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SARASWATI College of Engineering

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Kharghar, Navi Mumbai - 410 210.

NAAC A⁺ ACCREDITED

DEPARTMENT OF FIRST YEAR ENGINEERING

Action Taken Report

Action taken report on Feedback received from the Students in Academic Year 2023-2024.

SEM: SEM I

Year: FE

Sr. No.	Subject	Feedback/concern	Action Taken
1	EM I	All content was good but require more time for partial derivative.	Extra lectures were arranged for the practice of partial differentiation.
2	EPI	Syllabus is Vast as per the total hours mentioned in the syllabus	Extra lectures were taken, shared Video with students to get the practical knowledge
3	ECI	Content provided is sufficient Students Suggestion: Time given to complete the syllabus is not sufficient.	Extra lectures, some practical's and NPTEL lectures were shown to cover the depth of the syllabus to fulfill future learning.
4	BEE	Content provided in syllabus is vast but interesting and satisfied with all course objectives	conducted extra lectures, and doubt solving session.
5	EM	Some students had a difficulty in Understanding topic named kinematics of particle.	Extra lectures to explain kinematics of particle were taken.

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DEPARTMENT OF FIRST YEAR ENGINEERING
Action taken based on feedback from students
Academic year 2023 - 2024 (SEM I)

Summary of feedback (Semester I):

All students of SEM I had given feedbacks for all the subjects which were collected through course exit forms. Those feedbacks were analysed and necessary actions were planned for effective teaching. Some suggestions obtained from the students are as follows.

1. Content provided is sufficient for most of the subjects .
2. More sessions required for partial differentiation for EM-I
3. Syllabus is vast difficult to complete in given time

Action Taken: Based on suggestions, various actions are taken. Details of events organized at Institutional and Department level for betterment of student's career are mentioned below.

Sr. No.	Feedback / Suggestions	Actions Taken	Date
1	More Problem solving sessions required for partial differentiation for EM-I	Practice sessions were taken in tutorial hours.	As required
2	Need more practice for Chemistry and Physics	Numerical PDF given to students	During lecture session
3	Syllabus is vast difficult to complete in given time	Extra lecture taken and notes are given	As per requirement of subject

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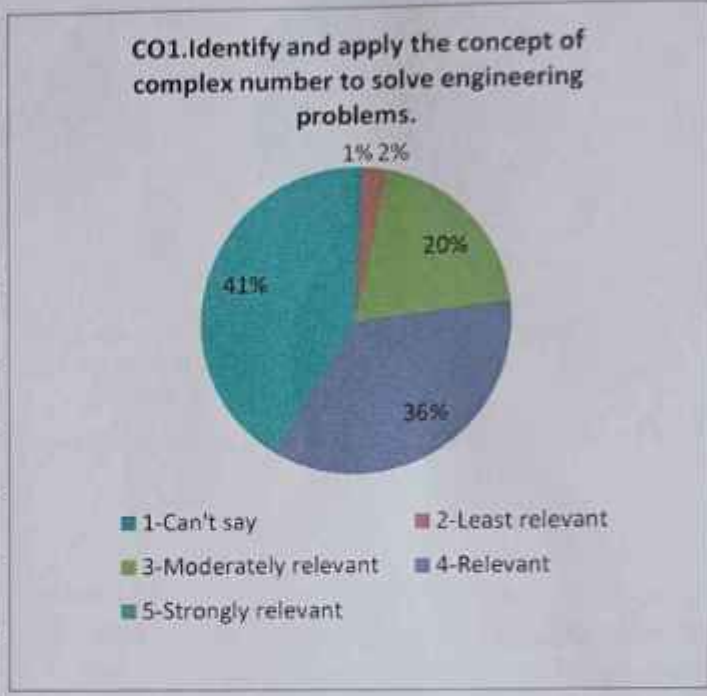
Department of First Year Engineering
Academic Year: 2023-2024

Course Exit Analysis Report (SEM I)

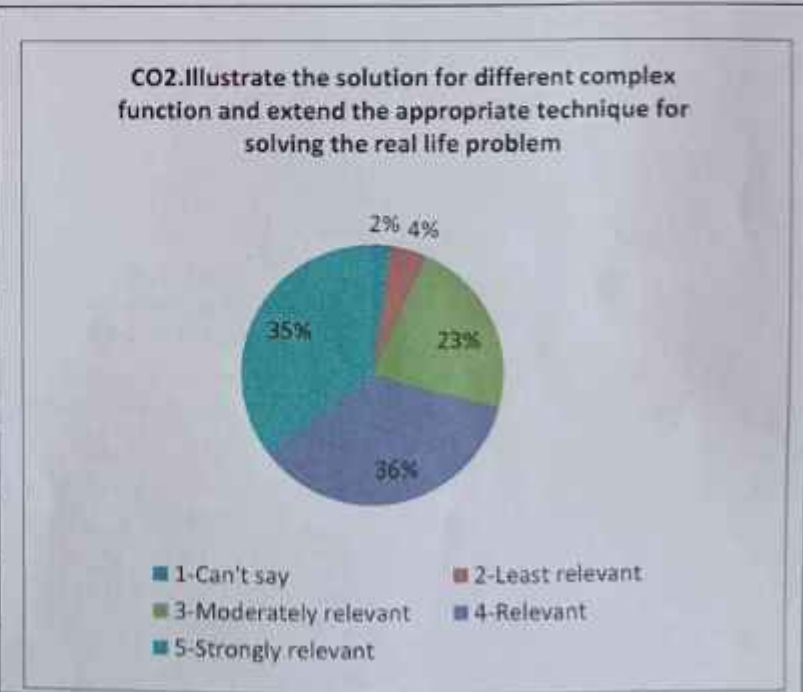
Subject – Engineering Mathematics I

Subject Teacher – Dr.Sayali Choudhari, Prof.S.Kadam,Prof.Santoshi.I Prof.Vasudev N., Prof. Rodge G.R.

co1. Identify and apply the concept of complex number to solve engineering problems		
Score	No. of Students	Percentage (%)
1-Can't say	3	1.00
2-Least relevant	10	2.00
3-Moderately relevant	77	20.00
4-Relevant	139	36.00
5-Strongly relevant	161	41.00
Total	390	100.00



CO2. Illustrate the solution for different complex function and extend the appropriate technique for solving the real life problem		
Score	No. of Students	Percentage (%)
1-Can't say	9	2.00
2-Least relevant	17	4
3-Moderately relevant	88	23.00
4-Relevant	138	36
5-Strongly relevant	138	35.00
Total	390	100.00

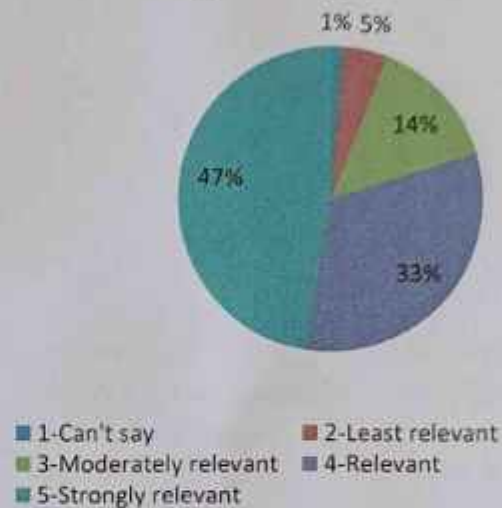




CO3. Deal with partial derivatives and analyses the principles of partial derivatives to engineering problems.

Score	No. of Students	Percentage (%)
1-Can't say	5	1.00
2-Least relevant	18	5.00
3-Moderately relevant	55	14.00
4-Relevant	127	33.00
5-Strongly relevant	185	47.00
Total	390	100.00

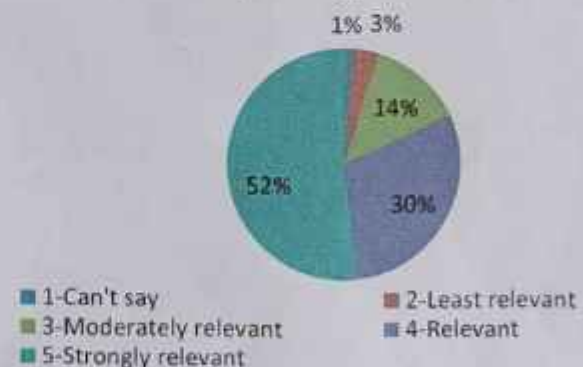
CO3. Deal with partial derivatives and analyses the principles of partial derivatives to engineering problems.



CO4. Classify maxima and minima of function and apply the knowledge in engineering as well as day to day problems

Score	No. of Students	Percentage (%)
1-Can't say	5	1.0
2-Least relevant	13	3.0
3-Moderately relevant	52	14.0
4-Relevant	117	30.0
5-Strongly relevant	203	52.0
Total	390	100.00

CO4. Classify maxima and minima of function and apply the knowledge in engineering as well as day to day problems





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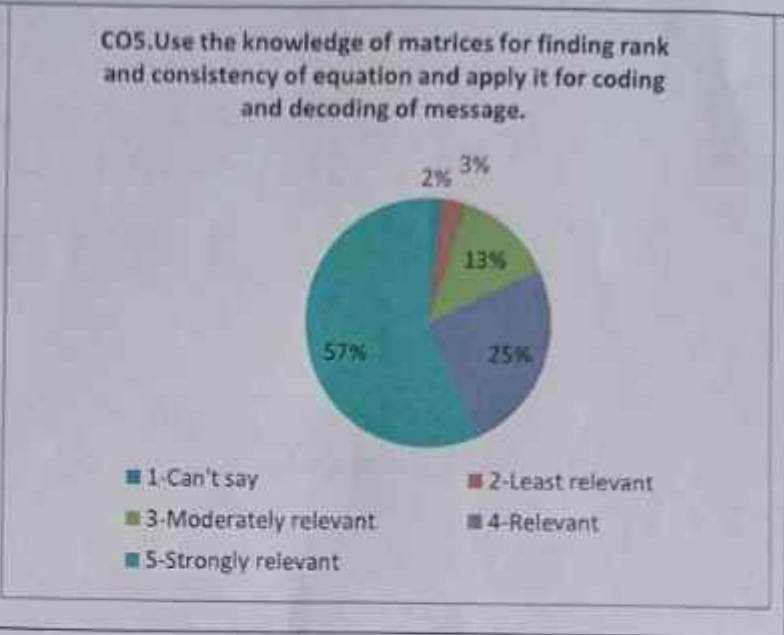
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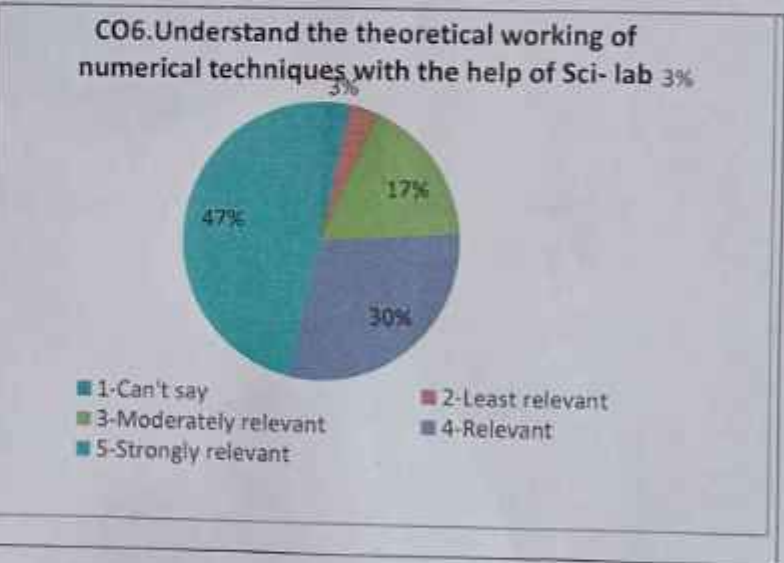
CO5. Use the knowledge of matrices for finding rank and consistency of equation and apply it for coding and decoding of message.

Score	No. of Students	Percentage (%)
1-Can't say	7	2.00
2-Least relevant	12	3.00
3-Moderately relevant	50	13.00
4-Relevant	99	25
5-Strongly relevant	222	57.00
Total	390	100.00



CO6. Understand the theoretical working of numerical techniques with the help of Sci-lab

Score	No. of Students	Percentage (%)
1-Can't say	13	3.00
2-Least relevant	13	3.00
3-Moderately relevant	67	17.00
4-Relevant	115	30
5-Strongly relevant	182	47.00
Total	390	100.00



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 Subject In charge



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ACADEMIC YEAR 2023-24

DEPARTMENT OF FIRST YEAR ENGINEERING

Course Exit Analysis Report (SEM I)

Subject- EP I

Division – A,B,C,D,E,F

CO1: On what scale will you rate your ability to understand the concept like wave particle duality, de Broglie's hypothesis, Heisenberg's uncertainty principle, time dependent/independent Schrödinger wave equation.

Score	No. of Students	Percentage
1-Can't say	14	4
2-Least relevant	32	9
3-Moderately relevant	101	28
4-Relevant	114	31
5-Strongly relevant	103	28
Total	364	100

CO2: On what scale will you rate your ability to understand the concept of Miller indices of crystallographic planes and directions along with X-Ray diffraction technique to analyze different crystal structures.

Score	No. of Students	Percentage
1-Can't say	17	5
2-Least relevant	27	7
3-Moderately relevant	86	24
4-Relevant	114	31
5-Strongly relevant	120	33
Total	364	100



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ACADEMIC YEAR 2023-24

DEPARTMENT OF FIRST YEAR ENGINEERING

Course Exit Analysis Report (SEM I)

CO3: On what scale will you rate your ability to Correlate the real life application of semiconductors in electronic devices as well as to comprehend the concept of fermi energy level in semiconductors.

Score	No. of Students	Percentage
1-Can't say	11	3
2-Least relevant	25	7
3-Moderately relevant	87	24
4-Relevant	120	33
5-Strongly relevant	121	33
Total	364	100

CO4: 4. On what scale will you rate your ability to concept of intereference in thin films.

Score	No. of Students	Percentage
1-Can't say	11	3
2-Least relevant	35	9
3-Moderately relevant	97	27
4-Relevant	101	28
5-Strongly relevant	120	33
Total	364	100



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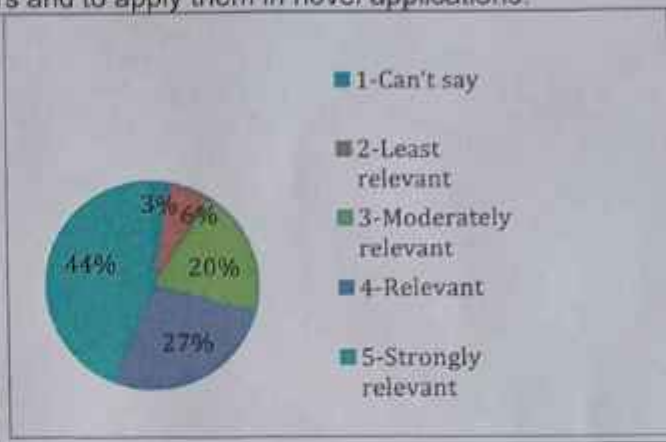
ACADEMIC YEAR 2023-24

DEPARTMENT OF FIRST YEAR ENGINEERING

Course Exit Analysis Report (SEM I)

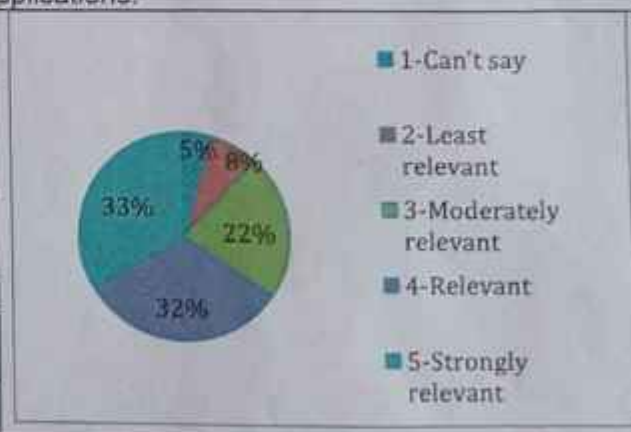
CO5: On what scale will you rate your ability to understand different properties of Superconductors as well as Supercapacitors and to apply them in novel applications.

Score	No. of Students	Percentage
1-Can't say	10	3
2-Least relevant	24	6
3-Moderately relevant	72	20
4-Relevant	99	27
5-Strongly relevant	159	44
Total	364	100



CO6: On what scale you will rate your ability to Analyze properties of different engineering materials for their current and futuristic frontier applications.

Score	No. of Students	Percentage
1-Can't say	17	5
2-Least relevant	27	8
3-Moderately relevant	81	22
4-Relevant	118	32
5-Strongly relevant	121	33
Total	364	100



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 Subject Incharge

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 Dr. Sayali Chandhan

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Department of First Year Engineering

Academic Year: 2023-24

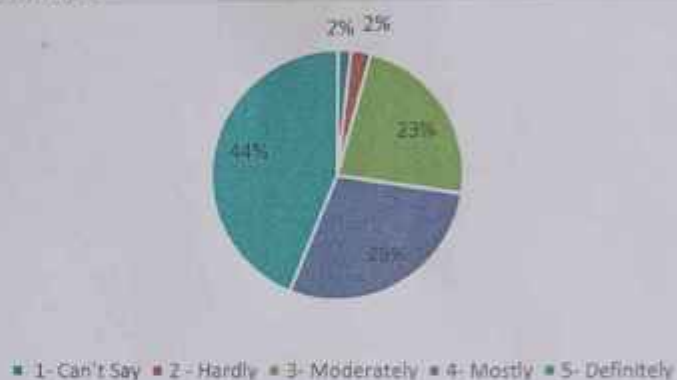
Course Exit Analysis Report (SEM I)

Subject – Engineering Chemistry- I

Subject Teacher – Dr.Sunita Pal/Dr.Sindh Tayade

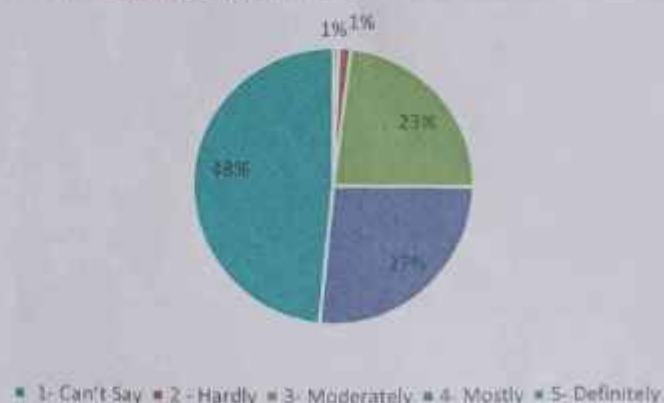
Score	No. of Students	Percentage (%)
1- Can't Say	6	1.7
2 - Hardly	9	2.5
3- Moderately	82	23.1
4- Mostly	102	28.7
5- Definitely	156	43.9
Total	355	100

CO1: Students will be able to explain the concept of microscopic chemistry in terms of atomic and molecular orbital theory and relate it to diatomic molecules



Score	No. of Students	Percentage (%)
1- Can't Say	2	0.6
2 - Hardly	5	1.4
3- Moderately	82	23.1
4- Mostly	94	26.5
5- Definitely	172	48.5
Total	355	100

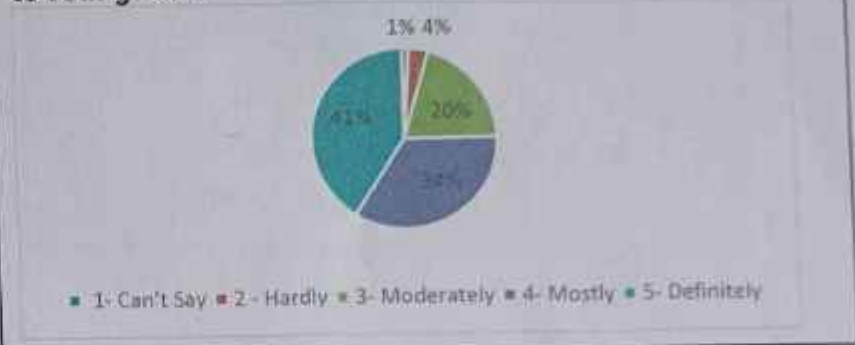
CO 2: Students will be able to describe the concept of aromaticity and interpret it with relation to specific aromatic systems.





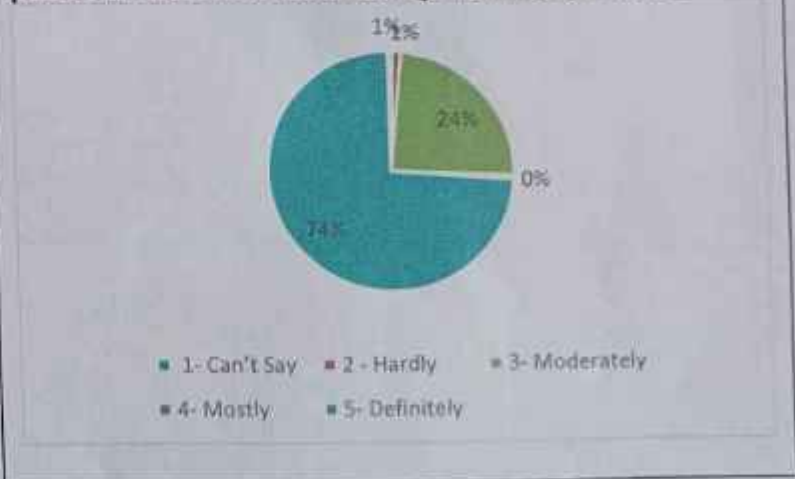
Score	No. of Students	Percentage (%)
1- Can't Say	4	1.1
2 - Hardly	12	3.4
3- Moderately	72	20.3
4- Mostly	122	34.4
5- Definitely	145	40.8
Total	355	100

CO3: Students will be able to illustrate the knowledge of various types of inter molecular forces and relate it to real gases.



Score	No. of Students	Percentage (%)
1- Can't Say	1.4	5
2 - Hardly	2.8	10
3- Moderately	58	16.3
4- Mostly	1.3	29
5- Definitely	179	50.4
Total	355	100

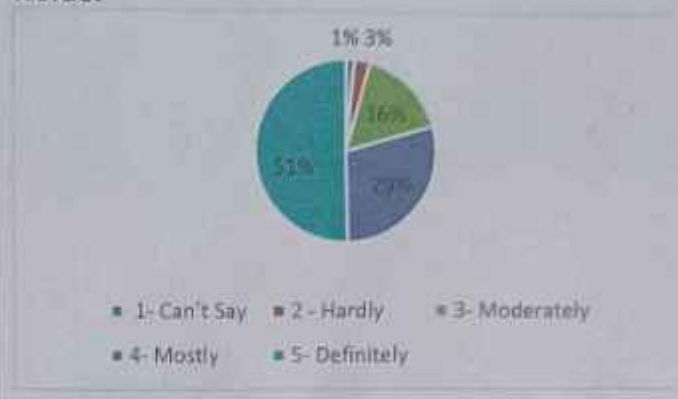
CO4: Students will be able to interpret various phase transformations using thermodynamics





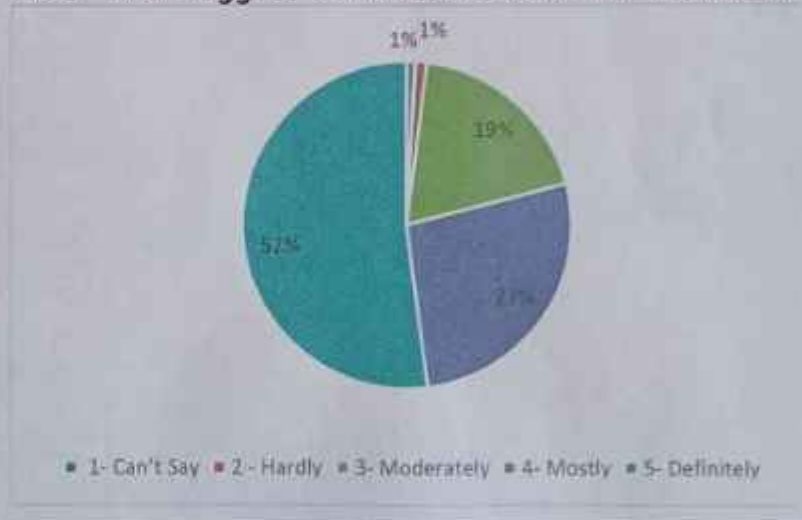
Score	No. of Students	Percentage (%)
1- Can't Say	5	1.4
2 - Hardly	10	20.8
3- Moderately	58	16.3
4- Mostly	103	29
5- Definitely	179	50.4
Total	355	100

CO5: Students will be able to illustrate the knowledge of polymers, fabrication methods, conducting polymers in various industrial fields.



Score	No. of Students	Percentage (%)
1- Can't Say	3	0.8
2 - Hardly	4	1.1
3- Moderately	67	18.9
4- Mostly	96	27
5- Definitely	185	52.1
Total	355	100

CO6: Students will be able to Analyze the quality of water and suggest suitable methods of treatment.



Subject EIC



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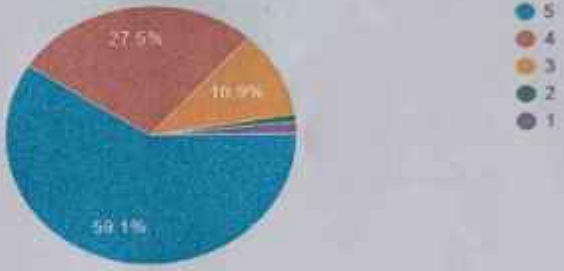
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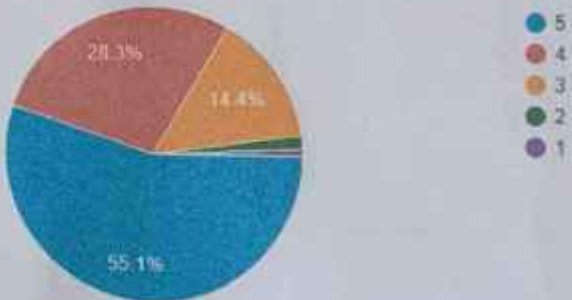
Department of First Year Engineering
 Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM I)
 Subject: Basic Electrical Engineering

CO1: On what scale will you rate your ability to understand the concept of D.C. Circuit?

Degree of relevance	No. of Students	Percentage	CO1: what scale will you rate your ability to understand the concept of D.C. Circuit? 
5- Strongly relevant	234	59.1%	
4- Moderately Relevant	109	27.5%	
3- Relevant,	43	10.9%	
2- Least Relevant,	4	1%	
1-Can't say	6	1.5%	
Total	396	100	

CO2: Are you able to apply and evaluate DC circuit's theorems?

Degree of relevance	No. of Students	Percentage	CO2: Are you able to apply and evaluate DC circuit's theorems? 
5- Strongly relevant	218	55.1%	
4- Moderately Relevant	112	28.3%	
3- Relevant,	57	14.4%	
2- Least Relevant,	6	1.5%	
1-Can't say	3	0.8%	
Total	396	100	



CO3: Are you able to understand & analyze single Phase AC circuits?

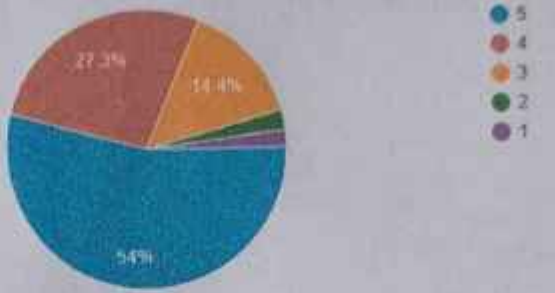
Degree of relevance	No. of Students	Percentage	CO3: Are you able to understand & analyze single Phase AC circuits?
5- Strongly relevant	187	47.2%	
4- Moderately Relevant	118	29.8%	
3- Relevant,	72	18.2%	
2- Least Relevant,	15	3.8%	
1-Can't say	4	1%	
Total	396	100	

CO4: Are you able to understand & analyze three Phase AC circuits?

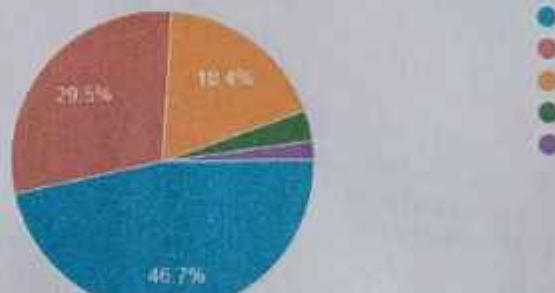
Degree of relevance	No. of Students	Percentage	CO4: Are you able to understand & analyze three Phase AC circuits?
5- Strongly relevant	191	48.2%	
4- Moderately Relevant	115	29%	
3- Relevant,	73	18.4%	
2- Least Relevant,	13	3.3%	
1-Can't say	4	1%	
Total	396	100	



CO5: Are you able to describe working principle of single phase transformer?

Degree of relevance	No. of Students	Percentage	CO5: Are you able to describe working principle of single phase transformer? 
5- Strongly relevant	214	54%	
4- Moderately Relevant	108	27.3%	
3- Relevant,	57	14.4%	
2- Least Relevant,	9	2.3%	
1-Can't say	8	2%	
Total	396	100	

CO6: Are you able to understand the concept and working principle of Electrical machines?

Degree of relevance	No. of Students	Percentage	CO6: Are you able to understand the concept and working principle of Electrical machines? 
5- Strongly relevant	185	46.7%	
4- Moderately Relevant	117	29.5%	
3- Relevant,	73	18.4%	
2- Least Relevant,	13	3.3%	
1-Can't say	8	2%	
Total	396	100	

Subject In charges

Prof. Rajashri N./ Prof.Pallavi K./ Prof.Nilesh P

HOD

Prof. Sayali Choudhari

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Department of First Year Engineering
 Academic Year 2023-24(ODD SEM)

Course Exit Analysis Report (Sem I)

Subject - EM

Subject Incharge - Prof. Baviskar D.D. /Prof. Sandeep Jadhav/ Prof. Amol Bhagat

Score	No. of Students	Percentage
1-Can't Say	4	1
2-Least Relevant	7	2
3-Moderately Relevant	45	12
4-Relevant	135	35
5-Strongly Relevant	200	51
Total	391	100%

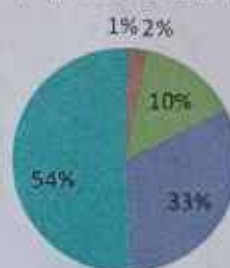
CO1. On what scale will you rate your ability to understand the concept of force, moment, and apply the same along with the concept of equilibrium with the help of FBD?



■ 1-Can't Say ■ 2-Least Relevant ■ 3-Moderately Relevant
 ■ 4-Relevant ■ 5-Strongly Relevant

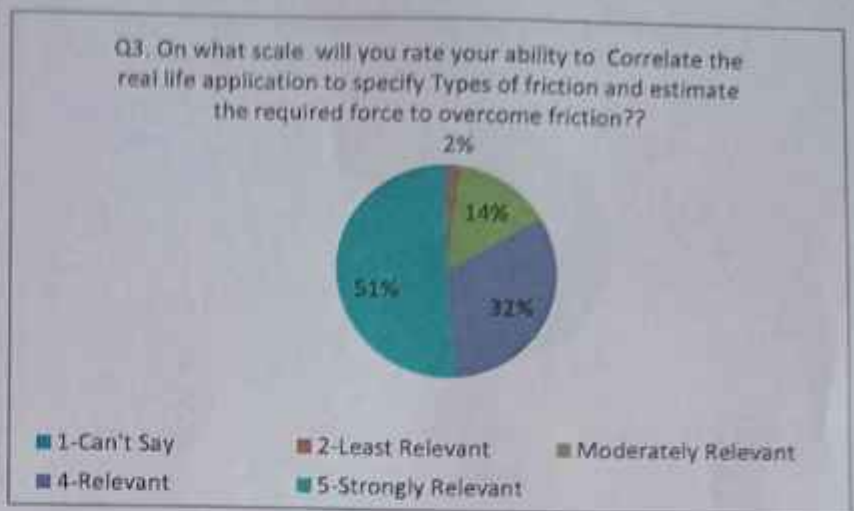
Score	No. of Students	Percentage
1-Can't Say	2	1
2-Least Relevant	7	2
3-Moderately Relevant	41	10
4-Relevant	130	33
5-Strongly Relevant	211	54
Total	391	100%

CO. 2 On what scale will you rate your ability to understand the concept of total load of Uniformly distributed load, Uniformly varying load and its point of application?

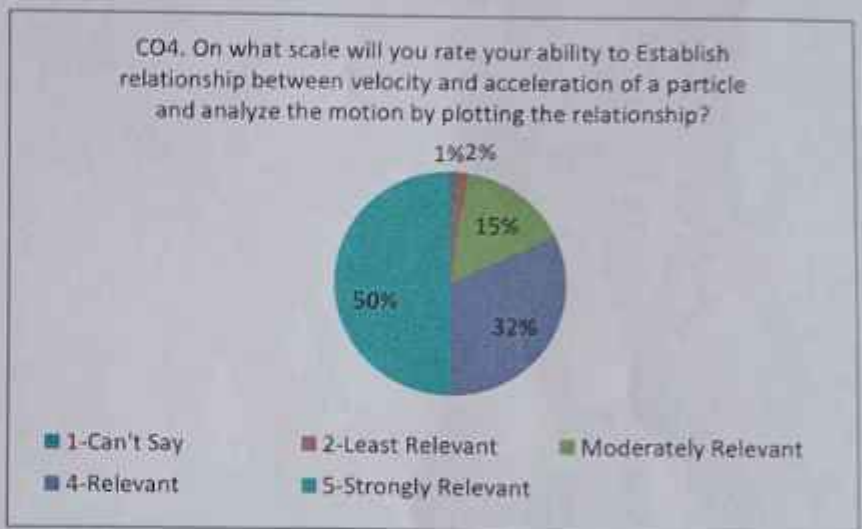


■ 1-Can't Say ■ 2-Least Relevant ■ Moderately Relevant
 ■ 4-Relevant ■ 5-Strongly Relevant

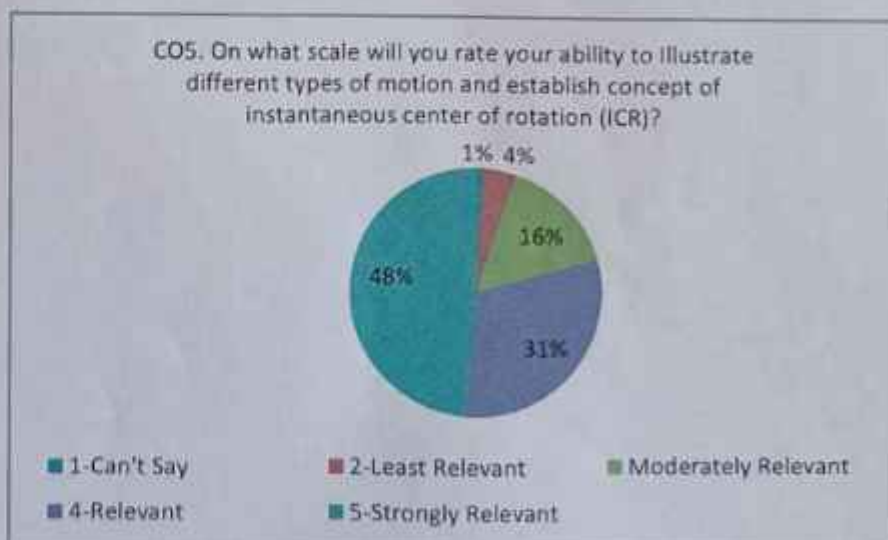
Score	No. of Students	Percentage
1-Can't Say	1	0
2-Least Relevant	7	2
3-Moderately Relevant	56	14
4-Relevant	126	32
5-Strongly Relevant	201	51
Total	391	100%



Score	No. of Students	Percentage
1-Can't Say	3	1
2-Least Relevant	7	2
3-Moderately Relevant	60	15
4-Relevant	125	32
5-Strongly Relevant	196	50
Total	391	100%



Score	No. of Students	Percentage
1-Can't Say	4	1
2-Least Relevant	16	4
3-Moderately Relevant	61	16
4-Relevant	120	31
5-Strongly Relevant	190	49
Total	391	100%



Score	No. of Students	Percentage
1-Can't Say	4	1
2-Least Relevant	9	2
3-Moderately Relevant	68	17
4-Relevant	111	28
5-Strongly Relevant	199	51
Total	391	100%

CO6. On what scale you will rate your ability to Analyze body in motion using acceleration work-energy, impulse-momentum Principles.?



■ 1-Can't Say ■ 2-Least Relevant ■ Moderately Relevant
 ■ 4-Relevant ■ 5-Strongly Relevant

Subject Incharge

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