



Department of Civil Engineering

Academic Year: 2020-21 (Odd)

Course Exit Analysis Report (SEM III)

Subject – Fluid Mechanics-II

Subject Teacher - Prof. Pooja Somani / Ashwini Bodkhe

CO1: Describe various properties of fluids and types of flow		
Score	No. of students	Percentage (%)
1- Can't Say	2	2
2- Hardly	5	6
3- Moderately	13	16
4- Mostly	35	43
5- Definitely	26	32
Total	81	100

CO1

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

CO2: 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	1	1
2- Hardly	2	2
3- Moderately	17	21
4- Mostly	34	42
5- Definitely	27	33
Total	81	100

CO2

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



Department of Civil Engineering

Academic Year: 2020-21 (Odd)

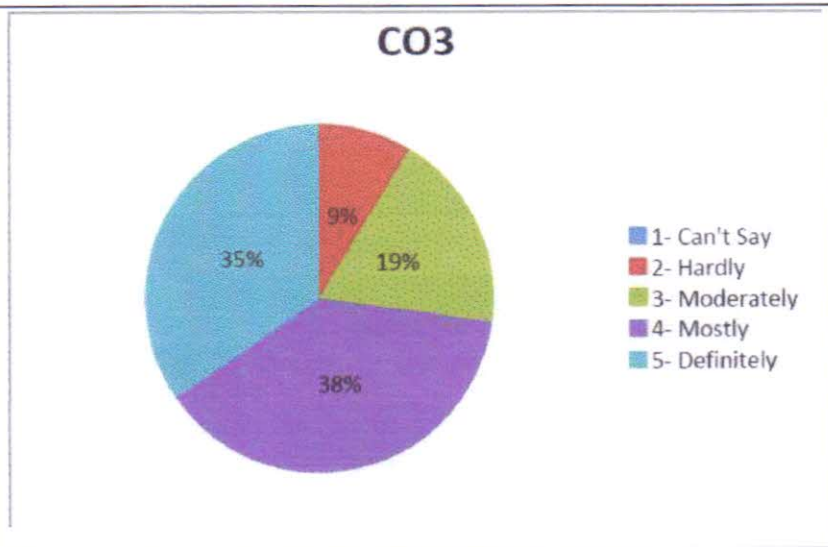
Course Exit Analysis Report (SEM III)

Subject – Fluid Mechanics-II

Subject Teacher - Prof. Pooja Somani / Ashwini Bodkhe

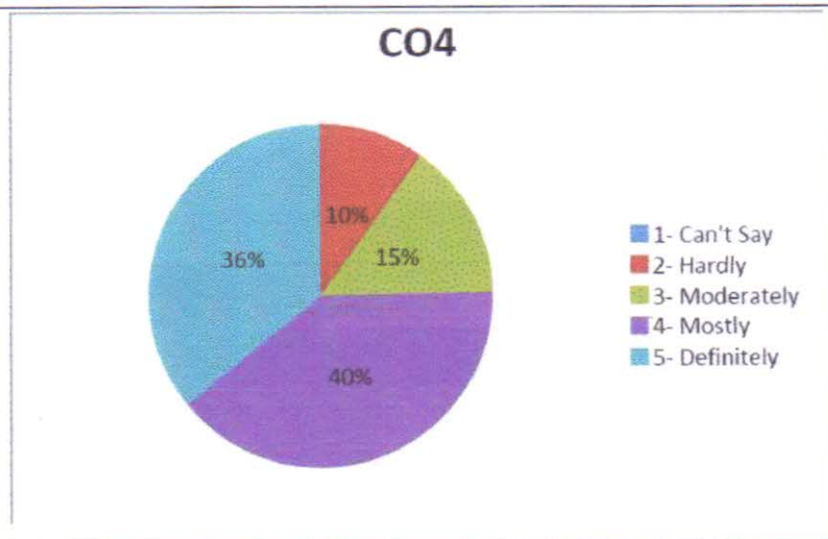
CO3: Apply hydro static and dynamic solutions for fluid flow applications

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	7	9
3- Moderately	15	19
4- Mostly	31	38
5- Definitely	28	35
Total	81	100



CO4: Analyse the stability of floating bodies

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	8	10
3- Moderately	12	15
4- Mostly	32	40
5- Definitely	29	36
Total	81	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

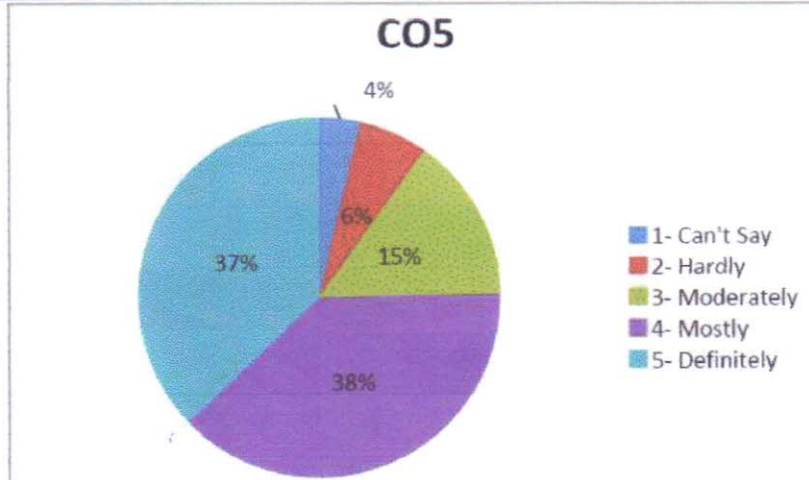
Course Exit Analysis Report (SEM III)

Subject – Fluid Mechanics-II

Subject Teacher - Prof. Pooja Somani / Ashwini Bodkhe

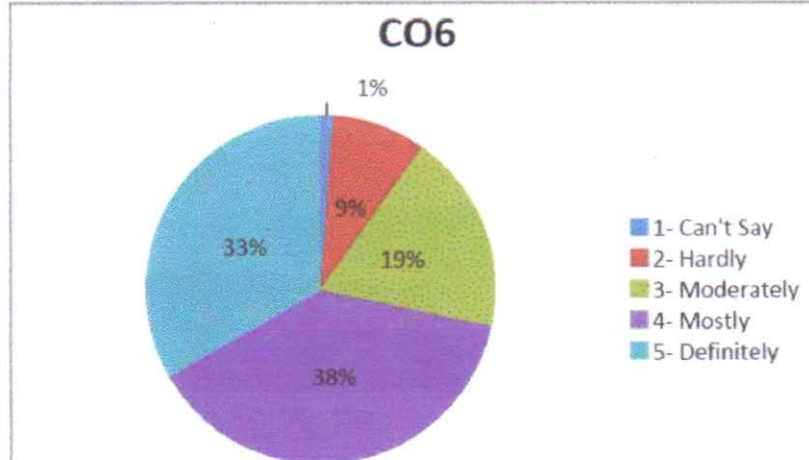
CO5: Apply the working concepts of various devices to measure the flow through pipes and channels

Score	No. of students	Percentage (%)
1- Can't Say	3	4
2- Hardly	5	6
3- Moderately	12	15
4- Mostly	31	38
5- Definitely	30	37
Total	81	100



CO6: Explain the compressible flow, propagation of pressure waves and stagnation properties

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	7	9
3- Moderately	15	19
4- Mostly	31	38
5- Definitely	27	33
Total	81	100



Rohini
HOD (Civil)

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Ashwini
Principal (SCOE)
PRINCIPAL

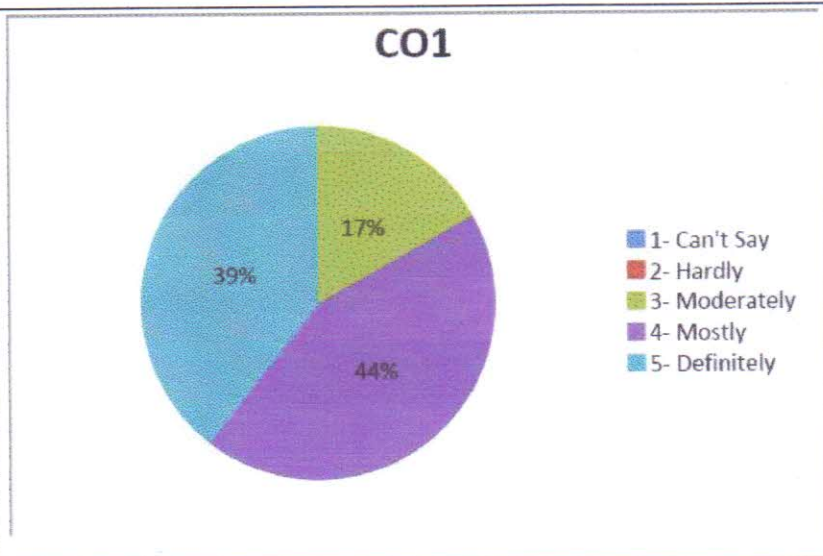
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210



Department of Civil Engineering
Academic Year: 2020-21 (Odd)
Course Exit Analysis Report (SEM III)
Subject – Engineering Mathematics-III
Subject Teacher - Prof. Mandhukar Andhale

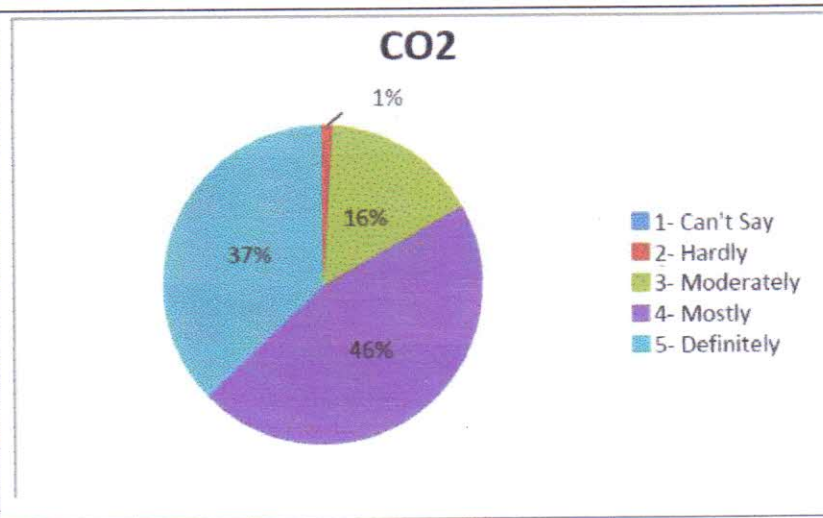
CO1: Apply the concept of Laplace transforms & use to solve real integrals in engineering problems.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	15	17
4- Mostly	39	44
5- Definitely	35	39
Total	89	100



CO2: 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	1	1
3- Moderately	14	16
4- Mostly	41	46
5- Definitely	33	37
Total	89	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

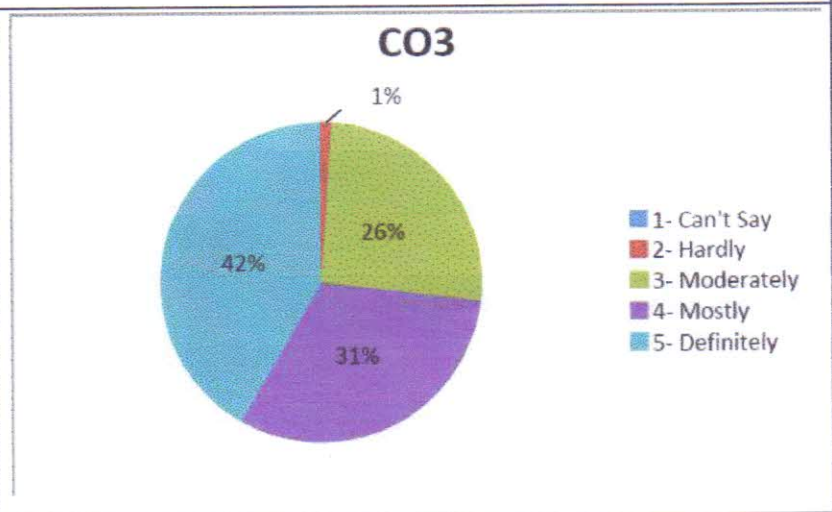
Course Exit Analysis Report (SEM III)

Subject – Engineering Mathematics-III

Subject Teacher - Prof. Mandhukar Andhale

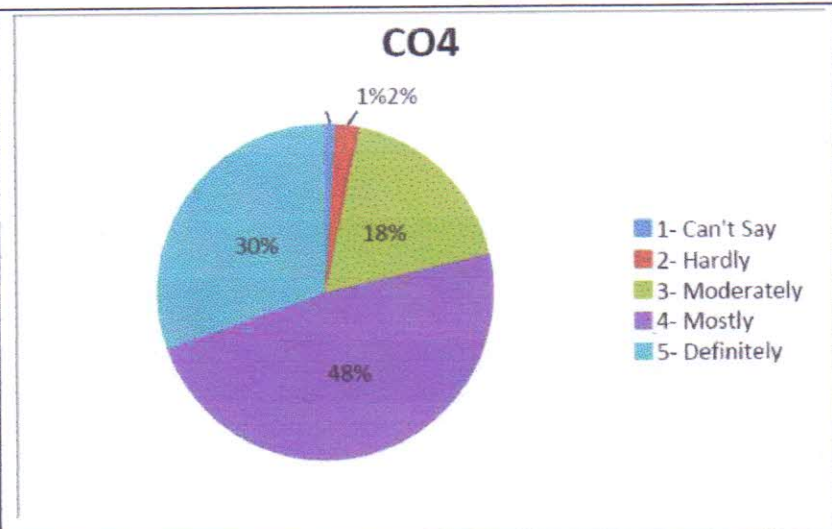
CO3: Determine & develop Fourier series for real life problems & application.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	23	26
4- Mostly	28	31
5- Definitely	37	42
Total	89	100



CO4: Apply the properties of Complex analysis & select the application to orthogonal trajectories.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	2	2
3- Moderately	16	18
4- Mostly	43	48
5- Definitely	27	30
Total	89	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

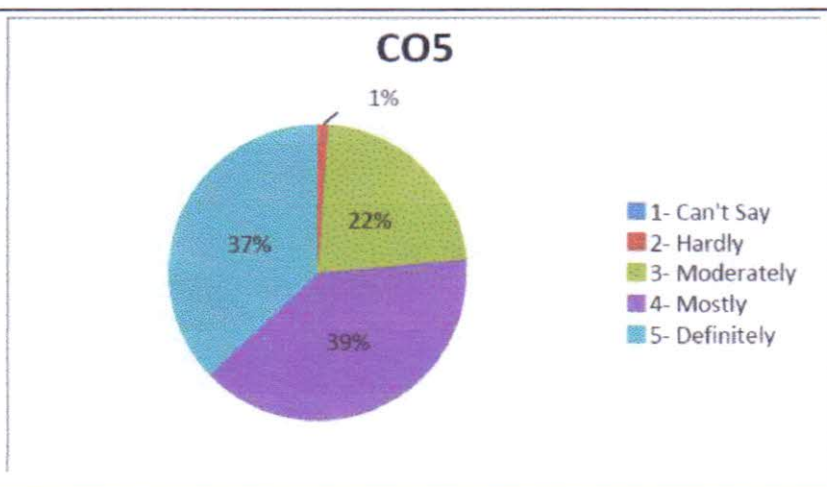
Course Exit Analysis Report (SEM III)

Subject – Engineering Mathematics-III

Subject Teacher - Prof. Mandhukar Andhale

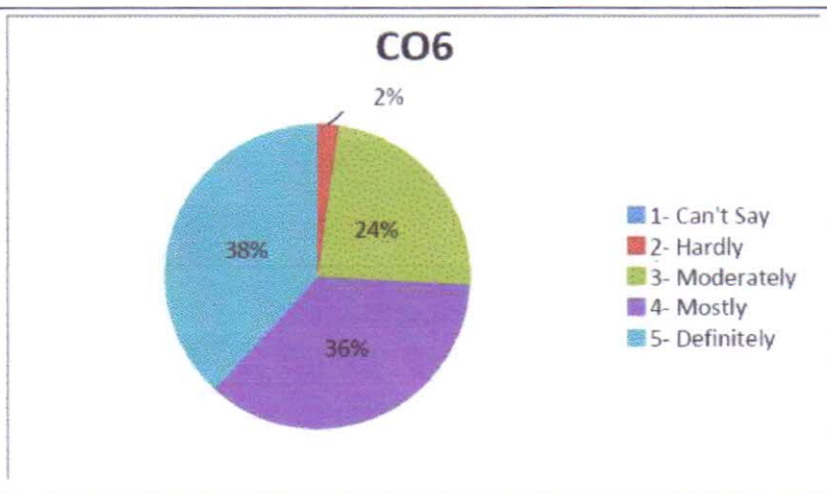
CO5: Use the concept of matrices to solve problems in machine learning, computer graphics & in google page ranking.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	20	22
4- Mostly	35	39
5- Definitely	33	37
Total	89	100



CO6: Ability to solve partial differential equations & analytical methods for one dimensional heat & wave equations.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	2
3- Moderately	21	24
4- Mostly	32	36
5- Definitely	34	38
Total	89	100



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DEPARTMENT OF CIVIL ENGINEERING
Action taken based on feedback from students
Academic year 20-21 ODD

Summary of feedback (Semester 3):

Feedbacks collected through course exit forms were analysed and necessary actions were planned for effective teaching. Abstract of suggestions obtained from the stake holders to enhance the employability of the student are discussed below.

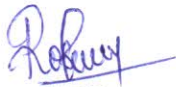
- More practice for Engineering Mathematics III
- Need awareness about the latest technologies and practices in industry.
- Exposure to Civil engineering software related core subjects in curriculum.
- Need animated videos for better understanding.

Action Taken:

Based on suggestions, various events are organized. Events are selected such that it will be beneficial for their career. Details of events organized at Institutional and Department level are mentioned below.

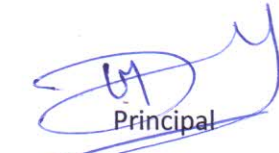
Sl No.	Feedback / Suggestions	Actions Taken	Date
1	Teaching Aid	Power point presentations were conducted for better understanding	As required

2	Teaching aids	Animated videos and ppts were shared for better understanding the concepts	As required
3.	More practice problems for EM III	Extra classes were taken for EM III	As required
4	More practice problems for Mechanics of solids	Extra classes were taken for MOS	As required


HOD

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Kharghar, Navi Mumbai-410210**



Department of Civil Engineering

Academic Year: 2020-21 (Even)

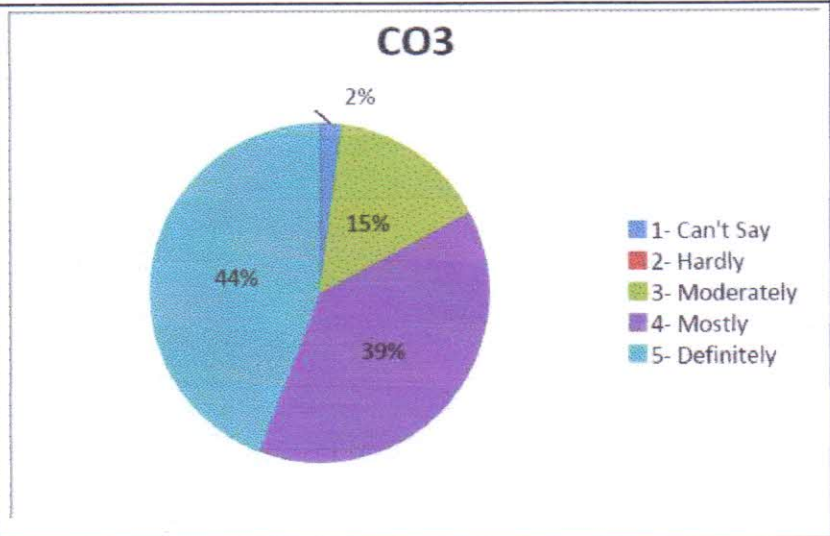
Course Exit Analysis Report (SEM IV)

Subject – Building material and concrete technology

Subject Teacher - Prof. Sujaya Wadekar / Neha Chhangani

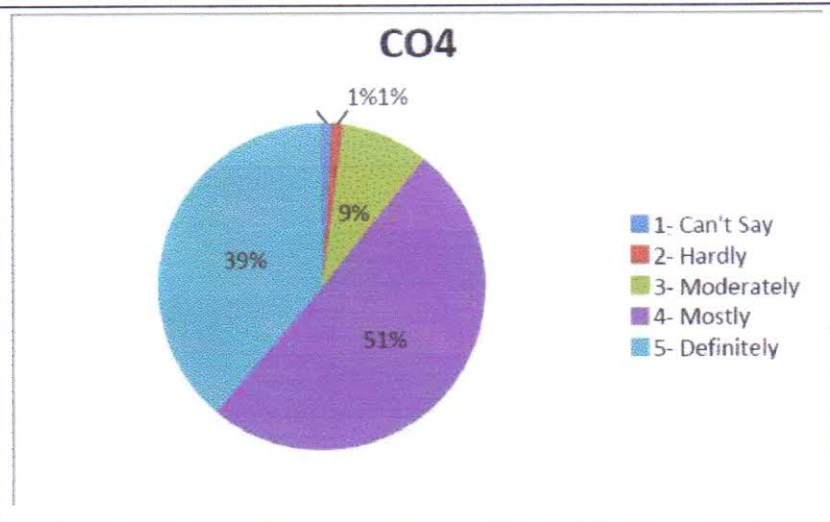
CO3: Assess the constituents of Concrete, explain their properties, classification and compatibility with concrete as per relevant IS codes

Score	No. of students	Percentage (%)
1- Can't Say	2	2
2- Hardly	0	0
3- Moderately	14	15
4- Mostly	36	39
5- Definitely	41	44
Total	93	100



CO4: State and explain the properties ,tests ,factors affecting durability and make use of it for the manufacturing of concrete

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	8	9
4- Mostly	47	51
5- Definitely	36	39
Total	93	100





Department of Civil Engineering

Academic Year: 2020-21 (Even)

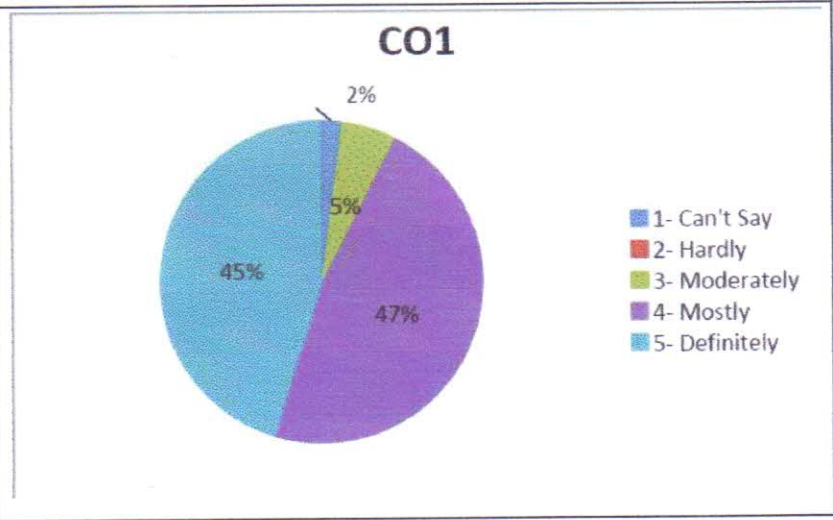
Course Exit Analysis Report (SEM IV)

Subject – Building material and concrete technology

Subject Teacher - Prof. Sujaya Wadekar / Neha Chhangani

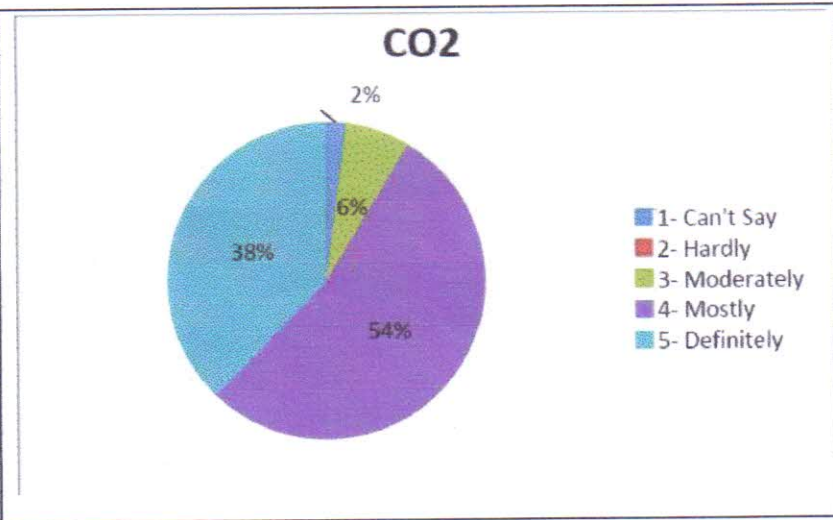
CO1: List and classify the building materials to be used for the construction work and their associated quality, durability, economy, and their role in the construction.

Score	No. of students	Percentage (%)
1- Can't Say	2	2
2- Hardly	0	0
3- Moderately	5	5
4- Mostly	44	47
5- Definitely	42	45
Total	93	100



CO2: Explain the manufacturing process, properties and usage of different types of building materials to achieve good knowledge about the building materials.

Score	No. of students	Percentage (%)
1- Can't Say	2	2
2- Hardly	0	0
3- Moderately	6	6
4- Mostly	50	54
5- Definitely	35	38
Total	93	100





Department of Civil Engineering

Academic Year: 2020-21 (Even)

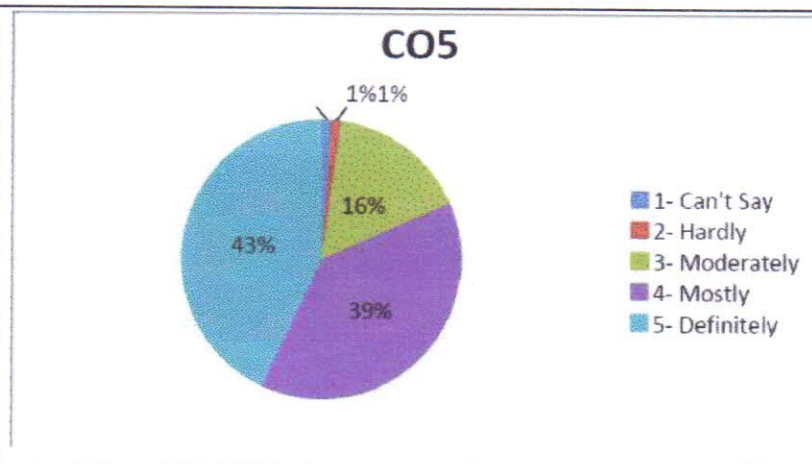
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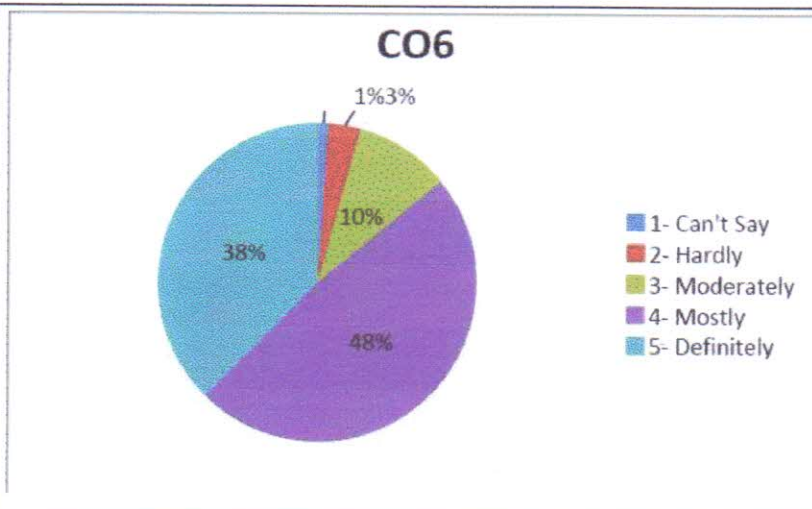
CO5: Design and interpret concrete mix for various grades for various exposure conditions.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	15	16
4- Mostly	36	39
5- Definitely	40	43
Total	93	100



CO6: To enable the students to understand and enlist various components of the Ready Mix Concrete Plant and explain the basic non-destructive test on concrete.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	3	3
3- Moderately	9	10
4- Mostly	45	48
5- Definitely	35	38
Total	93	100



Robeen
HOD (Civil)

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Saraswati College of Engineering
Kharghar, Navi Mumbai-410210



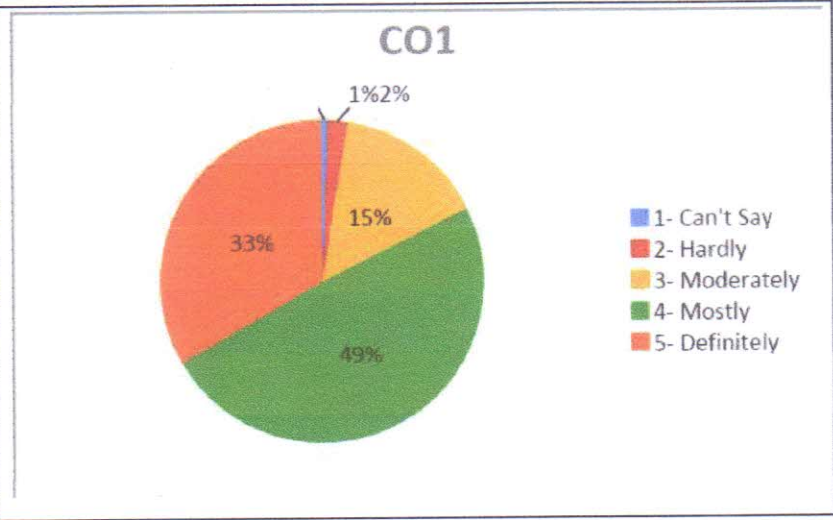
Department of Civil Engineering
Academic Year: 2020-21 (Even)
Course Exit Analysis Report (SEM IV)

Subject – Structural Analysis

Subject Teacher - Prof. Shweta Motharkar / Prof. Harshal Deshpande

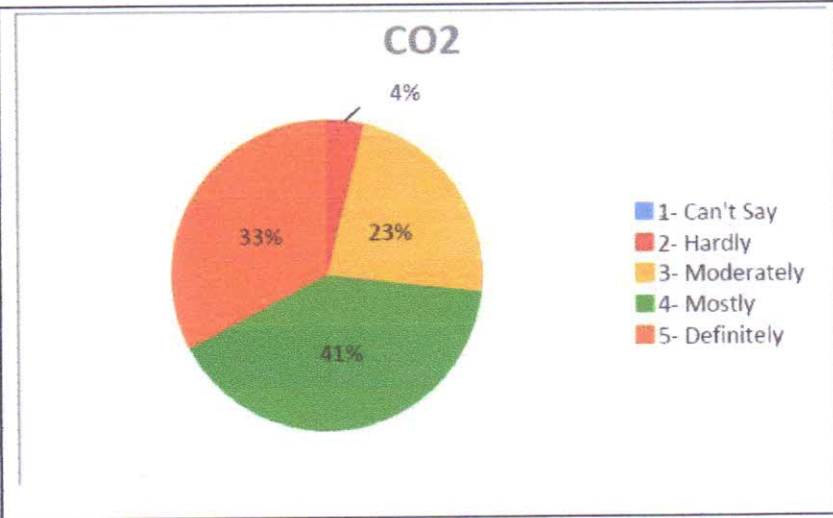
CO1: Calculate axial forces in the coplanar trusses by using Method of joints and method of sections and also calculate radial shear, normal thrust and bending moment in parabolic 3-Hinged arches.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	3	2
3- Moderately	23	15
4- Mostly	75	49
5- Definitely	51	33
Total	153	100



CO2: Draw Influence Line Diagrams for axial forces in trusses, Reactions, SF and BM in beams and determine their values when rolling loads are passing over them.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	6	4
3- Moderately	35	23
4- Mostly	62	41
5- Definitely	50	33
Total	153	100





Department of Civil Engineering

Academic Year: 2020-21 (Even)

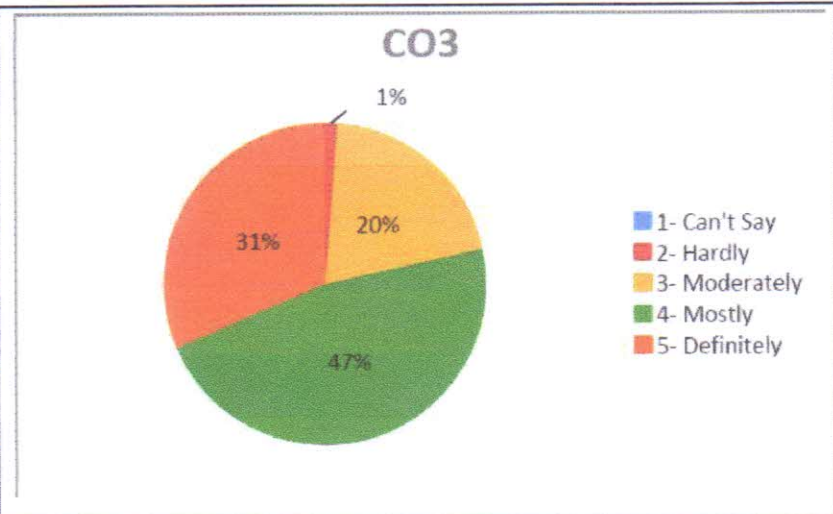
Course Exit Analysis Report (SEM IV)

Subject – Structural Analysis

Subject Teacher - Prof. Shweta Motharkar / Prof. Harshal Deshpande

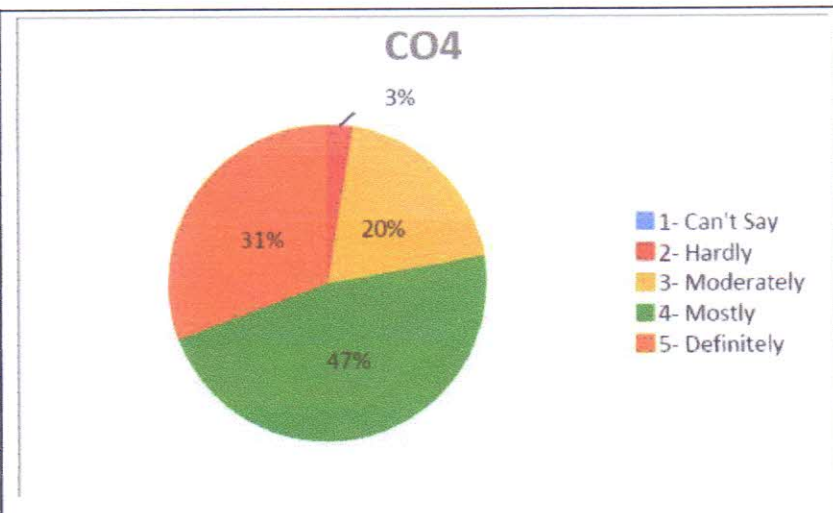
CO3: Evaluate rotation and displacement at a joint of frames and deflection at any joint of truss and will be able to compute static and kinematic indeterminacy of structures.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	31	20
4- Mostly	72	47
5- Definitely	48	31
Total	153	100



CO4: Apply Flexibility methods and make use of Clapeyron's Theorem to analyse the indeterminate structures.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	4	3
3- Moderately	30	20
4- Mostly	72	47
5- Definitely	47	31
Total	153	100





Department of Civil Engineering

Academic Year: 2020-21 (Even)

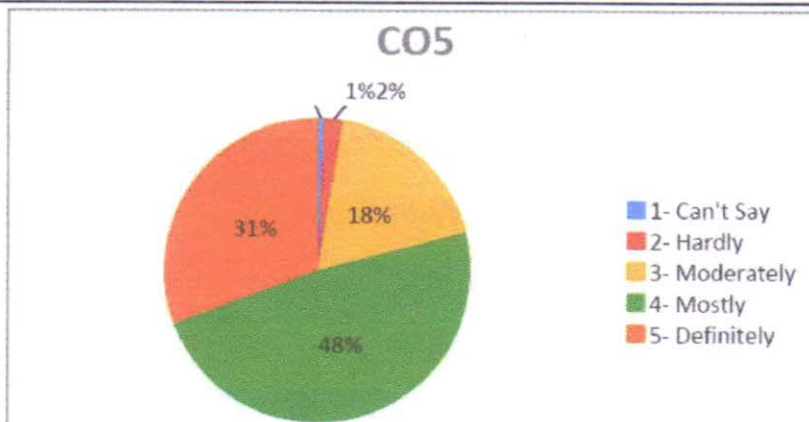
Course Exit Analysis Report (SEM IV)

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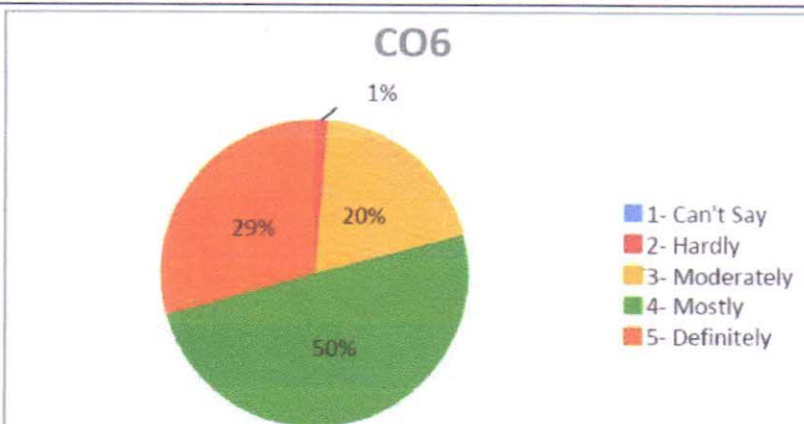
CO5: Analyse the indeterminate structures such as beams and simple rigid jointed frames using direct stiffness method.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	3	2
3- Moderately	28	18
4- Mostly	74	48
5- Definitely	47	31
Total	153	100



CO6: Analyse the indeterminate structures using moment distribution as stiffness method and to understand the concept & application of plastic analysis.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	2	1
3- Moderately	30	20
4- Mostly	76	50
5- Definitely	45	29
Total	153	100



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**Saraswati College of Engineering
Kharghar, Navi Mumbai-410210**



DEPARTMENT OF CIVIL ENGINEERING
Action taken based on feedback from students (CO & PO)
Academic year 2020-21-EVEN

Summary of feedback -Semester 4:

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.

- More practice for Engineering Mathematics IV
- Need awareness about the latest technologies and practices in industry.
- Exposure to Civil engineering software related core subjects in curriculum.
- Need animated videos for better understanding.

Action Taken:


Based on suggestions, various events are organized. Events are selected such that it will be beneficial for their career. Details of events organized at Institutional and Department level are mentioned below.

Sl No.	Feedback / Suggestions	Actions Taken	Date
1	More practice problems for EM IV	Extra classes were taken for EM IV	

2	Hands on experience on Civil engineering software	Software Training Program on BIM REVIT ESSENTIAL	01/6/2021 - 05/6/2021
3	Hands on experience on Civil engineering software	Software training on QGIS	19/07/2021
4	Visual aids for related topics	Animated videos and ppts were shared for better understanding of FM II and BMCT	As required
5	More practice problems for EM IV	Extra classes were taken for EM IV	As required


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Department of Civil Engineering

Academic Year: 2020-21 (Odd)

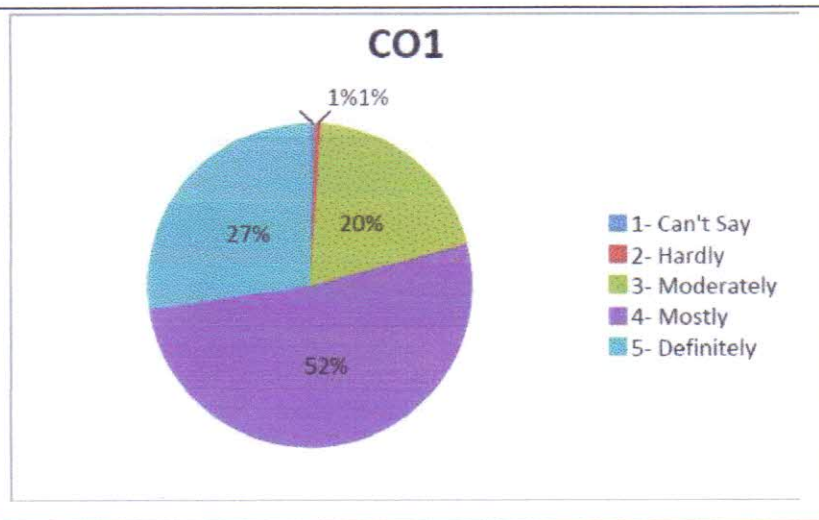
Course Exit Analysis Report (SEM V)

Subject – Geotechnical Engineering-I

Subject Teacher - Prof. Yughandhara Kasture / Manoj Pillai / Sanjay Singh

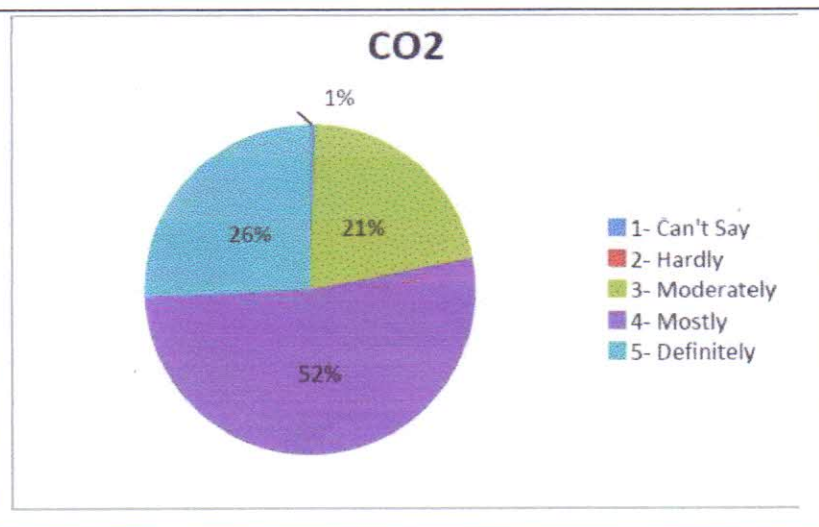
CO1: Apply basic definitions and relationships between various unit weights & other parameters to solve three phase system problems.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	1	1
3- Moderately	37	20
4- Mostly	97	52
5- Definitely	51	27
Total	187	100



CO2: Use the appropriate procedures to conduct experiments on methods of determining index properties to identify and classify the soil.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	0	0
3- Moderately	40	21
4- Mostly	98	52
5- Definitely	48	26
Total	187	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

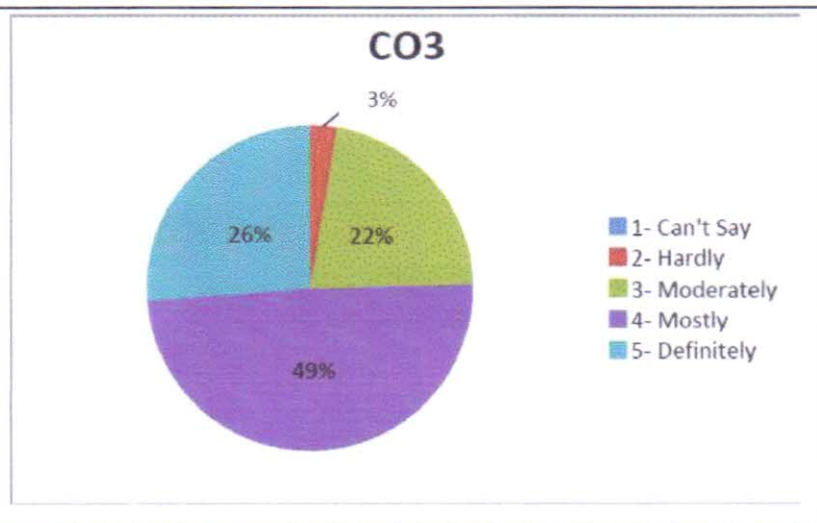
Course Exit Analysis Report (SEM V)

Subject – Geotechnical Engineering-I

Subject Teacher - Prof. Yughandhara Kasture / Manoj Pillai / Sanjay Singh

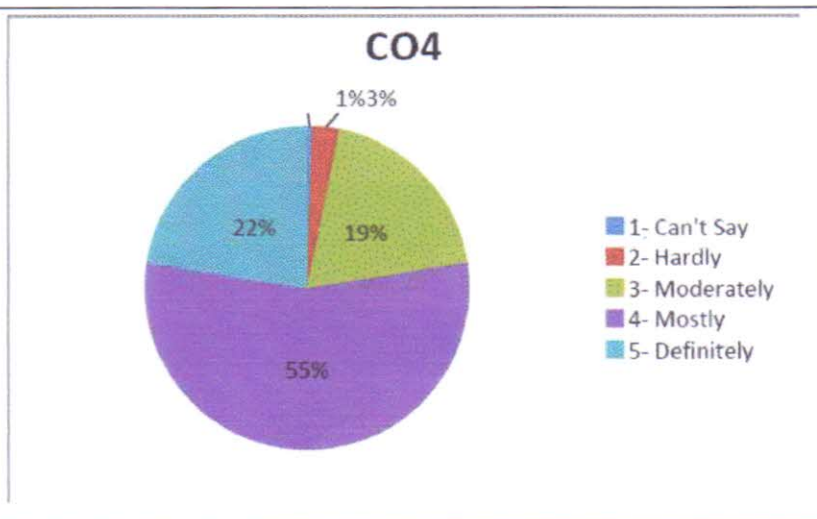
CO3: Classify the soil according to different classification systems and identify the suitability of a given soil for use; either to support or construct a structure.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	5	3
3- Moderately	41	22
4- Mostly	92	49
5- Definitely	49	26
Total	187	100



CO4: Analyze the properties of soil related to flow of water such as permeability, seepage & flow net to draw conclusions

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	5	3
3- Moderately	36	19
4- Mostly	103	55
5- Definitely	42	22
Total	187	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

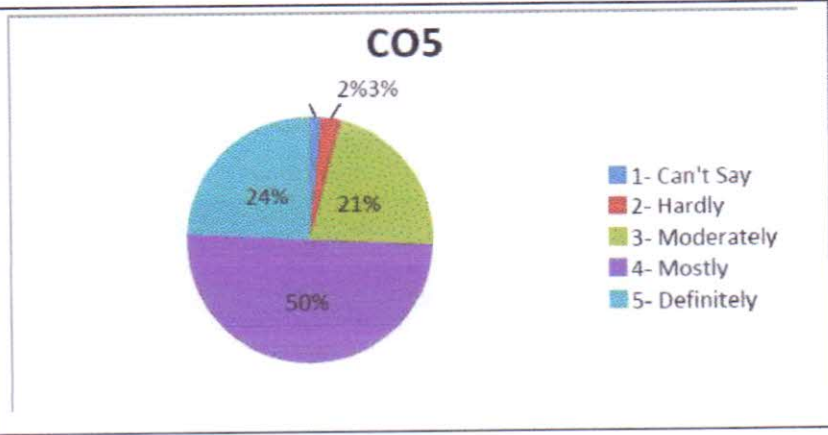
Course Exit Analysis Report (SEM V)

Subject – Geotechnical Engineering-I

Subject Teacher - Prof. Yughandhara Kasture / Manoj Pillai / Sanjay Singh

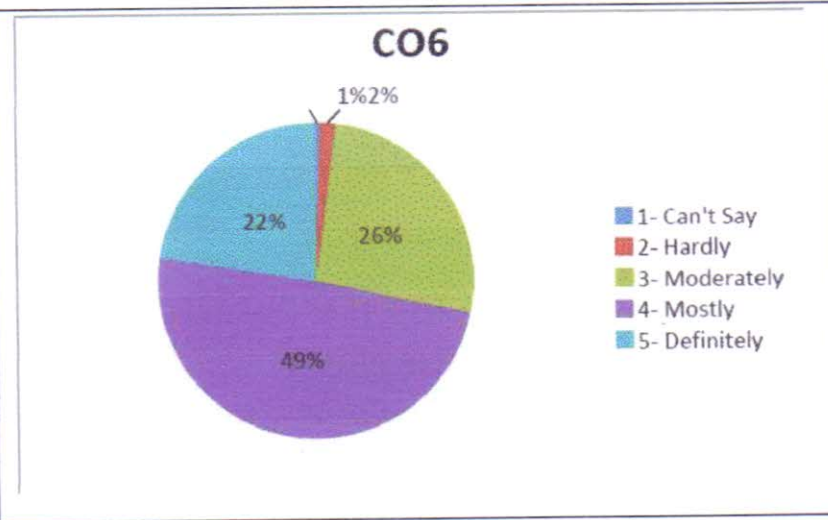
CO5: Determine the total stress, neutral stress and effective stress and draw stress figures of a soil to complement writing and presentations.

Score	No. of students	Percentage (%)
1- Can't Say	3	2
2- Hardly	5	3
3- Moderately	40	21
4- Mostly	94	50
5- Definitely	45	24
Total	187	100



CO6: Evaluate the compression characteristics in laboratory & field also interpret soil boring data for foundation design to evaluate the financial status of an engineering project.

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	3	2
3- Moderately	49	26
4- Mostly	92	49
5- Definitely	42	22
Total	187	100



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Department of Civil Engineering

Academic Year: 2020-21 (Odd)

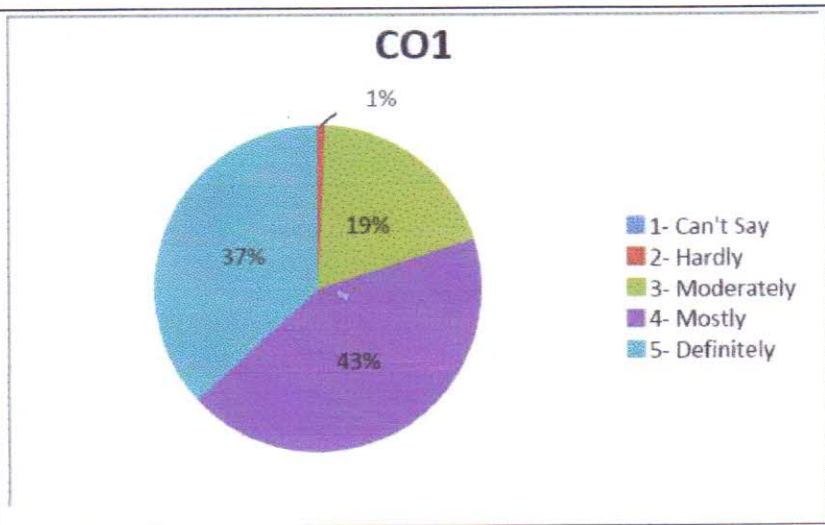
Course Exit Analysis Report (SEM V)

Subject – Environmental Engineering - I

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

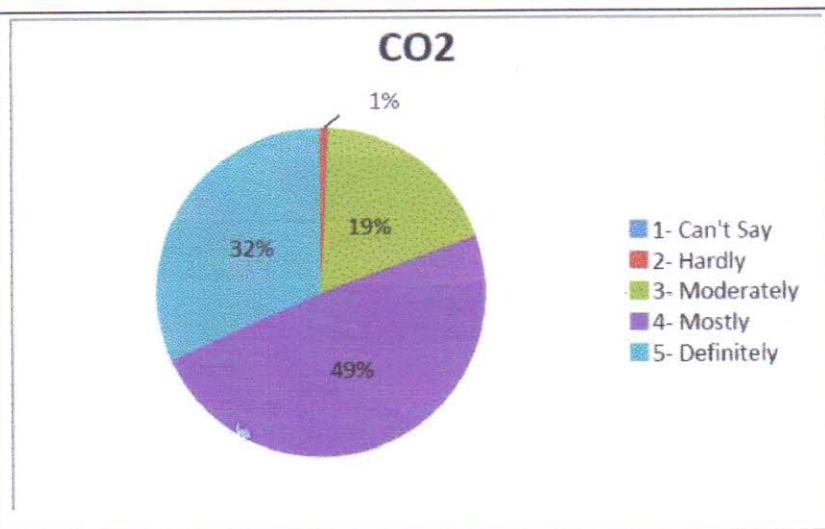
CO1: Explain the water supply system, its components and water demand by various consumers.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	27	19
4- Mostly	60	43
5- Definitely	51	37
Total	139	100



CO2: Examine the quality of water, water treatment flow diagram, water quality standards.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	1	1
3- Moderately	26	19
4- Mostly	68	49
5- Definitely	44	32
Total	139	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

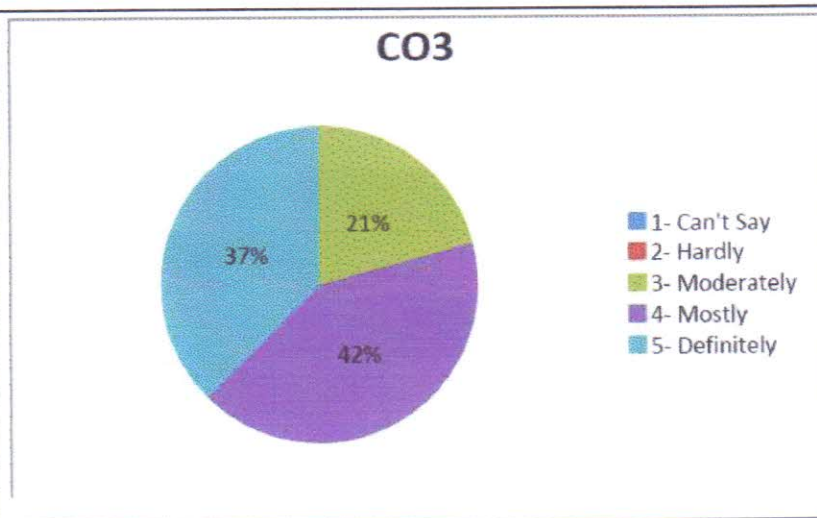
Course Exit Analysis Report (SEM V)

Subject – Environmental Engineering - I

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

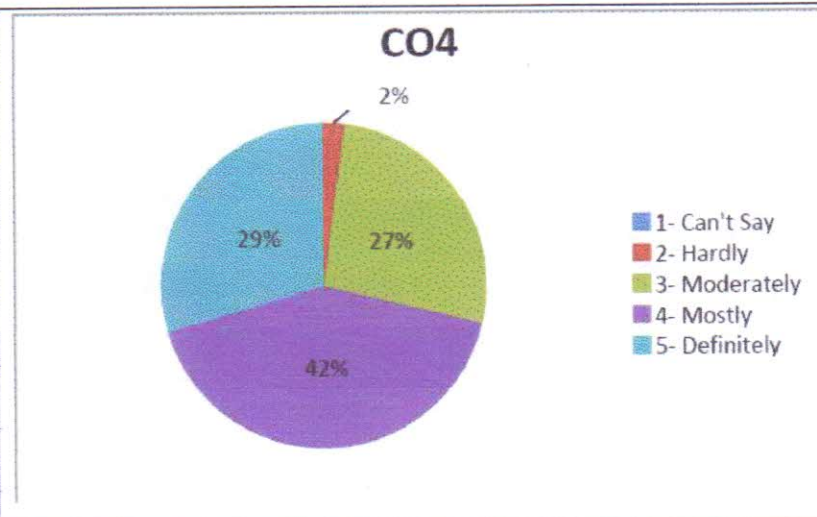
CO3: Illustrate the different processes in the water treatment facility that is aeration, sedimentation, coagulation, filtration, water softening, chlorination and miscellaneous treatments

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	0	0
3- Moderately	29	21
4- Mostly	58	42
5- Definitely	52	37
Total	139	100



CO4: Design the different units of treatment for water treatment plants. design of sedimentation, filtration tank. (Numericals)

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	2
3- Moderately	37	27
4- Mostly	58	42
5- Definitely	41	29
Total	139	100





Department of Civil Engineering

Academic Year: 2020-21 (Odd)

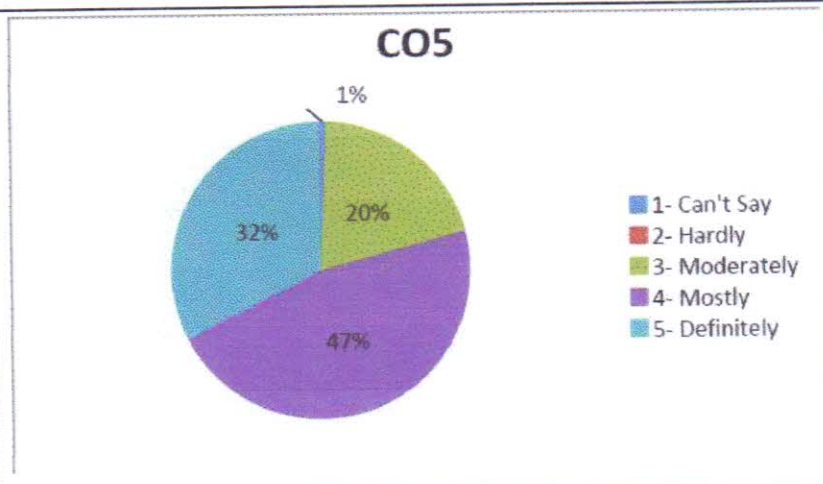
Course Exit Analysis Report (SEM V)

Subject – Environmental Engineering - I

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

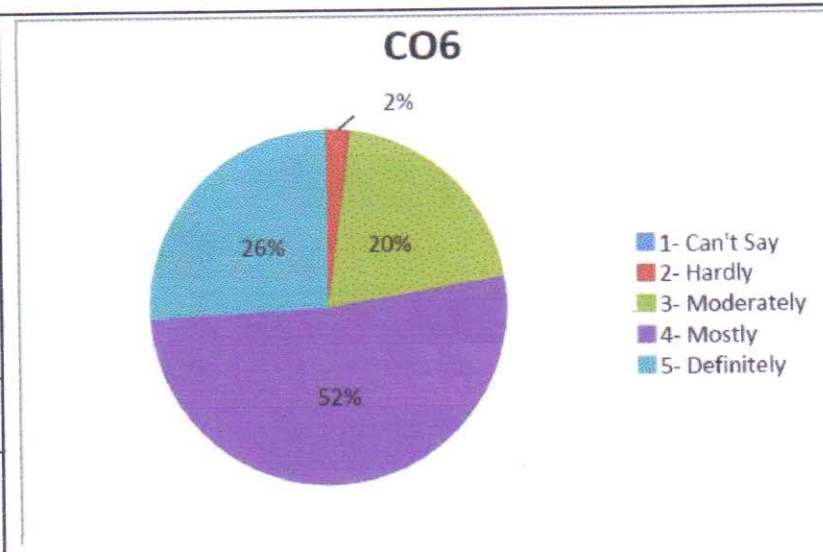
CO5: Understand the components of building water supply system sanitary fixtures fittings, storage and rain water harvesting

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	0	0
3- Moderately	28	20
4- Mostly	65	47
5- Definitely	45	32
Total	139	100



CO6: Describe effects and controls of air and noise pollution.

Score	No. of students	Percentage (%)
1- Can't Say	0	0
2- Hardly	3	2
3- Moderately	28	20
4- Mostly	72	52
5- Definitely	36	26
Total	139	100



Robeena
HOD (Civil)
**HEAD OF DEPARTMENT
CIVIL ENGINEERING
SARASWATI COLLEGE OF
ENGINEERING**

Principal
Principal (SCOE)
**PRINCIPAL
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210**



DEPARTMENT OF CIVIL ENGINEERING
Action taken based on feedback from students
Academic year 2020-21 ODD

Summary of feedback -Semester 5:

Feedbacks collected from students are analysed and implemented necessary actions for preparing the students to cope up with the present requirements in Industry. Abstract of suggestions obtained to enhance the employability of the student are discussed below.

- Need awareness about the latest technologies and practices in industry.
- Need experience on Civil engineering software related core subjects in curriculum.
- Need more exposure towards design of infrastructure. Roads, Bridges, Airports etc
- Need site visits

Action Taken:

Based on suggestions received to bridge the gap between the curriculum and the current industrial practices, various events are organized. Events are selected such that it will be beneficial for their career as a 'Civil Engineer'. Details of events organized at Institutional and Department level are mentioned below.

Sl no.	Suggestions	Action taken	Date
1	Latest technologies and practices in industry	Webinar on Remote Sensing applications in Agricultural Water Management	3/8/2020 - 7/8/2020

2	Hands on experience on Civil engineering software	Software Training Program on BIM REVIT ESSENTIAL	01/6/2021 - 05/6/2021
3	Hands on experience on Civil engineering software	Software training on QGIS	19/07/2021
4	latest technologies and practices in industry	Webinar on 'Disaster management and monsoon preparedness	8/9/21


HOD

Civil Engg. Dept.

**HEAD OF DEPARTMENT
CIVIL ENGINEERING
SARASWATI COLLEGE OF
ENGINEERING**


Principal

SCOE

**PRINCIPAL
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210**



Department of Civil Engineering

Academic Year: 2020-21 (Even)

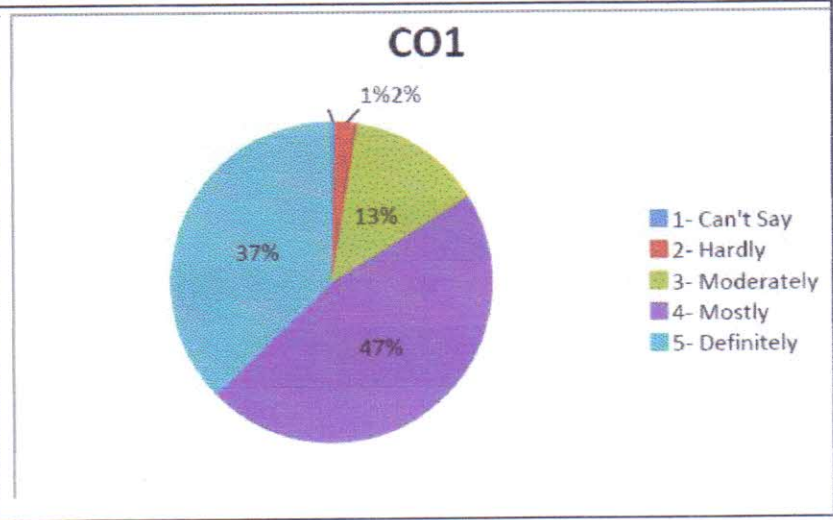
Course Exit Analysis Report (SEM VI)

Subject – Water Resource Engineering - I

Subject Teacher - Prof. Hemant Sarje / Prof. Neha Chhangani

CO1: Identify the basics of Irrigation engineering and types of irrigation projects along with National Water policy

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	4	2
3- Moderately	25	13
4- Mostly	87	47
5- Definitely	69	37
Total	186	100



CO2: Able to choose Choose and compare different techniques and methods of irrigation and Identify the strength and limitations of different techniques for a particular crop grown over an area

Score	No. of students	Percentage (%)
1- Can't Say	1	1
2- Hardly	5	3
3- Moderately	31	17
4- Mostly	88	47
5- Definitely	61	33
Total	186	100

