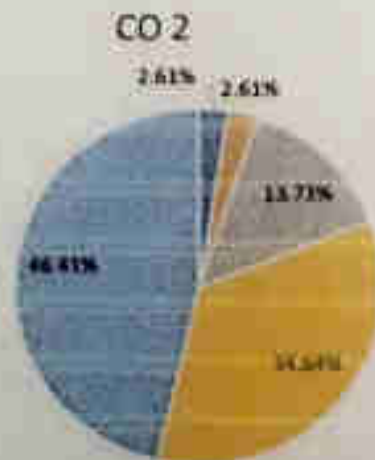
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Categorize and design steel structural connections (bolted and welded)**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	4	2.61
3- Moderately	21	13.73
4- Mostly	53	34.64
5- Definitely	71	46.41
<b>Total</b>	<b>153</b>	<b>100</b>

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







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**Course Exit Report Analysis (SEM-VI)**

**Subject – Design and Drawing of Steel Structure (Theory)**

**Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ 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	4	2.61
2- Hardly	3	1.96
3- Moderately	26	16.99
4- Mostly	54	35.29
5- Definitely	66	43.14
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 3**

**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	4	2.61
2- Hardly	4	2.61
3- Moderately	21	13.73
4- Mostly	55	35.95
5- Definitely	69	45.10
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 4**



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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VI)

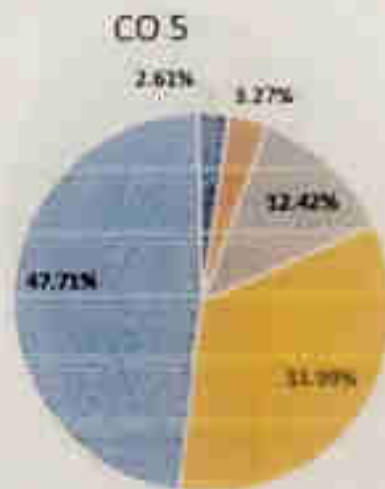
Subject – Design and Drawing of Steel Structure (Theory)

Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ Prof. Roshni John

**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	4	2.61
2- Hardly	5	3.27
3- Moderately	19	12.42
4- Mostly	52	33.99
5- Definitely	73	47.71
Total	153	100

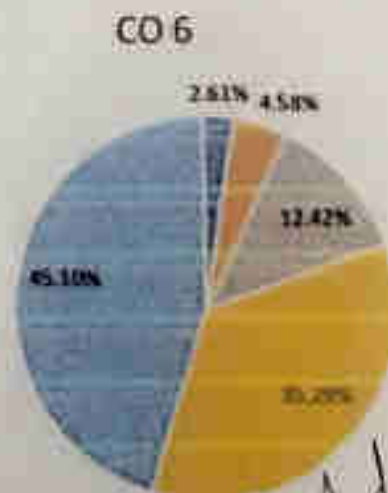
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**CO.6. Design and sketch the structural details of roof truss and steel roof truss.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	7	4.58
3- Moderately	19	12.42
4- Mostly	54	35.29
5- Definitely	69	45.10
Total	153	100

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



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**Academic Year : 2022-2023**

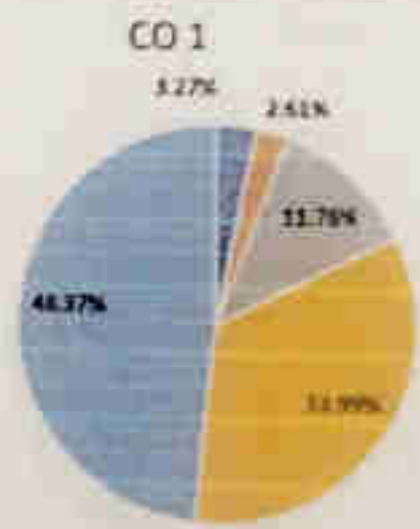
**Course Exit Report Analysis (SEM-VI)**

**Subject – Geotechnical Engineering-II (Theory)**

**Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai**

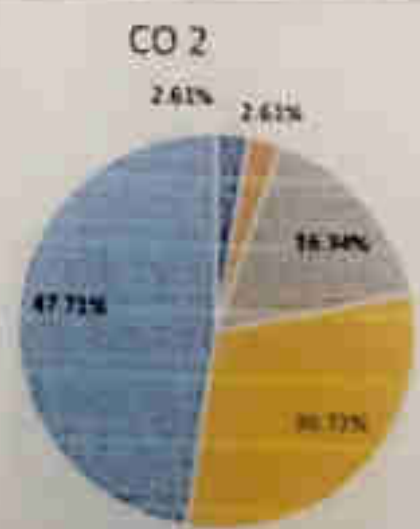
CO.1. Appraise the consolidation parameters for the soil		
Score	No. of students	Percentage (%)
1- Can't Say	5	3.27
2- Hardly	4	2.61
3- Moderately	18	11.76
4- Mostly	52	33.99
5- Definitely	74	48.37
<b>Total</b>	<b>153</b>	<b>100</b>

- = 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	4	2.61
2- Hardly	4	2.61
3- Moderately	25	16.34
4- Mostly	47	30.72
5- Definitely	73	47.71
<b>Total</b>	<b>153</b>	<b>100</b>

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





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Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VI)

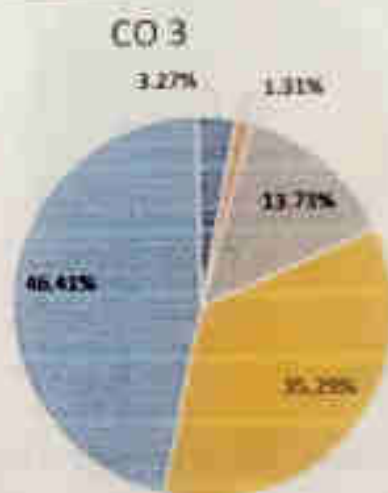
Subject – Geotechnical Engineering-II (Theory)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

**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	5	3.27
2- Hardly	2	1.31
3- Moderately	21	13.73
4- Mostly	54	35.29
5- Definitely	71	46.41
Total	153	100

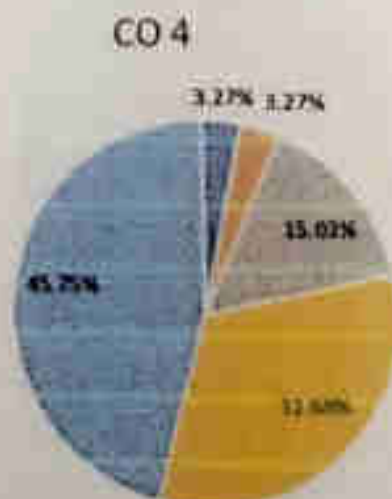
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	5	3.27
2- Hardly	5	3.27
3- Moderately	23	15.03
4- Mostly	50	32.68
5- Definitely	70	45.75
Total	153	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

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.**

Score	No. of students	Percentage (%)
1- Can't Say	6	3.92
2- Hardly	3	1.96
3- Moderately	25	16.34
4- Mostly	48	31.37
5- Definitely	71	46.41
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 5**

**CO.6. Determine the load bearing capacity of individual as well as group of pile foundations and their settlement using theoretical and field Method.**

Score	No. of students	Percentage (%)
1- Can't Say	6	3.92
2- Hardly	5	3.27
3- Moderately	26	16.99
4- Mostly	51	33.33
5- Definitely	65	42.48
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 6**

HOD  
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 Kharajpur Main Phonda - 410 210

**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

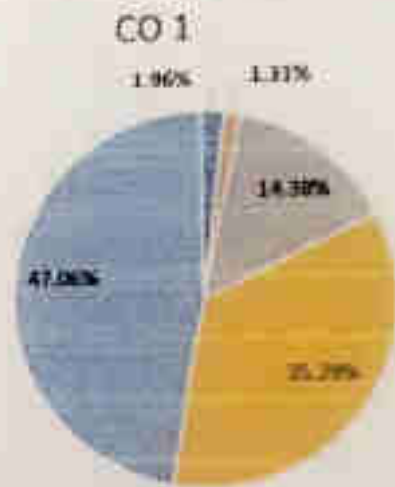
**Subject – Water Resources Engineering (Theory)**

**Subject Teacher – Prof. Hemant Sarje/ Prof. Rachel Gitty**

**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	3	1.96
2- Hardly	2	1.31
3- Moderately	22	14.38
4- Mostly	54	35.29
5- Definitely	72	47.06
<b>Total</b>	<b>153</b>	<b>100</b>

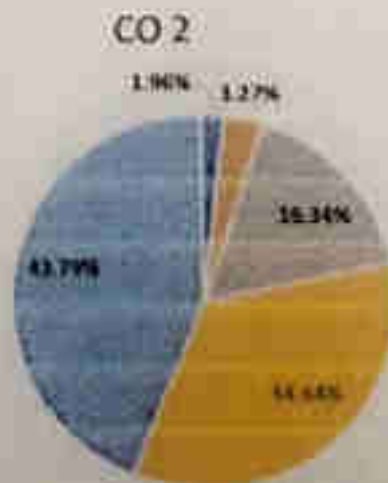
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	3	1.96
2- Hardly	5	3.27
3- Moderately	25	16.34
4- Mostly	53	34.64
5- Definitely	67	43.79
<b>Total</b>	<b>153</b>	<b>100</b>

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





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Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VI)

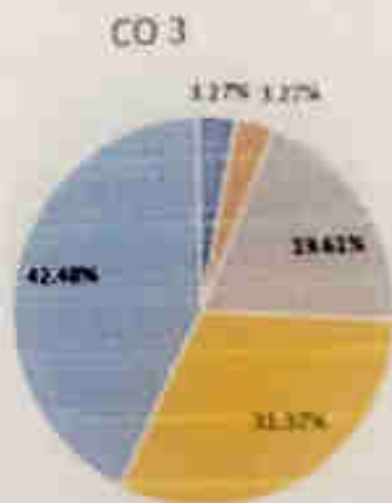
Subject – Water Resources Engineering (Theory)

Subject Teacher – Prof. Hemant Sarje/ Prof. Rachel Gitty

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	5	3.27
2- Hardly	5	3.27
3- Moderately	30	19.61
4- Mostly	48	31.37
5- Definitely	65	42.48
Total	153	100

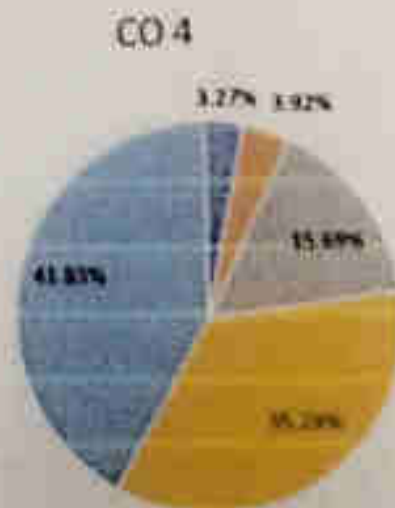
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



CO-4. Analyze and design gravity dams and earthen dams with spillways for sustainable development.

Score	No. of students	Percentage (%)
1- Can't Say	5	3.27
2- Hardly	6	3.92
3- Moderately	24	15.69
4- Mostly	54	35.29
5- Definitely	64	41.83
Total	153	100

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





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Course Exit Report Analysis (SEM-VI)

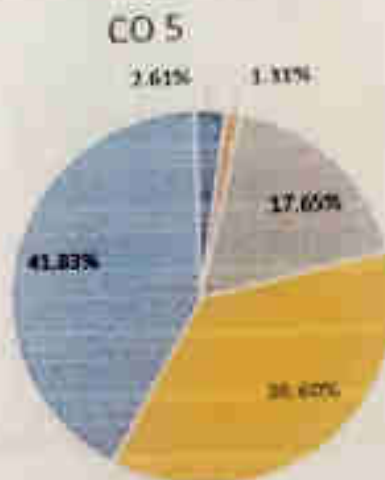
Subject – Water Resources Engineering (Theory)

Subject Teacher – Prof. Hemant Sarje/ 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	4	2.61
2- Hardly	2	1.31
3- Moderately	27	17.65
4- Mostly	56	36.60
5- Definitely	64	41.83
Total	153	100

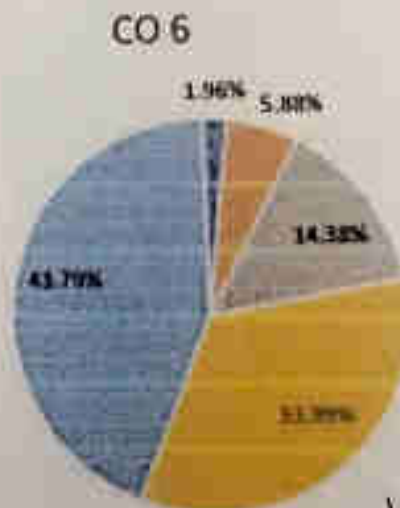
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	3	1.96
2- Hardly	9	5.88
3- Moderately	22	14.38
4- Mostly	52	33.99
5- Definitely	67	43.79
Total	153	100

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



11/11

Principal





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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

**Subject – Environmental Engineering (Theory)**

**Subject Teacher – Dr. Raji.S/ Dr. Saumya Singh**

**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	2	1.31
2- Hardly	3	1.96
3- Moderately	13	8.50
4- Mostly	38	23.53
5- Definitely	89	64.71
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 1**

**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	1	0.65
2- Hardly	4	2.61
3- Moderately	15	9.80
4- Mostly	42	27.45
5- Definitely	91	59.48
<b>Total</b>	<b>153</b>	<b>100</b>

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

**CO 2**



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**Course Exit Report Analysis (SEM-VI)**

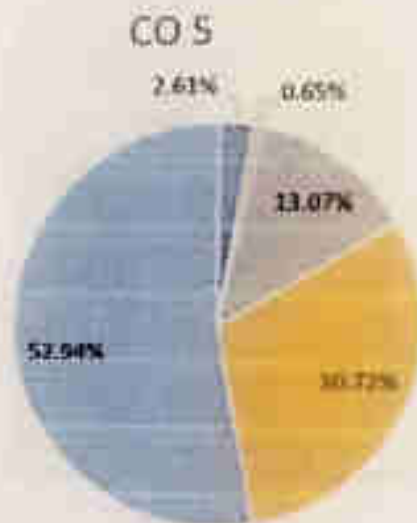
**Subject – Environmental Engineering (Theory)**

**Subject Teacher – Dr. Raji.S/ 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	4	2.61
2- Hardly	1	0.65
3- Moderately	20	13.07
4- Mostly	47	30.72
5- Definitely	81	52.94
Total	153	100

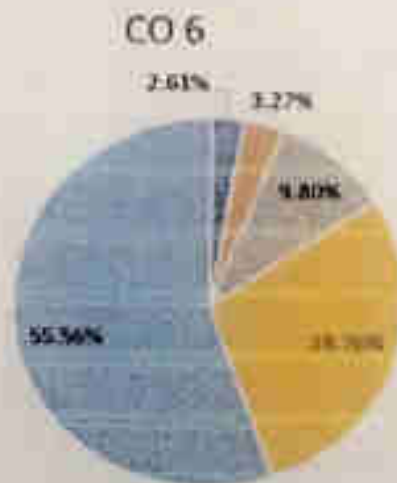
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.6. Understand air pollution, noise pollution and functional elements of solid waste management.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	6	3.27
3- Moderately	15	9.80
4- Mostly	44	28.76
5- Definitely	85	55.56
Total	153	100

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

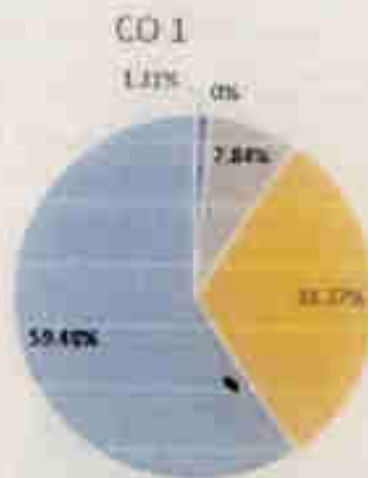




CO.1. Summarize the use and application of various conventional construction equipment's in different construction projects.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	0	0
3- Moderately	12	7.84
4- Mostly	48	31.37
5- Definitely	91	59.48
Total	153	100

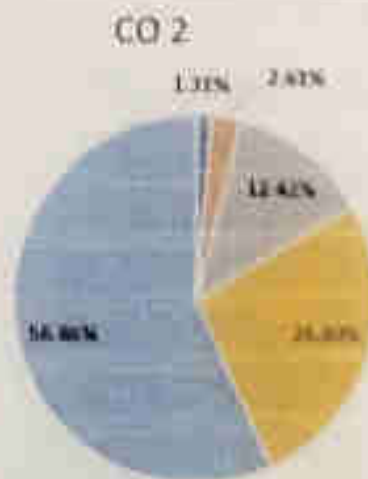
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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	2	1.31
2- Hardly	4	2.61
3- Moderately	19	12.42
4- Mostly	41	26.80
5- Definitely	87	56.86
Total	153	100

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





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**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

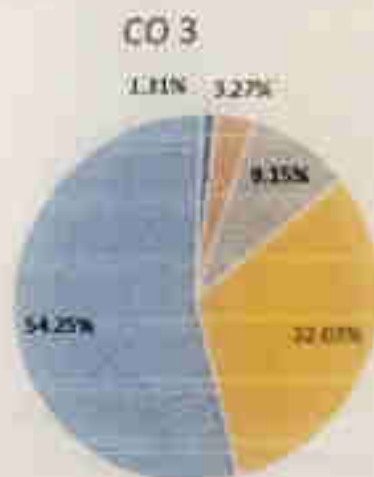
**Subject – Construction Equipment and Techniques**

**Subject Teacher – Prof. Chaitali Isal/ Prof. Pramod Sutar**

**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	2	1.31
2- Hardly	5	3.27
3- Moderately	14	9.15
4- Mostly	48	32.03
5- Definitely	83	54.25
Total	153	100

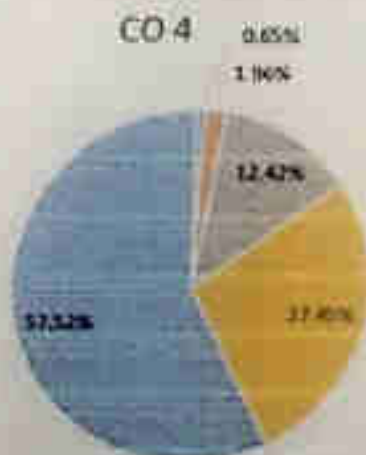
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**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	0.65
2- Hardly	3	1.96
3- Moderately	19	12.42
4- Mostly	42	27.46
5- Definitely	88	57.52
Total	153	100

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





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Department of Civil Engineering

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Course Exit Report Analysis (SEM-VI)

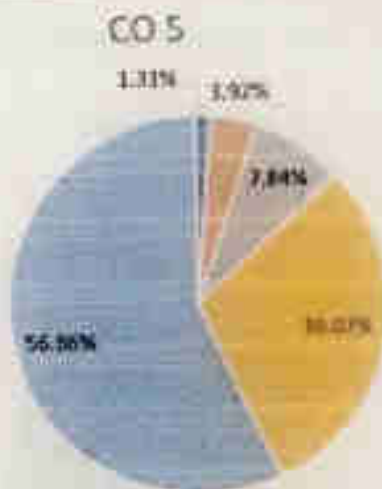
Subject – Construction Equipment and Techniques

Subject Teacher – Prof. Chaitali Isal/ Prof. Pramod Sutar

**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	2	1.31
2- Hardly	6	3.92
3- Moderately	12	7.84
4- Mostly	45	30.07
5- Definitely	87	56.86
Total	153	100

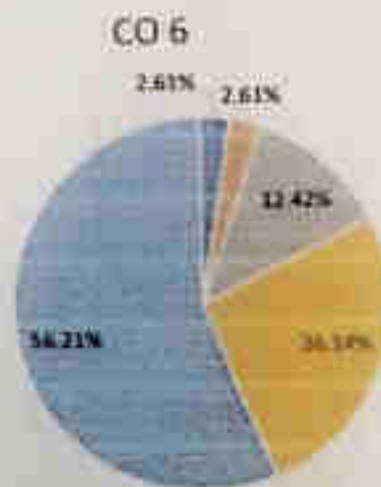
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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 location.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	4	2.61
3- Moderately	19	12.42
4- Mostly	40	26.14
5- Definitely	86	56.21
Total	153	100

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



  
**HOD**  
 Civil Dept.

  
**Principal**  
 SCOE



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Khadgaon, Near Phantna - 410 210

**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

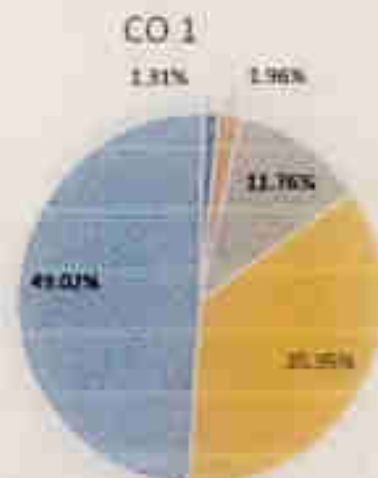
**Subject – Design and Drawing of Steel Structure (Lab)**

**Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ Prof. Roshni John**

**CO.1. Calculate dead, live and wind loads on the structure.**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	3	1.96
3- Moderately	18	11.76
4- Mostly	55	35.95
5- Definitely	75	49.02
Total	153	100

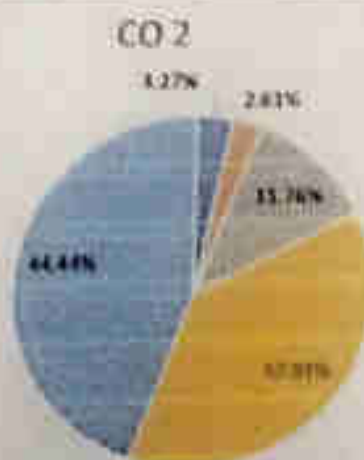
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**CO.2. Analyze the structure by analytical/graphical method.**

Score	No. of students	Percentage (%)
1- Can't Say	5	3.27
2- Hardly	4	2.61
3- Moderately	18	11.76
4- Mostly	58	37.91
5- Definitely	68	44.44
Total	153	100

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





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Course Exit Report Analysis (SEM-VI)

Subject – Design and Drawing of Steel Structure (Lab)

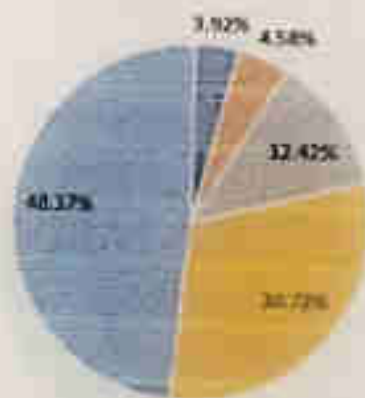
Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ Prof. Roshni John

**3. Use steel table for selecting appropriate section.**

Score	No. of students	Percentage (%)
1- Can't Say	6	3.92
2- Hardly	7	4.58
3- Moderately	19	12.42
4- Mostly	47	30.72
5- Definitely	74	48.37
Total	153	100

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

CO 3

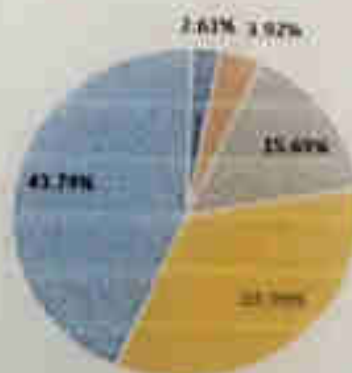


**CO 4. Design the members for various load combinations.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	6	3.92
3- Moderately	24	15.69
4- Mostly	52	33.99
5- Definitely	57	43.79
Total	153	100

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

CO 4





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**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

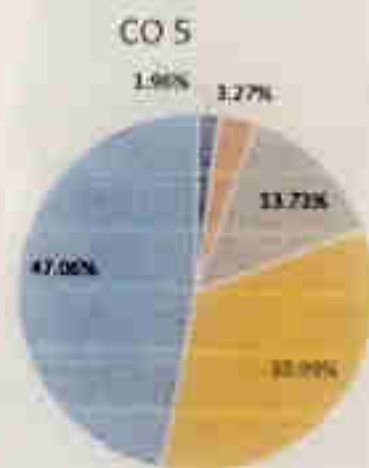
**Subject – Design and Drawing of Steel Structure (Lab)**

**Subject Teacher – Prof. Shweta Motharkar/ Prof. Ashwini Bodkhe/ Prof. Roshni John**

**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	1.96
2- Hardly	5	3.27
3- Moderately	21	13.73
4- Mostly	52	33.99
5- Definitely	72	47.06
Total	153	100

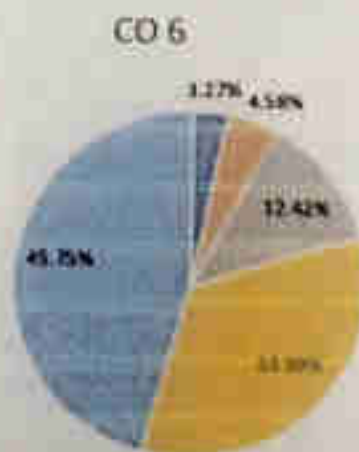
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO 6. Read and Prepare the detailed fabrication drawing and design report.**

Score	No. of students	Percentage (%)
1- Can't Say	5	3.27
2- Hardly	7	4.58
3- Moderately	19	12.42
4- Mostly	52	33.99
5- Definitely	70	45.75
Total	153	100

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







Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VI)

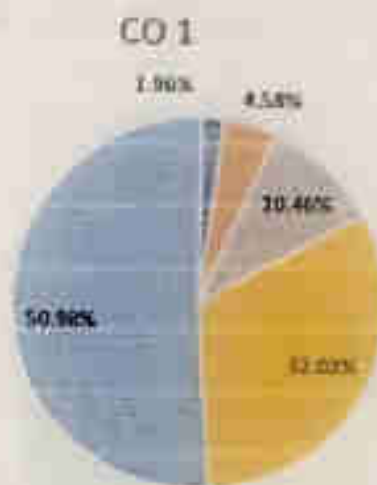
Subject – Geotechnical Engineering- II (Lab)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

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	1.96
2- Hardly	7	4.58
3- Moderately	16	10.46
4- Mostly	49	32.03
5- Definitely	78	50.98
Total	153	100

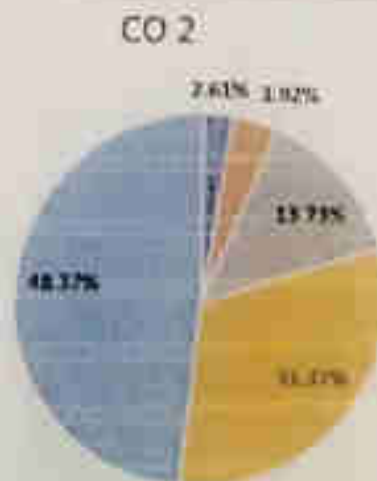
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Analyze the cohesion and angle of shearing resistance for various soil types.

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	6	3.92
3- Moderately	21	13.73
4- Mostly	48	31.37
5- Definitely	74	48.37
Total	153	100

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





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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VI)

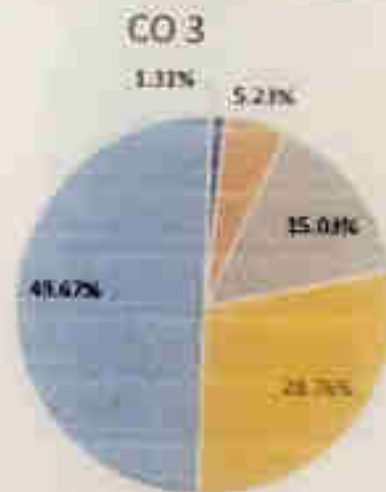
Subject – Geotechnical Engineering- II (Lab)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

CO.3. Summarize the CBR value of soil for pavement design.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	8	5.23
3- Moderately	23	15.03
4- Mostly	44	28.76
5- Definitely	76	49.67
Total	153	100

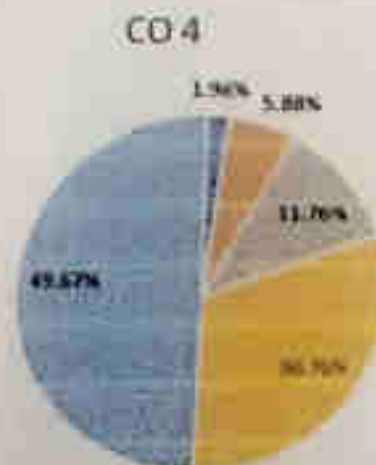
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Evaluate the swelling pressure of soil.

Score	No. of students	Percentage (%)
1- Can't Say	3	1.96
2- Hardly	9	5.88
3- Moderately	18	11.76
4- Mostly	47	30.72
5- Definitely	76	49.67
Total	153	100

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





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Course Exit Report Analysis (SEM-VI)

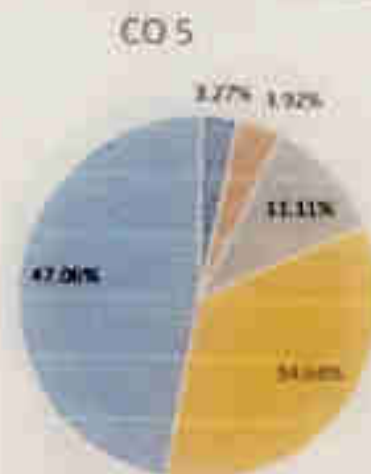
Subject – Geotechnical Engineering- II (Lab)

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai

**CO.5. Formulate the concept of stress distribution in soils due to vertically applied load.**

Score	No. of students	Percentage (%)
1- Can't Say	5	3.27
2- Hardly	8	5.02
3- Moderately	17	11.11
4- Mostly	53	34.64
5- Definitely	72	47.06
Total	153	100

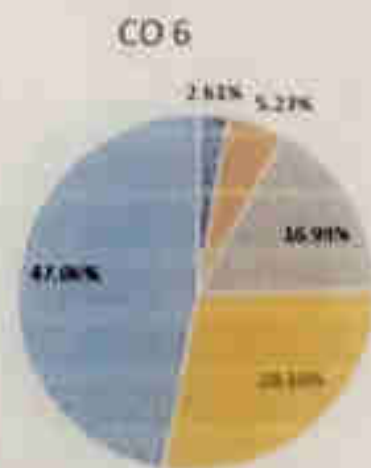
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**CO.6. Solve design problems using geotechnical software.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.61
2- Hardly	8	5.23
3- Moderately	26	16.99
4- Mostly	43	28.10
5- Definitely	72	47.06
Total	153	100

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



HOD  
Civil Dept.

Principal  
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Course Exit Report Analysis (SEM-VI)

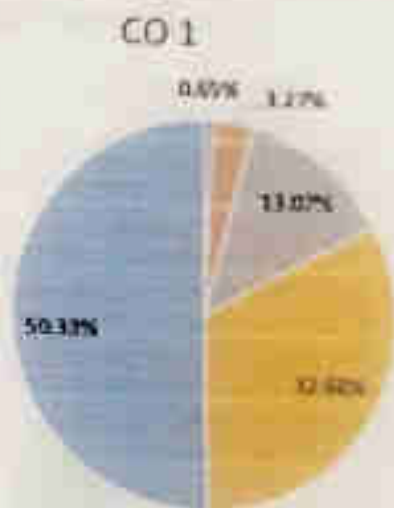
Subject – Water Resource Engineering (Lab)

Subject Teacher – Prof. Hemant Sarje/ 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	1	0.65
2- Hardly	5	3.27
3- Moderately	20	13.07
4- Mostly	50	32.68
5- Definitely	77	50.33
Total	153	100

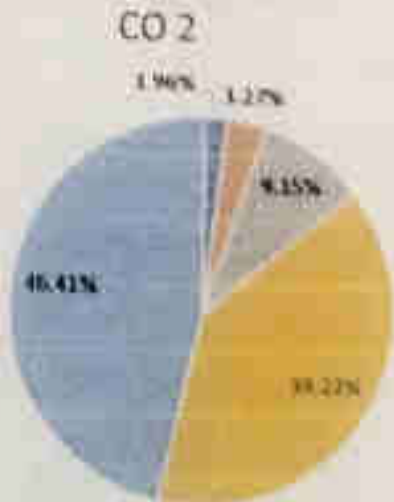
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Conclude in detail about hydrological process and interpret plotting of hydrographs.**

Score	No. of students	Percentage (%)
1- Can't Say	3	1.96
2- Hardly	5	3.27
3- Moderately	14	9.15
4- Mostly	60	39.22
5- Definitely	71	46.41
Total	153	100

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





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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

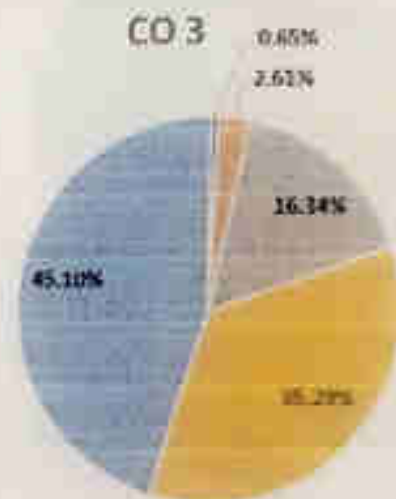
**Subject – Water Resource Engineering (Lab)**

**Subject Teacher – Prof. Hemant Sarje/ Prof. Rachel Gitty**

**CO.3. Apply their knowledge on well hydraulics and compute discharge from an aquifer.**

Score	No. of students	Percentage (%)
1- Can't Say	1	0.65
2- Hardly	4	2.61
3- Moderately	25	16.34
4- Mostly	54	35.29
5- Definitely	69	45.10
Total	153	100

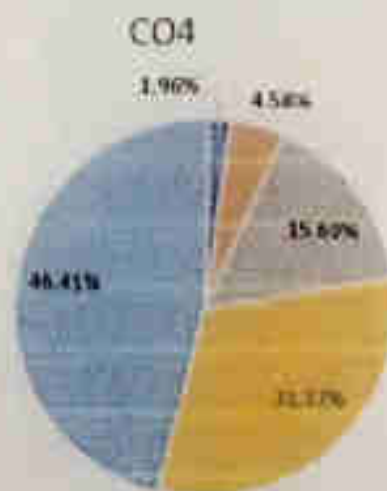
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	3	1.96
2- Hardly	7	4.58
3- Moderately	24	15.69
4- Mostly	48	31.37
5- Definitely	71	46.41
Total	153	100

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





**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VI)**

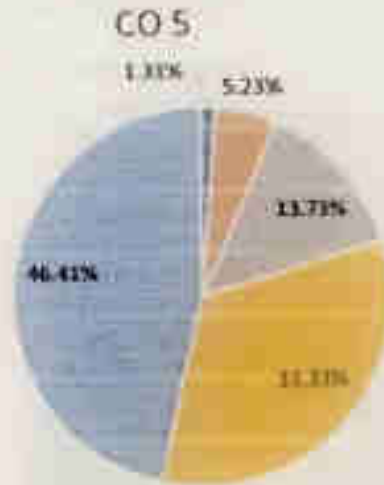
**Subject – Water Resource Engineering (Lab)**

**Subject Teacher – Prof. Hemant Sarje/ 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	2	1.31
2- Hardly	8	5.23
3- Moderately	21	13.73
4- Mostly	51	33.33
5- Defintely	71	46.41
Total	153	100

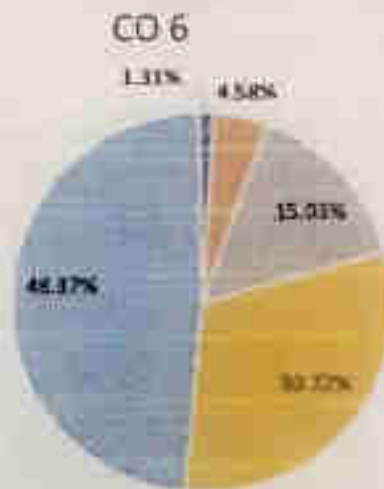
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Defintely



**CO.6. Determine and Illustrate different canal head works - its distribution system and canal Structures.**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	7	4.58
3- Moderately	23	15.03
4- Mostly	47	30.72
5- Defintely	74	48.37
Total	153	100

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



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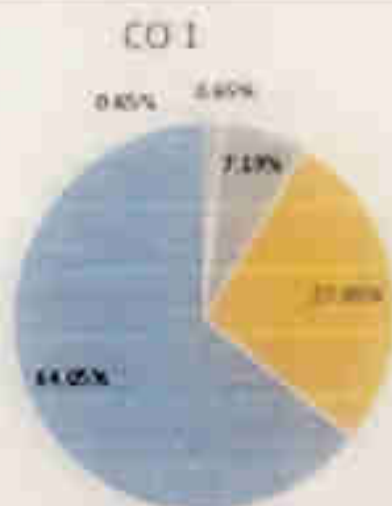
Subject - Environmental Engineering (LAB)

Subject Teacher - Dr. Rajis/ Dr. Saumya Singh

CO-1. Impart the knowledge on quality or characteristic of water and wastewater sample.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.65
2- Hardly	1	0.65
3- Moderately	11	7.18
4- Mostly	42	27.45
5- Definitely	98	64.05
Total	153	100

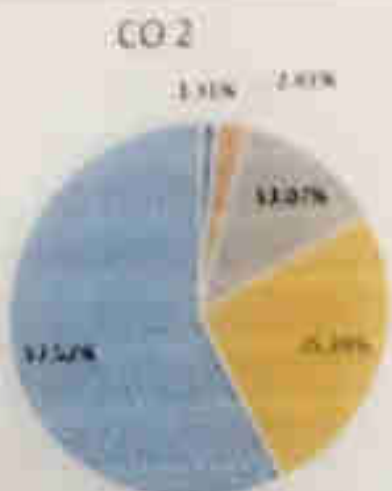
- + 1. Can't Say
- + 2. Hardly
- + 3. Moderately
- + 4. Mostly
- + 5. Definitely



CO-2. Interpret the required treatment for water and wastewater based on standards and norms.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	4	2.61
3- Moderately	20	13.07
4- Mostly	39	25.49
5- Definitely	88	57.52
Total	153	100

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





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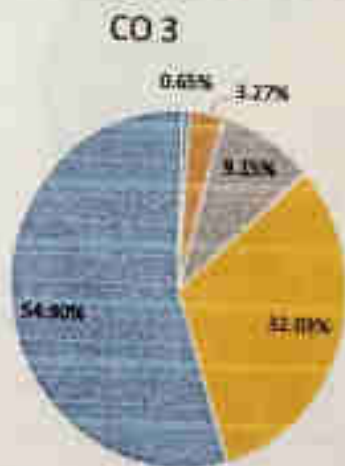
Subject - Environmental Engineering (LAB)

Subject Teacher - Dr. Raji.S/ 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	0.65
2- Hardly	5	3.27
3- Moderately	14	9.15
4- Mostly	49	32.03
5- Definitely	84	54.90
Total	153	100

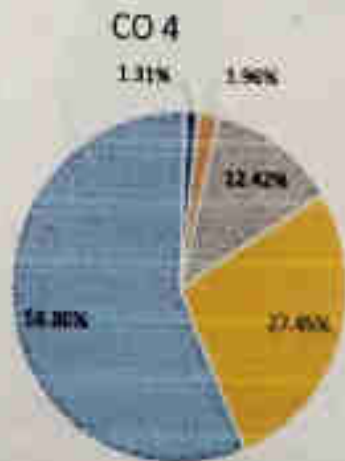
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.4. Impart the knowledge on quality of solid waste**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	3	1.96
3- Moderately	19	12.42
4- Mostly	42	27.45
5- Definitely	87	56.86
Total	153	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)

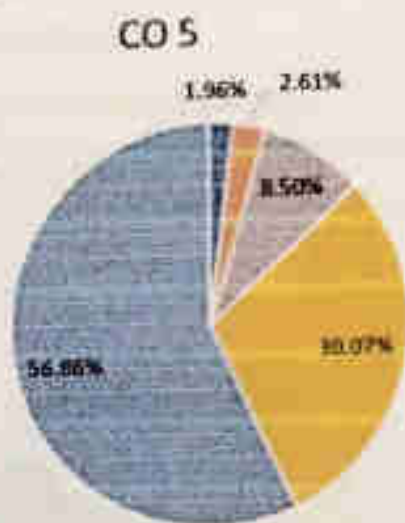
Subject – Environmental Engineering (LAB)

Subject Teacher – Dr. Raji.S/ 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	3	1.96
2- Hardly	4	2.61
3- Moderately	13	8.50
4- Mostly	46	30.07
5- Definitely	87	56.86
Total	153	100

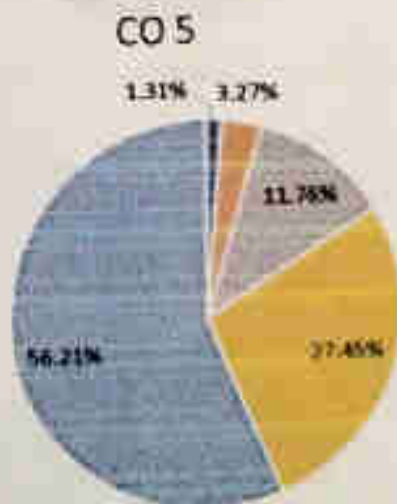
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




CO.6. Inspect the levels of noise and interpret the results

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	5	3.27
3- Moderately	18	11.76
4- Mostly	42	27.45
5- Definitely	86	56.21
Total	153	100

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



  
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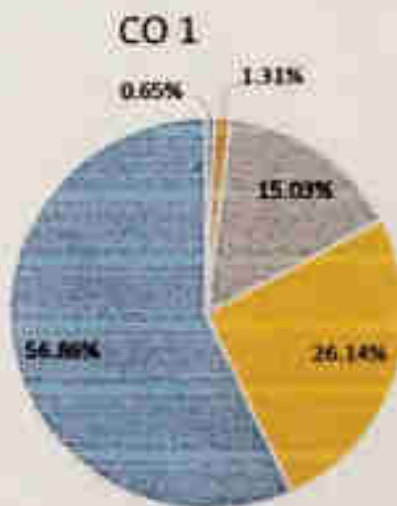
**Subject – Skill Based Lab Course - III**

**Subject Teacher – Prof. Manoj Pillai/ Prof. Ashwini Bodkhe**

**CO.1. Explain the importance, needs, advantages and limitations of software.**

Score	No. of students	Percentage (%)
1- Can't Say	1	0.65
2- Hardly	2	1.31
3- Moderately	23	15.03
4- Mostly	40	26.14
5- Definitely	87	56.86
Total	153	100

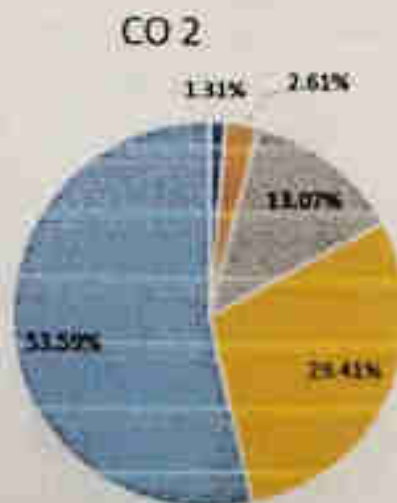
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Classify different types of software available in Civil Engineering.**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	4	2.61
3- Moderately	20	13.07
4- Mostly	45	29.41
5- Definitely	82	53.58
Total	153	100

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





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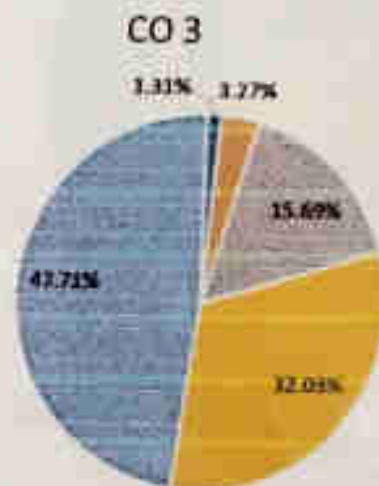
Subject – Skill Based Lab Course - III

Subject Teacher – Prof. Manoj Pillai/ Prof. Ashwini Bodkhe

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	5	3.27
3- Moderately	24	15.69
4- Mostly	49	32.03
5- Definitely	73	47.71
Total	153	100

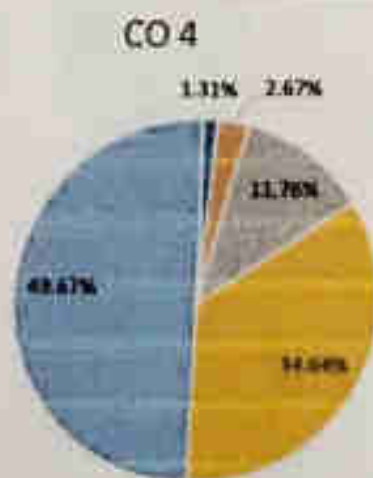
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	2	1.31
2- Hardly	4	2.61
3- Moderately	18	11.76
4- Mostly	53	34.64
5- Definitely	78	49.67
Total	153	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)**

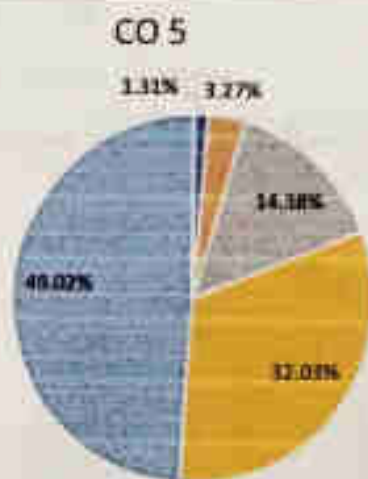
**Subject – Skill Based Lab Course - III**

**Subject Teacher – Prof. Manoj Pillai/ Prof. Ashwini Bodkhe**

**CO.5. Organize an executive summary of the report based on whole work.**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	5	3.27
3- Moderately	22	14.38
4- Mostly	49	32.03
5- Definitely	75	49.02
<b>Total</b>	<b>153</b>	<b>100</b>

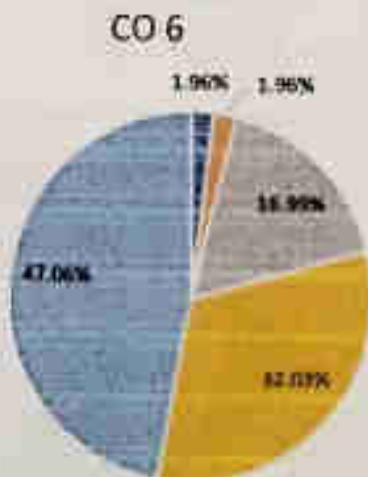
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.6. Build their communication skill as well as teamwork qualities.**

Score	No. of students	Percentage (%)
1- Can't Say	3	1.96
2- Hardly	3	1.96
3- Moderately	26	16.99
4- Mostly	49	32.03
5- Definitely	72	47.06
<b>Total</b>	<b>153</b>	<b>100</b>

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



  
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Course Exit Report Analysis (SEM-VI)

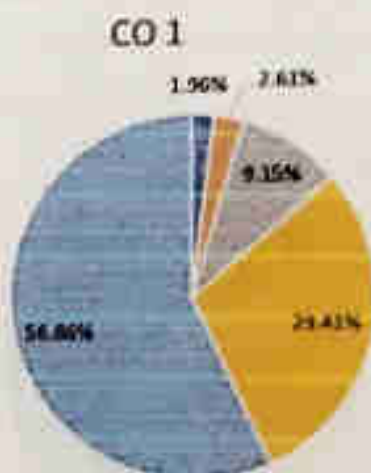
Subject – Mini Project- 2B

Subject Teacher – Prof. Yugandhara Kasture

**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	1.96
2- Hardly	4	2.61
3- Moderately	14	9.15
4- Mostly	45	29.41
5- Definitely	87	56.85
Total	153	100

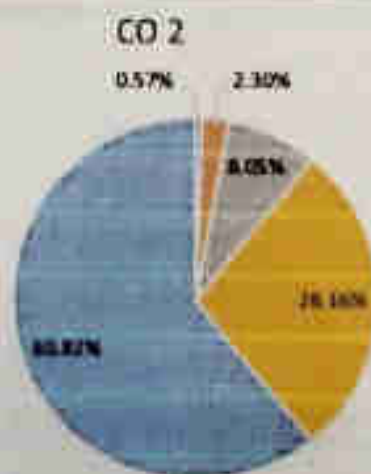
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Examine the plasticity characteristics of soil**

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	4	2.30
3- Moderately	14	8.05
4- Mostly	49	28.16
5- Definitely	106	60.92
Total	174	100

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





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Course Exit Report Analysis (SEM-VI)

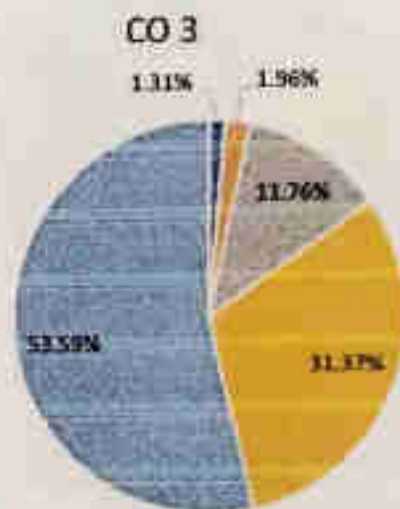
Subject – Mini Project- 2B

Subject Teacher – Prof. Yugandhara Kasture

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	2	1.31
2- Hardly	3	1.95
3- Moderately	18	11.76
4- Mostly	48	31.37
5- Definitely	82	53.59
Total	153	100

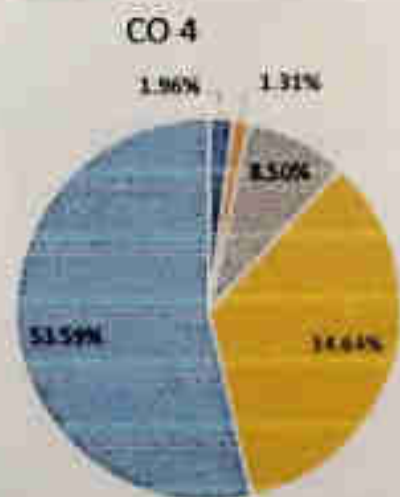
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	3	1.96
2- Hardly	2	1.31
3- Moderately	13	8.50
4- Mostly	53	34.64
5- Definitely	82	53.59
Total	153	100

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





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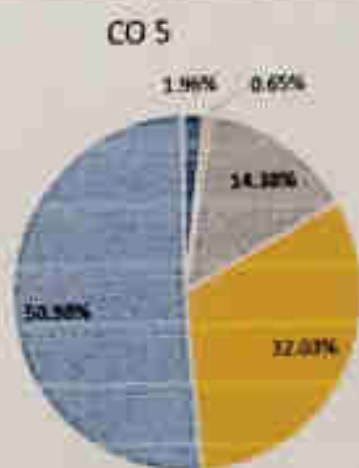
**Subject – Mini Project- 2B**

**Subject Teacher – Prof. Yugandhara Kasture**

**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	3	1.96
2- Hardly	1	0.65
3- Moderately	22	14.38
4- Mostly	49	32.03
5- Definitely	78	50.98
Total	153	100

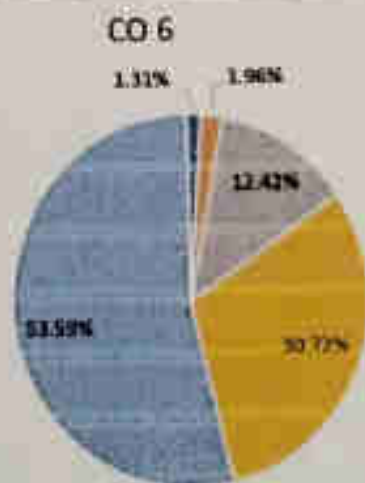
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.31
2- Hardly	3	1.96
3- Moderately	19	12.42
4- Mostly	47	30.72
5- Definitely	82	53.59
Total	153	100

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



  
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Course Exit Report Analysis (SEM-IV)

Subject – Engineering Mathematics-IV

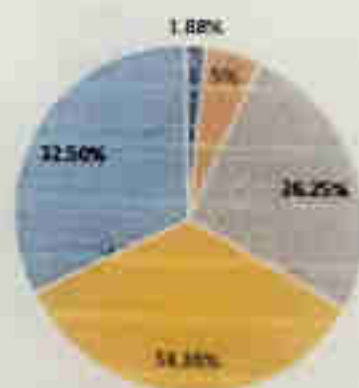
Subject Teacher – Prof. Madhukar Andhale

**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	3	1.88
2- Hardly	8	5
3- Moderately	42	26.25
4- Mostly	55	34.38
5- Definitely	52	32.50
Total	160	100

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

CO 1

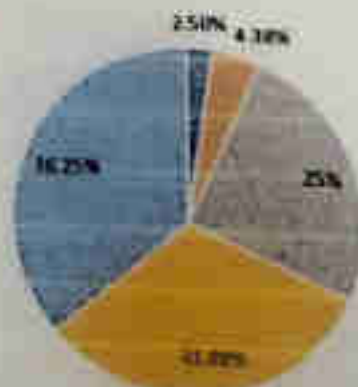


**CO.2 Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.**

Score	No. of students	Percentage (%)
1- Can't Say	4	2.50
2- Hardly	7	4.38
3- Moderately	40	25
4- Mostly	51	31.88
5- Definitely	58	36.25
Total	160	100

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

CO 2







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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	2	1.25
2- Hardly	6	3.75
3- Moderately	33	20.63
4- Mostly	56	35
5- Definitely	63	39.38
Total	160	100

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

**CO 3**

**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	0.63
2- Hardly	7	4.38
3- Moderately	41	25.63
4- Mostly	47	29.38
5- Definitely	64	40
Total	160	100

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

**CO 4**



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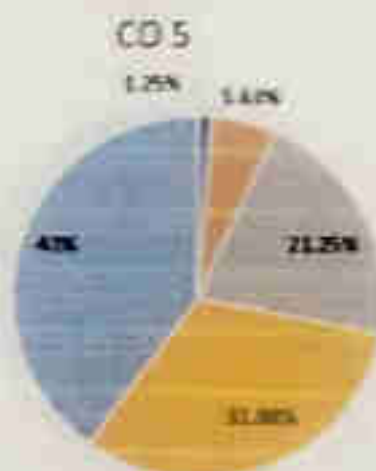
Subject - Engineering Mathematics-IV

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	1.25
2- Hardly	9	5.63
3- Moderately	34	21.25
4- Mostly	51	31.88
5- Definitely	64	40
Total	160	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	3.13
2- Hardly	5	3.13
3- Moderately	47	29.38
4- Mostly	48	30
5- Definitely	55	34.38
Total	160	100

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



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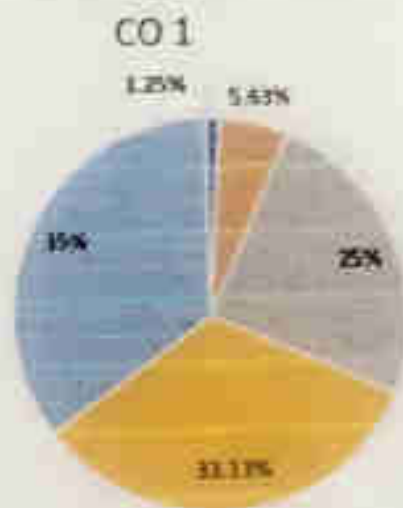
Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	9	5.63
3- Moderately	40	25
4- Mostly	53	33.13
5- Definitely	56	35
Total	150	100

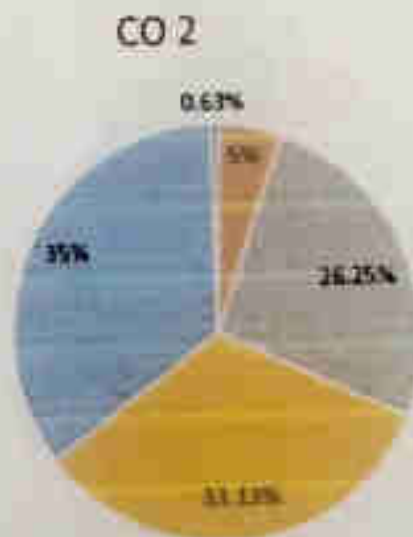
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.63
2- Hardly	8	5
3- Moderately	42	26.25
4- Mostly	53	33.13
5- Definitely	56	35
Total	160	100

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





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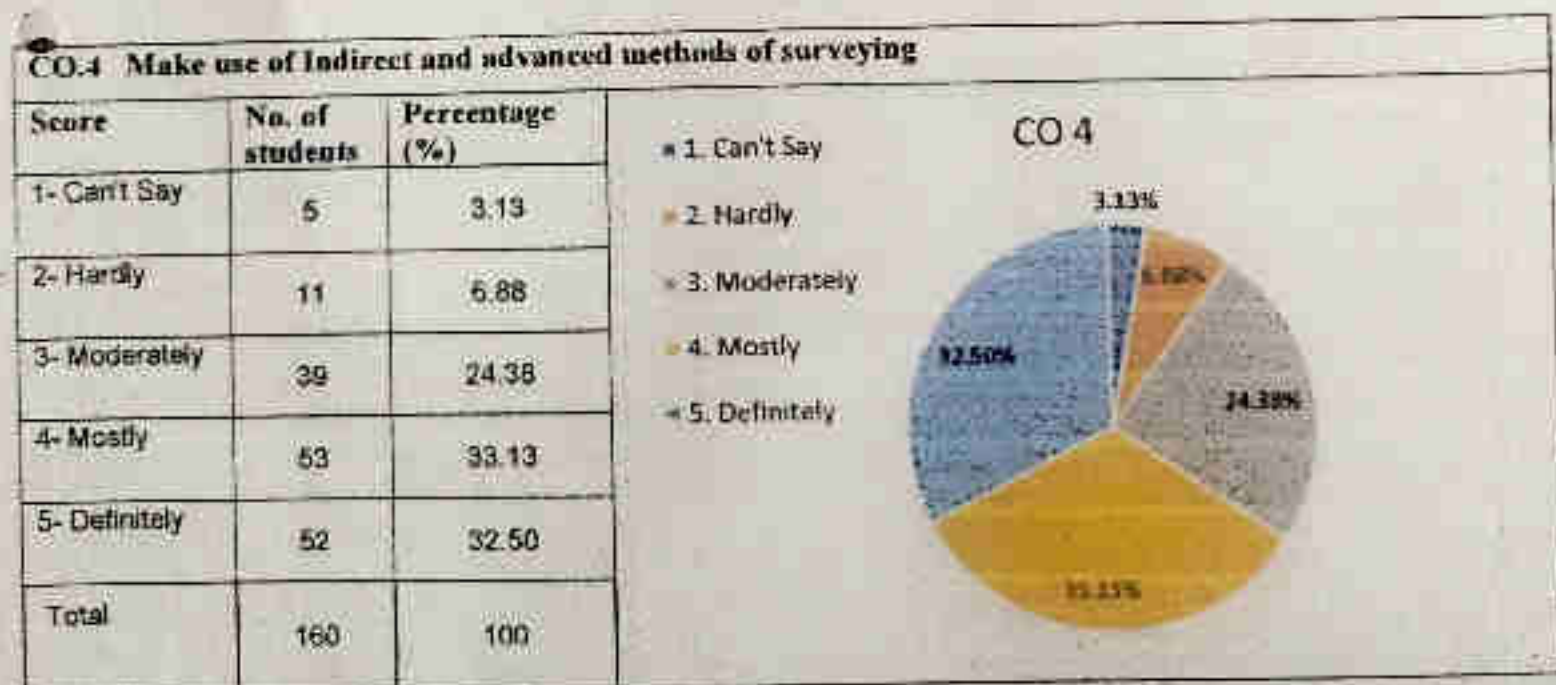
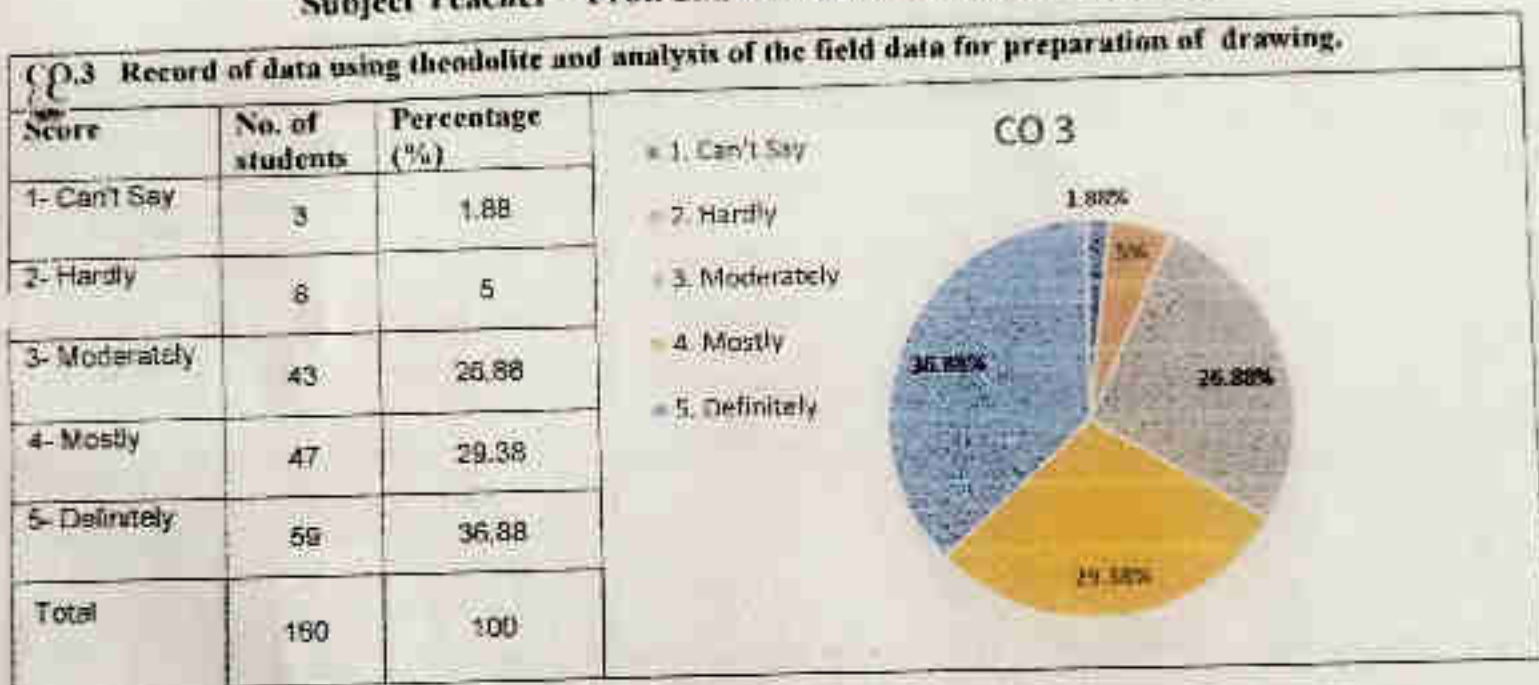
Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty





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Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

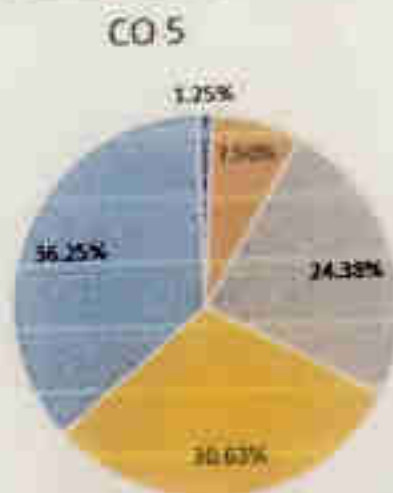
Subject – Surveying (Theory)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty

3.5 Determination of areas and volumes for solving surveying problems.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	12	7.50
3- Moderately	39	24.38
4- Mostly	49	30.63
5- Definitely	58	36.25
Total	160	100

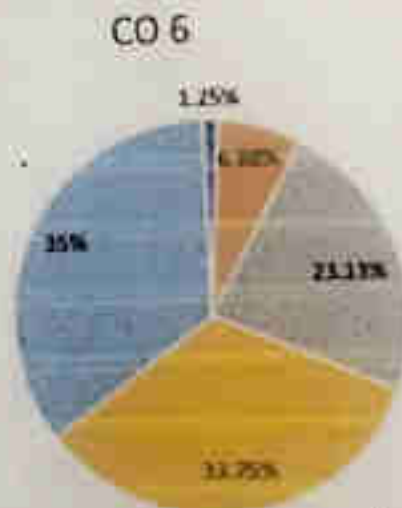
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.52
2- Hardly	11	6.88
3- Moderately	37	23.13
4- Mostly	54	33.75
5- Definitely	56	35
Total	160	100

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



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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Building Materials and Concrete Technology (Theory)

Subject Teacher – Prof. Tarannum Shaikh/ 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	0	0	<b>CO 1</b>  Legend: 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	4	2.50	
3- Moderately	30	18.75	
4- Mostly	55	34.38	
5- Definitely	71	44.38	
Total	160	100	

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

Score	No. of students	Percentage (%)	
1- Can't Say	2	1.25	<b>CO 2</b>  Legend: 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	6	3.75	
3- Moderately	34	21.25	
4- Mostly	51	31.88	
5- Definitely	67	41.88	
Total	160	100	



**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-IV)**

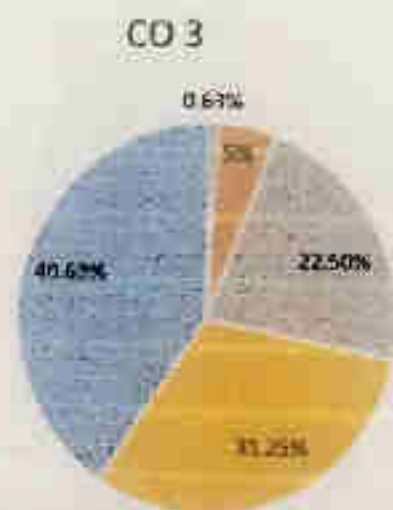
**Subject – Building Materials and Concrete Technology (Theory)**

**Subject Teacher Prof. Tarannum Shaikh/ 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	1	0.63
2- Hardly	8	5
3- Moderately	38	22.50
4- Mostly	50	31.25
5- Definitely	65	40.63
Total	160	100

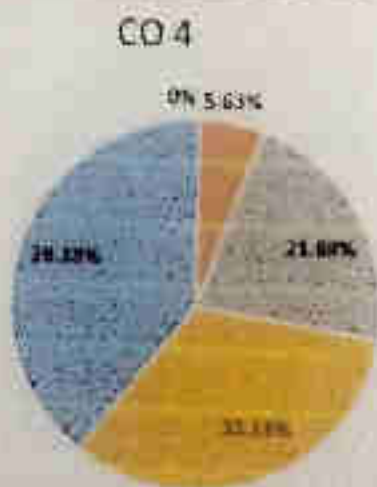
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	9	5.63
3- Moderately	35	21.88
4- Mostly	53	33.13
5- Definitely	63	39.38
Total	160	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Building Materials and Concrete Technology (Theory)

Subject Teacher – Prof. Tarannum Shaikh/ 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	4	2.50	<p>CO 5</p> <p>1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely</p>
2- Hardly	8	5	
3- Moderately	25	15.63	
4- Mostly	59	36.88	
5- Definitely	64	40	
Total	160	100	

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

Score	No. of students	Percentage (%)	
1- Can't Say	2	1.25	<p>CO 6</p> <p>1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely</p>
2- Hardly	7	4.38	
3- Moderately	31	19.38	
4- Mostly	51	31.88	
5- Definitely	69	43.13	
Total	160	100	

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**Course Exit Report Analysis (SEM-IV)**

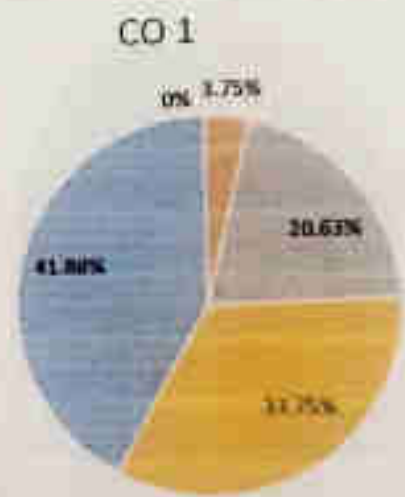
**Subject – Fluid Mechanics - II (Theory)**

**Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Shahbaz Khan**

**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
2- Hardly	6	3.75
3- Moderately	33	20.63
4- Mostly	54	33.75
5- Definitely	67	41.88
<b>Total</b>	<b>160</b>	<b>100</b>

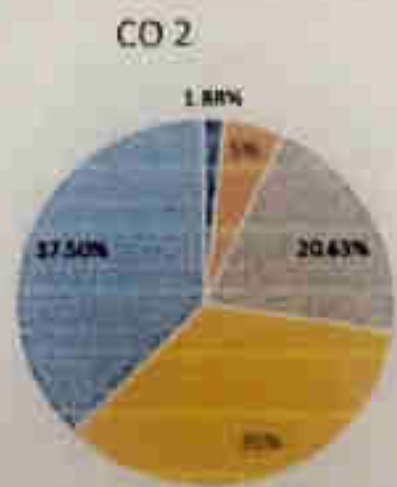
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**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	3	1.88
2- Hardly	8	5
3- Moderately	33	20.63
4- Mostly	56	35
5- Definitely	60	37.50
<b>Total</b>	<b>160</b>	<b>100</b>

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





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Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Fluid Mechanics - II (Theory)

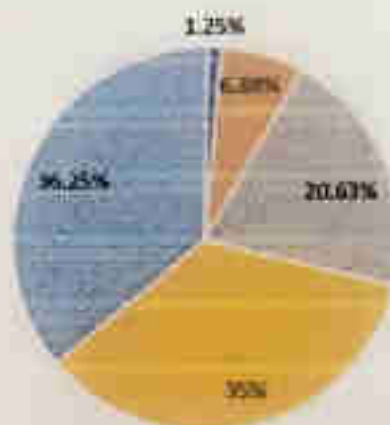
Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Shahbaz Khan

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	11	6.88
3- Moderately	33	20.63
4- Mostly	56	35
5- Definitely	58	36.25
Total	160	100

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

CO 3

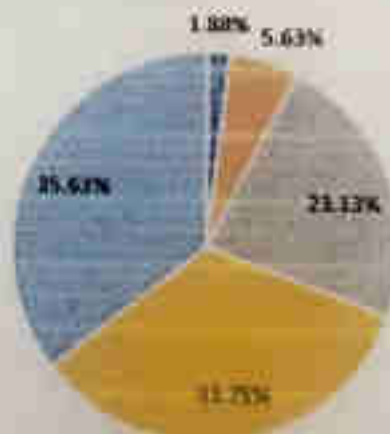


**CO. 4. Describe boundary layer concept, boundary layer separation and flow around submerged bodies**

Score	No. of students	Percentage (%)
1- Can't Say	3	1.88
2- Hardly	9	5.63
3- Moderately	37	23.13
4- Mostly	54	33.75
5- Definitely	57	35.63
Total	160	100

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

CO 4





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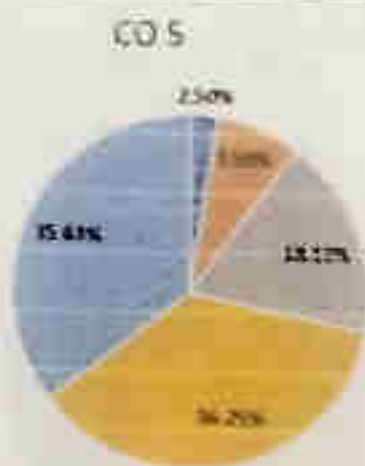
Subject - - Fluid Mechanics - II (Theory)

Subject Teacher - Prof. Ashwini Bolkhe/ Prof. Shahbaz Khan

CO-5. Apply Moment of Momentum Principle.

Score	No. of students	Percentage (%)
1- Can't Say	4	2.50
2- Hardly	12	7.50
3- Moderately	26	16.13
4- Mostly	56	35.25
5- Definitely	57	35.63
Total	160	100

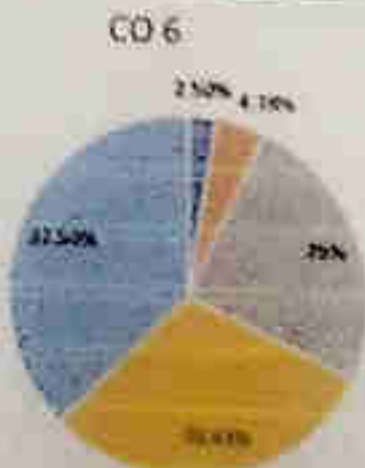
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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	4	2.50
2- Hardly	7	4.38
3- Moderately	40	25
4- Mostly	49	30.63
5- Definitely	60	37.50
Total	160	100

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



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Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

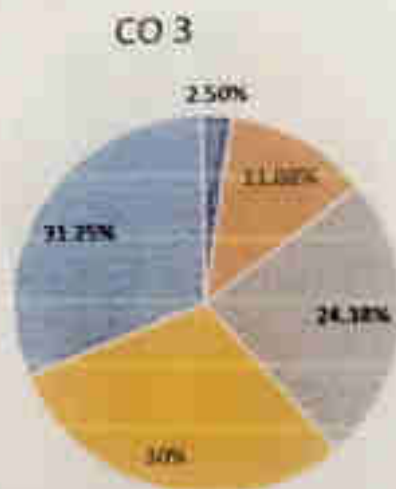
Subject – Structural Analysis (Theory)

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	4	2.50
2- Hardly	19	11.88
3- Moderately	39	24.38
4- Mostly	48	30
5- Definitely	60	31.25
Total	160	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 clapeyron's three moment theorem.

Score	No. of students	Percentage (%)
1- Can't Say	6	3.75
2- Hardly	20	12.50
3- Moderately	31	19.38
4- Mostly	63	39.38
5- Definitely	60	37.50
Total	160	100

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





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Course Exit Report Analysis (SEM-IV)

Subject – Structural Analysis (Theory)

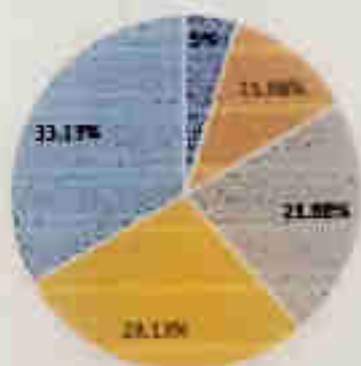
Subject Teacher – Prof. Shweta Motharkar/ Prof. Manoj Pillai/ Prof. Dinesh Joshi

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

Score	No. of students	Percentage (%)
1- Can't Say	8	5
2- Hardly	19	11.88
3- Moderately	35	21.88
4- Mostly	45	28.13
5- Definitely	53	33.13
Total	160	100

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

CO 5

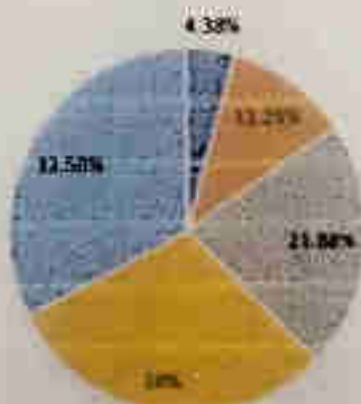


CO-6. Analyze indeterminate structures by MDM and to carry out plastic analysis of structures.


Score	No. of students	Percentage (%)
1- Can't Say	7	4.38
2- Hardly	18	11.25
3- Moderately	35	21.88
4- Mostly	48	30
5- Definitely	52	32.50
Total	160	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 : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Surveying (LAB)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty

CO-1. Use and operate the surveying instruments according to the accuracy and suitability.		
Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	3	1.88
3- Moderately	40	25
4- Mostly	46	28.75
5- Definitely	69	43.13
Total	160	100

Legend:  
= 1. Can't Say  
= 2. Hardly  
= 3. Moderately  
= 4. Mostly  
= 5. Definitely

CO 1  
1.25% 1.88%  
25%  
43.13%  
28.75%

CO-2. Calculate linear and angular dimensions in horizontal and vertical planes.		
Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	9	5.63
3- Moderately	37	23.13
4- Mostly	41	25.63
5- Definitely	71	44.38
Total	160	100

Legend:  
= 1. Can't Say  
= 2. Hardly  
= 3. Moderately  
= 4. Mostly  
= 5. Definitely

CO 2  
1.25% 5.63%  
23.13%  
44.38%  
25.63%



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

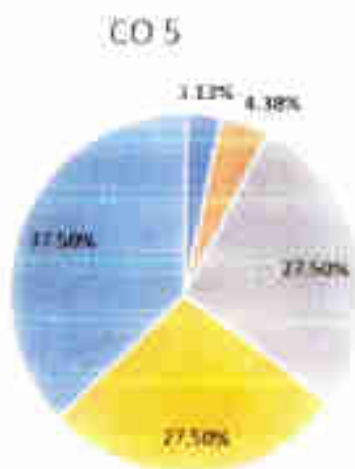
Subject – Surveying (LAB)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty

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

Score	No. of students	Percentage (%)
1- Can't Say	5	3.13
2- Hardly	7	4.38
3- Moderately	44	27.50
4- Mostly	44	27.50
5- Definitely	60	37.50
Total	160	100

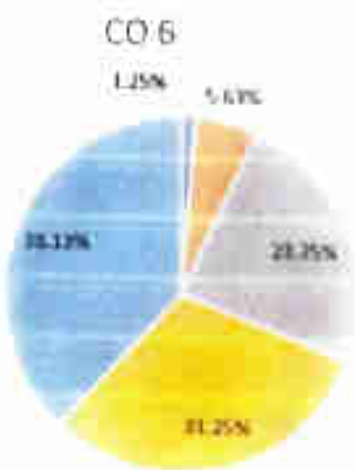
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-6. Develop curves and foundation plans.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	9	5.63
3- Moderately	38	23.75
4- Mostly	50	31.25
5- Definitely	61	38.13
Total	160	100

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



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Course Exit Report Analysis (SEM-IV)

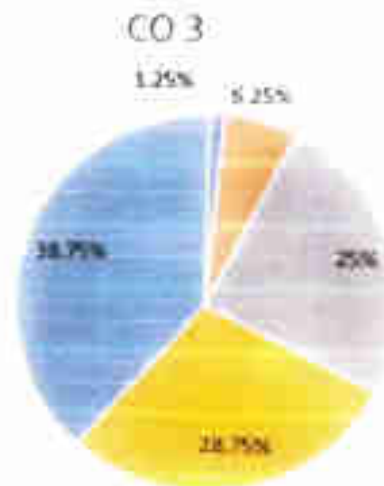
Subject – Surveying (LAB)

Subject Teacher – Prof. Shanthi Selvam/ Prof. Rachel Gitty

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	10	6.25
3- Moderately	40	25
4- Mostly	45	28.75
5- Definitely	63	38.75
Total	160	100

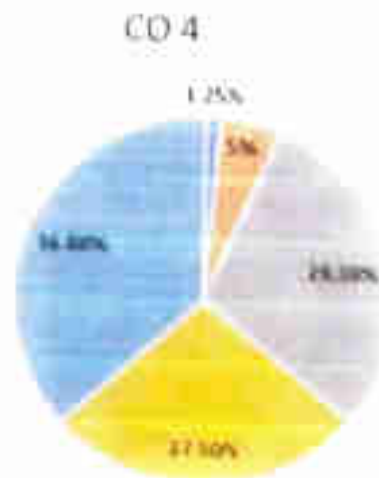
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	8	5
3- Moderately	41	25.38
4- Mostly	44	27.50
5- Definitely	59	36.68
Total	160	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)**

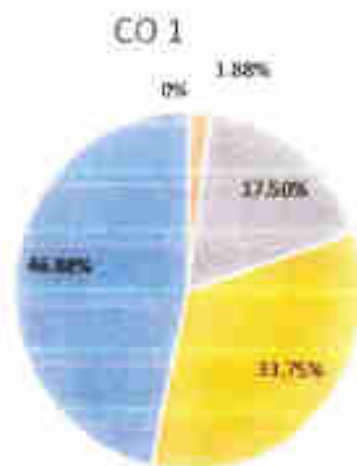
**Subject – Building Materials and Concrete Technology (Lab)**

**Subject Teacher – Prof. Tarannum Shaikh/ Prof. Sujaya Wadekar**

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	1.88
3- Moderately	28	17.50
4- Mostly	54	33.75
5- Definitely	75	46.88
Total	160	100

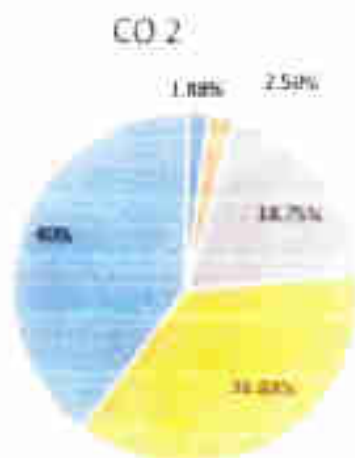
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	3	1.88
2- Hardly	4	2.50
3- Moderately	30	18.75
4- Mostly	59	36.88
5- Definitely	64	40
Total	160	100

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





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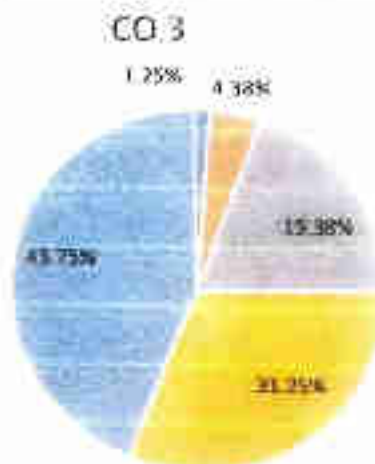
Subject – Building Materials and Concrete Technology (Lab)

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

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	7	4.38
3- Moderately	31	19.38
4- Mostly	50	31.25
5- Definitely	70	43.75
Total	160	100

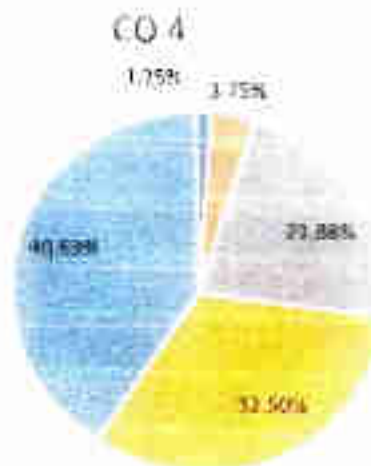
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	1.25
2- Hardly	6	3.75
3- Moderately	35	21.88
4- Mostly	52	32.50
5- Definitely	65	40.63
Total	160	100

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





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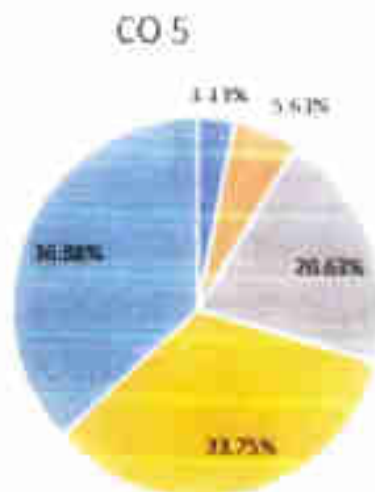
Subject – Building Materials and Concrete Technology (Lab)

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

CO.5 Design the concrete mix

Score	No. of students	Percentage (%)
1- Can't Say	5	3.13
2- Hardly	9	5.63
3- Moderately	33	20.63
4- Mostly	54	33.75
5- Definitely	59	36.88
Total	160	100

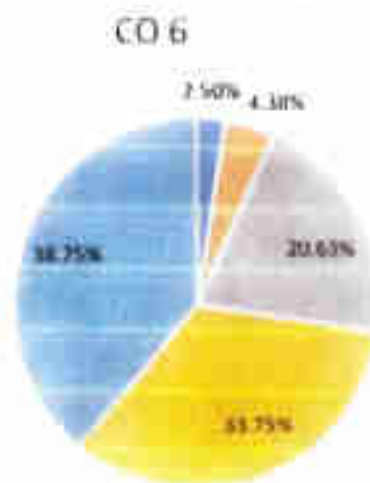
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	4	2.50
2- Hardly	7	4.38
3- Moderately	33	20.63
4- Mostly	54	33.75
5- Definitely	62	38.75
Total	160	100

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





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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-IV)**

**Subject – Fluid Mechanics- II (LAB)**

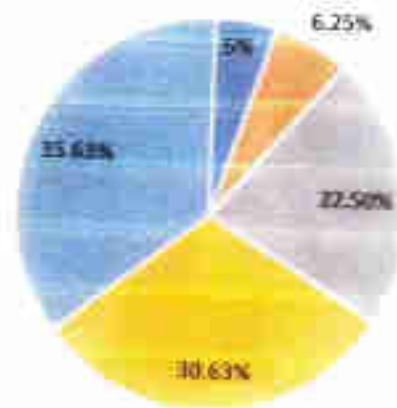
**Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Shahbaz Khan**

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

Score	No. of students	Percentage (%)
1- Can't Say	8	5
2- Hardly	10	6.25
3- Moderately	36	22.50
4- Mostly	49	30.63
5- Definitely	57	35.63
Total	160	100

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

CO 3

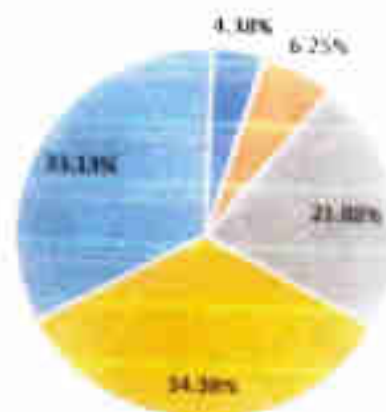


**CO.4. Determine different minor losses in pipe fittings.**

Score	No. of students	Percentage (%)
1- Can't Say	7	4.38
2- Hardly	10	6.25
3- Moderately	35	21.88
4- Mostly	55	34.38
5- Definitely	53	33.13
Total	160	100

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

CO 4





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Fluid Mechanics- II (LAB)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Shabbaz Khan

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

Score	No. of students	Percentage (%)
1- Can't Say	8	5.13
2- Hardly	13	8.13
3- Moderately	39	24.38
4- Mostly	47	29.38
5- Definitely	53	33.13
Total	160	100

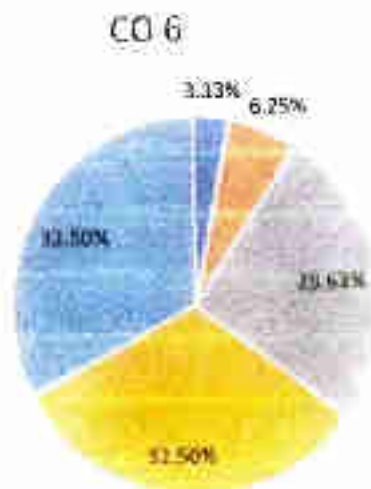
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1. Can't Say	5	3.13
2- Hardly	10	6.25
3- Moderately	41	25.63
4- Mostly	52	32.50
5- Definitely	52	32.50
Total	160	100

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



Principal



## Department of Civil Engineering

Academic Year : 2022-2023

### Course Exit Report Analysis (SEM-IV)

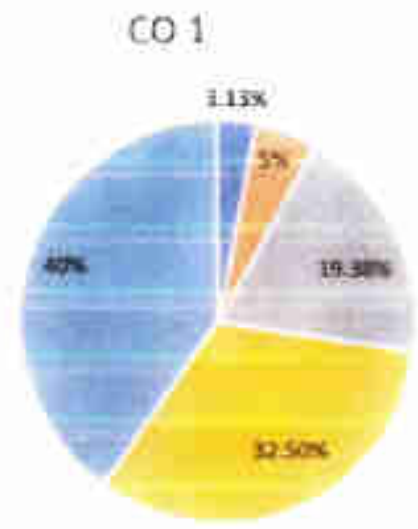
Subject – Skill Based Lab Course - II

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Mrinmayee Ganage

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

Score	No. of students	Percentage (%)
1- Can't Say	5	3.13
2- Hardly	8	5
3- Moderately	31	19.38
4- Mostly	52	32.50
5- Definitely	64	40
Total	160	100

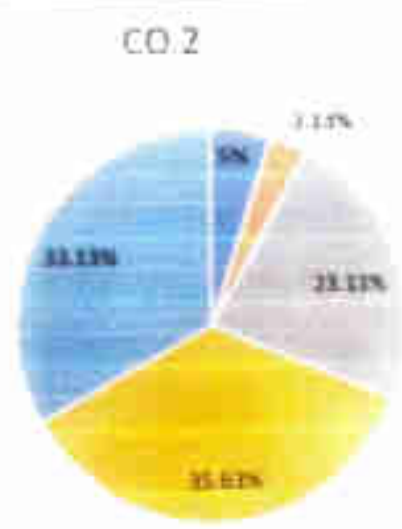
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	8	5
2- Hardly	5	3.13
3- Moderately	37	23.13
4- Mostly	57	35.63
5- Definitely	53	33.13
Total	160	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

Subject – Skill Based Lab Course - II

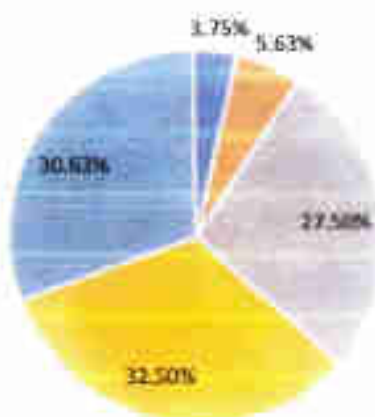
Subject Teacher – Prof. Sujaya Wadekar/ Prof. Mrinmayee Ganuge

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

Score	No. of students	Percentage (%)
1- Can't Say	6	3.75
2- Hardly	9	5.63
3- Moderately	44	27.50
4- Mostly	52	32.50
5- Definitely	49	30.63
Total	160	100

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

CO 3

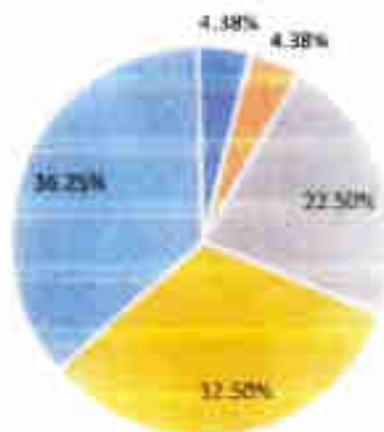


CO-4. Explain the fundamental features of Global Navigation Satellite System (GNSS) and determine latitudes, longitudes, altitudes of points, length of roads, area of plots, etc. using GNSS.

Score	No. of students	Percentage (%)
1- Can't Say	7	4.38
2- Hardly	7	4.38
3- Moderately	36	22.50
4- Mostly	52	32.50
5- Definitely	58	36.25
Total	160	100

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

CO 4





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

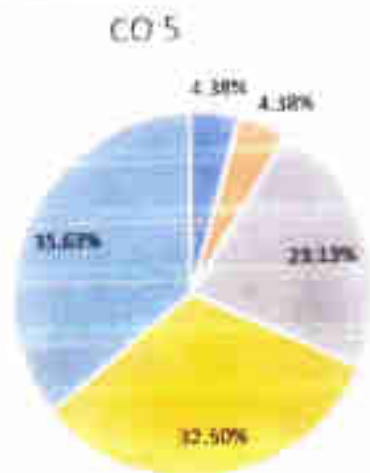
Subject – Skill Based Lab Course - II

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Mrinmayee Ganage

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	7	4.38
2- Hardly	7	4.38
3- Moderately	37	23.13
4- Mostly	52	32.50
5- Definitely	57	35.63
Total	160	100

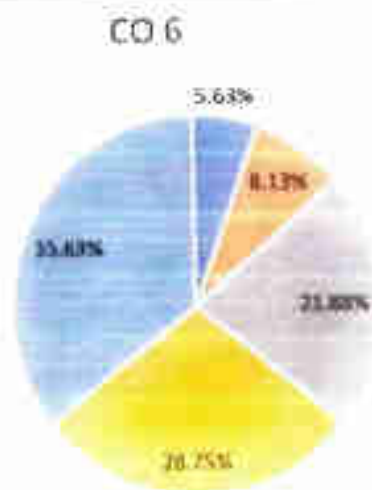
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-6. Make use of GIS in GNSS and TS and show various statistical operations in GIS.

Score	No. of students	Percentage (%)
1- Can't Say	9	5.63
2- Hardly	12	8.13
3- Moderately	35	21.88
4- Mostly	46	28.75
5- Definitely	57	35.63
Total	160	100

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



HOD  
Civil Dept.

  
Principal  
SCOE





# SRIKRASWATI College of Engineering

Take the Best Achieve and Contribute  
Knowledge, New Frontier, 4.0 JHU

Department of Civil Engineering

Academic Year : 2022-2023

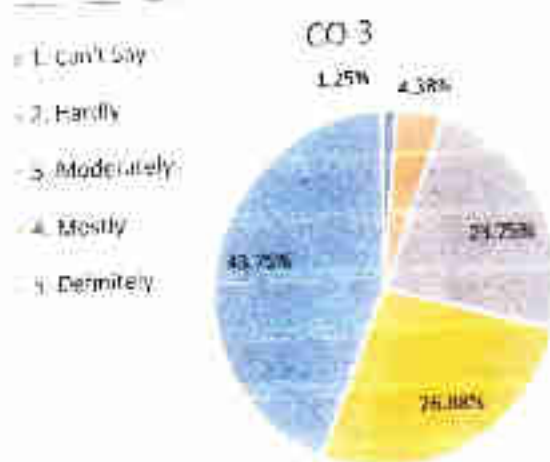
Course Exit Report Analysis (SEM-IV)

Subject – Mini Project-IB

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Chaitali Isai

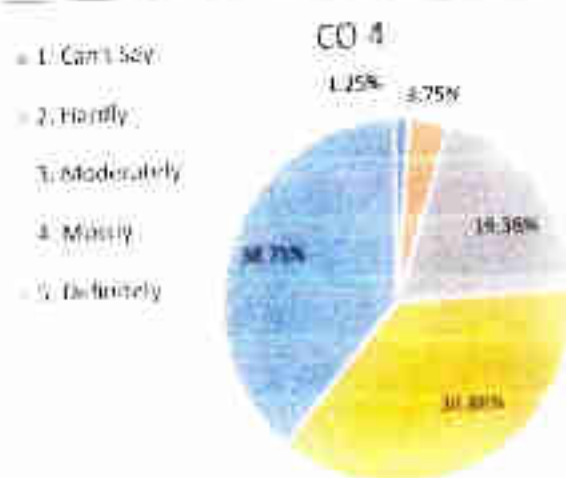
CO-3. To analyze and choose the process of applying basic engineering fundamentals to attempt solutions in problems.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.25
2- Hardly	7	4.38
3- Moderately	38	23.75
4- Mostly	43	26.88
5- Definitely	70	43.75
Total	160	100



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	2	1.25
2- Hardly	6	3.75
3- Moderately	31	19.38
4- Mostly	59	36.88
5- Definitely	62	38.75
Total	160	100





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-IV)

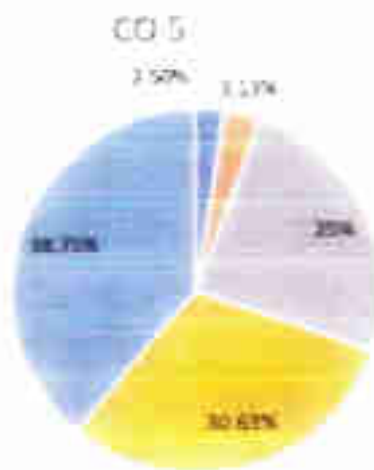
Subject – Mini Project-IB

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Chaitali Isal

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	4	2.50
2- Hardly	5	3.13
3- Moderately	40	25
4- Mostly	49	30.63
5- Definitely	62	38.75
Total	160	100

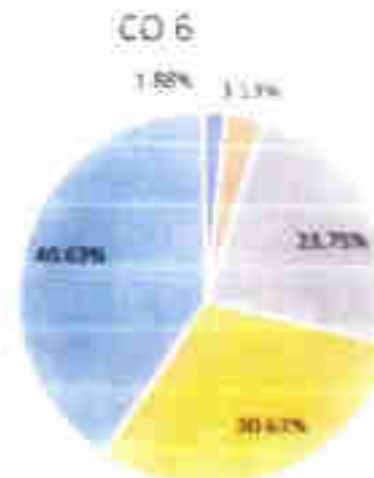
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.88
2- Hardly	5	3.13
3- Moderately	38	23.75
4- Mostly	49	30.63
5- Definitely	65	40.63
Total	160	100

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



  
**HOD**  
 Civil Dept.

  
**Principal**  
 SCOE



**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 :2022-23 (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 discussed below.

**Action Taken:**

Based on suggestions, Action taken is mentioned below.

<b>Subject</b>	<b>Faculty Name</b>	<b>Feedback/suggestions</b>	<b>Action Taken</b>	<b>Date</b>
SBLC	Prof. Deepali Padatane	To learn GIS software	One Week Workshop on "Basics of GIS: Software Training"	18/8/2022 to 22/8/2022
Green Building Construction	Prof. Aniket Sharma	Enhancing the knowledge of green building	Seminar on Green Building Movement in India	23/8/2022

  
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Civil Engg.

  
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# SARASWATI College of Engineering

Learn, Grow, Advance and Contribute

Waghurao Vastu Phulekar - 410 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject – Quality Survey, Estimation and Valuation

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

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	0	0
2- Hardly	8	2.88
3- Moderately	14	6.67
4- Mostly	69	32.88
5- Definitely	121	57.62
Total	210	100

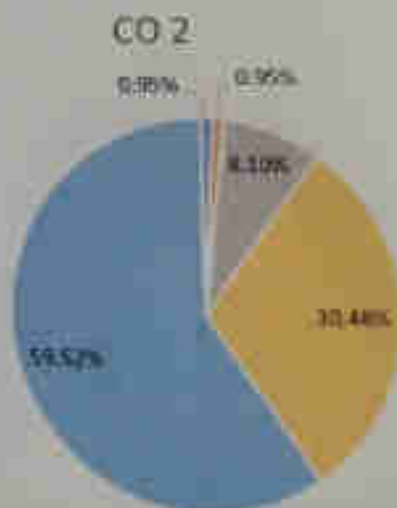
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	0.95
2- Hardly	2	0.95
3- Moderately	17	8.10
4- Mostly	64	30.48
5- Definitely	125	59.52
Total	210	100

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





SARASWATI Educational Society's  
**SARASWATI College of Engineering**

(WOMEN EMPOWERMENT AND ENTREPRENEURSHIP)

Wipro Road, Mysore - 570 010

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

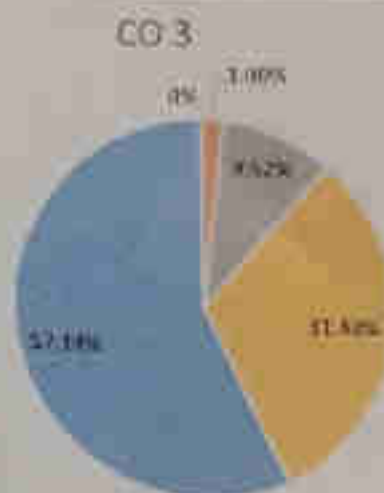
Subject – Quality Survey, Estimation and Valuation

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

**CO-3. Draft specifications for various items of work**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	4	1.90
3- Moderately	20	9.52
4- Mostly	66	31.43
5- Definitely	120	57.14
Total	210	100

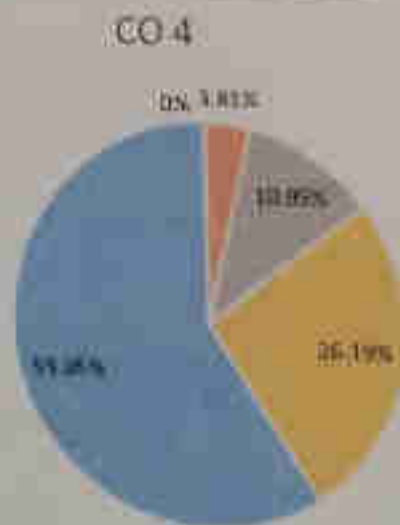
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely

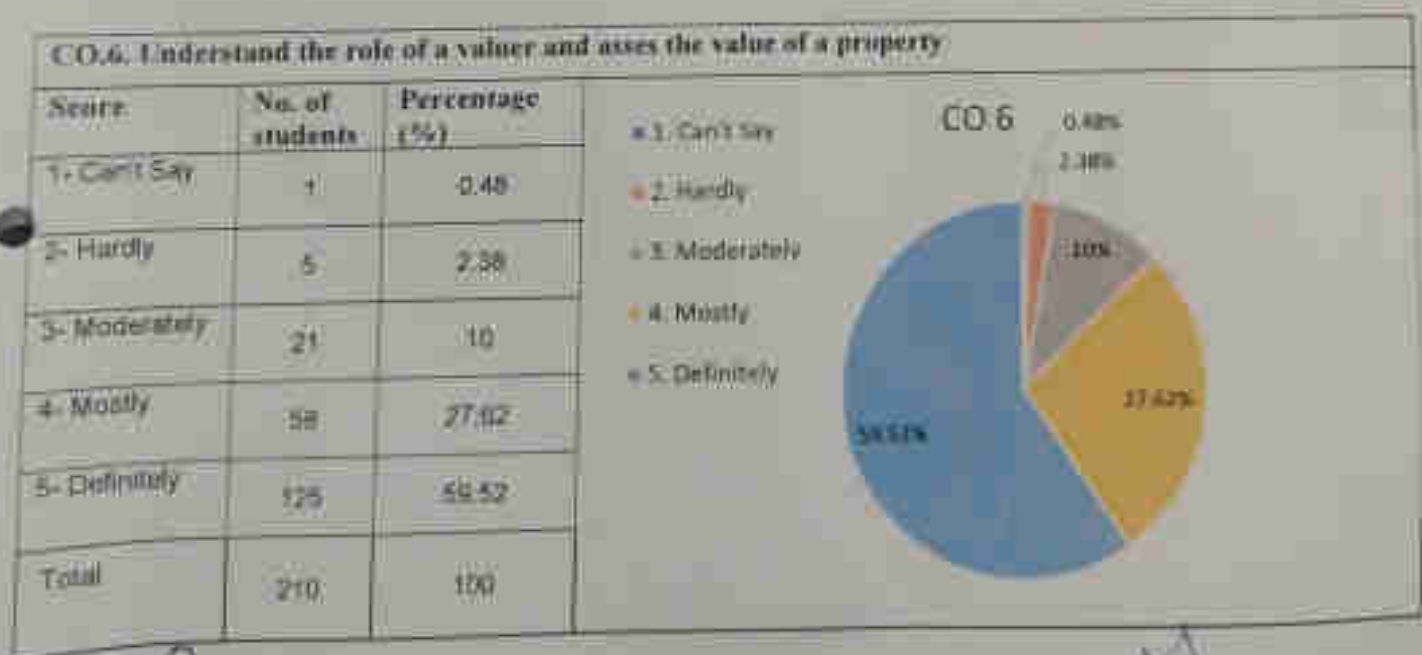
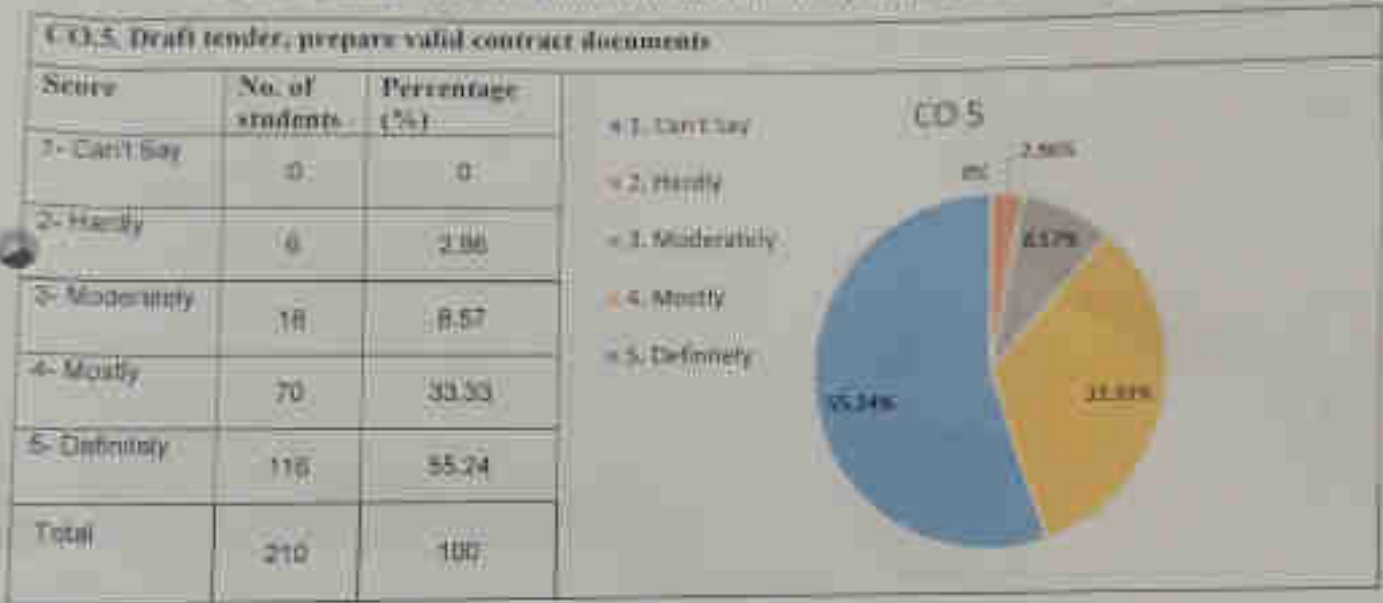


**CO-4. Perform the rate analysis for various items of work**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	6	3.81
3- Moderately	23	10.95
4- Mostly	50	26.19
5- Definitely	124	59.05
Total	210	100

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





HOD  
Civil Dept.

Principal  
SCOE



SARASWATI Engineering Society's  
**SARASWATI College of Engineering**

WEDD, Laxmi Adarsh and COLLEGE ROAD,  
Kharajpur, Bhubaneswar - 751 019

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject – Quality Survey, Estimation and Valuation (LAB)

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

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	0.48
2- Hardly	4	1.90
3- Moderately	14	6.67
4- Mostly	73	34.76
5- Definitely	118	56.19
Total	210	100

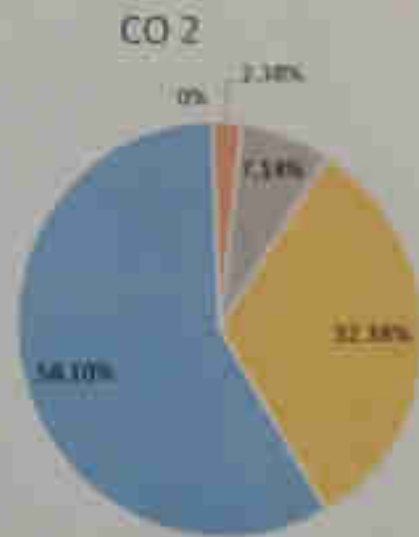
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO-2. Prepare rate analysis of few important items of work

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	6	2.86
3- Moderately	15	7.14
4- Mostly	68	32.38
5- Definitely	122	58.10
Total	210	100

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





SARASWATI College of Engineering

(WOMEN EMPOWERMENT AND DEVELOPMENT)  
Khadgaon, Nashik - 422 219

Department of Civil Engineering

Academic Year - 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject - Quality Survey, Estimation and Valuation (EAV)

Subject Teacher - Prof. Shantnu Selvanu/ Prof. Mally Mathew/ Prof. Sanjay Singh

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	2	0.95
2- Hardly	3	1.43
3- Moderately	15	7.14
4- Mostly	72	34.29
5- Definitely	118	56.19
Total	210	100

CO-3

- 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	0.48
2- Hardly	5	2.38
3- Moderately	17	8.10
4- Mostly	72	34.29
5- Definitely	115	54.76
Total	210	100

CO-4

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





SARASWATI Education Society's  
**SARASWATI College of Engineering**

WARRIOR CLASS BUILDERS AND CONVENTORS

Highway, New Mumbai - 410 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject – Quality Survey, Estimation and Valuation (LAB)

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

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	0	0
2- Hardly	4	1.90
3- Moderately	15	7.14
4- Mostly	72	34.29
5- Definitely	119	56.67
Total	210	100

Legend:  
• 1. Can't Say  
• 2. Hardly  
• 3. Moderately  
• 4. Mostly  
• 5. Definitely

CO 5

CO.6, Evaluate present fair value of any constructed building at stated time		
Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	1.43
3- Moderately	16	7.62
4- Mostly	75	35.71
5- Definitely	136	64.24
Total	210	100

Legend:  
• 1. Can't Say  
• 2. Hardly  
• 3. Moderately  
• 4. Mostly  
• 5. Definitely

CO 6

HOD  
Civil Dept.

Principal  
SCOE



SARASWATI College of Engineering

Wasteless Education and Sustainable  
Engineering Education. AIEE 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject - Design and Drawing Reinforced Concrete Structures

Subject Teacher - Prof. Rashmi John/ Prof. Shweta Motharkar/ Dr. Sunil Rangari

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	1	0.48
2- Hardly	4	1.90
3- Moderately	19	6.19
4- Mostly	60	28.57
5- Definitely	142	67.82
Total	210	100

Legend for CO.1:

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

CO.1 Pie Chart Data:

Score	Percentage (%)
1- Can't Say	0.48%
2- Hardly	1.90%
3- Moderately	6.19%
4- Mostly	28.57%
5- Definitely	67.82%

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	0	0
2- Hardly	6	2.38
3- Moderately	11	5.24
4- Mostly	74	35.24
5- Definitely	120	57.14
Total	210	100

Legend for CO.2:

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

CO.2 Pie Chart Data:

Score	Percentage (%)
1- Can't Say	0%
2- Hardly	2.38%
3- Moderately	5.24%
4- Mostly	35.24%
5- Definitely	57.14%



SARASWATI College of Engineering

WOMEN EMPOWERMENT AND CAREER DEVELOPMENT  
Wipro Institute of Technology - 401114

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject - Design and Drawing Reinforced Concrete Structures

Subject Teacher - Prof. Rudini Juhw/ Prof. Shweta Madhukar/ Dr. Sunil Rangari

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

Score	No. of students	Percentage (%)
1- Can't Say	2	0.95
2- Hardly	7	3.32
3- Moderately	20	9.52
4- Mostly	64	30.48
5- Definitely	122	58.70
Total	210	100

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

CO 3

Score	Percentage (%)
1	0.95%
2	3.32%
3	9.52%
4	30.48%
5	58.70%

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	0.48
2- Hardly	3	1.43
3- Moderately	11	5.24
4- Mostly	72	34.29
5- Definitely	123	58.57
Total	210	100

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

CO 4

Score	Percentage (%)
1	0.48%
2	1.43%
3	5.24%
4	34.29%
5	58.57%



# SARASWATI College of Engineering

Green Life, Skillful and Competitive

Kharghar, Navi Mumbai - 410 210

Department of Civil Engineering

Academic Year : 2022-2023


Course Exit Report Analysis (SEM-VII)

Subject – Design and Drawing Reinforced Concrete Structures

Subject Teacher – Prof. Roshni John/ Prof. Shweta Motharkar/ Dr. Sunil Rangari


C.O.5. Demonstrate the response of a structure during earthquake and determine design seismic forces		
Score	No. of students	Percentage (%)
1- Can't Say	1	0.48
2- Hardly	3	1.43
3- Moderately	15	7.14
4- Mostly	66	31.43
5- Definitely	125	59.52
Total	210	100

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



C.O.6. Explain principles of prestressing and analyse the stresses in prestressed beams		
Score	No. of students	Percentage (%)
1- Can't Say	1	0.48
2- Hardly	2	0.95
3- Moderately	14	6.67
4- Mostly	68	32.38
5- Definitely	125	59.52
Total	210	100

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



HOD  
Civil Dept.

Principal  
SCOE



SARASWATI College of Engineering

WISDOM BETTER KNOWLEDGE  
KARNATAKA TECHNOLOGICAL UNIVERSITY  
KAPPAHALI, BANGALORE - 560 076

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

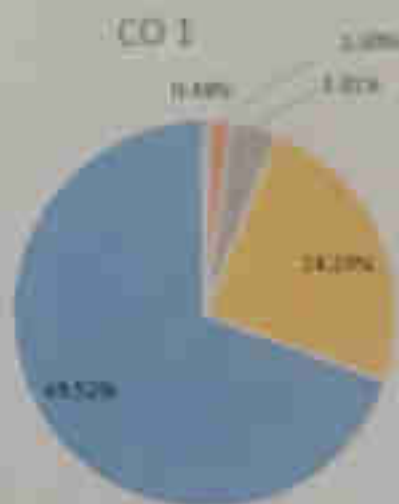
Subject – Design and Drawing Reinforced Concrete Structures (LAD)

Subject Teacher – Prof. Rashid John/ Prof. Shweta Matharkar/ Dr. Sunil Bangarot

CO1. Design components of G+3 RCC framed building using IS code recommendations.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.48
2- Hardly	4	1.90
3- Moderately	8	3.81
4- Mostly	51	24.29
5- Definitely	146	69.52
Total	210	100

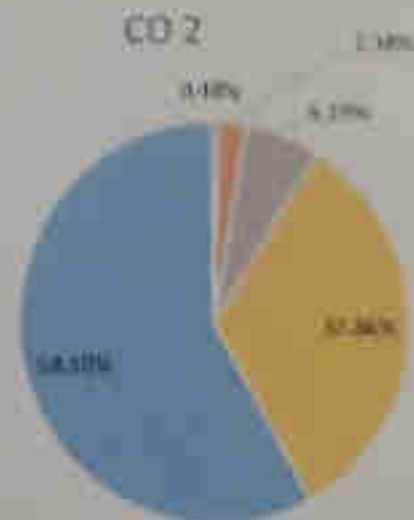
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



CO2. 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	0.48
2- Hardly	6	2.88
3- Moderately	13	6.19
4- Mostly	69	32.86
5- Definitely	122	58.10
Total	210	100

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





# SARASWATI College of Engineering

Learn Love Achieve and Contribute

Waghodia Road, Gandhinagar - 392 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

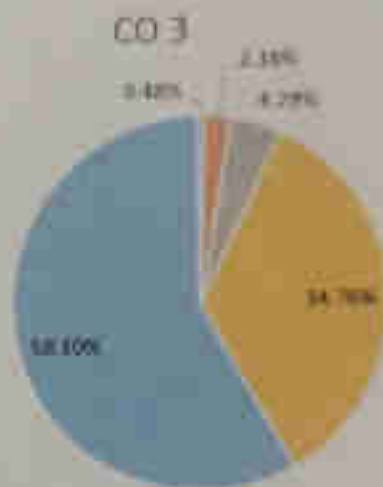
Subject – Design and Drawing Reinforced Concrete Structures (IAR)

Subject Teacher – Prof. Roshni John/ Prof. Shweta Matharkar/ Dr. Simil Rangari

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	0.48
2- Hardly	5	2.36
3- Moderately	9	4.29
4- Mostly	73	34.76
5- Definitely	122	58.10
Total	210	100

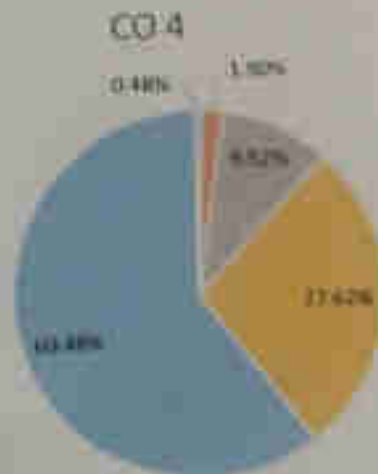
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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	1	0.48
2- Hardly	4	1.90
3- Moderately	20	9.52
4- Mostly	58	27.62
5- Definitely	127	60.48
Total	210	100

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





SARASWATI College of Engineering

100th Anniversary Celebrations Commencing 2022-23  
[Saraswati Road, Kulkarni, and Post Office: Kulkarni]  
Khopur, Nashik District - 422 208

Department of Civil Engineering

Academic Year - 2022-2023

Course End Report Analysis (SEM-VII)

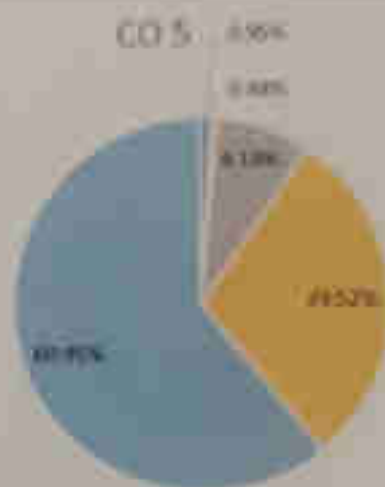
Subject - Design and Drawing Reinforced Concrete Structures (LAB)

Subject Teacher - Prof. Rashmi Jadhav/ Prof. Shweta Motekar/ Dr. Sandil Rangari

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

Score	No. of students	Percentage (%)
1- Can't Say	2	0.95
2- Hardly	1	0.48
3- Moderately	17	8.10
4- Mostly	62	29.52
5- Definitely	128	60.95
Total	210	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	2	0.95
2- Hardly	2	0.95
3- Moderately	18	8.57
4- Mostly	66	31.43
5- Definitely	122	58.06
Total	210	100

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



HOD  
Civil Dept.

Principal  
SCOE



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

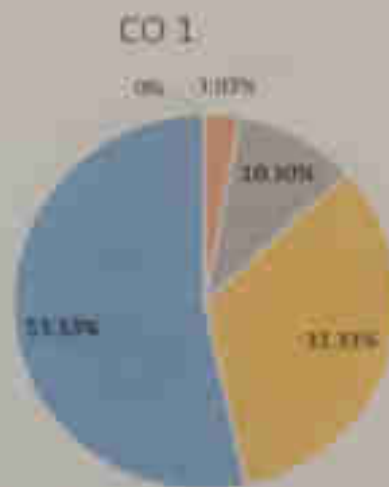
Subject – Advanced Construction Technology

Subject Teacher – Dr. Raji/ Prof. Pallavi Tajane

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	0	0
2- Hardly	5	3.03
3- Moderately	17	10.30
4- Mostly	65	33.33
5- Definitely	88	53.33
Total	165	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	0	0
2- Hardly	2	1.21
3- Moderately	21	12.73
4- Mostly	56	33.94
5- Definitely	80	52.12
Total	165	100

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







**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VII)**

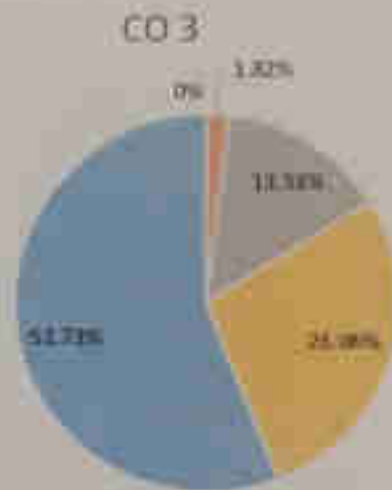
**Subject – Advanced Construction Technology**

**Subject Teacher – Dr. Raji/ Prof. Pallavi Tajane**

**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	0	0
2- Hardly	3	1.82
3- Moderately	22	13.33
4- Mostly	43	26.00
5- Definitely	87	52.73
Total	165	100

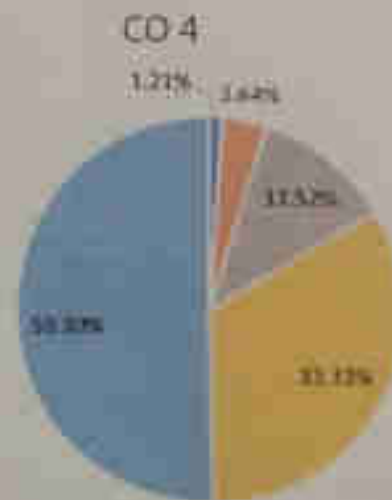
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	2	1.21
2- Hardly	6	3.64
3- Moderately	19	11.52
4- Mostly	55	31.33
5- Definitely	83	50.30
Total	165	100

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





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Bangalore, Karnataka - 560 075

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

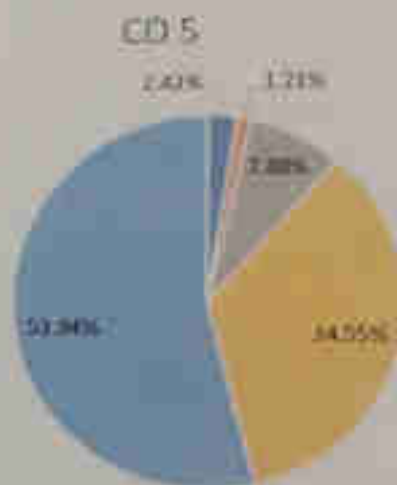
Subject – Advanced Construction Technology

Subject Teacher – Dr. Raji/ Prof. Pallavi Tajane

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

Score	No. of students	Percentage (%)
1- Can't Say	4	2.42
2- Hardly	2	1.21
3- Moderately	10	7.88
4- Mostly	57	34.55
5- Definitely	89	53.94
Total	165	100

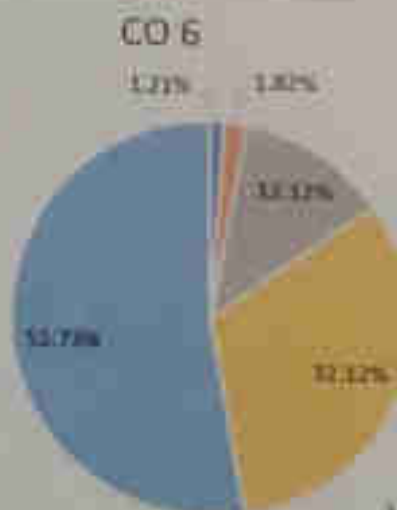
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



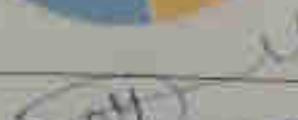
CO-6. Explain the theoretical and practical aspects of rehabilitation and strengthening techniques in civil engineering along with the design and management applications

Score	No. of students	Percentage (%)
1- Can't Say	2	1.21
2- Hardly	3	1.82
3- Moderately	20	12.12
4- Mostly	53	32.12
5- Definitely	87	52.73
Total	165	100

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



  
HOD  
Civil Dept.

  
Principal  
SCOE



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

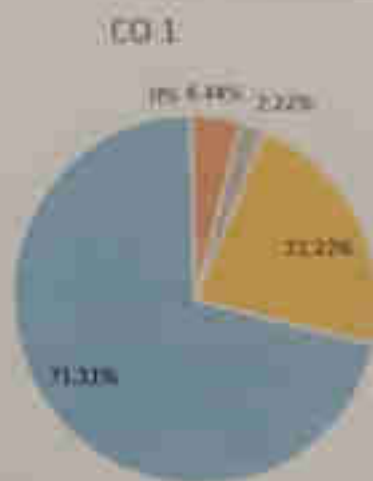
Subject - Prestressed Concrete

Subject Teacher - Prof. Shabbaz Khan

**CO.1. Distinguish between Prestressed Concrete and RCC.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	4.44
3- Moderately	1	2.22
4- Mostly	10	22.22
5- Definitely	32	71.11
Total	45	100

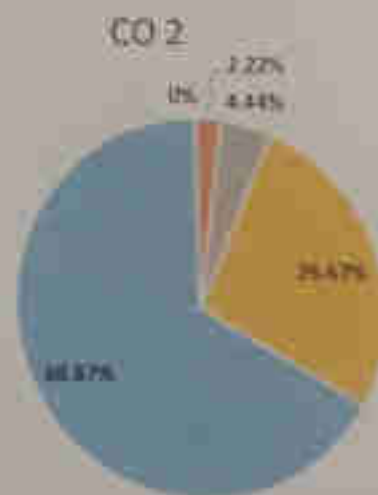
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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
2- Hardly	1	2.22
3- Moderately	2	4.44
4- Mostly	12	26.67
5- Definitely	30	66.67
Total	45	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

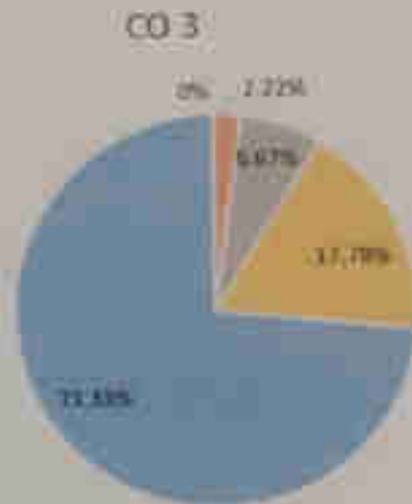
Subject – Prestressed Concrete

Subject Teacher – Prof. Shahbaz Khan

CO-3. Estimate the losses in prestress concrete

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	2.22
3- Moderately	3	6.67
4- Mostly	8	17.78
5- Definitely	33	73.33
Total	45	100

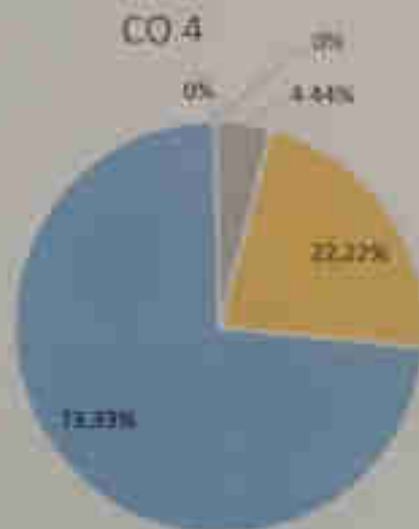
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	4.44
4- Mostly	10	22.22
5- Definitely	33	73.33
Total	45	100

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





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Department of Civil Engineering

Academic Year - 2022-2023

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
2- Hardly	1	2.22
3- Moderately	2	4.44
4- Mostly	10	22.22
5- Definitely	32	71.11
Total	45	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
2- Hardly	1	2.22
3- Moderately	1	2.22
4- Mostly	10	22.22
5- Definitely	33	73.33
Total	45	100

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

  
HOD  
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Principal  
SCOE



## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Solid Waste Management

Subject Teacher – Prof. Pramod Sutar

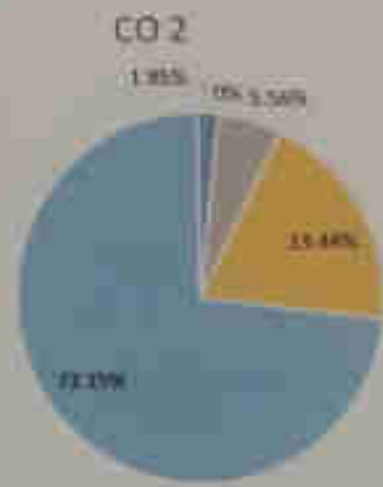
**CO.1. Read, understand and interpret technical and non-technical information which describe functional elements of solid waste management and its need.**

Score	No. of students	Percentage (%)	
1- Can't Say	1	0.93	<ul style="list-style-type: none"> <li>• 1. Can't Say</li> <li>• 2. Hardly</li> <li>• 3. Moderately</li> <li>• 4. Mostly</li> <li>• 5. Definitely</li> </ul>
2- Hardly	1	0.93	
3- Moderately	7	6.48	
4- Mostly	26	24.07	
5- Definitely	74	68.62	
<b>Total</b>	<b>108</b>	<b>100</b>	



**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	2	1.85	<ul style="list-style-type: none"> <li>• 1. Can't Say</li> <li>• 2. Hardly</li> <li>• 3. Moderately</li> <li>• 4. Mostly</li> <li>• 5. Definitely</li> </ul>
2- Hardly	0	0	
3- Moderately	6	5.56	
4- Mostly	21	19.44	
5- Definitely	79	73.15	
<b>Total</b>	<b>108</b>	<b>100</b>	

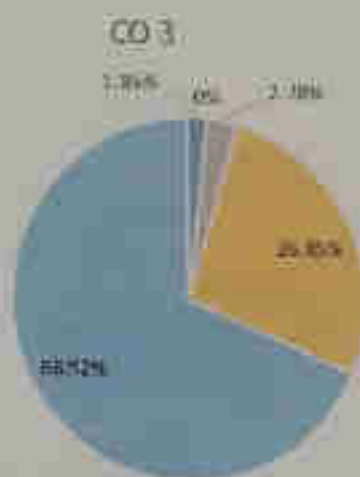




**CO.3. Compare and contrast alternative solution/methods to select the best techniques for waste processing and energy recovery**

Score	No. of students	Percentage (%)
1- Can't Say	2	1.85
2- Hardly	0	0
3- Moderately	3	2.78
4- Mostly	29	26.85
5- Definitely	74	68.52
Total	108	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	0.92
2- Hardly	1	0.93
3- Moderately	6	5.56
4- Mostly	27	25
5- Definitely	73	67.59
Total	108	100

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





SARASWATI College of Engineering

Swamy Viveka Ashram and Institutions  
Kengeri, Bangalore - 560072

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject - Solid Waste Management

Subject Teacher - Prof. Pramod Satish

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	0	0
2- Hardly	2	1.85
3- Moderately	3	2.78
4- Mostly	27	25
5- Definitely	76	70.37
Total	108	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	0.93
2- Hardly	1	0.93
3- Moderately	4	3.7
4- Mostly	29	26.85
5- Definitely	72	66.57
Total	108	100

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



HOD  
Civil Dept.

Principal  
SCOE





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

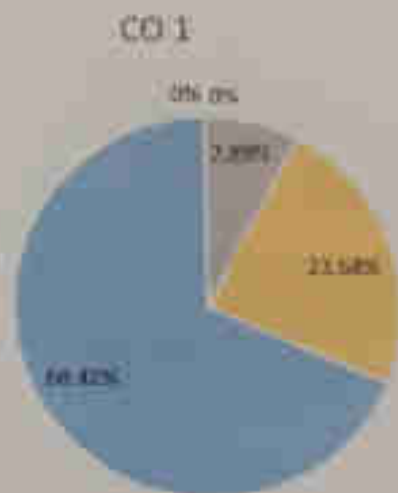
Subject – Green Building Construction

Subject Teacher – Prof. Aniket Sharma

CO.1. Explain environmental impact of buildings, discuss the concepts of sustainable development & green buildings and overview the features of green buildings

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	7.89
4- Mostly	9	23.68
5- Definitely	26	68.42
Total	38	100

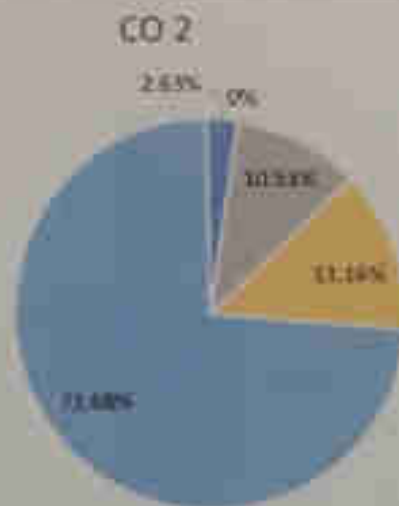
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Describe site selection, planning and designing of green buildings

Score	No. of students	Percentage (%)
1- Can't Say	1	2.63
2- Hardly	0	0
3- Moderately	4	10.53
4- Mostly	6	15.79
5- Definitely	27	70.95
Total	38	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

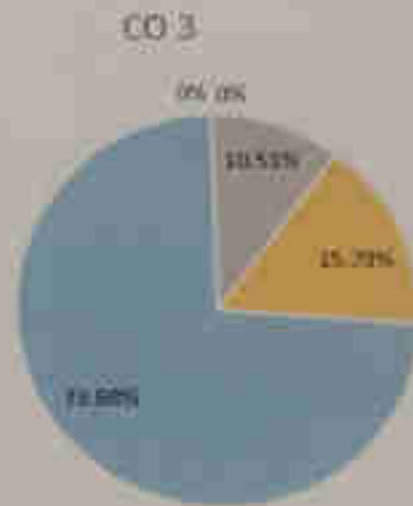
Subject – Green Building Construction

Subject Teacher – Prof. Aniket Sharma

CO.3. Explain water conservation and energy efficiency in green buildings

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	4	10.53
4- Mostly	6	15.79
5- Definitely	28	73.68
Total	38	100

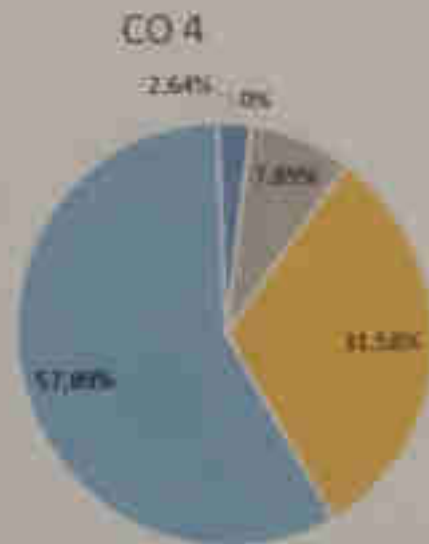
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Identify green building materials and indoor environmental quality

Score	No. of students	Percentage (%)
1- Can't Say	1	2.63
2- Hardly	0	0
3- Moderately	3	7.89
4- Mostly	12	31.58
5- Definitely	22	57.89
Total	38	100

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





UNIVERSITY Education Society's  
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 Mumbai, Maharashtra - 401310

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject – Green Building Construction

Subject Teacher – Prof. Aniket Sharma

CO-5: Apply green building rating systems		
Score	No. of students	Percentage (%)
1- Can't Say	1	2.63
2- Hardly	0	0
3- Moderately	5	13.16
4- Mostly	9	23.68
5- Definitely	23	59.53
Total	38	100

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

CO-6: Understand green audit and green retrofitting		
Score	No. of students	Percentage (%)
1- Can't Say	1	2.63
2- Hardly	0	0
3- Moderately	3	7.69
4- Mostly	9	23.68
5- Definitely	25	65.79
Total	38	100

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

HOD  
Civil Dept.

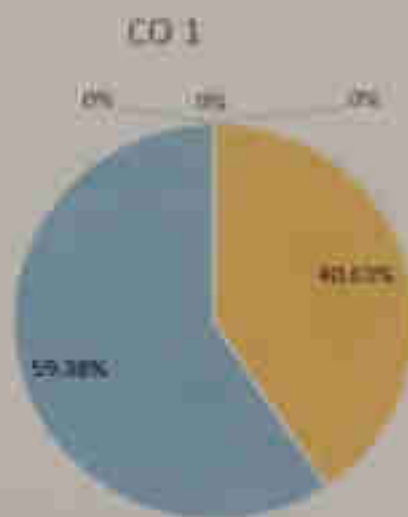
Principal  
SCOE



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	26	40.63
5- Definitely	38	59.38
Total	64	100

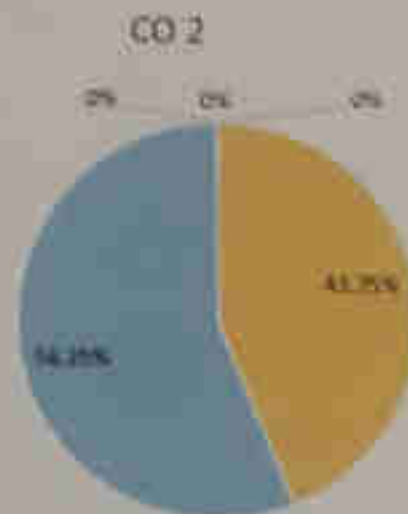
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	28	43.75
5- Definitely	36	56.25
Total	64	100

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





SARASWATI Education Society's  
**SARASWATI College of Engineering**

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Kampha Hill, Mumbai - 410 310

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

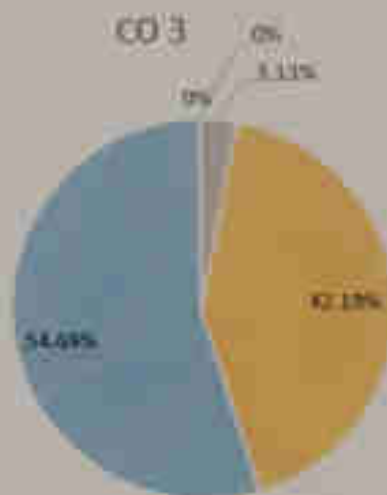
Subject – Legal Aspects in Construction

Subject Teacher – Prof. Arman Ansari

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	3.13
4- Mostly	27	42.19
5- Definitely	35	54.69
Total	64	100

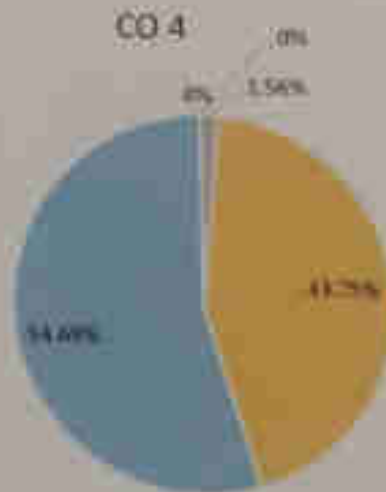
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	1.56
4- Mostly	28	43.75
5- Definitely	35	54.69
Total	64	100

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





SARASWATI College of Engineering

(WOMEN EMPOWERMENT AND ENTREPRENEURSHIP)

Manipal Road, Mysore - 570 015

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

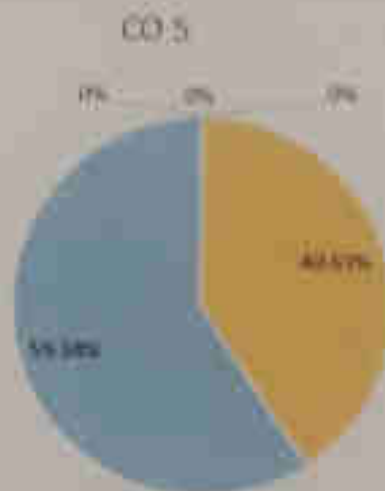
Subject – Legal Aspects in Construction

Subject Teacher – Prof. Arman Anand

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	26	40.63
5- Definitely	38	59.38
Total	64	100

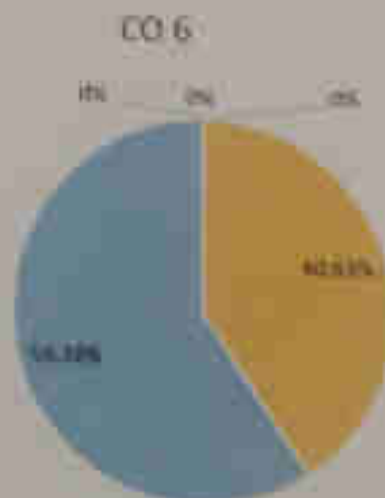
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	26	40.63
5- Definitely	38	59.38
Total	64	100

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



HOD  
Civil Dept.

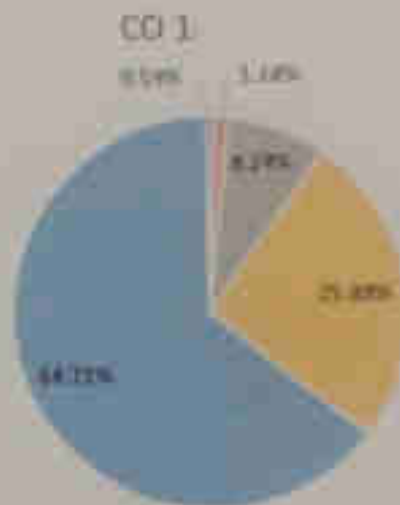
Principal  
SCOE



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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.60
2- Hardly	2	1.16
3- Moderately	14	8.24
4- Mostly	44	25.88
5- Definitely	110	64.71
Total	170	100

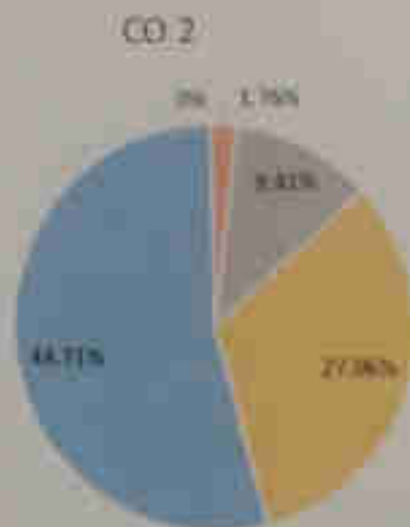
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	0	0
2- Hardly	3	1.76
3- Moderately	10	5.88
4- Mostly	40	23.53
5- Definitely	76	44.71
Total	170	100

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

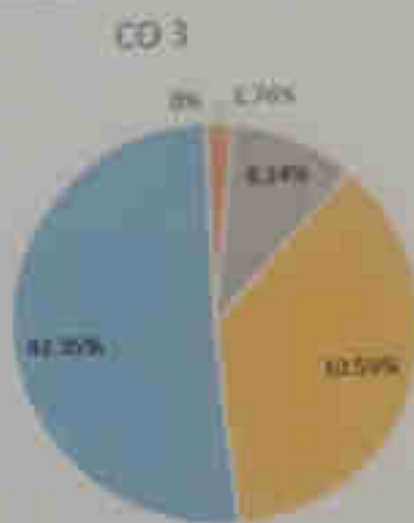




CO3. Determine and get acquainted with government policies, acts and various organizational structures associated with an emergency.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	1.76
3- Moderately	14	8.24
4- Mostly	62	36.59
5- Definitely	72	42.35
Total	170	100

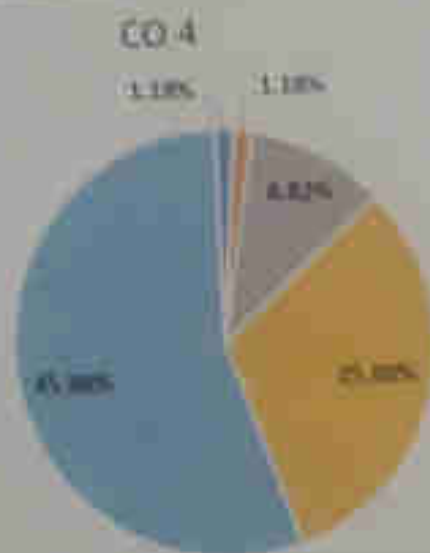
- + 1. Can't Say
- + 2. Hardly
- + 3. Moderately
- + 4. Mostly
- + 5. Definitely



CO4. To explain the institutional framework and GIS application in disaster management.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.18
2- Hardly	2	1.18
3- Moderately	16	9.41
4- Mostly	44	25.88
5- Definitely	78	45.88
Total	170	100

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







# SARASWATI College of Engineering

Saraswati Education Society  
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Waghale Yashwantrao Chavan  
Khadgaon Road, Pimpri - 411 004

Department of Civil Engineering

Academic Year : 2022-2023

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	2	1.18
2- Hardly	5	1.76
3- Moderately	16	9.41
4- Mostly	47	27.65
5- Definitely	73	42.94
Total	170	100

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

CO 5

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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.59
2- Hardly	5	2.94
3- Moderately	14	8.24
4- Mostly	46	27.06
5- Definitely	75	44.12
Total	170	100

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

CO 6

HOD  
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Principal  
SCOE



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Excellence in Education and Construction  
Kharajpur, New Mumbai - 410 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

Subject – Cyber Security & Law

Subject Teacher – Prof. Vaibhav Dhage

**CO.1. Understand the concept of cybercrime and its effect on outside world**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	4	10.26
4- Mostly	12	30.77
5- Definitely	25	68.97
Total	39	100

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

**CO 1**

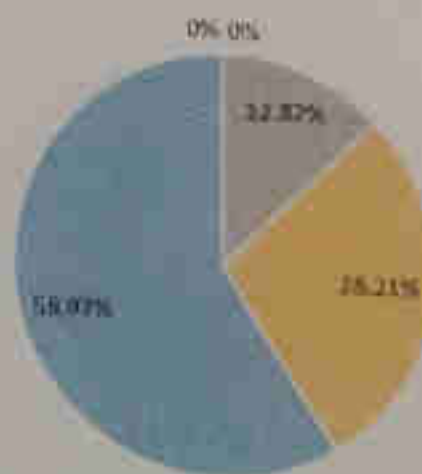


**CO.2. Interpret and apply IT law in various legal issues**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	5	12.82
4- Mostly	11	28.21
5- Definitely	23	58.97
Total	39	100

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

**CO 2**





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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VII)**

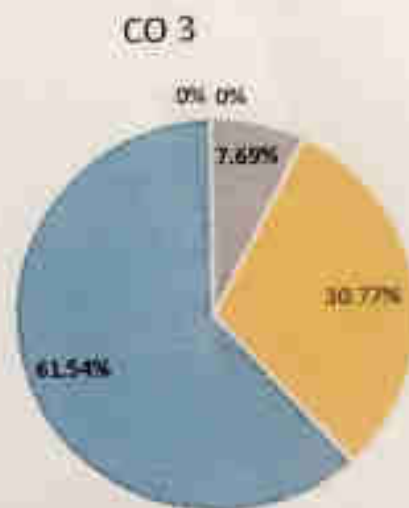
**Subject – Cyber Security & Law**

**Subject Teacher – Prof. Vaibhav Dhage**

**CO.3. Understand Tools and Methods Used in Cyberline**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	7.69
4- Mostly	12	30.77
5- Definitely	24	61.54
Total	39	100

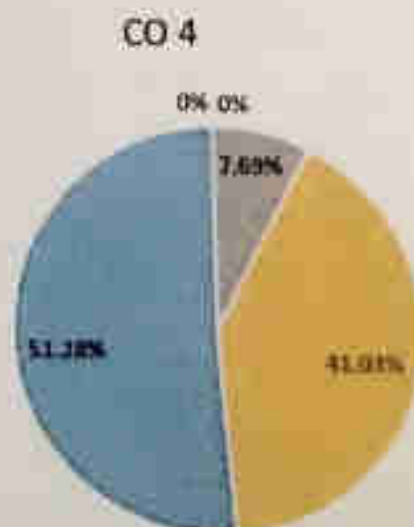
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.4. Distinguish different aspects of cyber law**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	7.69
4- Mostly	16	41.03
5- Definitely	20	51.28
Total	39	100

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





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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

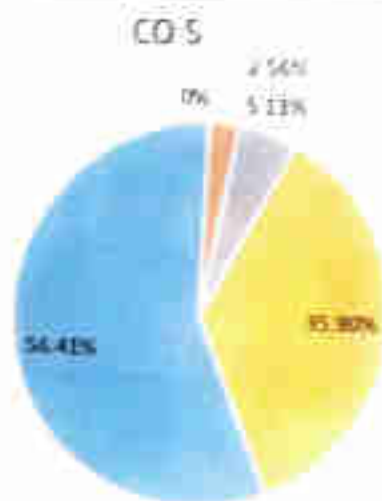
Subject – Cyber Security & Law

Subject Teacher – Prof. Vaibhav Dhage

## CO.5. Explore Indian IT Act

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	2.56
3- Moderately	2	5.13
4- Mostly	14	35.90
5- Definitely	22	56.41
Total	39	100

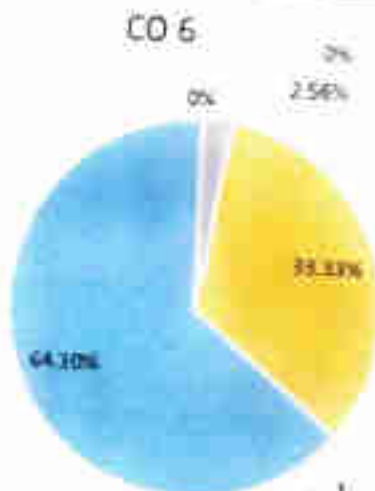
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



## CO.6. Understand & Apply Information Security Standards compliance during software design and development.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	2.56
4- Mostly	13	33.33
5- Definitely	25	64.10
Total	39	100

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



HOD  
Civil Dept.

Principal  
SCOE



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

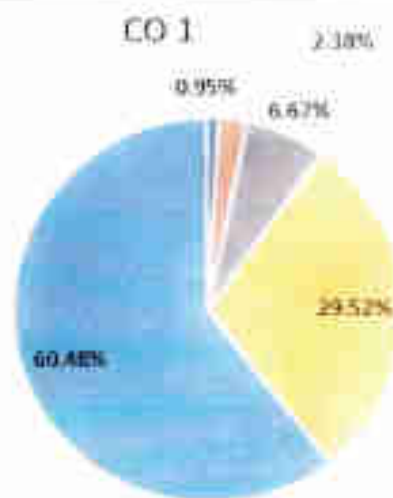
Subject – Project Stage- I

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	0.95
2- Hardly	5	2.38
3- Moderately	14	6.67
4- Mostly	62	29.52
5- Definitely	127	60.48
Total	210	100

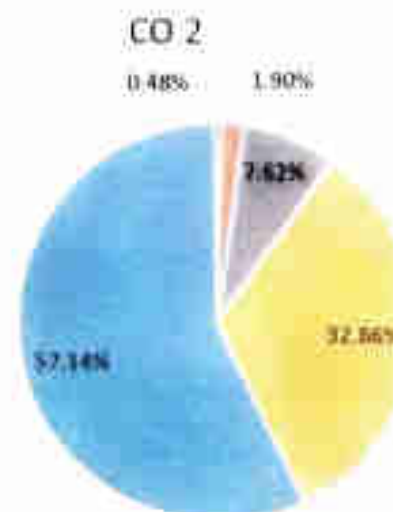
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	1	0.48
2- Hardly	4	1.90
3- Moderately	16	7.62
4- Mostly	69	32.86
5- Definitely	120	57.14
Total	210	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-VII)

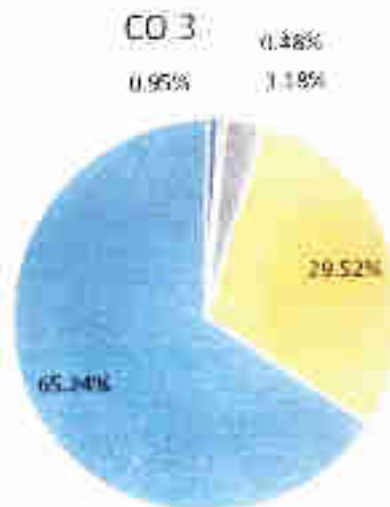
Subject – Project Stage- I

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	2	0.95
2- Hardly	1	0.48
3- Moderately	8	3.18
4- Mostly	62	29.52
5- Definitely	137	65.24
Total	210	100

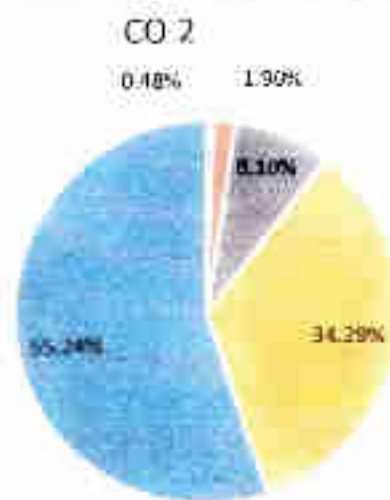
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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	1	0.48
2- Hardly	4	1.90
3- Moderately	17	8.10
4- Mostly	72	34.29
5- Definitely	116	55.24
Total	210	100

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





**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-VII)**

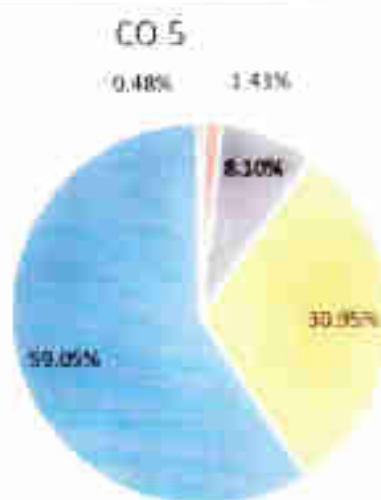
**Subject – Project Stage- I**

**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	1	0.48
2- Hardly	3	1.43
3- Moderately	17	8.10
4- Mostly	65	30.95
5- Definitely	124	59.05
Total	210	100

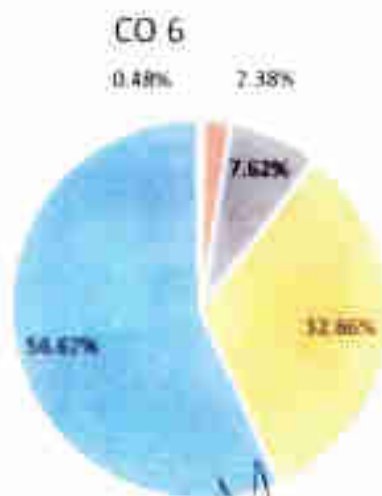
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	1	0.48
2- Hardly	5	2.38
3- Moderately	16	7.62
4- Mostly	69	32.86
5- Definitely	119	56.67
Total	210	100

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



HOD  
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Principal  
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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

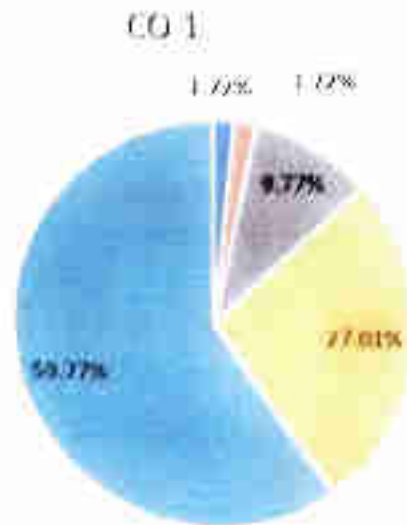
Subject – Geotechnical Engineering-I (LAB)

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

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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	3	1.72
3- Moderately	17	9.77
4- Mostly	47	27.01
5- Definitely	104	59.77
Total	174	100

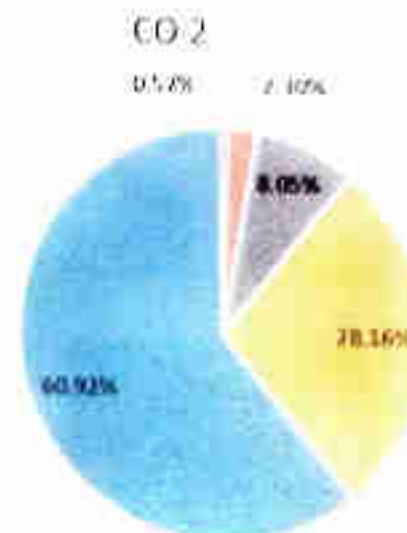
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Examine the plasticity characteristics of soil

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	4	2.30
3- Moderately	14	8.05
4- Mostly	49	28.18
5- Definitely	106	60.92
Total	174	100

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







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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

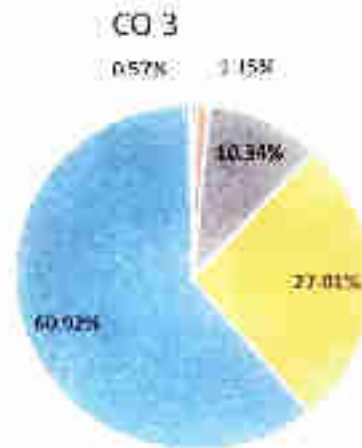
Subject – Geotechnical Engineering-I (LAB)

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

**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	0.57
2- Hardly	2	2.30
3- Moderately	18	8.05
4- Mostly	47	28.16
5- Definitely	106	60.92
Total	174	100

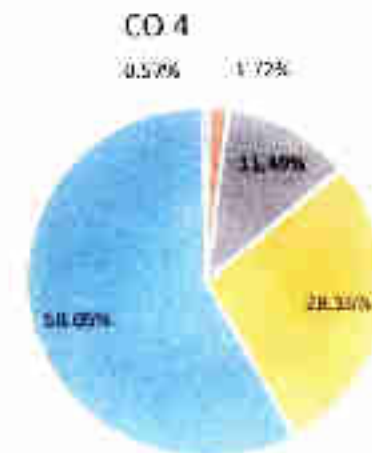
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.4. Illustrate coefficient of permeability of soils**

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	3	1.72
3- Moderately	20	11.49
4- Mostly	49	28.16
5- Definitely	101	58.05
Total	174	100

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





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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

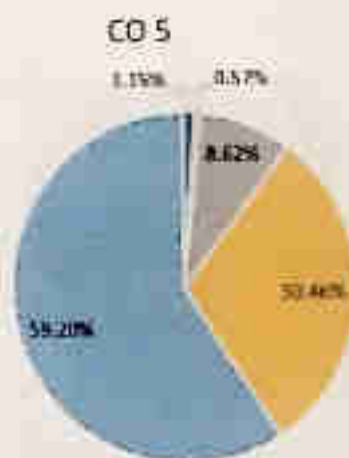
Subject – Geotechnical Engineering-I (LAB)

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

CO-5. Evaluate the compaction characteristics of soils.

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	1	0.57
3- Moderately	15	8.62
4- Mostly	53	30.46
5- Definitely	103	59.20
Total	174	100

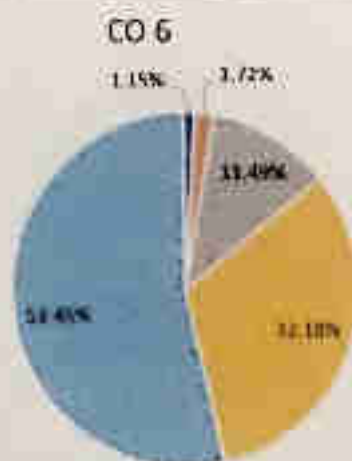
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	3	1.72
3- Moderately	20	11.49
4- Mostly	56	32.18
5- Definitely	93	53.45
Total	174	100

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



HOD  
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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

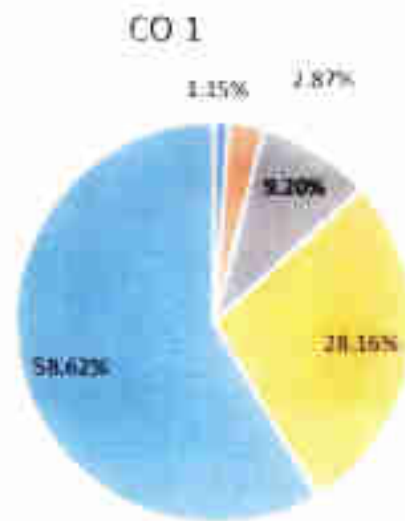
Subject – Transportation Engineering (LAB)

Subject Teacher – Prof. Manoj Pillai/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	5	2.87
3- Moderately	16	9.20
4- Mostly	49	28.16
5- Definitely	102	58.62
Total	174	100

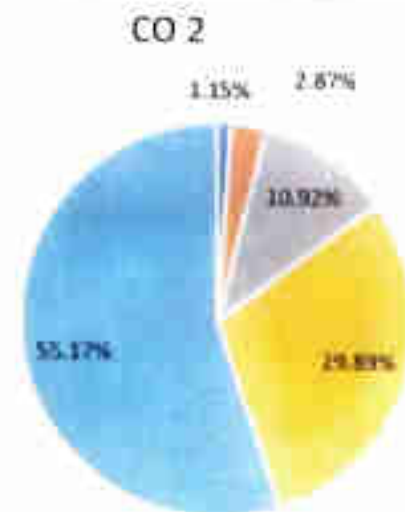
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	5	2.87
3- Moderately	19	10.92
4- Mostly	52	29.89
5- Definitely	96	55.17
Total	174	100

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





# SARASWATI College of Engineering

Green Zone Software and Infrastructure  
Kengeri, New Mysore - 560 075

Department of Civil Engineering

Academic Year - 2022-2023

Course Exit Report Analysis (SEM-V)

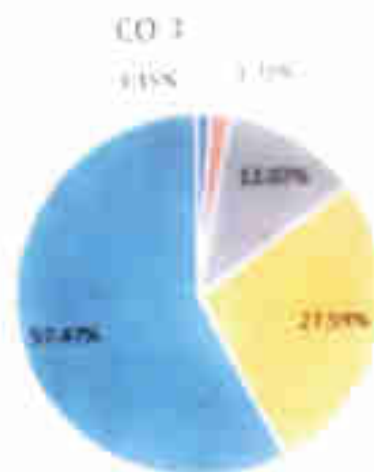
Subject - Transportation Engineering (I, AB)

Subject Teacher - Prof. Manoj Pillai/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

### 4.11.3 Determine suitability of aggregate on basis of Impact value, Abrasion value and crushing value

Score	No. of students	Percentage (%)
1. Can't Say	2	1.15
2. Hardly	2	1.12
3. Moderately	21	12.07
4. Mostly	48	27.59
5. Definitely	100	57.47
<b>Total</b>	<b>174</b>	<b>100</b>

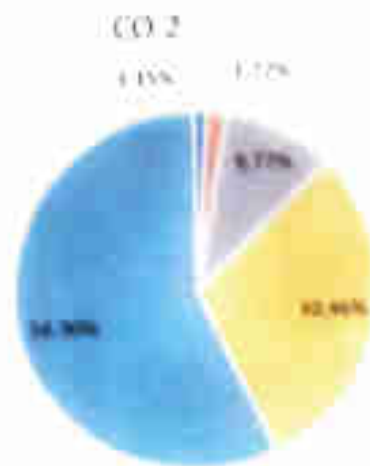
- + 1. Can't Say
- + 2. Hardly
- + 3. Moderately
- + 4. Mostly
- + 5. Definitely



### 4.11.4 Distinguish Elongated and Flaky aggregate on basis of Shape test

Score	No. of students	Percentage (%)
1. Can't Say	2	1.15
2. Hardly	2	1.12
3. Moderately	21	12.07
4. Mostly	53	30.46
5. Definitely	96	55.20
<b>Total</b>	<b>174</b>	<b>100</b>

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





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

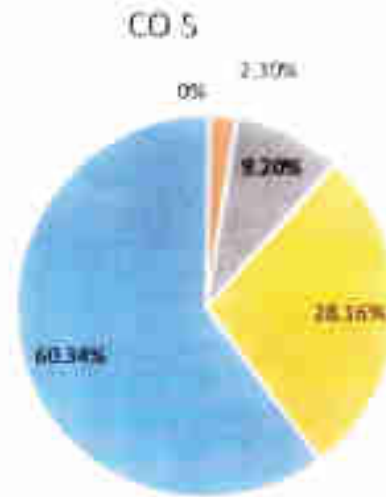
Subject – Transportation Engineering (LAB)

Subject Teacher – Prof. Manoj Pillai/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	4	2.30
3- Moderately	16	9.20
4- Mostly	49	28.16
5- Definitely	105	60.34
Total	174	100

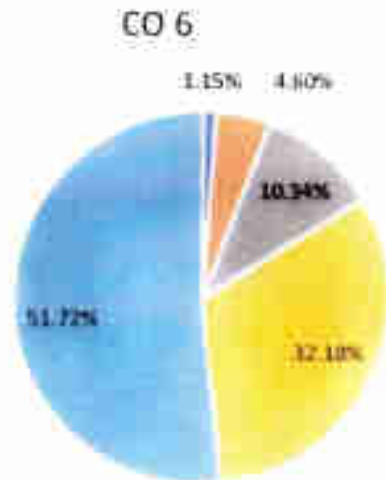
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	8	4.60
3- Moderately	18	10.34
4- Mostly	56	32.18
5- Definitely	90	51.72
Total	174	100

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



  
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 SCOE



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

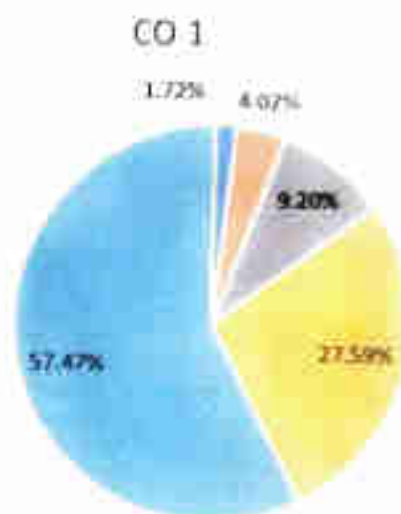
Subject – Professional Communication and Ethics

Subject Teacher – Prof. Sima Singh

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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	7	4.02
3- Moderately	16	9.20
4- Mostly	48	27.59
5- Definitely	100	57.47
Total	174	100

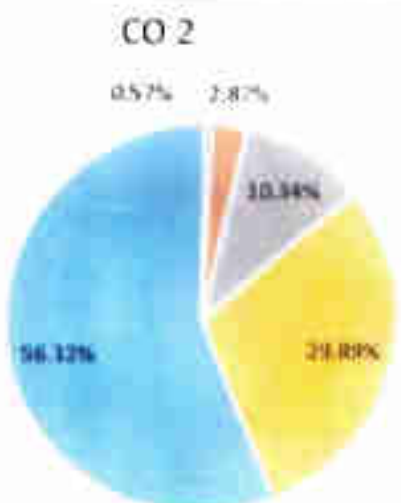
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	5	2.87
3- Moderately	18	10.34
4- Mostly	62	29.89
5- Definitely	98	56.32
Total	174	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

### Course Exit Report Analysis (SEM-V)

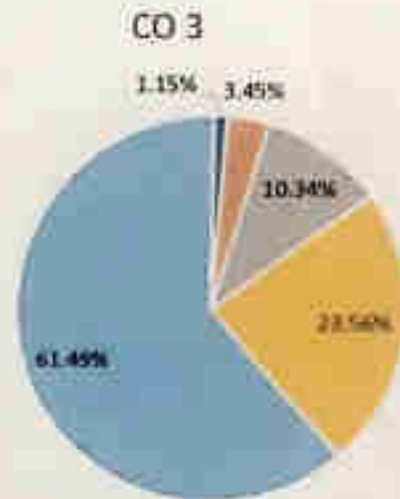
Subject – Professional Communication and Ethics

Subject Teacher – Prof. Sima Singh

**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	1.15
2- Hardly	6	3.45
3- Moderately	18	10.34
4- Mostly	41	23.56
5- Definitely	107	61.48
Total	174	100

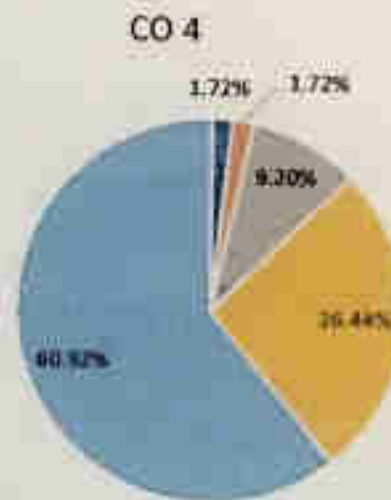
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.4. Develop creative and impactful presentation skills**

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	3	1.72
3- Moderately	16	9.20
4- Mostly	46	26.44
5- Definitely	106	60.92
Total	174	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

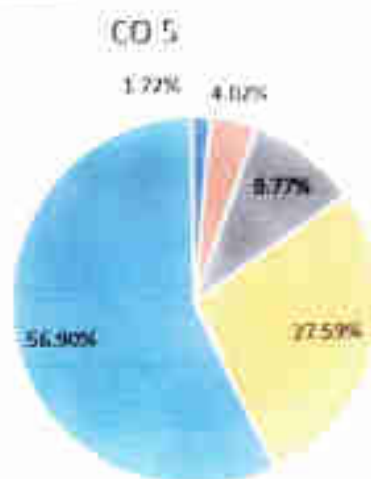
Subject – Professional Communication and Ethics

Subject Teacher – Prof. Sima Singh

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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	7	4.02
3- Moderately	17	9.77
4- Mostly	48	27.59
5- Definitely	99	56.90
Total	174	100

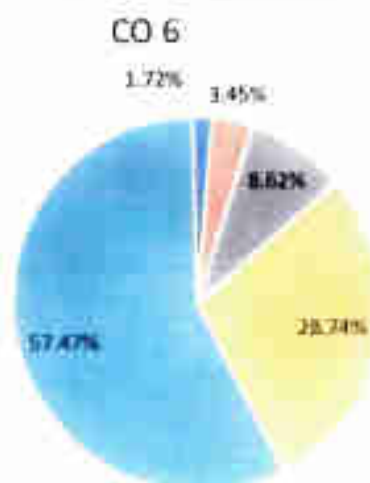
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	6	3.45
3- Moderately	15	8.62
4- Mostly	50	28.74
5- Definitely	100	57.47
Total	174	100

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



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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

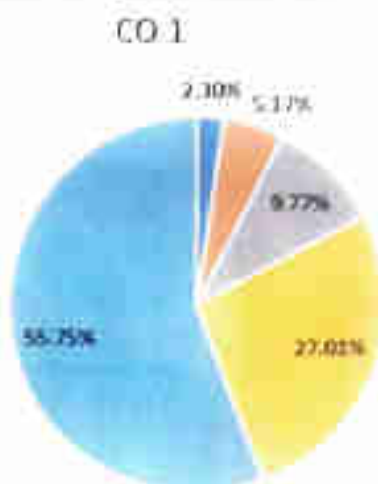
Subject – Mini Project-2A

Subject Teacher – Prof. Yugandhara Kasture

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

Score	No. of students	Percentage (%)
1- Can't Say	4	2.30
2- Hardly	9	5.17
3- Moderately	17	9.77
4- Mostly	47	27.01
5- Definitely	97	55.75
Total	174	100

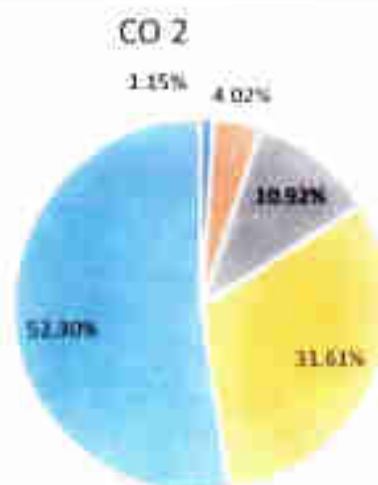
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	7	4.02
3- Moderately	19	10.92
4- Mostly	55	31.61
5- Definitely	91	52.30
Total	174	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

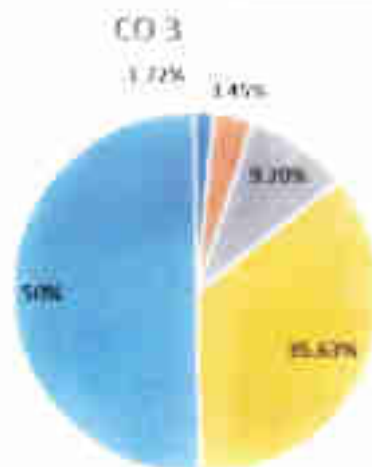
Subject – Mini Project-2A

Subject Teacher – Prof. Yugandhara Kasture

**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	3	1.72
2- Hardly	6	3.45
3- Moderately	16	9.20
4- Mostly	62	35.63
5- Definitely	87	50
Total	174	100

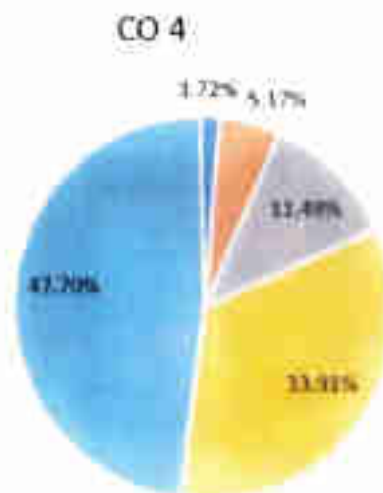
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	3	1.72
2- Hardly	9	5.17
3- Moderately	20	11.49
4- Mostly	59	33.91
5- Definitely	83	47.70
Total	174	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

### Course Exit Report Analysis (SEM-V)

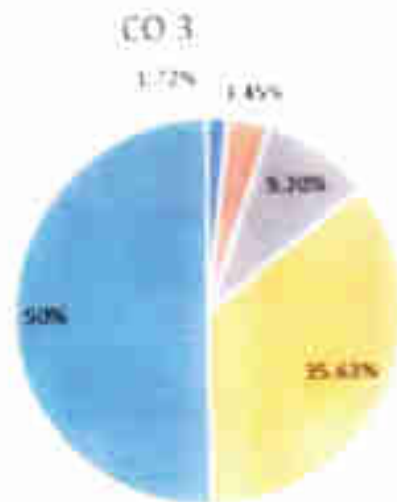
Subject – Mini Project-2A

Subject Teacher – Prof. Yugandhara Kasture

**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	3	1.72
2- Hardly	6	3.45
3- Moderately	16	9.20
4- Mostly	62	35.63
5- Definitely	87	50
Total	174	100

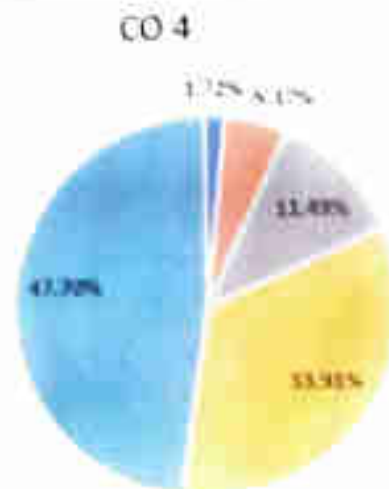
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**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	3	1.72
2- Hardly	9	5.17
3- Moderately	27	11.49
4- Mostly	59	33.91
5- Definitely	83	47.70
Total	174	100

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





**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-V)**

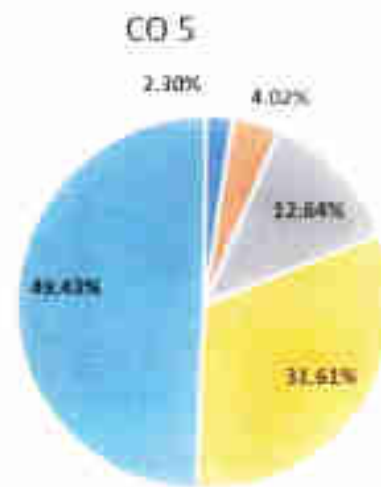
**Subject – Mini Project-2A**

**Subject Teacher – Prof. Yugandhara Kasture**

**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	4	2.30
2- Hardly	7	4.02
3- Moderately	22	12.64
4- Mostly	55	31.61
5- Definitely	86	49.43
Total	174	100

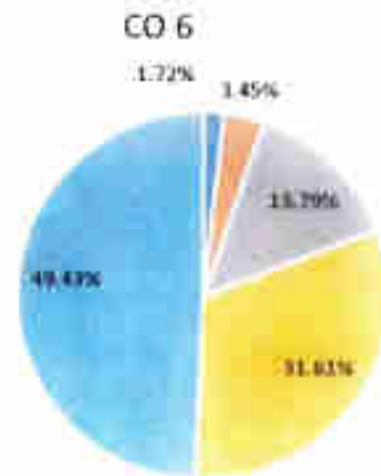
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	6	3.45
3- Moderately	24	13.79
4- Mostly	55	31.61
5- Definitely	86	49.43
Total	174	100

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



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**Civil Dept.**

**Principal**  
**SCOE**



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

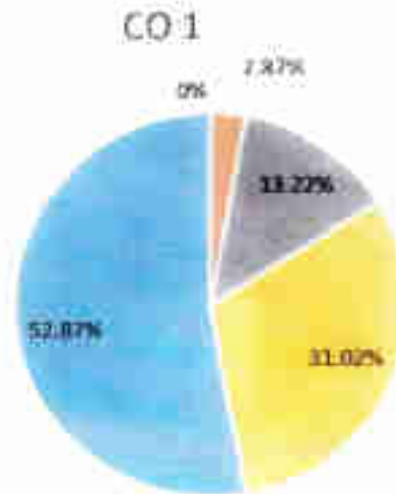
Subject – Theory of Reinforced Concrete Structure

Subject Teacher – Prof. D.M. Joshi/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Nilima Shende

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	5	2.87
3- Moderately	23	13.22
4- Mostly	64	31.02
5- Definitely	92	52.87
Total	174	100

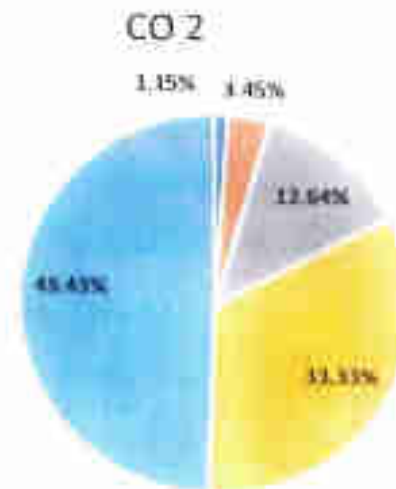
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	2	1.15
2- Hardly	5	3.45
3- Moderately	22	12.64
4- Mostly	58	33.33
5- Definitely	86	49.43
Total	174	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

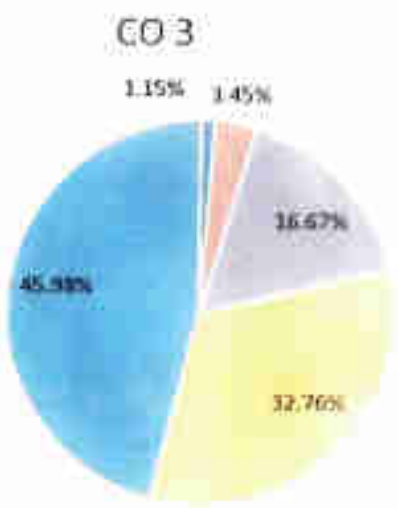
Subject – Theory of Reinforced Concrete Structure

Subject Teacher – Prof. D.M. Joshi/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Nilima Shende

**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	2	1.15
2- Hardly	6	3.45
3- Moderately	29	16.67
4- Mostly	57	32.76
5- Definitely	80	45.98
Total	174	100

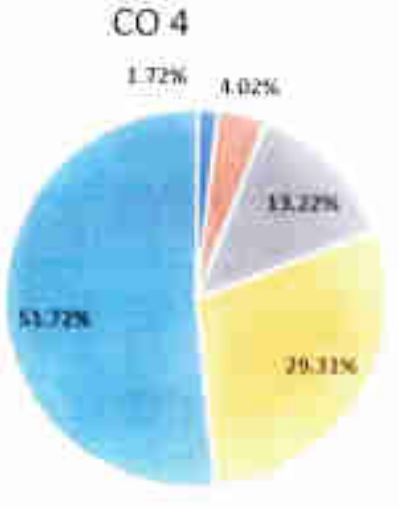
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	7	4.02
3- Moderately	23	13.22
4- Mostly	51	29.31
5- Definitely	90	51.72
Total	174	100

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





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Waghare Road, Mumbai - 410 210

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

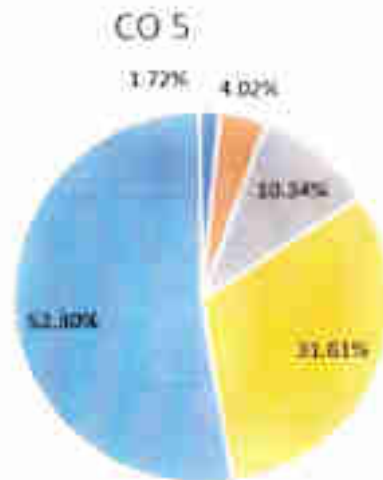
Subject – Theory of Reinforced Concrete Structure

Subject Teacher – Prof. D.M. Joshi/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Nilima Shende

**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	3	1.72
2- Hardly	7	4.02
3- Moderately	18	10.34
4- Mostly	55	31.81
5- Definitely	91	52.30
Total	174	100

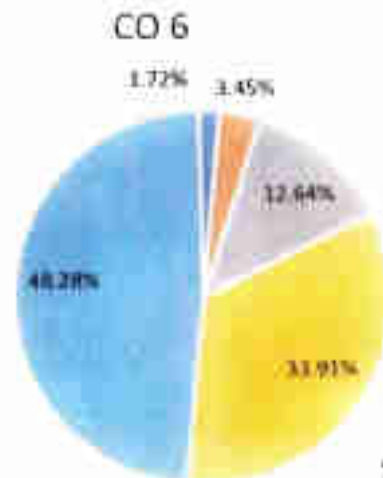
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




**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	3	1.72
2- Hardly	6	3.45
3- Moderately	22	12.64
4- Mostly	59	33.91
5- Definitely	84	48.28
Total	174	100

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



  
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Civil Dept.

  
Principal  
SCOE



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

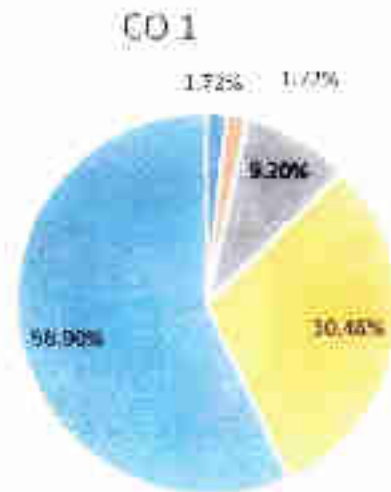
Subject – Applied Hydraulics

Subject Teacher – Prof. Hemant Sarje/ Prof. Ashwini Bodkhe/ Prof. Pooja Sumari

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	3	1.72
2- Hardly	3	1.72
3- Moderately	16	9.20
4- Mostly	53	30.46
5- Definitely	99	56.90
Total	174	100

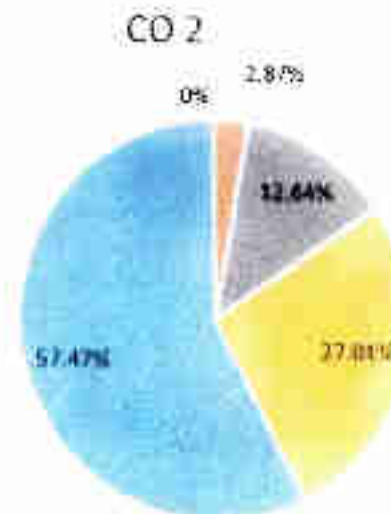
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	5	2.87
3- Moderately	22	12.64
4- Mostly	47	27.01
5- Definitely	100	57.47
Total	174	100

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







Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

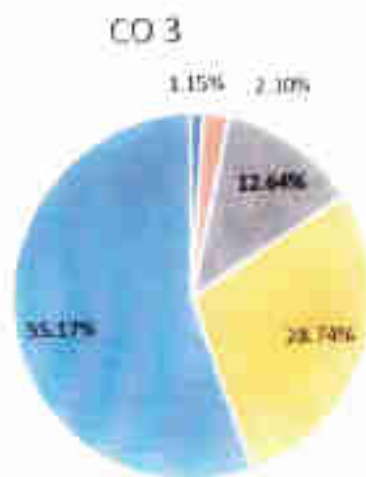
Subject – Applied Hydraulics

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

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	4	2.30
3- Moderately	22	12.64
4- Mostly	50	28.74
5- Definitely	96	55.17
Total	174	100

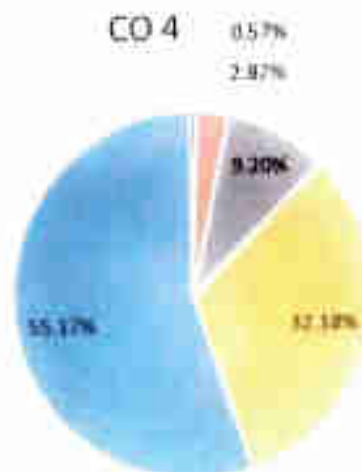
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	5	2.87
3- Moderately	15	9.20
4- Mostly	56	32.18
5- Definitely	96	55.17
Total	174	100

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

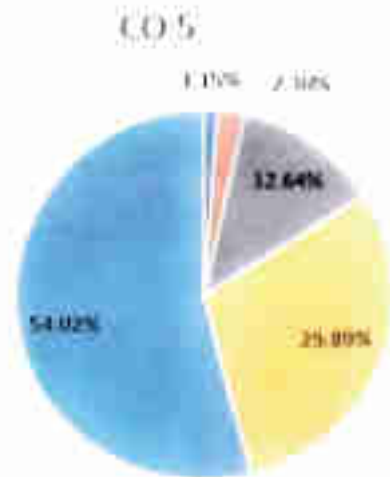




CO.5. Identify the hydraulic behaviour of open channel flow and design the most economical section of channels

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	4	2.30
3- Moderately	22	12.64
4- Mostly	52	29.89
5- Definitely	94	54.02
Total	174	100

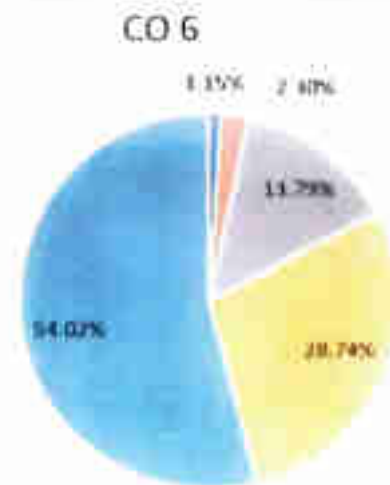
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	2	1.15
2- Hardly	4	2.30
3- Moderately	24	13.79
4- Mostly	50	28.74
5- Definitely	94	54.02
Total	174	100

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



  
**HOD**  
 Civil Dept.

  
**Principal**  
 SCE



SARASWATI College of Engineering

Donor's Dream, Achiever's Goal, Institute's Pride

Wingate New Number - 810 310

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

Subject – Geotechnical Engineering-1

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai/ 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	0.57
2- Hardly	3	1.72
3- Moderately	15	8.62
4- Mostly	59	33.91
5- Definitely	96	55.17
Total	174	100

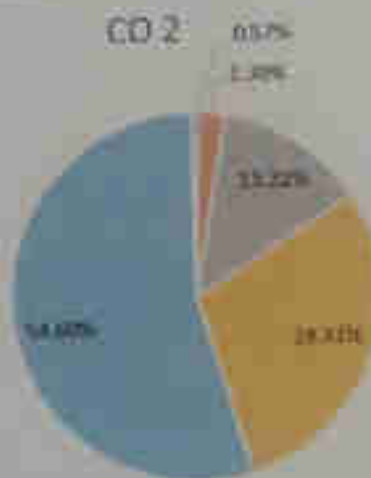
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	4	2.30
3- Moderately	23	13.22
4- Mostly	51	29.31
5- Definitely	95	54.60
Total	174	100

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

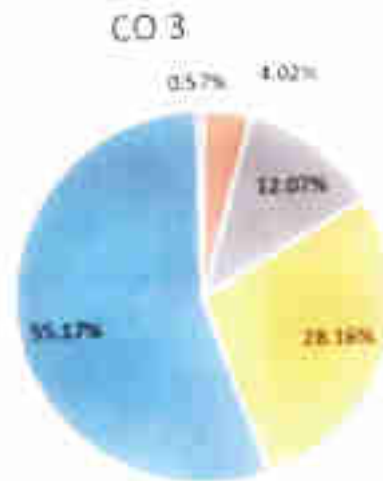




CO.3. Classify the soil as per IS code.

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	7	4.02
3- Moderately	21	12.07
4- Mostly	49	28.16
5- Definitely	96	55.17
Total	174	100

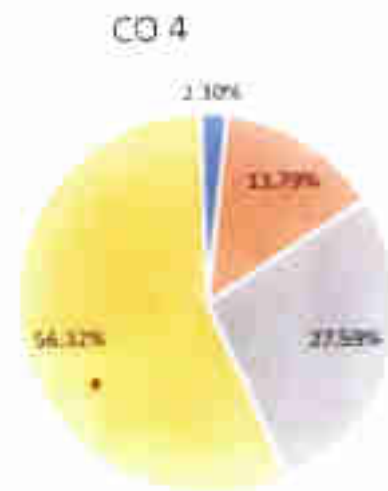
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



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	0	0
2- Hardly	4	2.30
3- Moderately	24	13.79
4- Mostly	48	27.59
5- Definitely	98	56.32
Total	174	100

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





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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

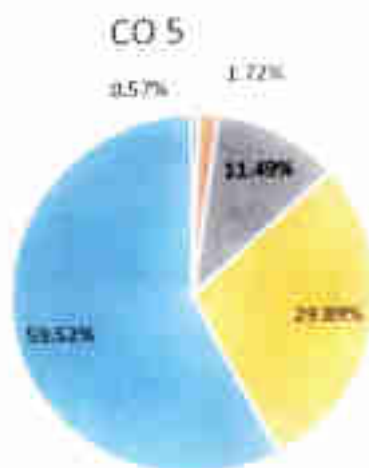
Subject – Geotechnical Engineering-I

Subject Teacher – Prof. Yugandhara Kasture/ Prof. Manoj Pillai/ 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	0.57
2- Hardly	3	1.72
3- Moderately	20	11.49
4- Mostly	52	29.89
5- Definitely	98	56.32
Total	174	100

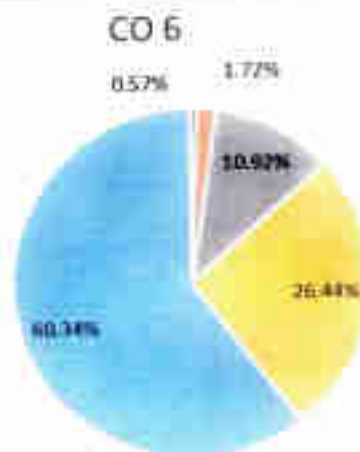
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	0.57
2- Hardly	3	1.72
3- Moderately	19	10.92
4- Mostly	46	26.44
5- Definitely	105	60.34
Total	174	100

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



  
HOD  
Civil Dept.

  
Principal  
SCOE



## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

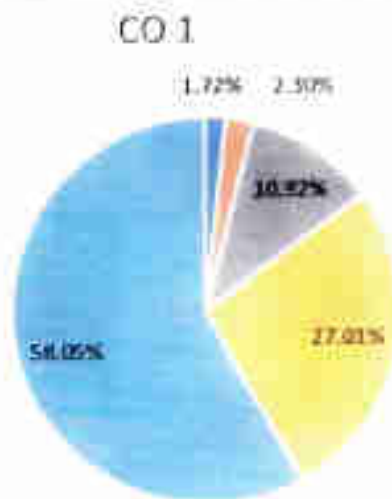
Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Anjali D'sa/ 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	3	1.72
2- Hardly	4	2.30
3- Moderately	19	10.92
4- Mostly	47	27.01
5- Definitely	101	58.05
<b>Total</b>	<b>174</b>	<b>100</b>

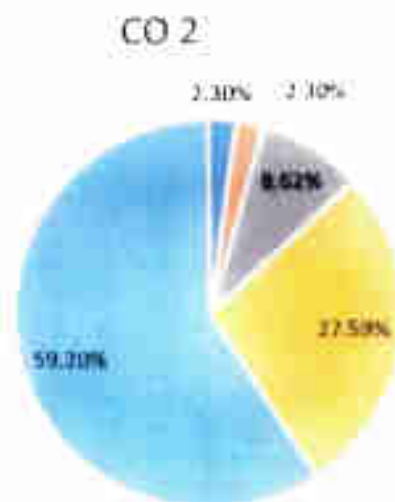
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	4	2.30
2- Hardly	4	2.30
3- Moderately	15	8.62
4- Mostly	48	27.59
5- Definitely	103	59.20
<b>Total</b>	<b>174</b>	<b>100</b>

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

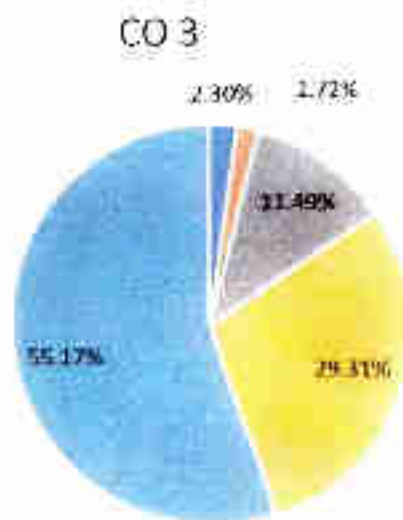
Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Anjali D'sa/ 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	4	2.30
2- Hardly	3	1.72
3- Moderately	20	11.49
4- Mostly	51	29.31
5- Definitely	96	55.17
Total	174	100

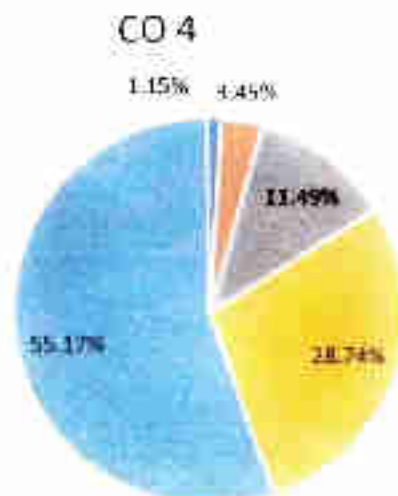
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	2	1.15
2- Hardly	6	3.45
3- Moderately	20	11.49
4- Mostly	50	28.74
5- Definitely	96	55.17
Total	174	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

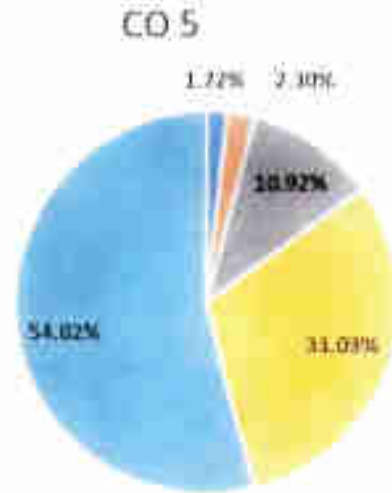
Subject – Transportation Engineering

Subject Teacher – Prof. Manoj Pillai/ Prof. Anjali D'sa/ 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	3	1.72
2- Hardly	4	2.30
3- Moderately	19	10.92
4- Mostly	54	31.03
5- Definitely	94	54.02
Total	174	100

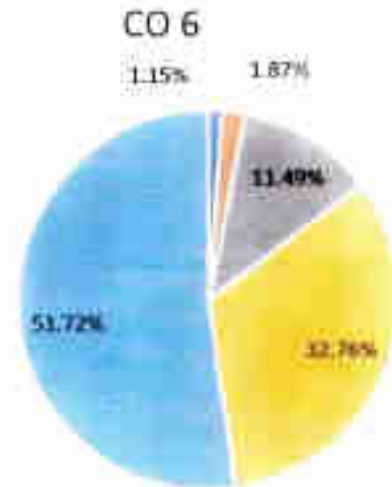
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	5	1.87
3- Moderately	20	11.49
4- Mostly	57	32.76
5- Definitely	90	51.72
Total	174	100

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



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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

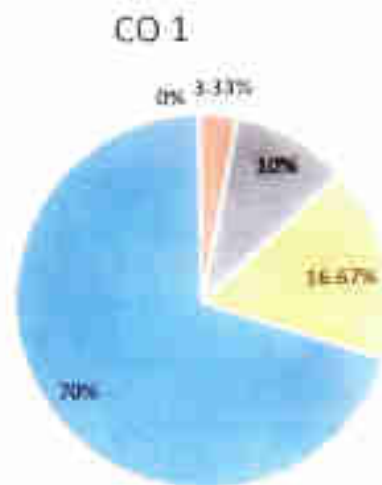
Subject – Air and Noise Pollution and Control

Subject Teacher – Dr. Saumya Singh

CO.1. Apply fundamental engineering concepts to gain the knowledge of Air pollutants and its classification, sources of generation, Emission Inventory & Indoor air pollution, Identify, assemble and evaluate information and resources of Air Quality Index and Numerical on conversion of units of pollutants

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	3.33
3- Moderately	3	10
4- Mostly	5	16.67
5- Definitely	21	70
Total	30	100

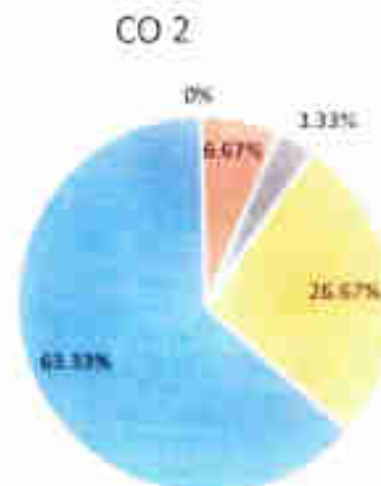
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.2. Apply fundamental engineering concepts to explain and analyse the effects of air pollutants on human beings, plants, animals, properties and visibility. Exposure to air pollution. - Apply formal idea generation tools to solve numerical problems based on COH, CoHh

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	6.67
3- Moderately	1	3.33
4- Mostly	8	26.67
5- Definitely	19	63.33
Total	30	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

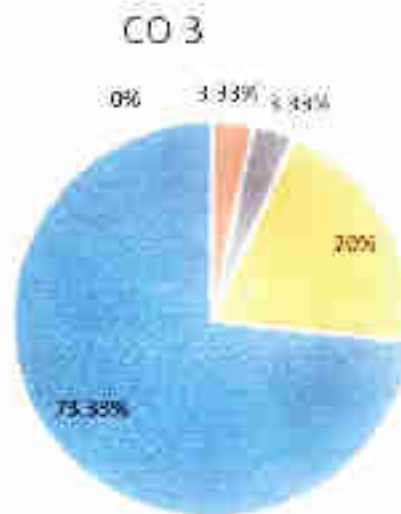
Subject – Air and Noise Pollution and Control

Subject Teacher – Dr. Saumya Singh

### CO.3. Apply formal idea generation tools to learn how to measure and Control technology of Air Pollutants

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	3.33
3- Moderately	1	3.33
4- Mostly	6	20
5- Definitely	22	73.33
Total	30	100

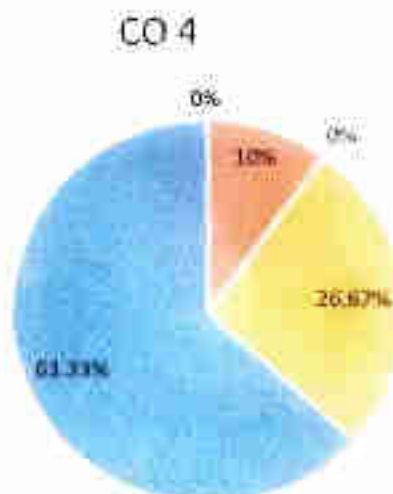
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



### CO.4. Identify and apply modern engineering tools to study meteorological process and air quality monitoring

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	10
3- Moderately	0	0
4- Mostly	6	20.00
5- Definitely	19	63.33
Total	30	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

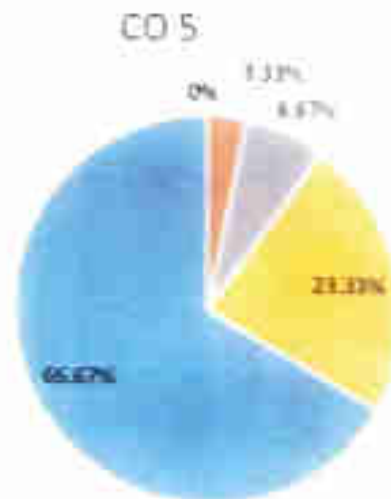
Subject – Air and Noise Pollution and Control

Subject Teacher – Dr. Saumya Singh

### CO.5. Apply fundamental engineering concepts to learn and explain Current Issues on Air Pollution

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	3.33
3- Moderately	2	6.67
4- Mostly	7	23.33
5- Definitely	20	66.67
Total	30	100

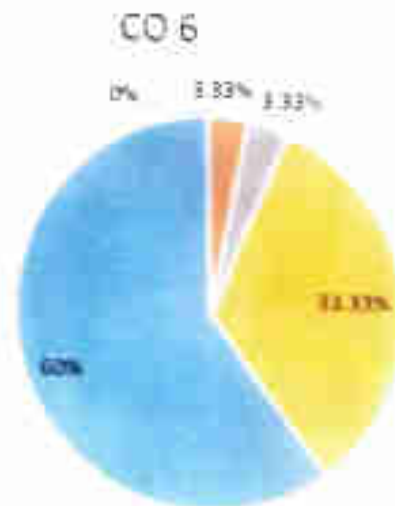
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



### CO.6. Apply fundamental engineering concepts to learn and explain Noise Pollution

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	3.33
3- Moderately	1	3.33
4- Mostly	10	33.33
5- Definitely	18	60
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 : 2022-2023

Course Exit Report Analysis (SEM-V)

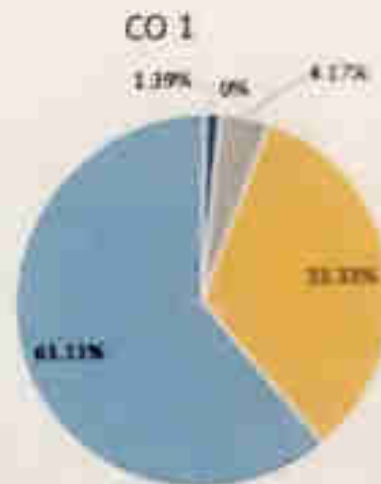
Subject – Advanced Concrete Technology

Subject Teacher – Dr. Raji/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

**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	1.39
2- Hardly	0	0
3- Moderately	3	4.17
4- Mostly	24	33.33
5- Definitely	44	61.11
Total	72	100

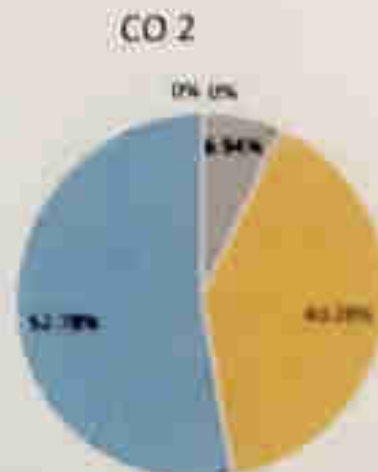
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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
2- Hardly	0	0
3- Moderately	5	6.94
4- Mostly	29	40.28
5- Definitely	38	52.78
Total	72	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

### Course Exit Report Analysis (SEM-V)

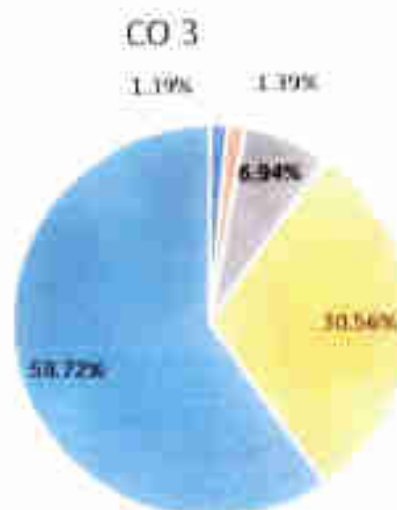
Subject – Advanced Concrete Technology

Subject Teacher – Dr. Raji/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

**CO.3. Understand the concept of durability and cracking in concrete, also understand the significance and 5 parameters of concreting under extreme environment and conditions.**

Score	No. of students	Percentage (%)
1- Can't Say	1	1.39
2- Hardly	1	1.39
3- Moderately	5	6.94
4- Mostly	22	30.56
5- Definitely	43	59.72
Total	72	100

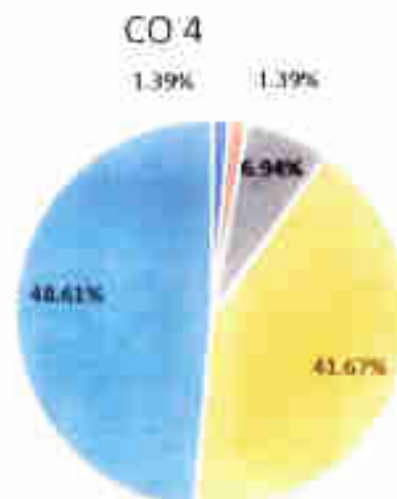
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	1.39
2- Hardly	1	1.39
3- Moderately	5	6.94
4- Mostly	30	41.67
5- Definitely	35	48.61
Total	72	100

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





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Waghodia Road, Morbi - 395 010

Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

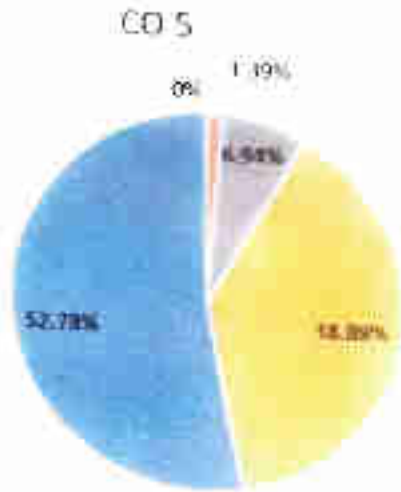
Subject – Advanced Concrete Technology

Subject Teacher – Dr. Raji/ Prof. Anjali D'sa/ Prof. Pallavi Tajane

CO-5. Describe the various properties of special concrete.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1.39
3- Moderately	5	6.94
4- Mostly	28	38.89
5- Definitely	38	52.78
Total	72	100

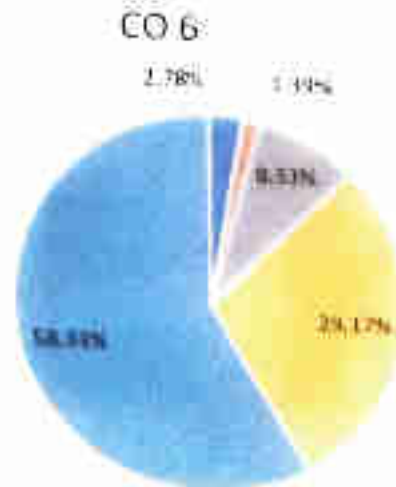
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	2.78
2- Hardly	1	1.39
3- Moderately	6	8.33
4- Mostly	21	29.17
5- Definitely	42	58.33
Total	72	100

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



  
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 Civil Dept.

  
**Principal**  
 SCOE



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Kharjapur, Pin-Number: 410 210

**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-V)**

**Subject – Building Services and Repairs**

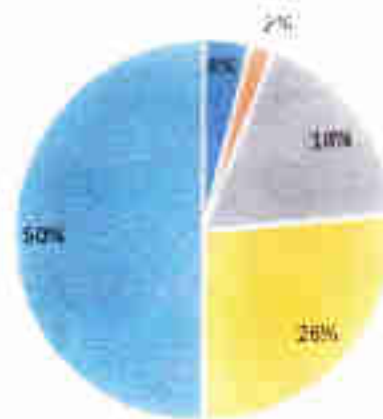
**Subject Teacher – Prof. Shanthi Selvam**

**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	2	4
2- Hardly	1	2
3- Moderately	9	18
4- Mostly	13	26
5- Definitely	25	50
Total	50	100

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

CO 1

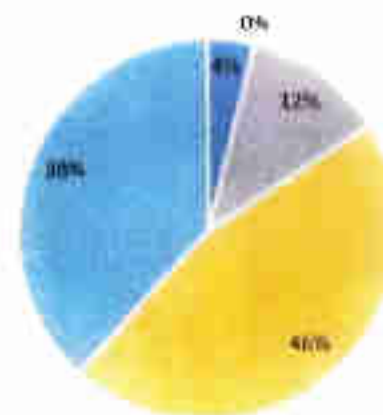


**CO.2. Illustrate the functioning of plumbing system and fire safety system in buildings**

Score	No. of students	Percentage (%)
1- Can't Say	2	4
2- Hardly	0	0
3- Moderately	6	12
4- Mostly	20	40
5- Definitely	19	38
Total	50	100

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

CO 2





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

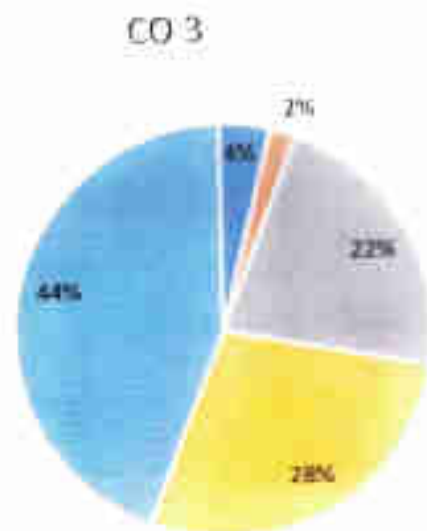
Subject – Building Services and Repairs

Subject Teacher – Prof. Shanthi Selvam

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

Score	No. of students	Percentage (%)
1- Can't Say	2	4
2- Hardly	1	2
3- Moderately	11	22
4- Mostly	14	28
5- Definitely	22	44
Total	50	100

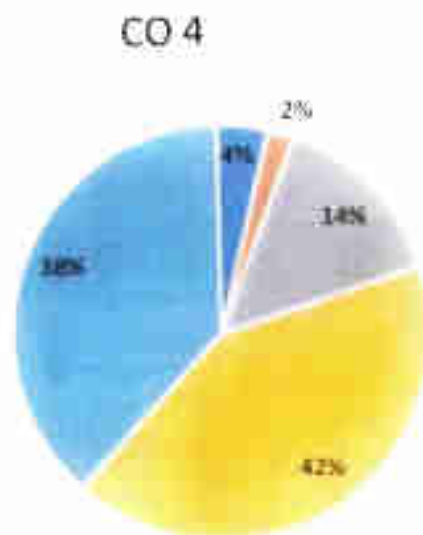
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	4
2- Hardly	1	2
3- Moderately	7	14
4- Mostly	21	42
5- Definitely	19	38
Total	50	100

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







Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

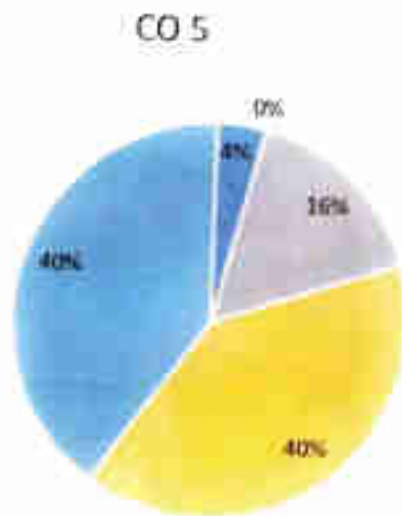
Subject – Building Services and Repairs

Subject Teacher – Prof. Shanthi Selvam

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

Score	No. of students	Percentage (%)
1- Can't Say	2	4
2- Hardly	0	0
3- Moderately	8	16
4- Mostly	20	40
5- Definitely	20	40
Total	50	100

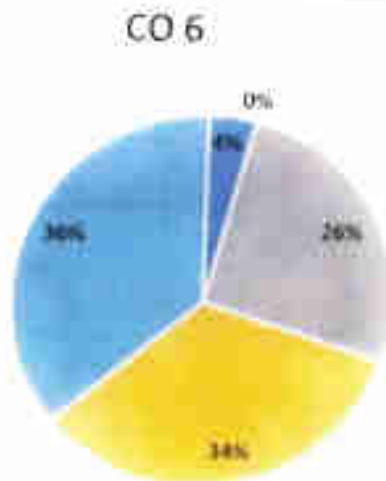
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	4
2- Hardly	0	0
3- Moderately	13	26
4- Mostly	17	34
5- Definitely	18	36
Total	50	100

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



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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-V)**

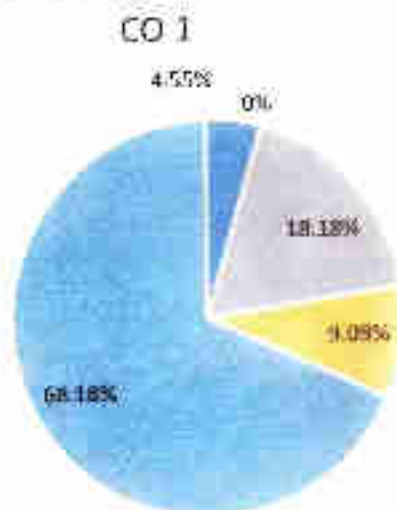
**Subject – Sustainable Building Materials**

**Subject Teacher – Prof. Rachel Gitty**

**CO.1. Explain sustainable practice by utilizing engineering practices**

Score	No. of students	Percentage (%)
1- Can't Say	1	4.55
2- Hardly	0	0
3- Moderately	4	18.18
4- Mostly	2	9.09
5- Definitely	15	68.18
Total	22	100

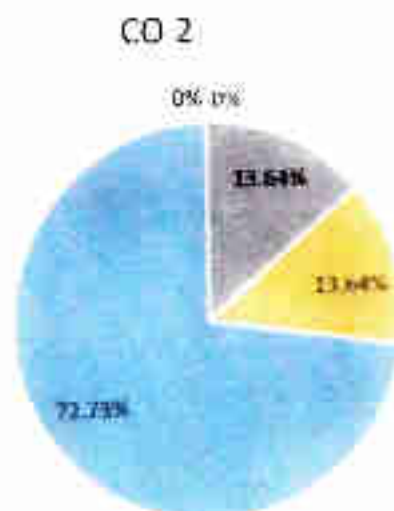
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Understand different of environmental problems and their sustainable solutions**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	13.64
4- Mostly	3	13.64
5- Definitely	16	72.73
Total	22	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

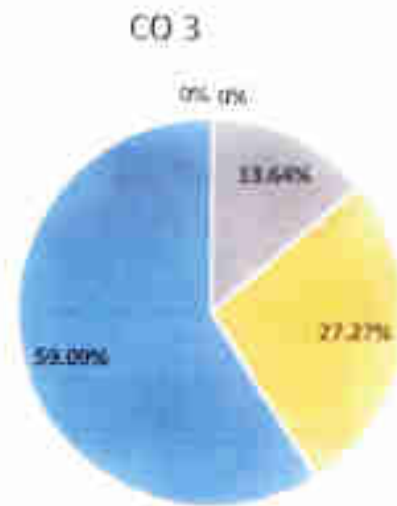
Subject – Sustainable Building Materials

Subject Teacher – Prof. Rachel Gitty

CO.3. Suggest appropriate type of masonry unit and mortar for civil engineering constructions

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	3	13.64
4- Mostly	6	27.27
5- Definitely	13	59.09
Total	22	100

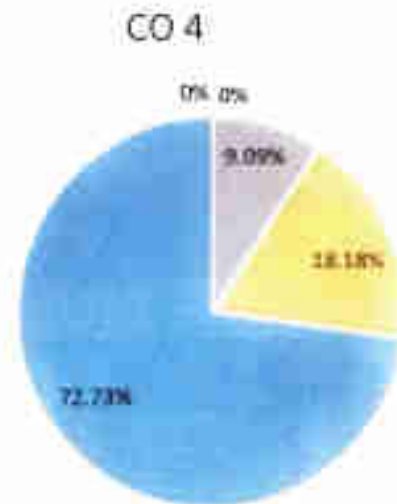
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Analyse different alternative materials for construction

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	9.09
4- Mostly	4	18.18
5- Definitely	16	72.73
Total	22	100

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





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

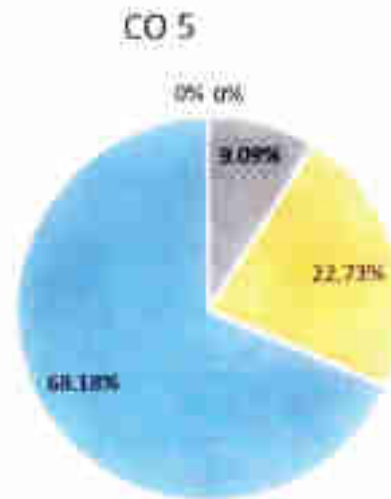
Subject – Sustainable Building Materials

Subject Teacher – Prof. Rachel Gitty

**CO.5. Suggest suitable alternative building technologies for sustainable development**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	9.09
4- Mostly	5	22.73
5- Definitely	15	68.18
Total	22	100

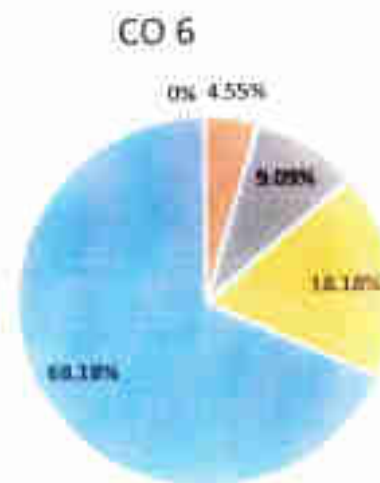
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely




**CO.6. Propose different roofing system and use of waste materials in construction industry.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	4.55
3- Moderately	2	9.09
4- Mostly	4	18.18
5- Definitely	15	68.18
Total	22	100

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



  
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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

Subject – Theory of Reinforced Concrete Structure (LAB)

Subject Teacher – Prof. D.M. Joshi/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Nilima Shende

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

Score	No. of students	Percentage (%)
1- Can't Say	4	2.30
2- Hardly	5	3.45
3- Moderately	16	9.20
4- Mostly	55	31.61
5- Definitely	93	53.45
Total	174	100

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

CO-1

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	2	1.72
2- Hardly	6	3.45
3- Moderately	21	12.07
4- Mostly	58	32.18
5- Definitely	88	50.57
Total	174	100

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

CO-2



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

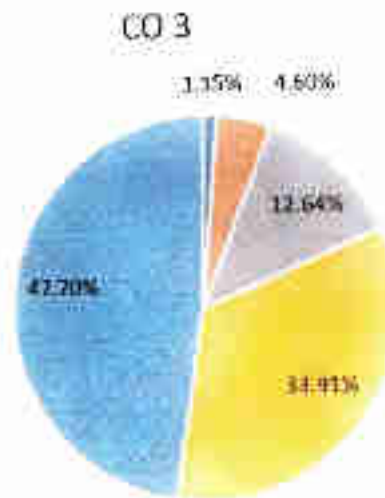
Subject – Theory of Reinforced Concrete Structure (IAB)

Subject Teacher – Prof. D.M. Joshi/ Prof. Shweta Motharkar/ Prof. Supriya Kadam/ Prof. Nilima Shende

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	2	1.15
2- Hardly	8	4.60
3- Moderately	22	12.64
4- Mostly	59	33.91
5- Definitely	83	47.70
Total	174	100

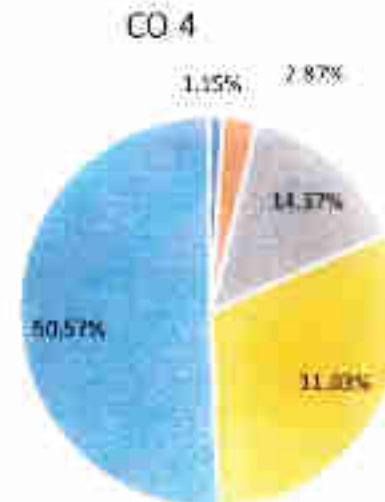
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	5	2.87
3- Moderately	25	14.37
4- Mostly	54	31.03
5- Definitely	88	50.57
Total	174	100

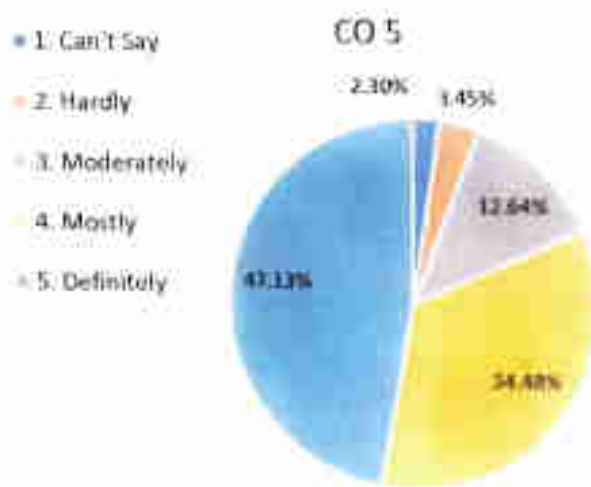
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely





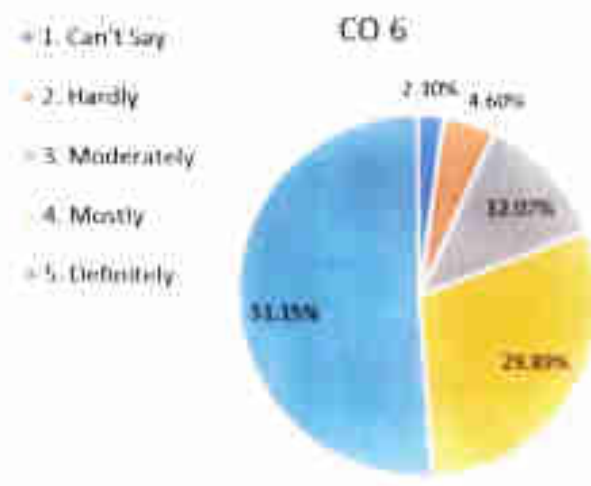
CO.5. Combine the basic principles and engineering concepts to apply limit state of collapse in compression for designing of different types of columns

Score	No. of students	Percentage (%)
1- Can't Say	4	2.30
2- Hardly	6	3.45
3- Moderately	22	12.64
4- Mostly	60	34.48
5- Definitely	82	47.13
Total	174	100



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

Score	No. of students	Percentage (%)
1- Can't Say	4	2.30
2- Hardly	8	4.60
3- Moderately	21	12.07
4- Mostly	52	29.89
5- Definitely	89	51.15
Total	174	100



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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-V)**

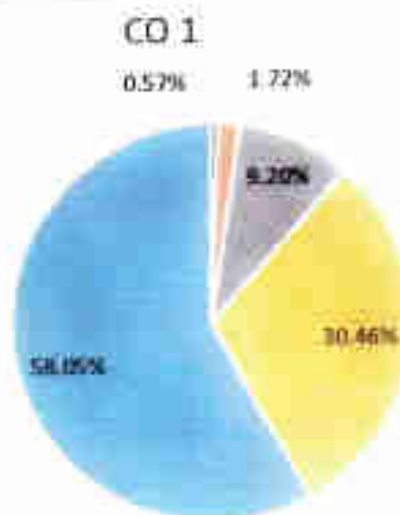
**Subject – Applied Hydraulics (LAB)**

**Subject Teacher – Prof. Hemant Sarje/ Prof. Ashwini Bodkhe/ Prof. Pooja Smani**

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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	3	1.72
3- Moderately	16	9.20
4- Mostly	53	30.46
5- Definitely	101	58.05
Total	174	100

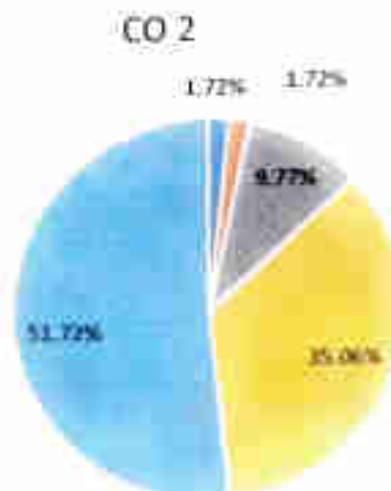
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. Apply impulse momentum principle to hydraulic machines**

Score	No. of students	Percentage (%)
1- Can't Say	3	1.72
2- Hardly	3	1.72
3- Moderately	17	9.77
4- Mostly	61	35.06
5- Definitely	90	51.72
Total	174	100

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







**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-V)**

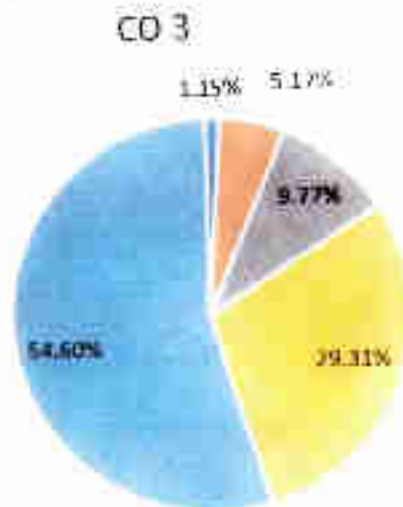
**Subject – Applied Hydraulics (LAB)**

**Subject Teacher – Prof. Hemant Sarje/ Prof. Ashwini Bodkhe/ Prof. Pooja Somani**

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

Score	No. of students	Percentage (%)
1- Can't Say	2	1.15
2- Hardly	9	5.17
3- Moderately	17	9.77
4- Mostly	51	29.31
5- Definitely	95	54.60
Total	174	100

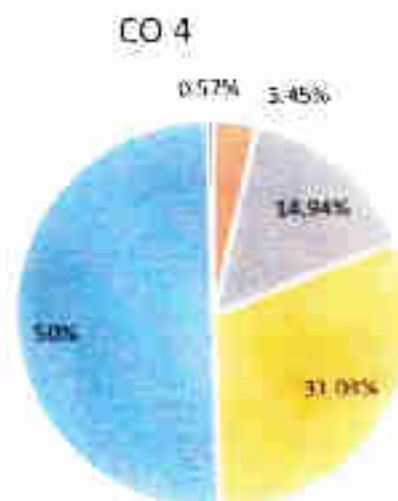
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**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	1	0.57
2- Hardly	6	3.45
3- Moderately	26	14.94
4- Mostly	54	31.03
5- Definitely	87	50
Total	174	100

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





## Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-V)

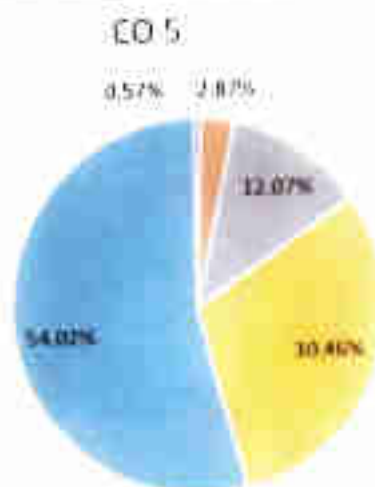
Subject – Applied Hydraulics (LAB)

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

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

Score	No. of students	Percentage (%)
1- Can't Say	1	0.57
2- Hardly	5	2.87
3- Moderately	21	12.07
4- Mostly	53	30.46
5- Definitely	94	54.02
Total	174	100

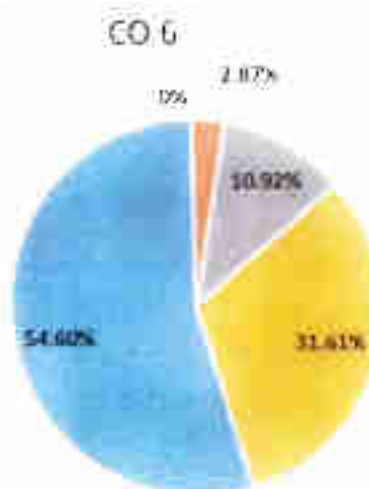
- 1- Can't Say
- 2- Hardly
- 3- Moderately
- 4- Mostly
- 5- Definitely



### 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
2- Hardly	5	2.87
3- Moderately	19	10.92
4- Mostly	56	31.61
5- Definitely	95	54.60
Total	174	100

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



  
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Department of Civil Engineering

Academic Year: 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Architectural Planning & Design of Building (Theory)

Subject Teacher – Prof. Rachel Gitty/ Prof. Chaitali Isal

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	0	0	<b>CO 1</b> <ul style="list-style-type: none"><li>1- Can't Say</li><li>2- Hardly</li><li>3- Moderately</li><li>4- Mostly</li><li>5- Definitely</li></ul>
2- Hardly	0	0	
3- Moderately	2	22.2	
4- Mostly	2	22.2	
5- Definitely	5	55.6	
Total	9	100	

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	<b>CO 2</b> <ul style="list-style-type: none"><li>1- Can't Say</li><li>2- Hardly</li><li>3- Moderately</li><li>4- Mostly</li><li>5- Definitely</li></ul>
2- Hardly	1	11.1	
3- Moderately	1	11.1	
4- Mostly	4	44.4	
5- Definitely	3	33.3	
Total	9	100	



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Architectural Planning & Design of Building (Theory)

Subject Teacher – Prof. Rachel Gitty/ Prof. Chaitali Isal

CO.3 Apply the concept of one point and two-point perspective drawing to create different views of building		
Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	11.1
3- Moderately	1	11.1
4- Mostly	3	33.3
5- Definitely	4	44.4
Total	9	100

CO 3

Legend:  
= 1. Can't Say  
= 2. Hardly  
= 3. Moderately  
= 4. Mostly  
= 5. Definitely

CO.4 Understand the concept of town planning, architectural planning and built environment.		
Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	22.2
4- Mostly	5	55.6
5- Definitely	2	22.2
Total	9	100

CO 4

Legend:  
= 1. Can't Say  
= 2. Hardly  
= 3. Moderately  
= 4. Mostly  
= 5. Definitely



Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject - Architectural Planning & Design of Building (Theory)

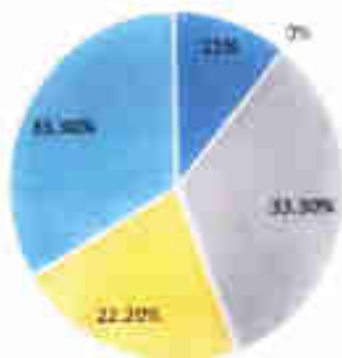
Subject Teacher - Prof. Rachel Gitty/ Prof. Chaitali Iyal

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	11.1
2- Hardy	0	0
3- Moderately	3	33.3
4- Mostly	2	22.2
5- Definitely	3	33.3
Total	9	100

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

CO 5

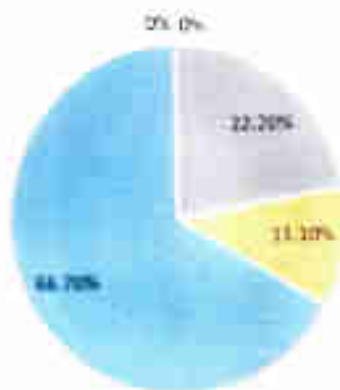


CO-6 Apply the principles and code of practices for planning and designing of various public buildings and study the various components and building services as well as apply the knowledge for overall planning and design.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardy	0	0
3- Moderately	2	22.2
4- Mostly	1	11.1
5- Definitely	6	66.7
Total	9	100

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

CO 6



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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-III)**

**Subject – Architectural Planning & Design of Building (LAB)**

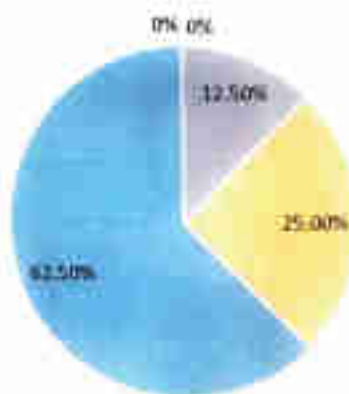
**Subject Teacher – Prof. Chaitali Isal**

**CO.1 Design and drawing of residential building by applying the principles of buildings and code of practices.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	12.5
4- Mostly	2	25
5- Definitely	5	62.5
Total	8	100

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

**CO 1**

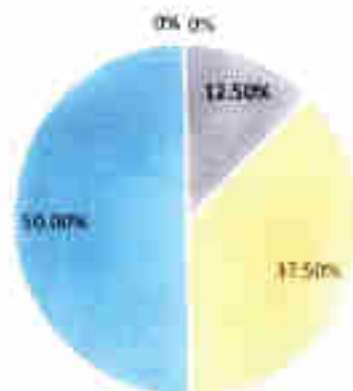


**CO.2 details of building components such as Staircase etc**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	12.5
4- Mostly	3	37.5
5- Definitely	4	50
Total	8	100

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

**CO 2**





**Department of Civil Engineering**

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**Course Exit Report Analysis (SEM-III)**

**Subject – Architectural Planning & Design of Building (LAB)**

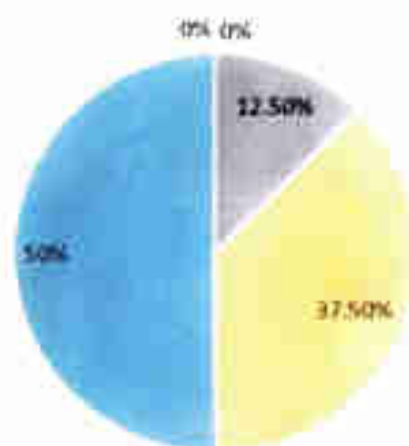
**Subject Teacher – Prof. Chaitali Isal**

**CO-3 Draw one point and two-point perspective view**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	12.5
4- Mostly	3	37.5
5- Definitely	4	50
Total	8	100

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

**CO 3**

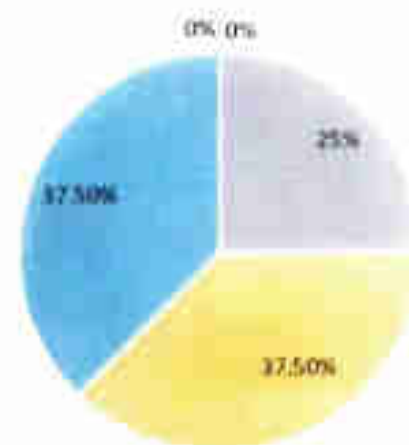


**CO-4 How the Town planning, architectural planning should be done and study-built environment using basic engineering principles for urban and rural development**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	25
4- Mostly	3	37.5
5- Definitely	3	37.5
Total	8	100

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

**CO 4**





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

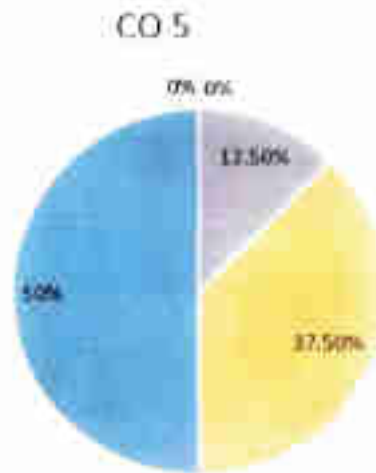
Subject – Architectural Planning & Design of Building (LAB)

Subject Teacher – Prof. Chaitali Isal

CO. 5 Understand reports for green buildings and various certification methods such as TERI, GRIHA, IGBI

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	12.5
4- Mostly	3	37.5
5- Definitely	4	50
Total	8	100

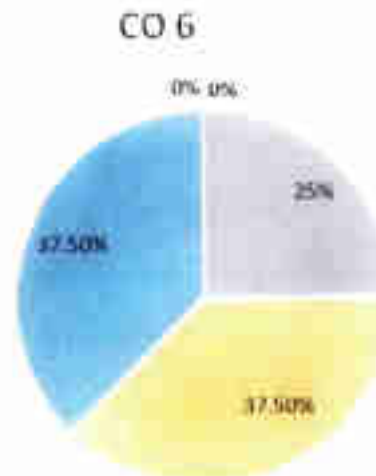
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO. 6. Design and drawing of public building using CAAD software applying principles of planning and design.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	25
4- Mostly	3	37.5
5- Definitely	3	37.5
Total	8	100

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



  
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Department of Civil Engineering

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Course Exit Report Analysis (SEM-III)

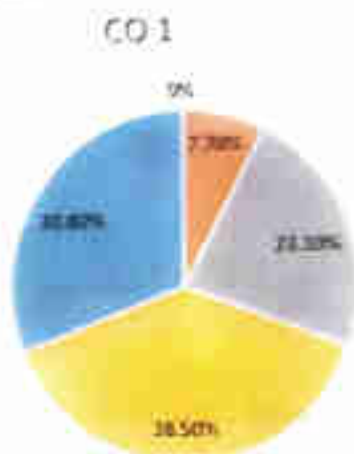
Subject – Mechanics of Solids (Theory)

Subject Teacher – Prof. D. M. Joshi/ Prof. Hemant Sarje

**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	0	0
2- Hardly	1	7.7
3- Moderately	3	23.1
4- Mostly	5	38.5
5- Definitely	4	30.8
Total	13	100

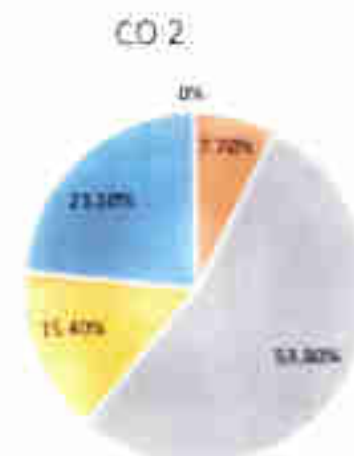
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**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	0	0
2- Hardly	1	7.7
3- Moderately	7	53.8
4- Mostly	2	15.4
5- Definitely	3	23.1
Total	13	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 – Mechanics of Solids (Theory)

Subject Teacher – Prof. D.M. Joshi/ Prof. Hemant Sarje

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)

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	23.1
3- Moderately	5	38.5
4- Mostly	2	15.4
5- Definitely	3	23.1
Total	13	100

CO 3

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

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.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	15.4
3- Moderately	5	38.5
4- Mostly	5	38.5
5- Definitely	1	7.7
Total	13	100

CO 4

- 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)

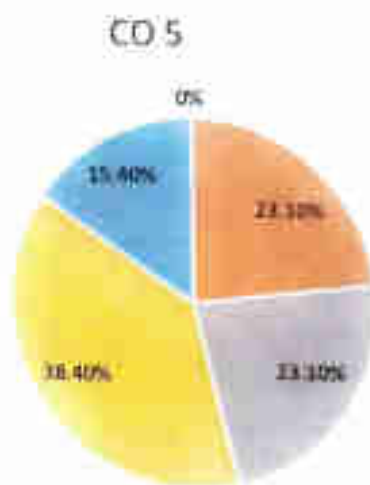
Subject – Mechanics of Solids (Theory)

Subject Teacher – Prof. D.M. Joshi/ Prof. Hemant Sarje

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	0	0
2- Hardly	3	23.1
3- Moderately	3	23.1
4- Mostly	5	38.4
5- Definitely	2	15.4
Total	13	100

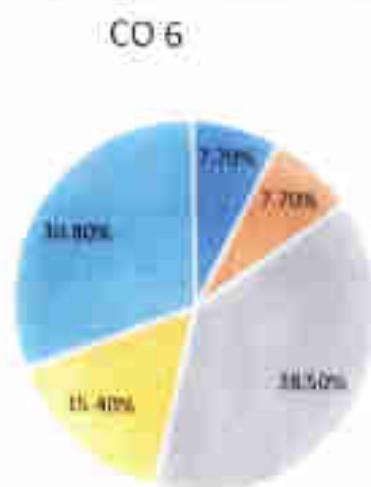
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	1	7.7
2- Hardly	1	7.7
3- Moderately	5	38.5
4- Mostly	2	15.4
5- Definitely	4	30.8
Total	13	100

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



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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

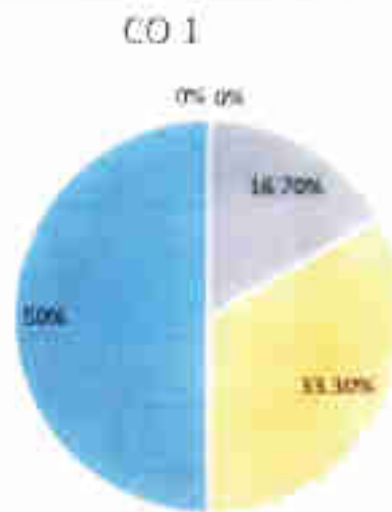
Subject – Mechanics of Solids (LAB)

Subject Teacher – Prof. D. M. Joshi/ Prof. Hemant Sarje

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	16.7
4- Mostly	2	33.3
5- Definitely	3	50
Total	6	100

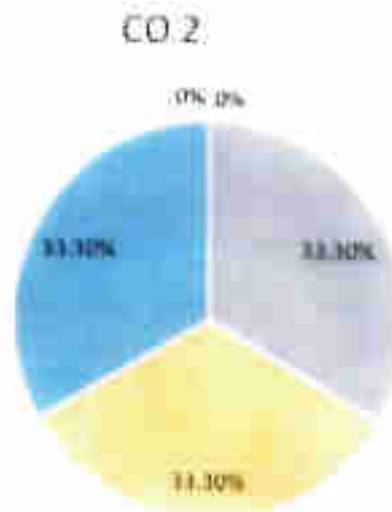
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	33.3
4- Mostly	2	33.3
5- Definitely	2	33.3
Total	6	100

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





**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-III)**

**Subject – Mechanics of Solids (LAB)**

**Subject Teacher – Prof. D.M. Joshi/ Prof. Hemant Sarje**

**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	0	0	<p>CO 3</p> <ul style="list-style-type: none"><li>1. Can't Say</li><li>2. Hardly</li><li>3. Moderately</li><li>4. Mostly</li><li>5. Definitely</li></ul>
2- Hardly	0	0	
3- Moderately	2	33.3	
4- Mostly	2	33.3	
5- Definitely	2	33.3	
Total	6	100	

**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	0	0	<p>CO 4</p> <ul style="list-style-type: none"><li>1. Can't Say</li><li>2. Hardly</li><li>3. Moderately</li><li>4. Mostly</li><li>5. Definitely</li></ul>
2- Hardly	0	0	
3- Moderately	2	33.3	
4- Mostly	1	16.7	
5- Definitely	3	50	
Total	6	100	



## Department of Civil Engineering

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Course Exit Report Analysis (SEM-III)

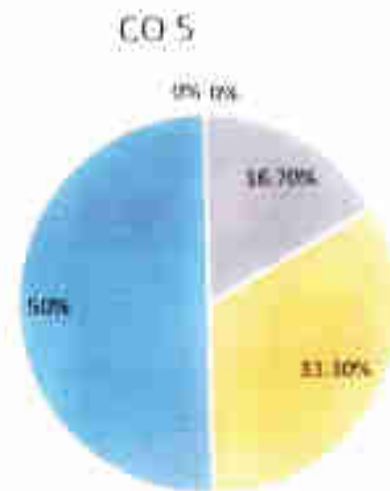
Subject – Mechanics of Solids (LAB)

Subject Teacher – Prof. D.M. Joshi/ Prof. Hemant Sarje

**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	0	0
2- Hardly	0	0
3- Moderately	1	16.7
4- Mostly	2	33.3
5- Definitely	3	50
<b>Total</b>	<b>6</b>	<b>100</b>

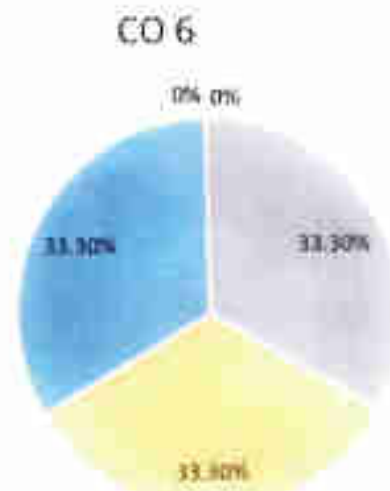
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.6. Develop the concepts of principal plains and stresses and basics of slope deflection theory for structures.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	33.3
4- Mostly	2	33.3
5- Definitely	2	33.3
<b>Total</b>	<b>6</b>	<b>100</b>

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



HOD  
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Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

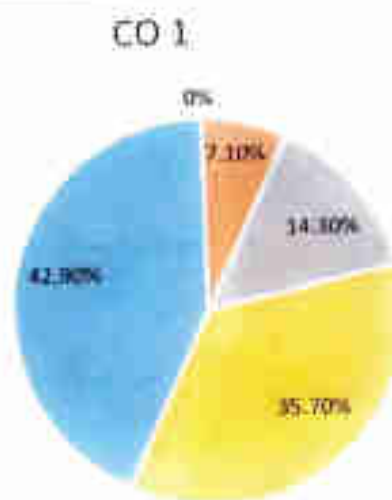
Subject – Engineering Geology (Theory)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Pramod Sutar

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	0	0
2- Hardly	1	7.1
3- Moderately	2	14.3
4- Mostly	6	35.7
5- Definitely	6	42.9
Total	14	100

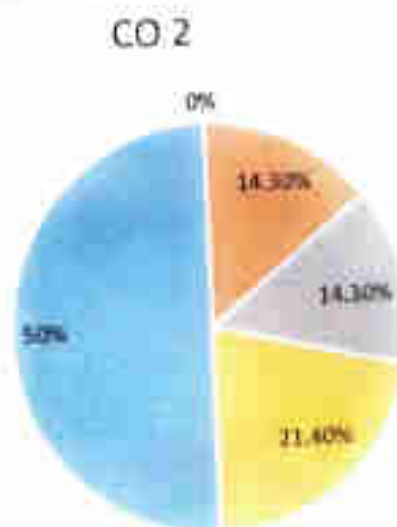
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	0	0
2- Hardly	2	14.3
3- Moderately	2	14.3
4- Mostly	3	21.4
5- Definitely	7	50
Total	14	100

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





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	0	0	<p>CO-3</p> <p>                     = 1. Can't Say                      = 2. Hardly                      = 3. Moderately                      = 4. Mostly                      = 5. Definitely                 </p>
2- Hardly	2	14.3	
3- Moderately	2	14.3	
4- Mostly	4	28.6	
5- Definitely	6	42.9	
Total	14	100	

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	0	0	<p>CO-4</p> <p>                     = 1. Can't Say                      = 2. Hardly                      = 3. Moderately                      = 4. Mostly                      = 5. Definitely                 </p>
2- Hardly	1	7.1	
3- Moderately	1	7.1	
4- Mostly	6	42.9	
5- Definitely	6	42.9	
Total	14	100	





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Course Exit Report Analysis (SEM-III)

Subject – Engineering Geology (Theory)

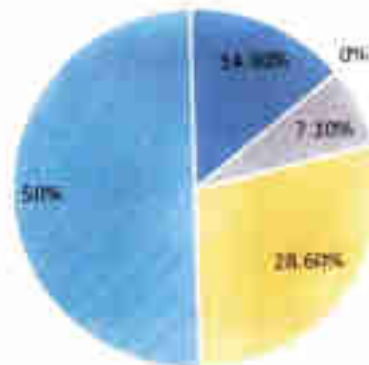
Subject Teacher – Prof. Sujaya Wadekar/ Prof. Pramod Sutar

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	2	14.3
2- Hardly	0	0
3- Moderately	1	7.1
4- Mostly	4	28.6
5- Definitely	7	50
Total	14	100

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

CO 5

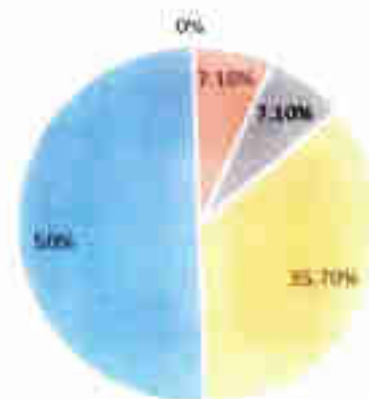


CO-6, Find what are the causes of occurrence of natural hazards, distinguish between their types and recommend the control measures.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	7.1
3- Moderately	1	7.1
4- Mostly	5	35.7
5- Definitely	7	50
Total	14	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 : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Engineering Geology (LAB)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Pramod Sutar

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	0	0	<b>CO 1</b> <p>Legend: = 1. Can't Say = 2. Hardly = 3. Moderately = 4. Mostly = 5. Definitely</p>
2- Hardly	0	0	
3- Moderately	0	0	
4- Mostly	2	25	
5- Definitely	6	75	
Total	8	100	

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	<b>CO 2</b> <p>Legend: = 1. Can't Say = 2. Hardly = 3. Moderately = 4. Mostly = 5. Definitely</p>
2- Hardly	0	0	
3- Moderately	0	0	
4- Mostly	2	25	
5- Definitely	6	75	
Total	8	100	



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Course Exit Report Analysis (SEM-III)

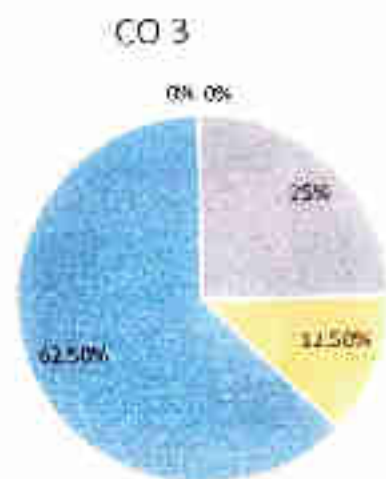
Subject – Engineering Geology (LAB)

Subject Teacher – Prof. Sujaya Wadekar/ Prof. Pramod Sutar

**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	0	0
2- Hardly	0	0
3- Moderately	2	25
4- Mostly	1	12.5
5- Definitely	5	62.5
Total	8	100

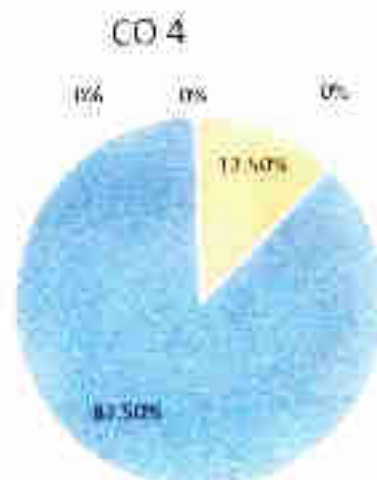
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**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	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	1	12.5
5- Definitely	7	87.5
Total	8	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 Geology (LAB)

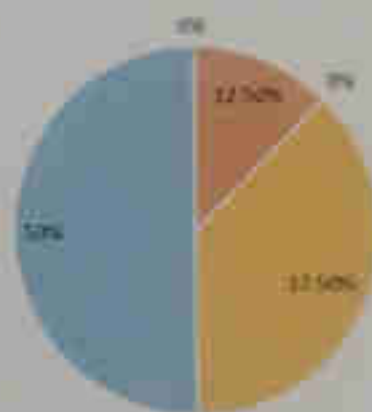
Subject Teacher – Prof. Sujaya Wadekar/ Prof. Pramod Sutar

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	12.5
3- Moderately	0	0
4- Mostly	5	37.5
5- Definitely	4	50
Total	8	100

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

CO 5



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	12.5
2- Hardly	0	0
3- Moderately	2	25
4- Mostly	0	0
5- Definitely	5	62.5
Total	8	100

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

CO 6



  
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S/OE



Department of Civil Engineering

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Course Exit Report Analysis (SEM-III)

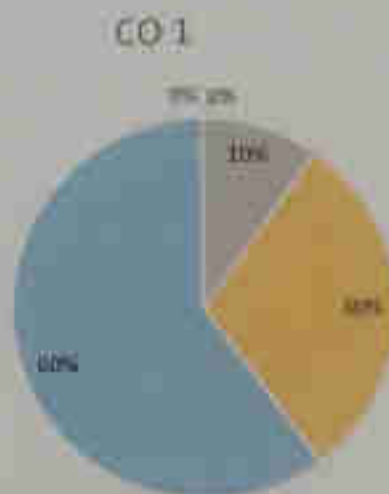
Subject – Fluid Mechanics (Theory)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Tarannum Shaikh

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	10
4- Mostly	3	30
5- Definitely	6	60
Total	10	100

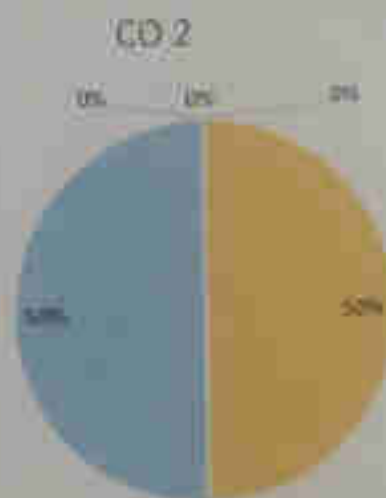
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	5	50
5- Definitely	5	50
Total	10	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 (Theory)

Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Tarannum Shaikh

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	0	0
2- Hardly	1	10
3- Moderately	0	0
4- Mostly	2	20
5- Definitely	7	70
Total	10	100

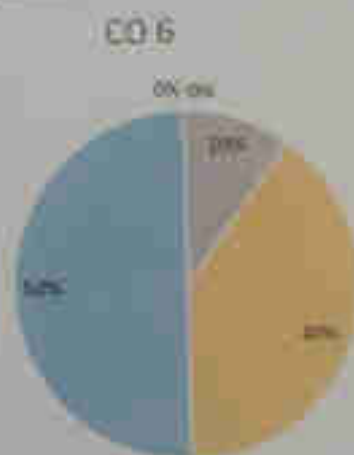
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	10
4- Mostly	4	40
5- Definitely	5	50
Total	10	100

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



  
HOD  
Civil Dept.

  
Principal  
SCOE



**Department of Civil Engineering**

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**Course Exit Report Analysis (SEM-III)**

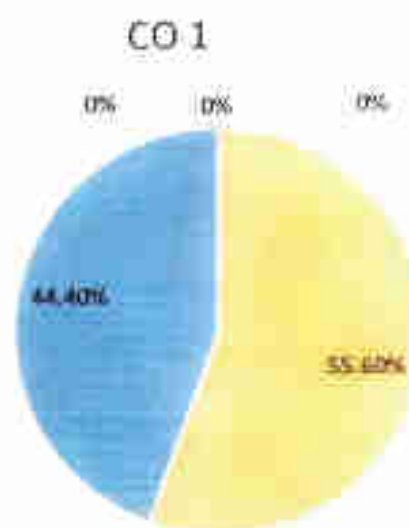
**Subject – Fluid Mechanics (LAB)**

**Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Tarannum Shaikh**

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	5	55.6
5- Definitely	4	44.4
Total	9	100

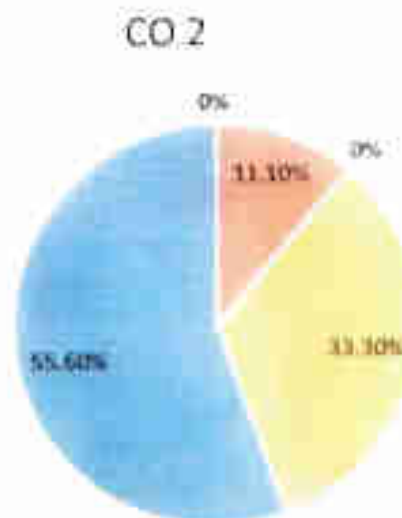
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.2. To determine coefficient of discharge through Venturimeter**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	11.1
3- Moderately	0	0
4- Mostly	3	33.3
5- Definitely	5	55.6
Total	9	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)**

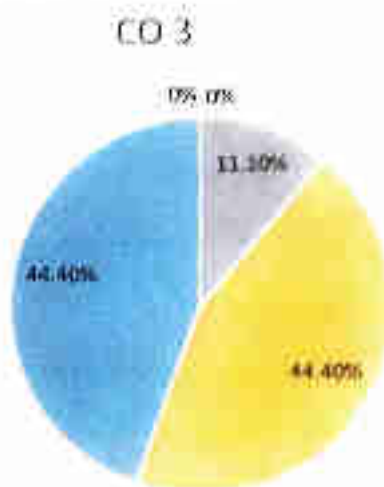
**Subject – Fluid Mechanics (LAB)**

**Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Tarannum Shaikh**

**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	0	0
3- Moderately	1	11.1
4- Mostly	4	44.4
5- Definitely	4	44.4
Total	9	100

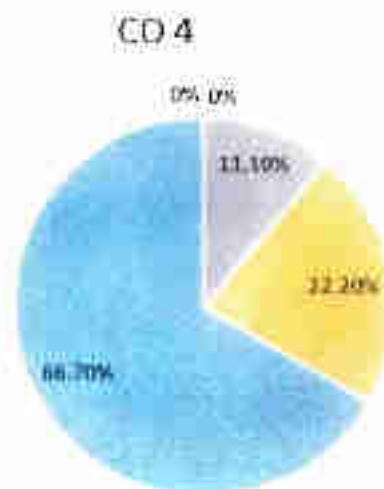
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.4. To verify Bernoulli's Theorem experimentally**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	11.1
4- Mostly	2	22.2
5- Definitely	6	66.7
Total	9	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)**

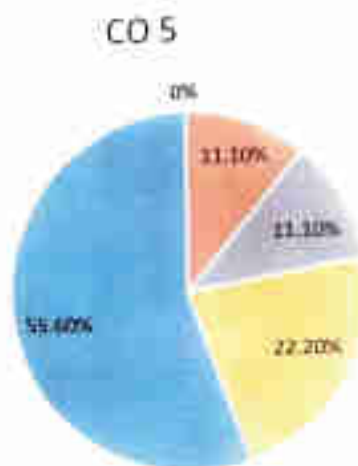
**Subject – Fluid Mechanics (LAB)**

**Subject Teacher – Prof. Ashwini Bodkhe/ Prof. Tarannum Shaikh**

**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	0	0
2- Hardly	1	11.1
3- Moderately	1	11.1
4- Mostly	2	22.2
5- Definitely	5	55.6
Total	9	100

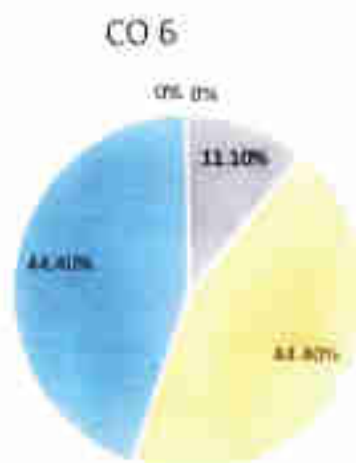
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



**CO.6. To compute coefficient of discharge of weirs**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	11.1
4- Mostly	4	44.4
5- Definitely	4	44.4
Total	9	100

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



**HOD  
Civil Dept.**

**Principal  
SCOE**



**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-III)**

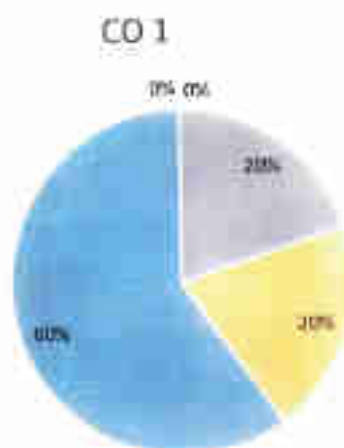
**Subject – Skill Based Lab Course - I**

**Subject Teacher – Prof. Shahbaz Khan/ Prof. Deepali Phadatare**

**CO.1. Will you able to 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	0	0
2- Hardly	0	0
3- Moderately	1	20
4- Mostly	1	20
5- Definitely	3	60
Total	5	100

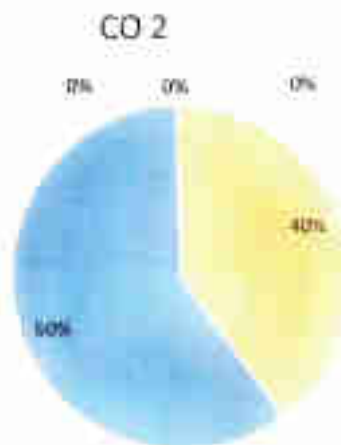
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



**CO.2. will you able to illustrate the various elements in the software like points, lines, polygons, etc. as objects of the real world and relate it with civil engineering components?**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	2	40
5- Definitely	3	60
Total	5	100

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





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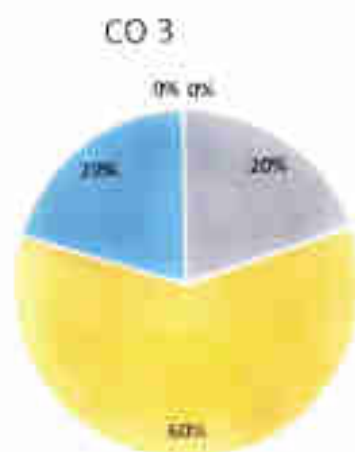
Subject – Skill Based Lab Course - I

Subject Teacher – Prof. Shahbaz Khan/ Prof. Deepali Phadatare

CO.3. Apply civil engineering concepts to draft efficient civil engineering plans in accordance to various building bye laws and forms?

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	20
4- Mostly	3	60
5- Definitely	1	20
Total	5	100

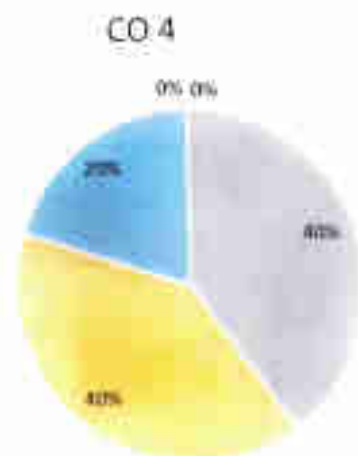
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



CO.4. Do you understand the space, logistic and statutory constraints in the real world to draw an efficient plan so that optimization is achieved?

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	40
4- Mostly	2	40
5- Definitely	1	20
Total	5	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. Deepali Phadatare

CO.5. Integrate and retrieve information pertaining to various civil engineering components through 3-D modelling software?

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	20
4- Mostly	2	40
5- Definitely	2	40
Total	5	100

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

CO 5

CO.6. Demonstrate a virtual walkthrough of buildings?

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	3	60
5- Definitely	2	40
Total	5	100

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

CO 6

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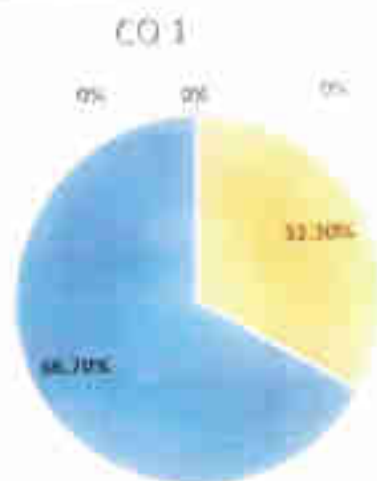
Subject - Mini Project-I

Subject Teacher - Prof. Sujaya Wadekar

CO-1: To identify problems and needs based on societal/research needs.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	3	33.3
5- Definitely	6	66.7
Total	9	100

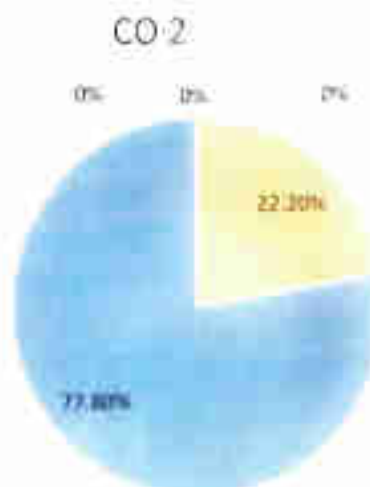
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



CO-2: To get accustomed to the process of solving a problem in a group.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	0	0
4- Mostly	2	22.2
5- Definitely	7	77.8
Total	9	100

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





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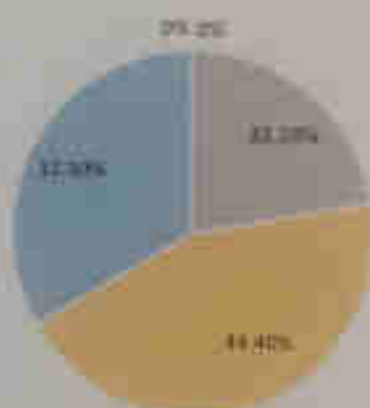
Subject - Mini Project-I

Subject Teacher - Prof. Sujaya Wadekar

CO-3. To acquaint with the process of applying basic engineering fundamentals to attempt solutions to the problems.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	22.2
4- Mostly	4	44.4
5- Definitely	3	33.3
Total	9	100

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



CO-4. To implant interpersonal skills to work and lead in a group.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	1	11.1
4- Mostly	4	44.4
5- Definitely	4	44.4
Total	9	100

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





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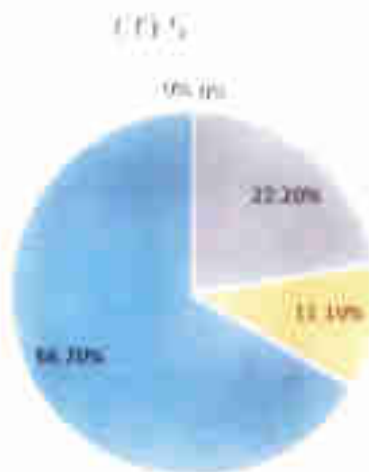
Subject - Mini Project-I

Subject Teacher - Prof. Sujaya Wadekar

CO-5. To inculcate the process of self learning and research.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	2	22.2
4- Mostly	1	11.1
5- Definitely	6	66.7
Total	9	100

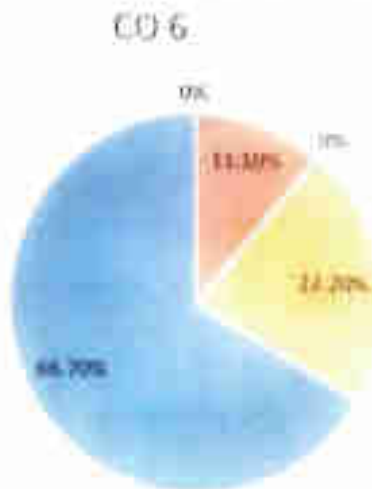
- = 1. Can't Say
- = 2. Hardly
- = 3. Moderately
- = 4. Mostly
- = 5. Definitely



CO-6. To acquaint with the process of Project management

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	11.1
3- Moderately	0	0
4- Mostly	2	22.2
5- Definitely	6	66.7
Total	9	100

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



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**Department of Civil Engineering**

**Academic Year : 2022-2023**

**Course Exit Report Analysis (SEM-III)**

**Subject – Engineering Mathematics-III**

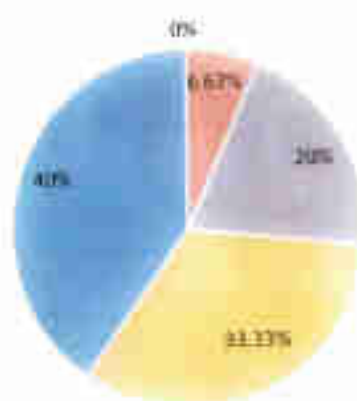
**Subject Teacher – Prof. Madhukar Andhale**

**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	0	0
2- Hardly	1	6.67
3- Moderately	3	20
4- Mostly	5	33.33
5- Definitely	6	40
Total	15	100

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

CO 1

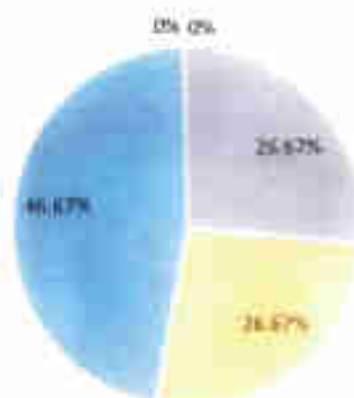


**CO.2. Identify the concept of Inverse Laplace transform & compare to various function & its applications.**

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	4	26.67
4- Mostly	4	26.67
5- Definitely	7	46.67
Total	15	100

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

CO 2







Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Engineering Mathematics-III

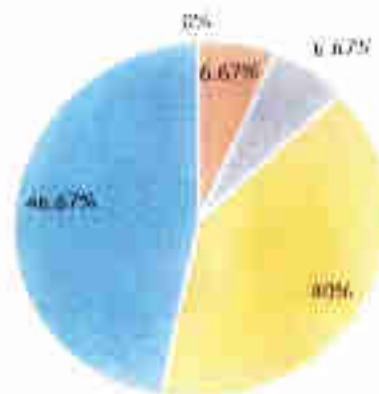
Subject Teacher – Prof. Madhukar Andhale

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

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	6.67
3- Moderately	1	6.67
4- Mostly	6	40
5- Definitely	7	46.67
Total	15	100

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

CO 3

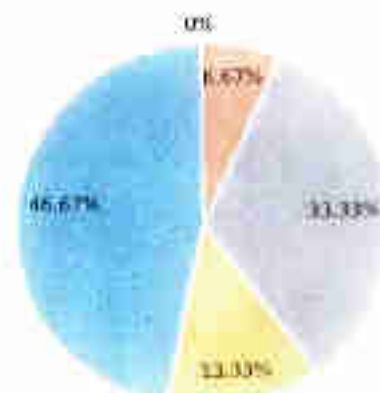


CO.4. Apply the properties of Complex analysis & select the application to orthogonal trajectories

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	6.67
3- Moderately	5	33.33
4- Mostly	2	13.33
5- Definitely	7	46.67
Total	15	100

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

CO 4





Department of Civil Engineering

Academic Year : 2022-2023

Course Exit Report Analysis (SEM-III)

Subject – Engineering Mathematics-III

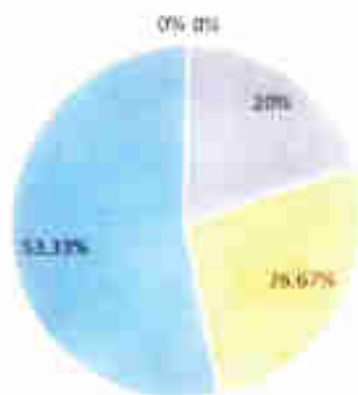
Subject Teacher – Prof. Madhukar Anbhale

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	0	0
2- Hardly	0	0
3- Moderately	3	20
4- Mostly	4	26.67
5- Definitely	8	53.33
Total	15	100

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

CO 5

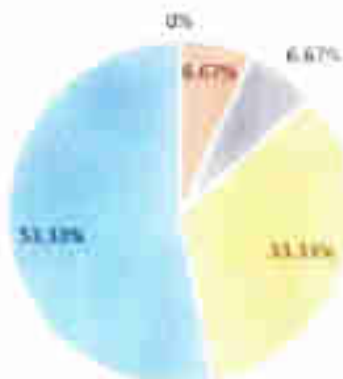


CO-6: Ability to solve partial differential equations & analytical method for one dimensional heat & wave equations.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	6.67
3- Moderately	1	6.67
4- Mostly	6	33.33
5- Definitely	8	53.33
Total	15	100

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

CO 6



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