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Kharghar, Navi Mumbai - 410 210

Department of First Year Engineering

Academic Year: 2019-20

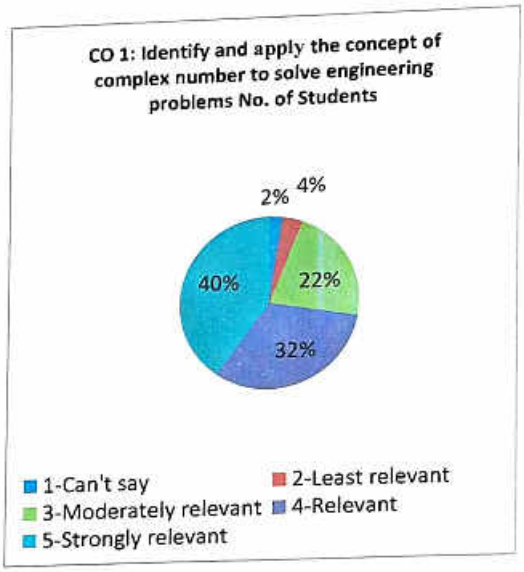
Course Exit Analysis Report (SEM I)

Subject – Engineering Mathematics I

Subject Teacher – Dr. Sayali Choudhari, Prof.Vasudev Nazirkar, Prof. Shirish k.

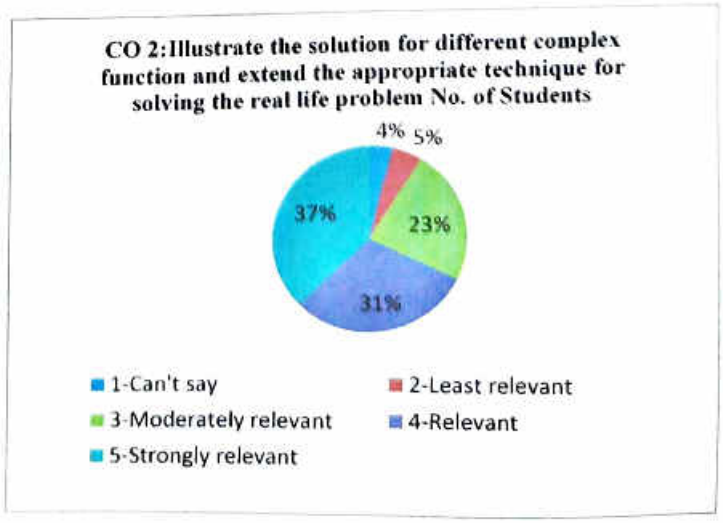
CO 1: Identify and apply the concept of complex number to solve engineering problems

Score	No. of Students	Percentage (%)
1-Can't say	3	2.18
2-Least relevant	5	3.65
3-Moderately relevant	30	21.9
4-Relevant	44	32
5-Strongly relevant	55	40
Total	137	100



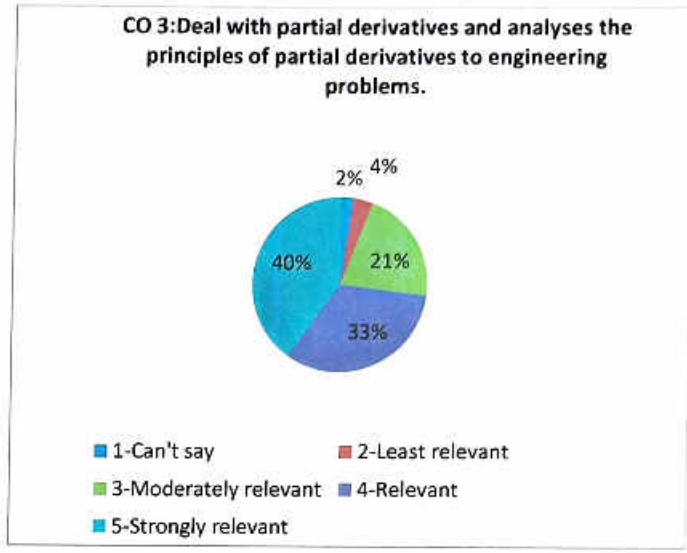
CO 2 Illustrate the solution for different complex function and extend the appropriate technique for solving the real life problem

Score	No. of Students	Percentage (%)
1-Can't say	5	3.65
2-Least relevant	7	5
3-Moderately relevant	32	23.35
4-Relevant	42	31
5-Strongly relevant	51	37
Total	137	100



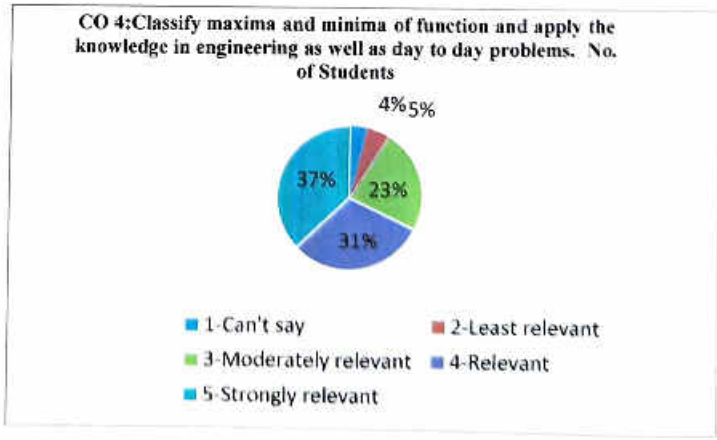
CO 3 Deal with partial derivatives and analyses the principles of partial derivatives to engineering problems.

Score	No. of Students	Percentage (%)
1-Can't say	3	2.3
2-Least relevant	5	3.6
3-Moderately relevant	29	21
4-Relevant	45	33.1
5-Strongly relevant	55	40
Total	137	100



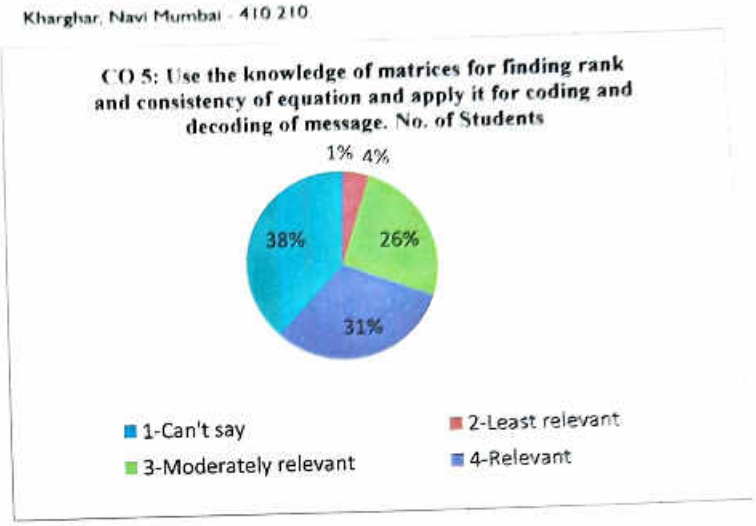
CO 4:Classify maxima and minima of function and apply the knowledge in engineering as well as day to day problems.

Score	No. of Students	Percentage (%)
1-Can't say	5	3.65
2-Least relevant	7	5
3-Moderately relevant	32	23.35
4-Relevant	42	31
5-Strongly relevant	51	37
Total	137	100



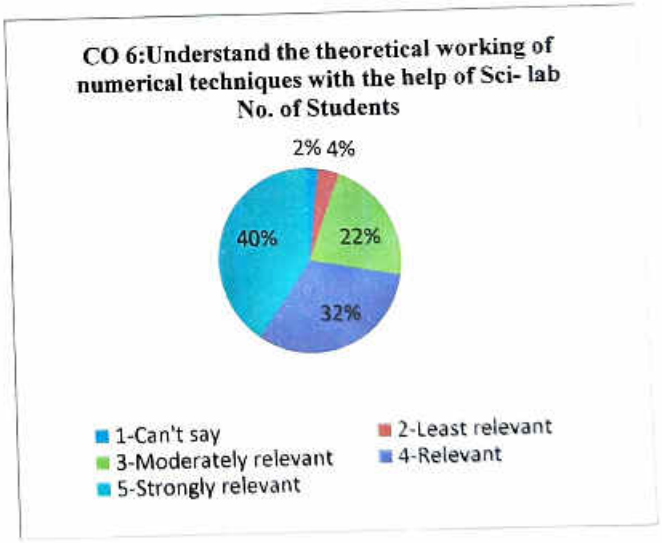
CO 5: Use the knowledge of matrices for finding rank and consistency of equation and apply it for coding and decoding of message.

Score	No. of Students	Percentage (%)
1-Can't say	1	0.72
2-Least relevant	6	4.38
3-Moderately relevant	35	25.5
4-Relevant	43	31.4
5-Strongly relevant	52	38
Total	137	100



CO 6:Understand the theoretical working of numerical techniques with the help of Sci- lab

Score	No. of Students	Percentage (%)
1-Can't say	3	2.18
2-Least relevant	5	3.65
3-Moderately relevant	30	21.9
4-Relevant	44	32
5-Strongly relevant	55	40
Total	137	100



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Department of First Year Engineering

Academic Year: 2019-2020

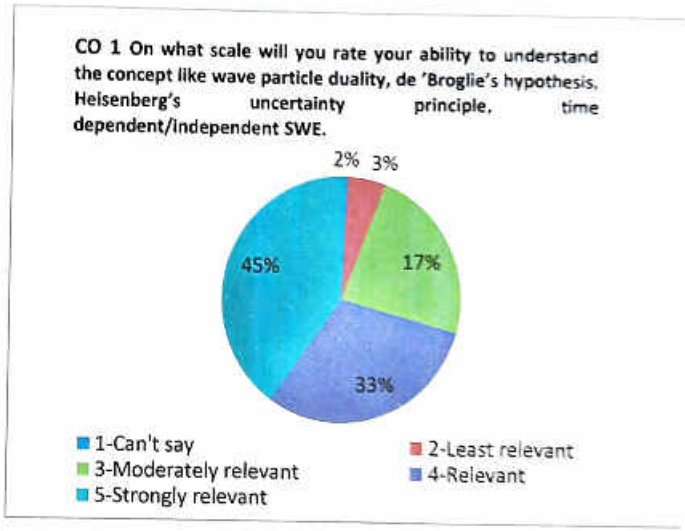
Course Exit Analysis Report (SEM I)

Subject – Engineering Physics I

Subject Teacher – Rekha Jawale, Upma Purohit

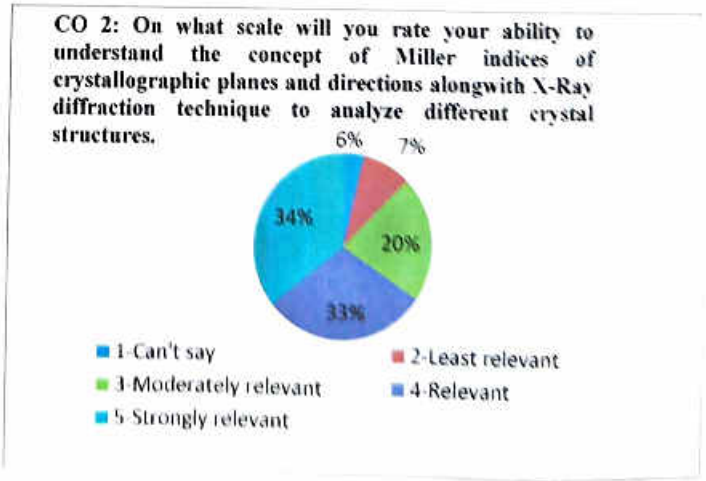
CO1. On what scale will you rate your ability to understand the concept like wave particle duality, de 'Broglie's hypothesis, Heisenberg's uncertainty principle, time dependent/independent SWE.

Score	No. of Students	Percentage (%)
1-Can't say	3	2
2-Least relevant	4	3
3-Moderately relevant	23	17
4-Relevant	43	33
5-Strongly relevant	59	45
Total	132	100



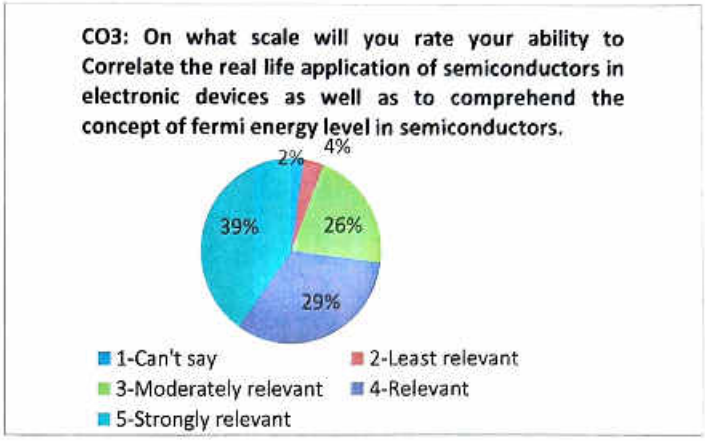
CO 2: On what scale will you rate your ability to understand the concept of Miller indices of crystallographic planes and directions alongwith X-Ray diffraction technique to analyze different crystal structures.

Score	No. of Students	Percentage (%)
1-Can't say	8	6
2-Least relevant	10	7
3-Moderately relevant	26	20
4-Relevant	43	33
5-Strongly relevant	45	34
Total	132	100



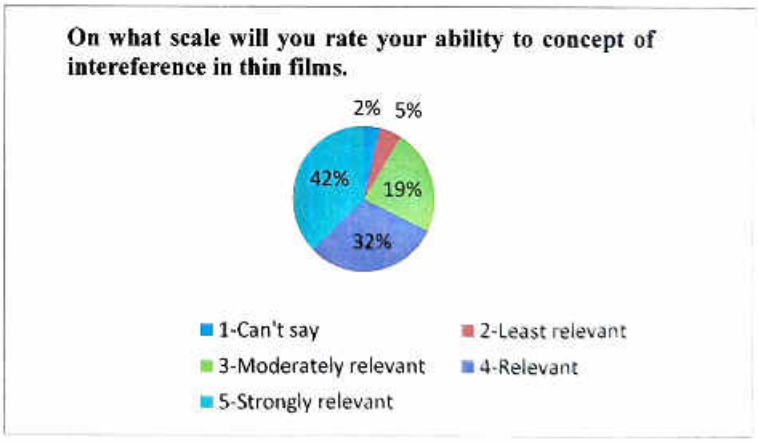
CO 3: On what scale will you rate your ability to Correlate the real life application of semiconductors in electronic devices as well as to comprehend the concept of fermi energy level in semiconductors.

Score	No. of Students	Percentage (%)
1-Can't say	5	4
2-Least relevant	2	2
3-Moderately relevant	34	26
4-Relevant	39	29
5-Strongly relevant	52	39
Total	132	100



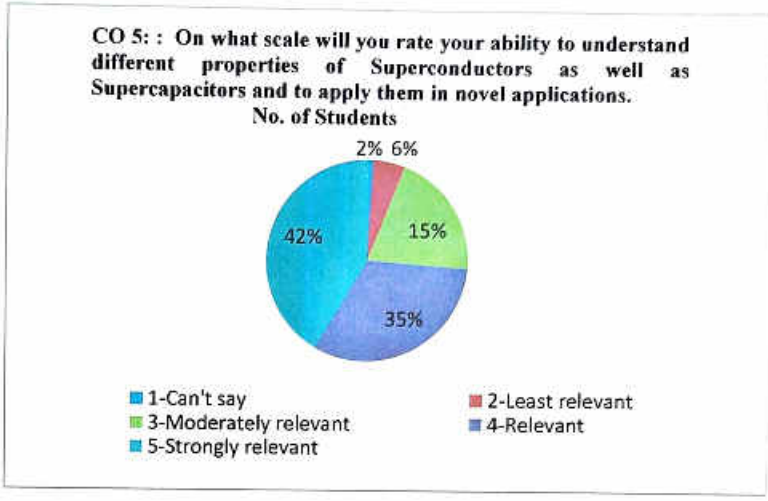
CO 4: On what scale will you rate your ability to concept of interference in thin films.

Score	No. of Students	Percentage (%)
1-Can't say	3	2
2-Least relevant	7	5
3-Moderately relevant	25	19
4-Relevant	42	32
5-Strongly relevant	55	42
Total	132	100



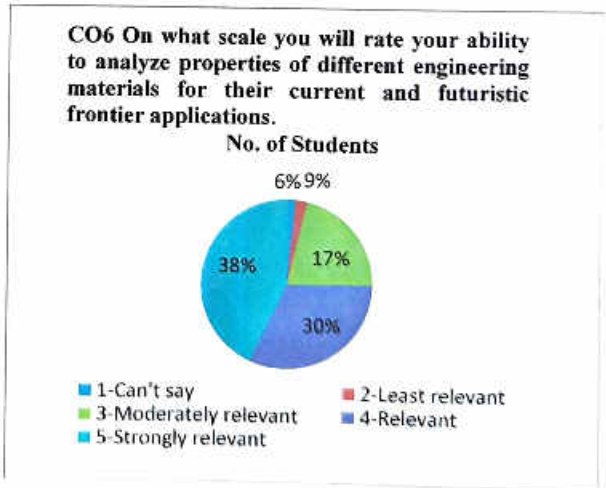
CO 5: On what scale will you rate your ability to understand different properties of Superconductors as well as Supercapacitors and to apply them in novel applications.

Score	No. of Students	Percentage (%)
1-Can't say	3	2
2-Least relevant	8	6
3-Moderately relevant	20	15
4-Relevant	46	35
5-Strongly relevant	55	42
Total	132	100



CO 6: On what scale you will rate your ability to analyse properties of different engineering materials for their current and futuristic frontier applications.

Score	No. of Students	Percentage (%)
1-Can't say	8	6
2-Least relevant	12	9
3-Moderately relevant	22	17
4-Relevant	40	30
5-Strongly relevant	50	38
Total	132	100



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Department of First Year Engineering

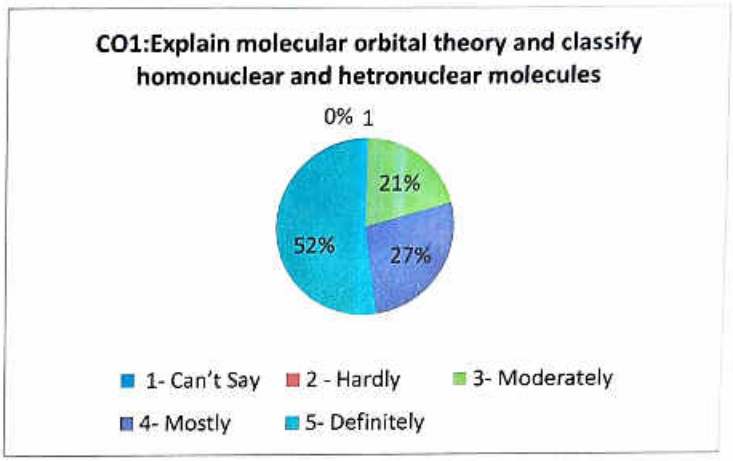
Academic Year: 2019-20

Course Exit Analysis Report (SEM I)

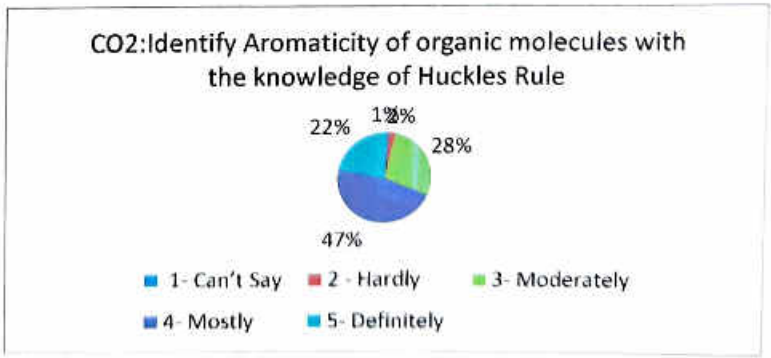
Subject – Engineering Chemistry-I

Subject Teacher – Dr.Sunita Pal

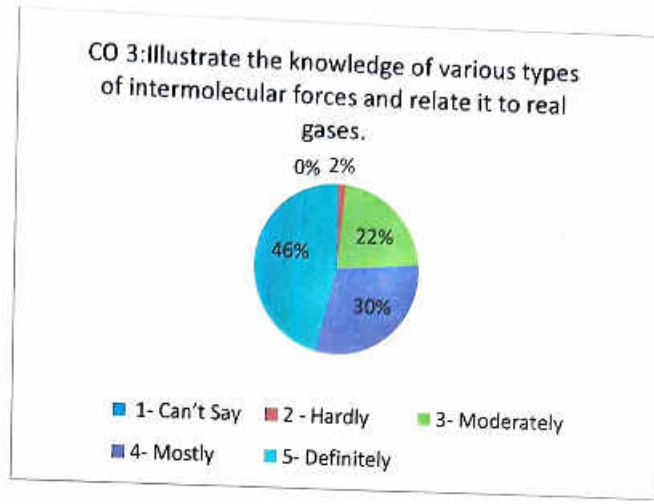
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	3	1
3- Moderately	7	20.6
4- Mostly	15	27
5- Definitely	30	52.4
Total	55	100



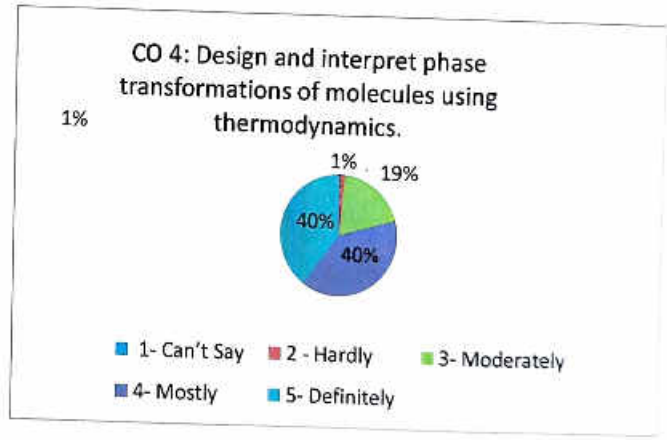
Score	No. of Students	Percentage (%)
1- Can't Say	0	1
2 - Hardly	2	3.2
3- Moderately	3	15.9
4- Mostly	20	33.3
5- Definitely	30	47.6
Total	55	100



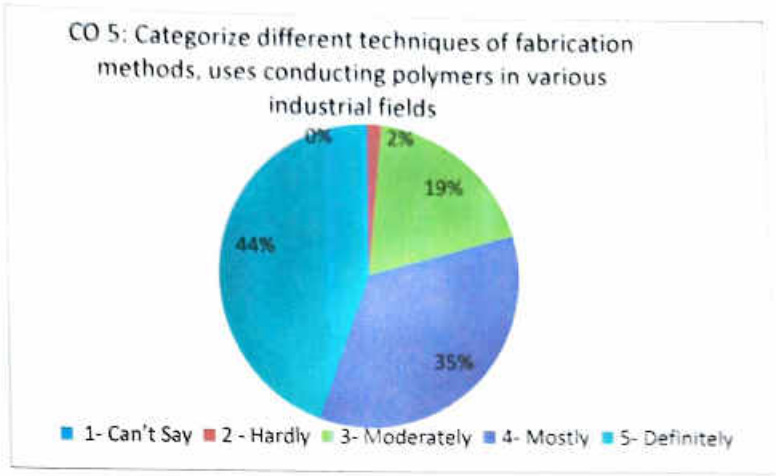
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	1.6
3- Moderately	13	22.2
4- Mostly	15	30.2
5- Definitely	25	46
Total	55	100



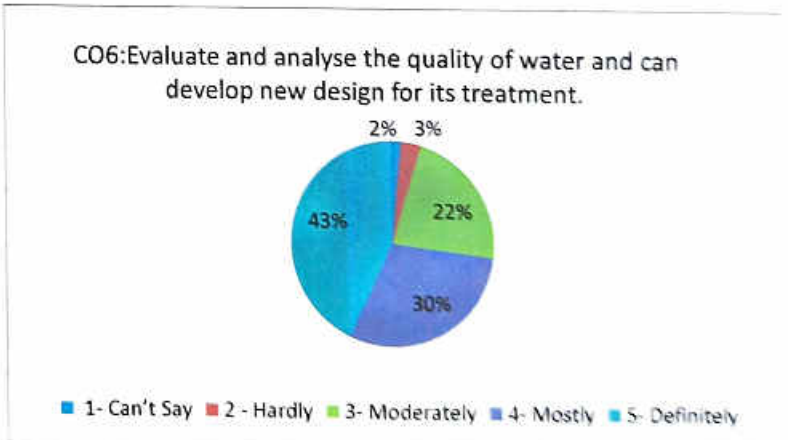
Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	1	1.6
3- Moderately	3	19
4- Mostly	25	39.7
5- Definitely	25	39.7
Total	55	100



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	1.6
3- Moderately	8	19
4- Mostly	20	34.9
5- Definitely	25	44.4
Total	55	100



Score	No. of Students	Percentage (%)
1- Can't Say	1	1.6
2 - Hardly	2	3.2
3- Moderately	7	22.2
4- Mostly	20	30.2
5- Definitely	25	42.9
Total	55	100



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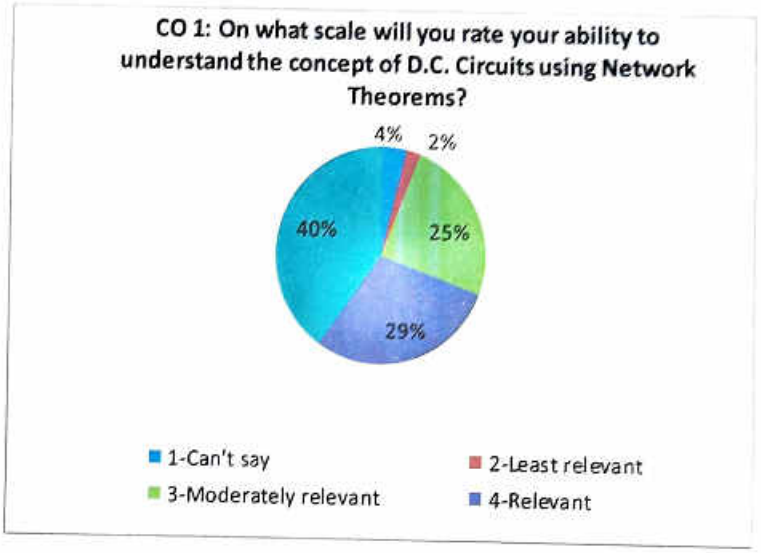
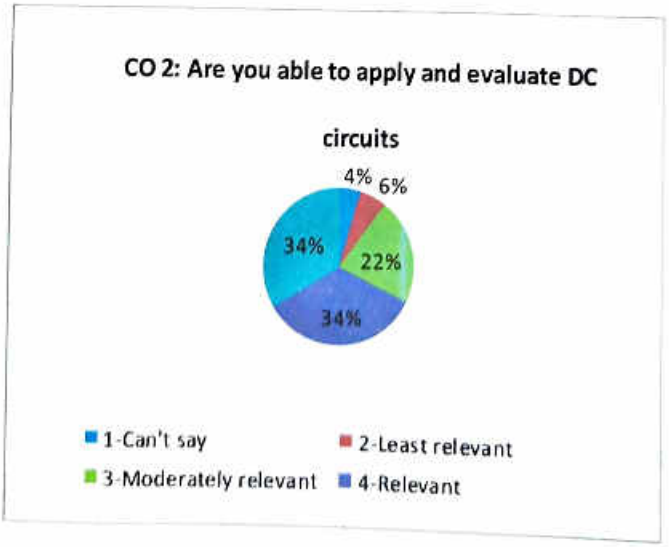
Department of First Year Engineering
Academic Year: 2019-20
Course Exit Analysis Report (SEM I)
Subject – Basic Electrical Engineering
Subject Teacher – Prof. Rajashri Narwade / Prof. Pallavi Kharat

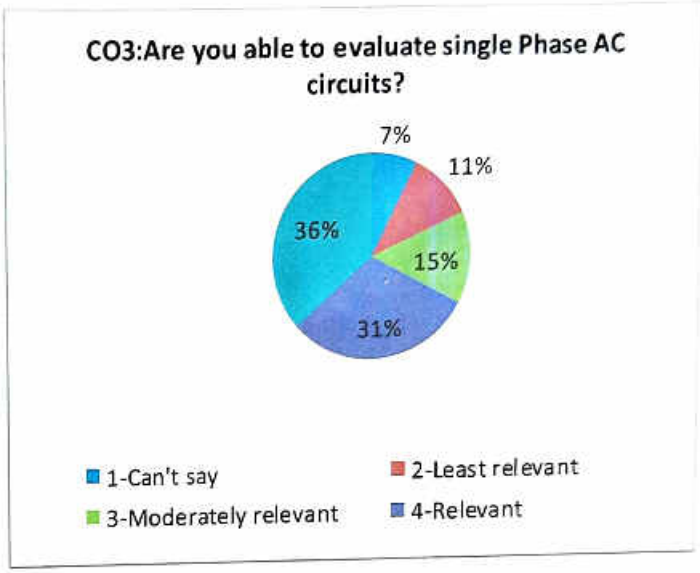
Score	No. of Students	Percentage (%)
1-Can't say	5	3.65
2-Least relevant	3	2.18
3-Moderately relevant	34	24.83
4-Relevant	40	29.2
5-Strongly relevant	55	40.14
Total	137	100



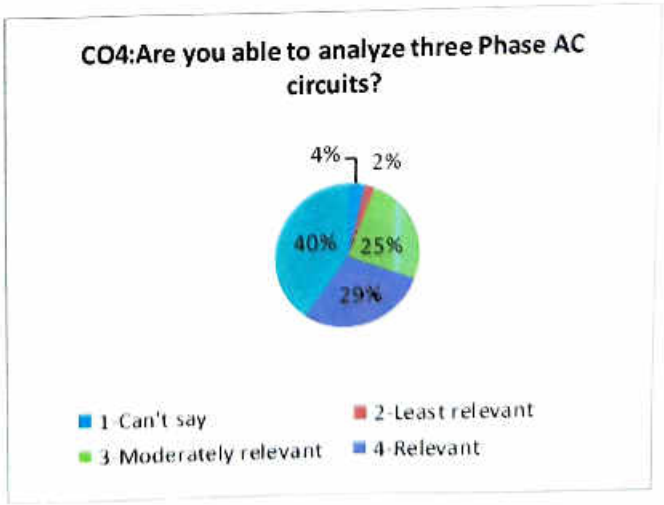
Score	No. of Students	Percentage (%)
1-Can't say	6	4.38
2-Least relevant	8	5.84
3-Moderately relevant	30	21.89
4-Relevant	47	34.31
5-Strongly relevant	46	33.58
Total	137	100



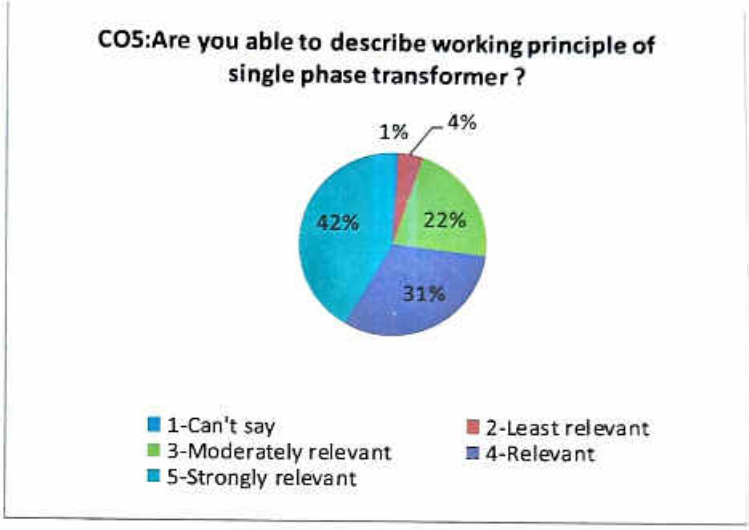
Score	No. of Students	Percentage (%)
1-Can't say	10	7.27
2-Least relevant	15	10.95
3-Moderately relevant	20	14.7
4-Relevant	42	30.64
5-Strongly relevant	50	36.44
Total	137	100



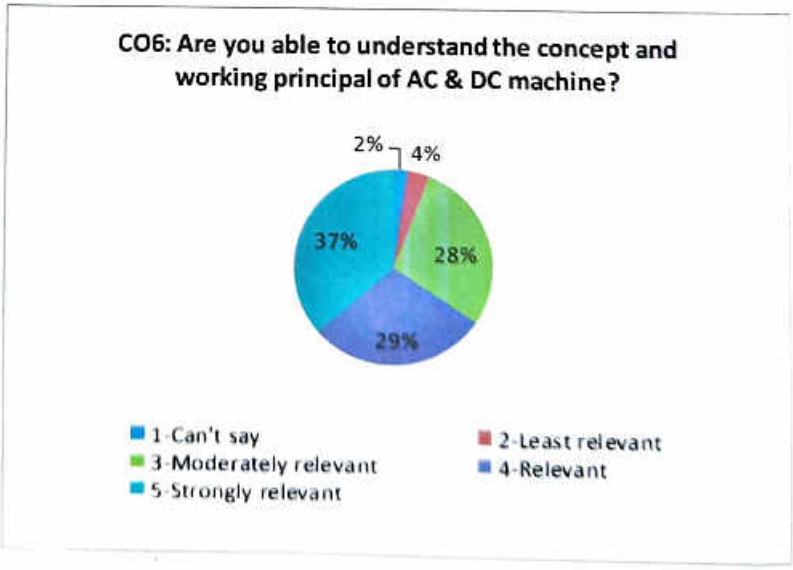
Score	No. of Students	Percentage (%)
1-Can't say	5	3.65
2-Least relevant	3	2.18
3-Moderately relevant	34	24.83
4-Relevant	40	29.2
5-Strongly relevant	55	40.14
Total	137	100



Score	No. of Students	Percentage (%)
1-Can't say	1	0.73
2-Least relevant	6	4.39
3-Moderately relevant	30	21.89
4-Relevant	43	31.36
5-Strongly relevant	57	41.63
Total	137	100



Score	No. of Students	Percentage (%)
1-Can't say	3	2.19
2-Least relevant	5	3.69
3-Moderately relevant	39	28.82
4-Relevant	40	29.1
5-Strongly relevant	50	36.2
Total	137	100



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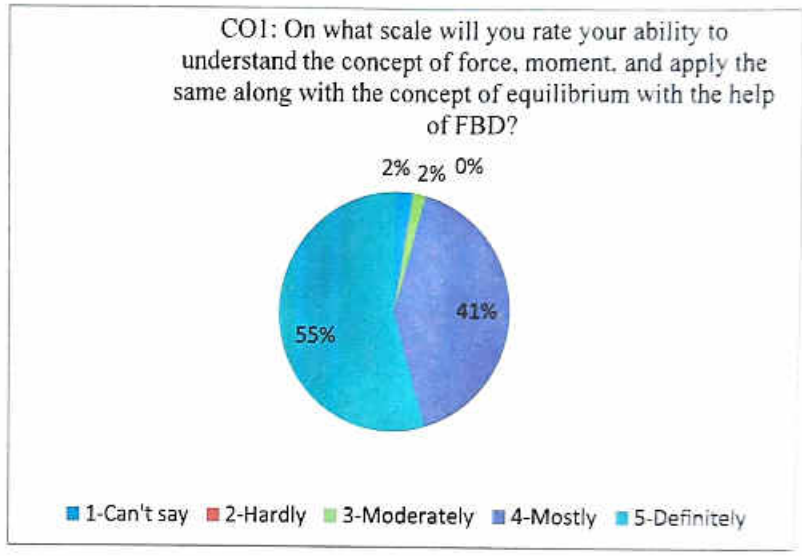
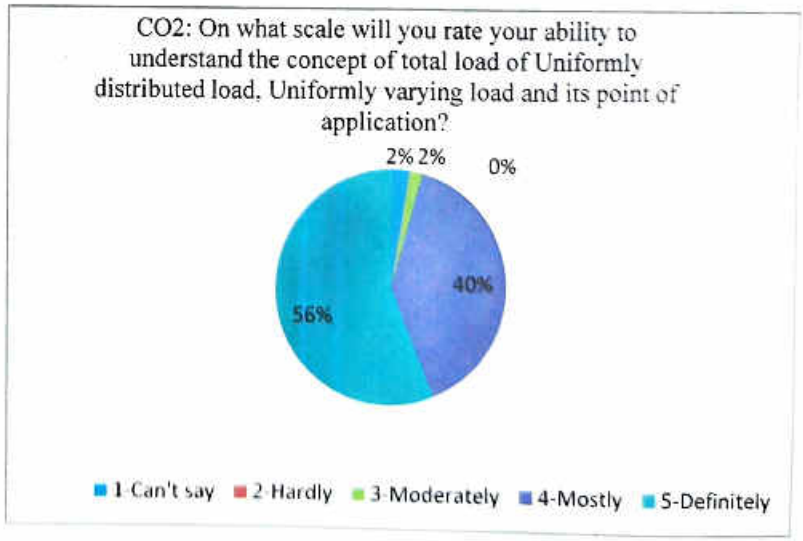
SARASWATI COLLEGE OF ENGINEERING, KHARGHAR, NAVI MUMBAI
FIRST YEAR ENGINEERING DEPARTMENT

SUBJECT- ENGINEERING MECHANICS (SEM I)
ACADEMIC YEAR-2019-2020
COURSE EXIT SURVEY

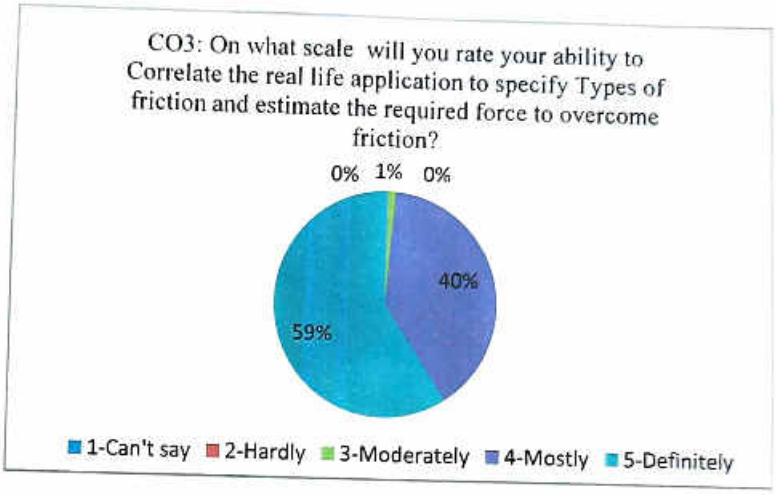
SCORE	No of Students	Percentage
1-Can't say	4	2
2-Hardly	0	0
3-Moderately	3	2
4-Mostly	69	41
5-Definitely	91	55
Total	167	100



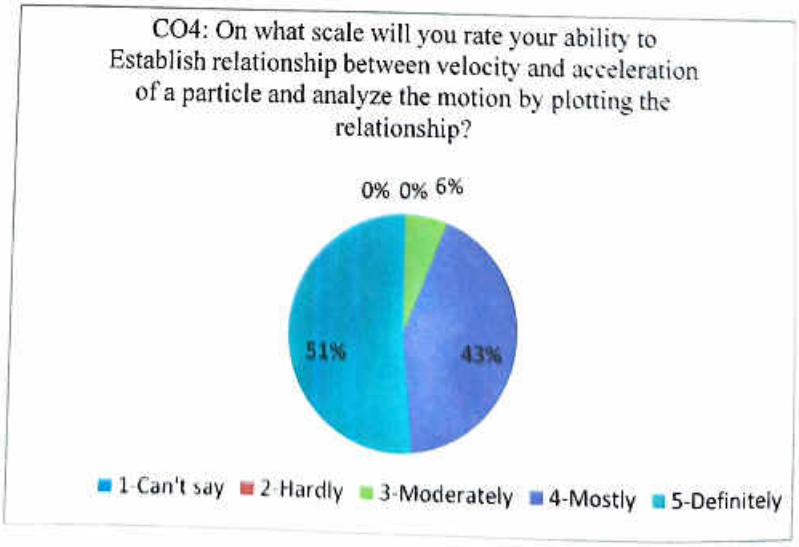
SCORE	No of Students	Percentage
1-Can't say	4	2
2-Hardly	0	0
3-Moderately	3	2
4-Mostly	66	40
5-Definitely	94	56
Total	167	100



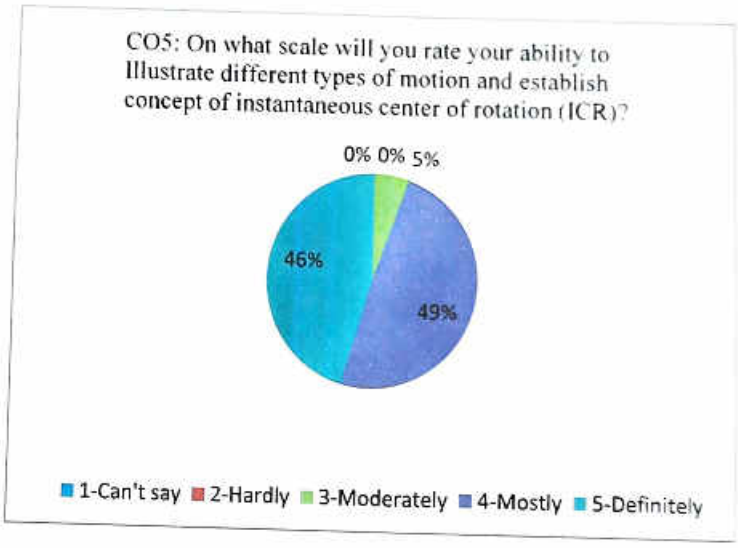
SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	1
4-Mostly	66	40
5-Definitely	99	59
Total	167	100



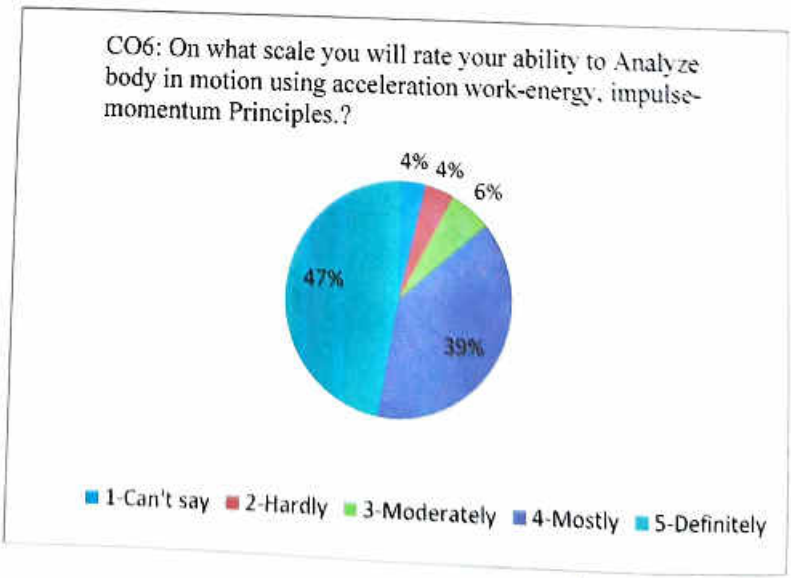
SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	10	6
4-Mostly	71	43
5-Definitely	86	51
Total	167	100



SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	9	5
4-Mostly	82	49
5-Definitely	76	46
Total	167	100



SCORE	No of Students	Percentage
1-Can't say	6	4
2-Hardly	7	4
3-Moderately	10	6
4-Mostly	65	39
5-Definitely	79	47
Total	167	100



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DEPARTMENT OF FIRST YEAR ENGINEERING

Action taken based on feedback from students

Academic year 2019 - 2020 (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.

- The syllabus is very length but students are satisfied with all the contents of syllabus.
- More Problem solving sessions required for partial differentiation.
- 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	The syllabus is very length but students are satisfied with all the contents of syllabus	Audio-video lectures were provided for that topics	As required
2	More Problem solving sessions required for partial differentiation for EM	video lectures were provided for that topics D' ALEMBERT'S PRINCIPLE By Sandeep Jadhav	During lecture session
3	Syllabus is vast difficult to complete in given time for BE	Conducted extra lectures, and doubt solving sessions.	As per requirement of subject

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Department of First Year Engineering

Academic Year: 2019-20

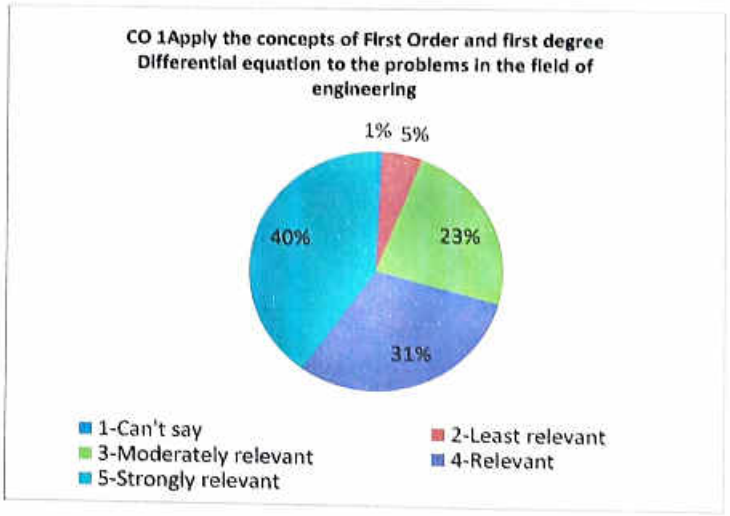
Course Exit Analysis Report (SEM II)

Subject – Engineering Mathematics II

Subject Teacher – Dr. Sayali Choudhari, Prof. ShirishKulkarni, Prof.Vasudev N

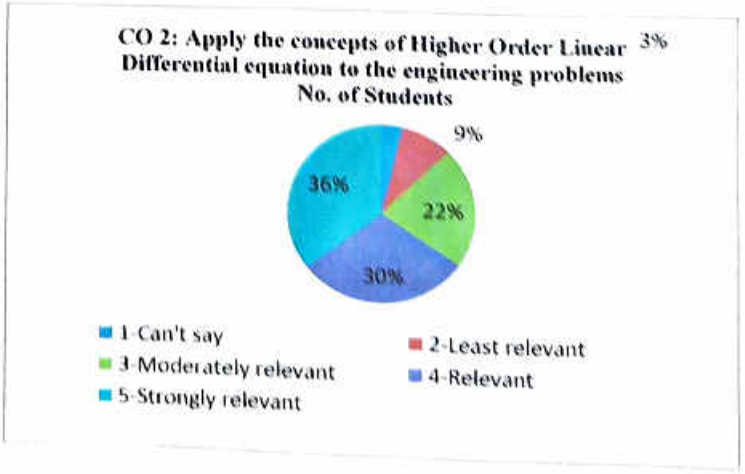
CO 1: Apply the concepts of First Order and first degree Differential equation to the problems in the field of engineering

Score	No. of Students	Percentage (%)
1-Can't say	1	1
2-Least relevant	7	5
3-Moderately relevant	32	23
4-Relevant	42	31
5-Strongly relevant	55	40
Total	137	100



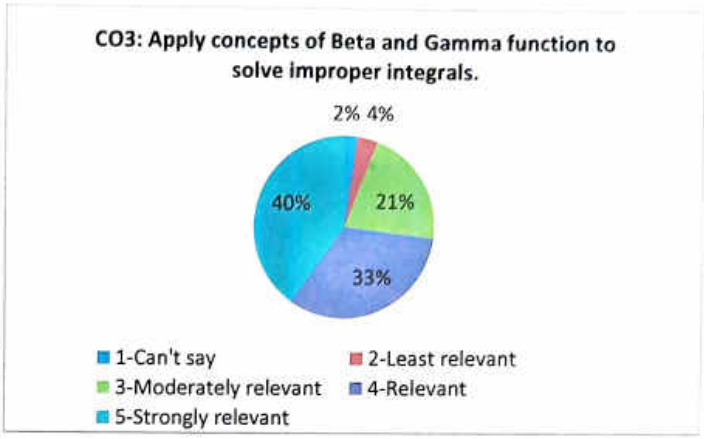
CO 2 Apply the concepts of Higher Order Linear Differential equation to the engineering problems

Score	No. of Students	Percentage (%)
1-Can't say	5	3
2-Least relevant	12	9
3-Moderately relevant	30	22
4-Relevant	41	30
5-Strongly relevant	49	36
Total	137	100



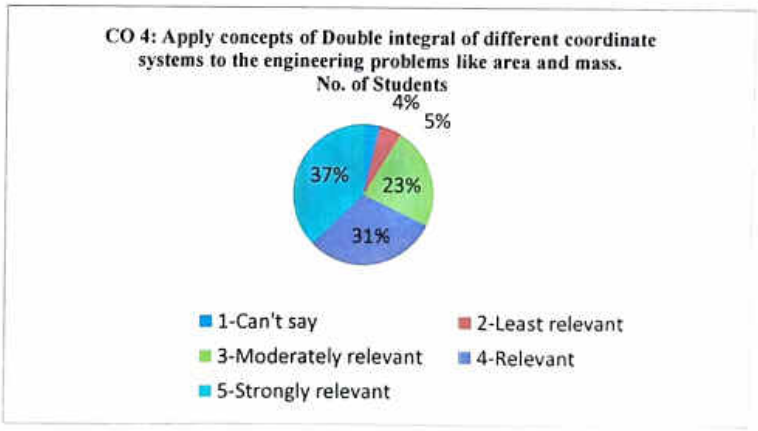
CO 3: Apply concepts of Beta and Gamma function to solve improper integrals.

Score	No. of Students	Percentage (%)
1-Can't say	3	2
2-Least relevant	5	4
3-Moderately relevant	29	21
4-Relevant	45	33
5-Strongly relevant	55	40
Total	137	100



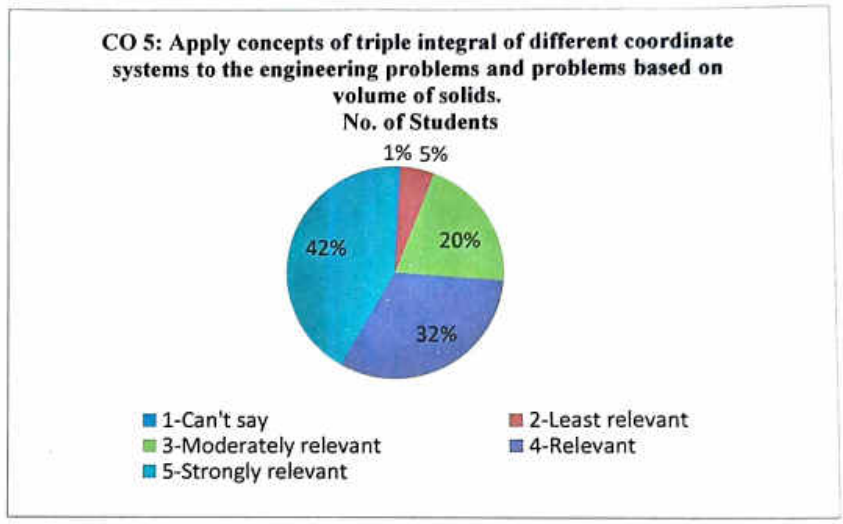
CO 4: Apply concepts of Double integral of different coordinate systems to the engineering problems like area and mass.

Score	No. of Students	Percentage (%)
1-Can't say	5	4
2-Least relevant	7	5
3-Moderately relevant	32	23
4-Relevant	42	31
5-Strongly relevant	51	37
Total	137	100



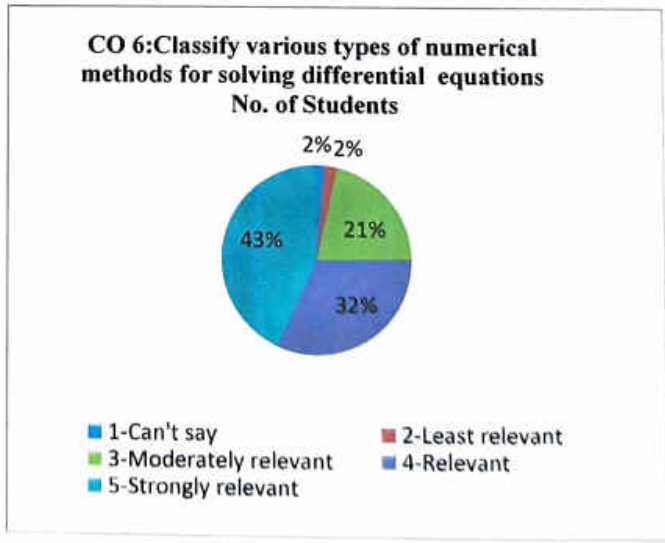
CO 5 Apply concepts of triple integral of different coordinate systems to the engineering problems and problems based on volume of solids.

Score	No. of Students	Percentage (%)
1-Can't say	1	1
2-Least relevant	7	5
3-Moderately relevant	28	20
4-Relevant	44	32
5-Strongly relevant	57	42
Total	137	100



CO 6:Classify various types of numerical methods for solving differential equations

Score	No. of Students	Percentage (%)
1-Can't say	2	2
2-Least relevant	3	2
3-Moderately relevant	29	21
4-Relevant	44	32
5-Strongly relevant	59	43
Total	137	100



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Department of First Year Engineering

Academic Year: 2019-2020

Course Exit Analysis Report (SEM II)

Subject – Engineering Physics II

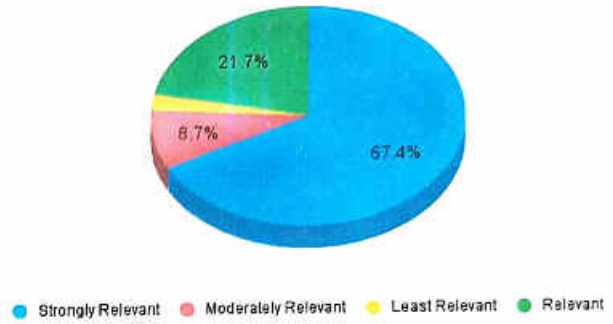
Subject Teacher – Dr. Pinki

Div C

CO1 On what scale will your rate your ability to understand the basic difference between diffraction and interference.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	1	2.2
3-Moderately relevant	4	8.7
4-Relevant	10	21.7
5-Strongly relevant	31	67.4
Total	46	100

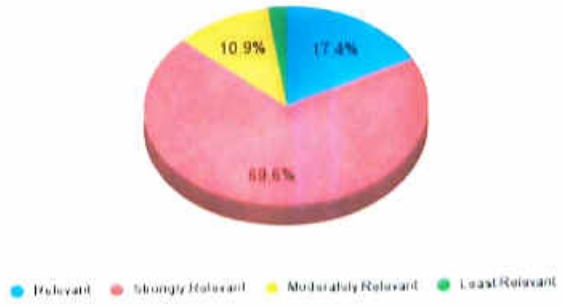
CO1 On what scale will your rate your ability to understand the basic difference between diffraction and interference.



CO 2: On what scale will you rate your ability to understand the concept of Laser and optical fiber in communication system?

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	1	2.2
3-Moderately relevant	5	10.9
4-Relevant	8	17.4
5-Strongly relevant	32	69.6
Total	46	100

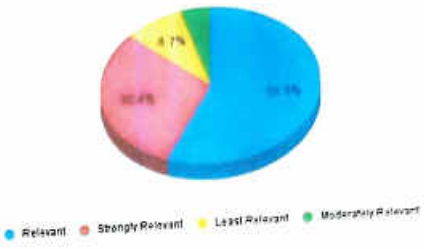
CO2 On what scale will you rate your ability to understand the concept of Laser and optical fiber in communication system?



CO 3: On what scale will you rate your ability to evaluate gradient, divergence and curl of any scalar/ vector field?

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	4	8.7
3-Moderately relevant	2	4.3
4-Relevant	26	56.5
5-Strongly relevant	14	30.4
Total	46	100

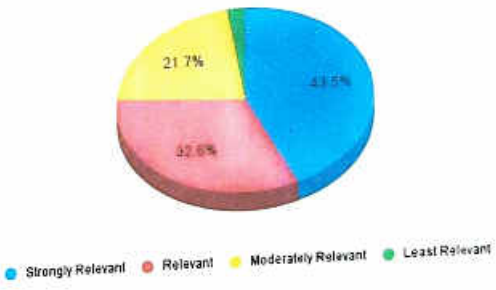
CO3 On what scale will you rate your ability to evaluate gradient, divergence and curl of any scalar/ vector field?



CO 4: On what scale will you rate your ability to demonstrate the knowledge and understanding of Special Relativity.

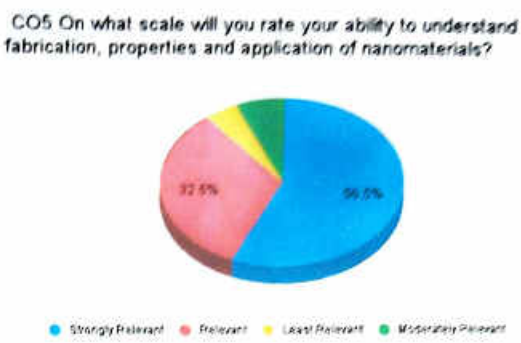
Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	1	2.2
3-Moderately relevant	10	21.7
4-Relevant	15	32.6
5-Strongly relevant	20	43.5
Total	46	100

CO4 On what scale will you rate your ability to demonstrate the knowledge and understanding of Special Relativity.



CO 5: On what scale will you rate your ability to understand the fabrication, properties and application of nanomaterials.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	2	4.3
3-Moderately relevant	3	6.5
4-Relevant	15	32.6
5-Strongly relevant	26	56.5
Total	46	100



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Department of First Year Engineering

Academic Year: 2019-20

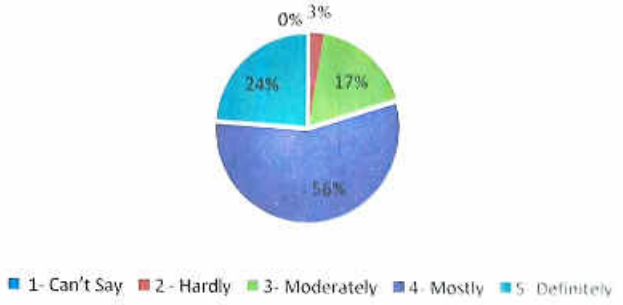
Course Exit Analysis Report (SEM II)

Subject – Engineering Chemistry- II

Subject Teacher – Dr.Sunita Pal & Dr.Sindhu Tayade

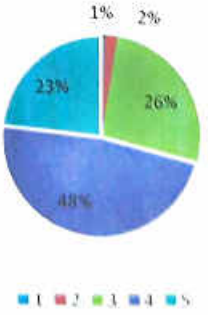
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	5	3
3- Moderately	18	17
4- Mostly	67	56
5- Definitely	40	24
Total	160	100

CO1:Distinguish the ranges of the electromagnetic spectrum used for exciting different molecular energy levels in various spectroscopic techniques



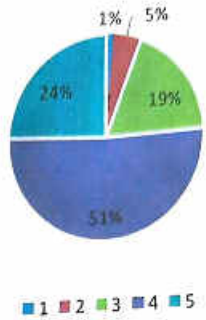
Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	4	2
3- Moderately	45	26
4- Mostly	70	48
5- Definitely	40	23
Total	160	100

CO 2: Illustrate the concept of emission spectroscopy and describe the phenomena of fluorescence and phosphorescence in relation to IT



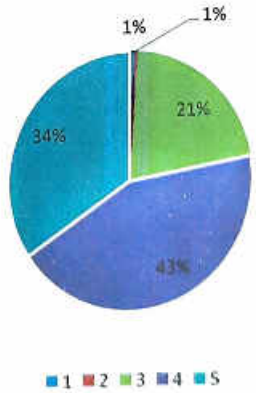
Score	No. of Students	Percentage (%)
1- Can't Say	2	1
2 - Hardly	9	5
3- Moderately	35	19
4- Mostly	68	51
5- Definitely	46	24
Total	160	100

CO3:Explain the concept of electrode potential and Nernst theory and relate it to electrochemical cells



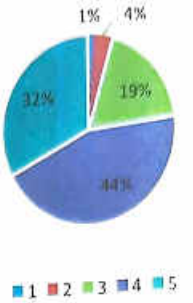
Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	1	1
3- Moderately	40	21
4- Mostly	67	43
5- Definitely	51	34
Total	160	100

CO4:Identify different types of corrosion and suggest control measures in industries



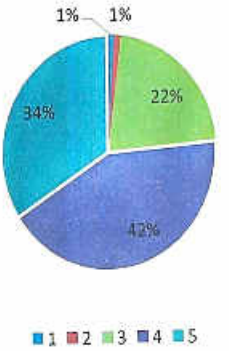
Score	No. of Students	Percentage (%)
1- Can't Say	2	1
2 - Hardly	7	4
3- Moderately	24	19
4- Mostly	74	44
5- Definitely	53	32
Total	160	100

CO5:Illustrate the principles of green chemistry and study environmental impact.



Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	1	1
3- Moderately	31	22
4- Mostly	70	34
5- Definitely	57	42
Total	160	100

CO6:Explain the knowledge of determining the quality of fuel and quantify the oxygen required for combustion of fuel



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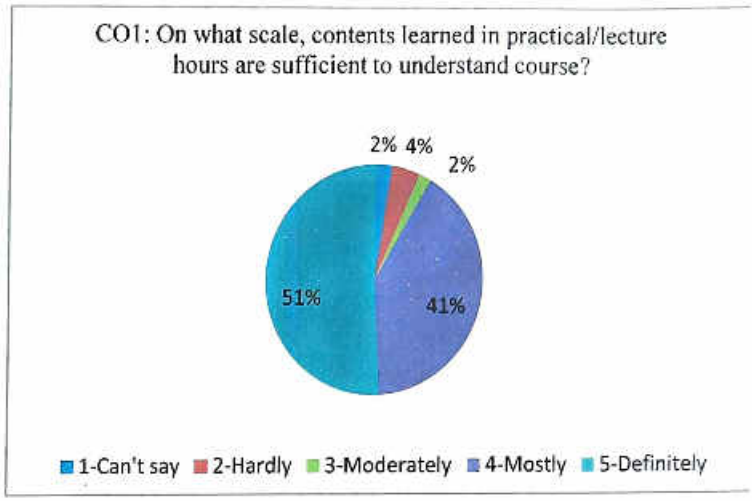
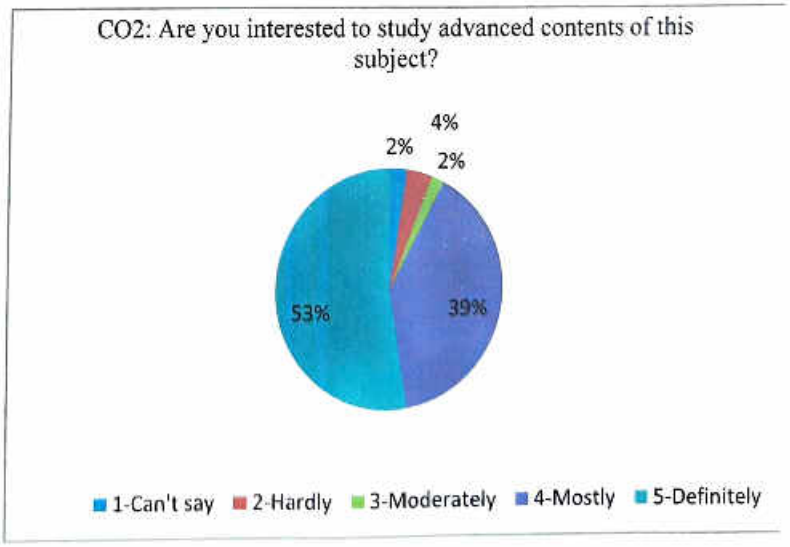
SARASWATI COLLEGE OF ENGINEERING, KHARGHAR, NAVI MUMBAI
FIRST YEAR ENGINEERING DEPARTMENT

SUBJECT- ENGINEERING GRAPHICS (SEM II)
ACADEMIC YEAR-2019-2020
COURSE EXIT SURVEY

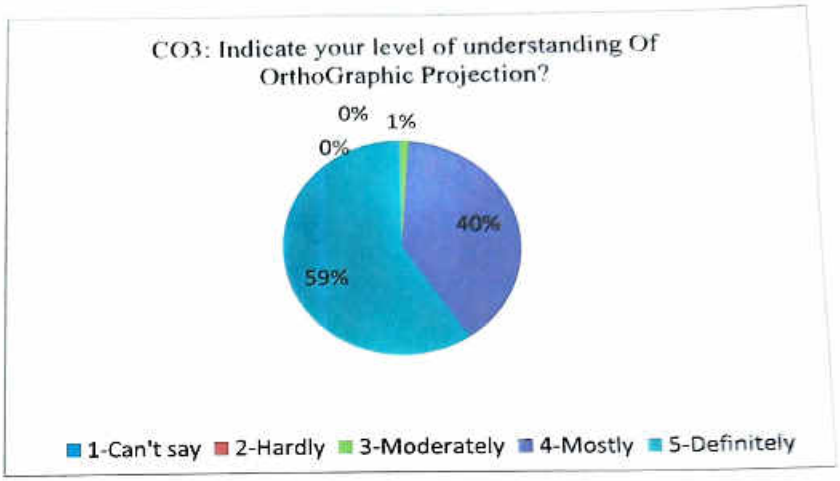
SCORE	No of Students	Percentage
1-Can't say	4	2
2-Hardly	7	4
3-Moderately	3	2
4-Mostly	68	41
5-Definitely	85	55
Total	167	100



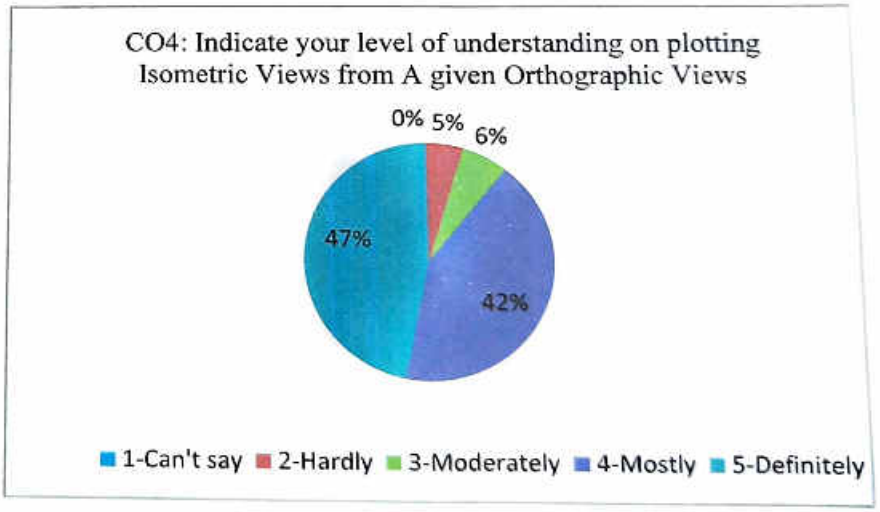
SCORE	No of Students	Percentage
1-Can't say	4	2
2-Hardly	6	4
3-Moderately	3	2
4-Mostly	66	40
5-Definitely	88	53
Total	167	100



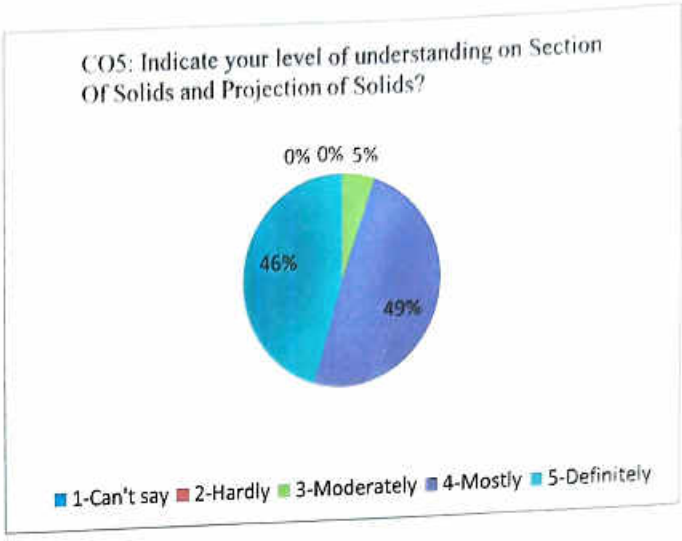
SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	1
4-Mostly	66	40
5-Definitely	99	59
Total	167	100



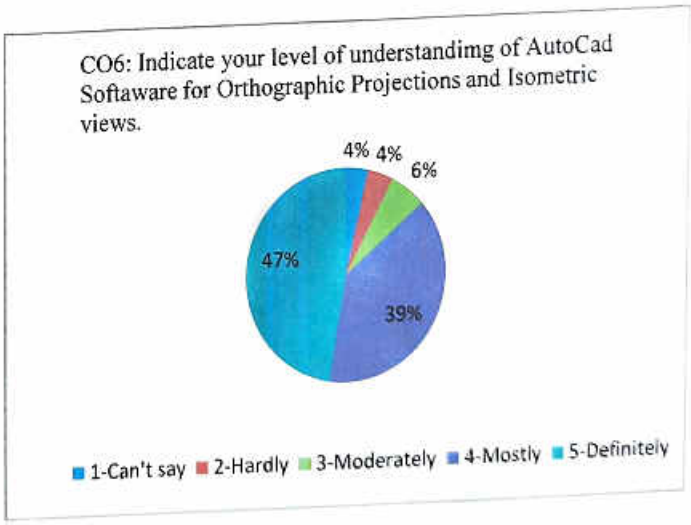
SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	8	5
3-Moderately	10	6
4-Mostly	71	43
5-Definitely	78	47
Total	167	100



SCORE	No of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	9	5
4-Mostly	82	49
5-Definitely	76	46
Total	167	100



SCORE	No of Students	Percentage
1-Can't say	6	4
2-Hardly	7	4
3-Moderately	10	6
4-Mostly	65	39
5-Definitely	79	47
Total	167	100



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Department of First Year Engineering

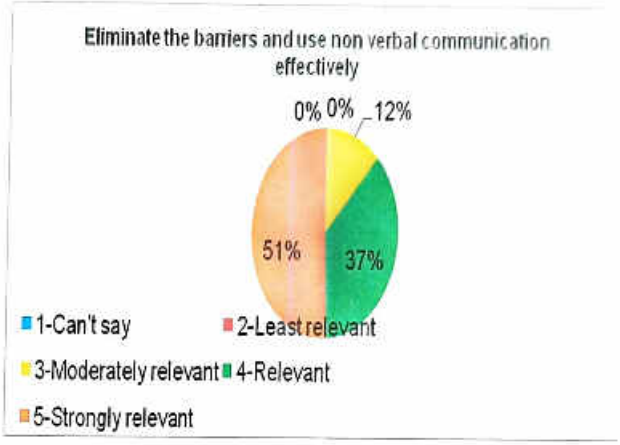
Academic Year: 2019-20

Course Exit Analysis Report (SEM II)

Subject – Professional Communication & Ethics I (DIV A)

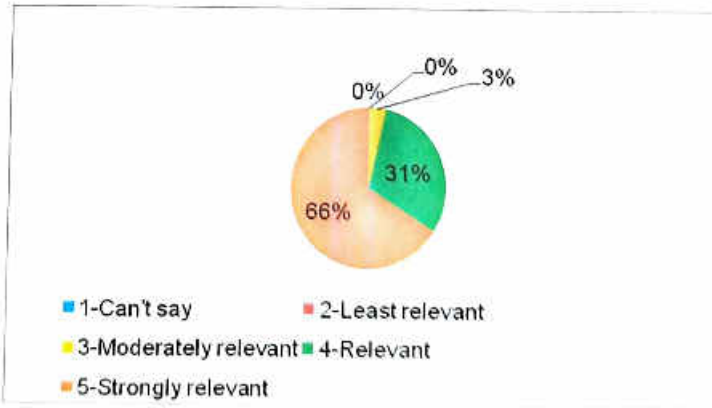
Subject Teacher – Prof. Sima Singh.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	12.3
4- Mostly	22	40.7
5- Definitely	32	50.8
Total	59	100



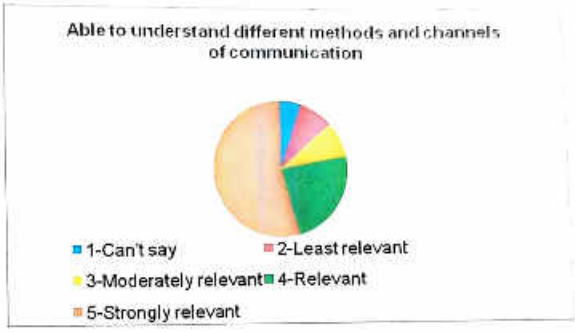
CO 2:Understand Vocabulary, grammar and pronunciation using listening skills.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	0	0
3-Moderately relevant	2	3.4
4-Relevant	18	29.3
5-Strongly relevant	39	67.2
Total	59	99.9



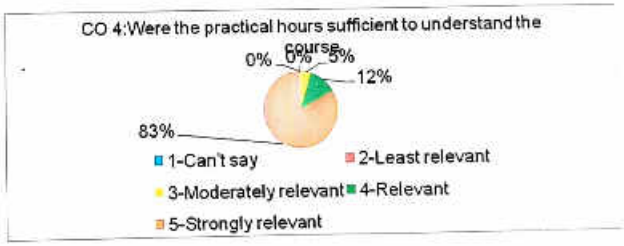
CO 3 Able to understand different methods and channels of communication

Score	No. of Students	Percentage (%)
1-Can't say	3	2.3
2-Least relevant	5	3.6
3-Moderately relevant	5	21
4-Relevant	14	33.1
5-Strongly relevant	32	40
Total	59	100



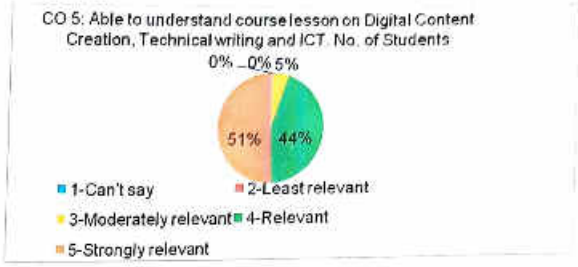
CO 4:Were the practical hours sufficient to understand the course

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	0	0
3-Moderately relevant	3	5
4-Relevant	7	11.9
5-Strongly relevant	49	83.1
Total	59	100



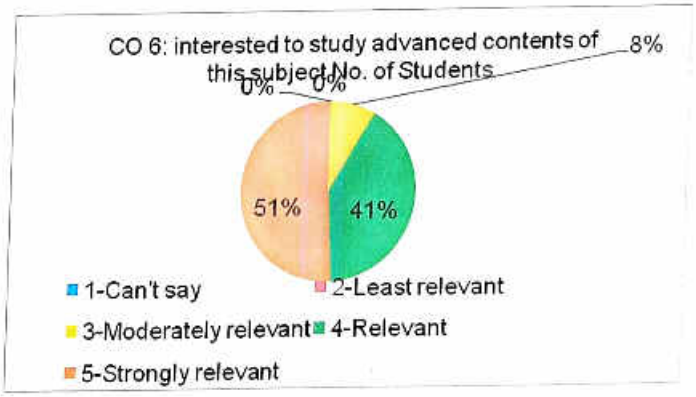
CO 5: Able to understand course lesson on Digital Content Creation, Technical writing and ICT.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Least relevant	0	0
3-Moderately relevant	3	5.1
4-Relevant	26	44.1
5-Strongly relevant	30	50.8
Total	59	100



CO 6: interested to study advanced contents of this subject

Score	No. of Students	Percentage (%)
2 - Hardly	1	1.5
3- Moderately	9	13.8
4- Mostly	32	33.8
5- Definitely	33	50..8
Total	59	100



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Department of First Year Engineering

Academic Year: 2019-20

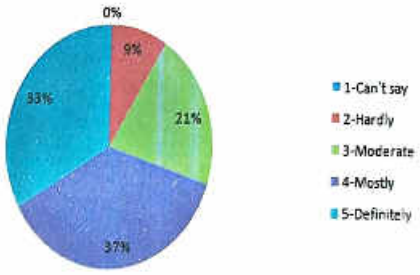
Course Exit Analysis Report (SEM II)

Subject: C Programming

Subject Teacher: Prof Hemalata Gosavi

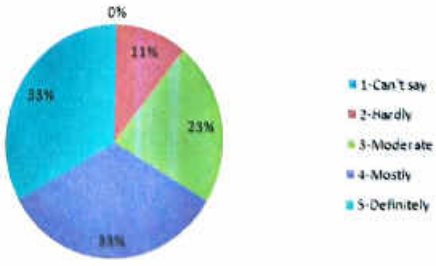
CO1: Understand datatypes, variables oparators, data input ouput function and structure of a C Programming

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	5	8.77
3-Moderate	12	21.05
4-Mostly	21	36.84
5-Definitely	19	33.33
Total	57	100.00



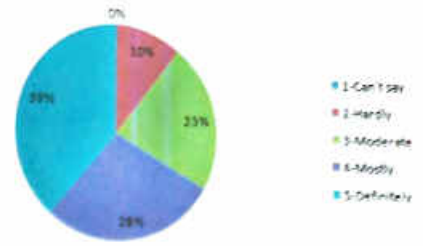
CO2: Use control statement and looping construction in C.

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	6	10.53
3-Moderate	13	22.81
4-Mostly	19	33.33
5-Definitely	19	33.33
Total	57	100.00



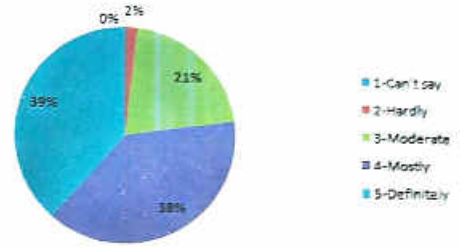
C03: Implement function in C.

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	6	10.53
3-Moderate	13	22.81
4-Mostly	16	28.07
5-Definitely	22	38.60
Total	57	100.00



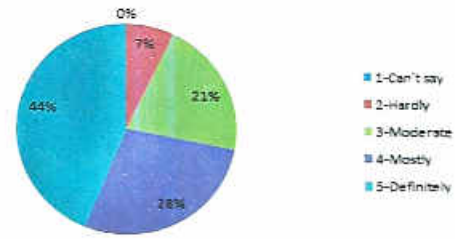
CO4: Use Derived datatypes Array and String in C to solve a given problem.

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	1	1.75
3-Moderate	12	21.05
4-Mostly	22	38.60
5-Definitely	22	38.60
Total	57	100.00



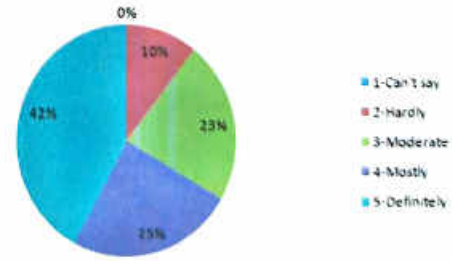
CO5: Use Derived datatypes structure and Union in C to solve a given problem.

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	4	7.02
3-Moderate	12	21.05
4-Mostly	16	28.07
5-Definitely	25	43.86
Total	57	100.00



CO6: Implement simple problems using pointer

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	6	10.53
3-Moderate	13	22.81
4-Mostly	14	24.56
5-Definitely	24	42.11
Total	57	100.00



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DEPARTMENT OF FIRST YEAR ENGINEERING

Action taken based on feedback from students

Academic year 2019 - 2020 (SEM II)

Summary of feedback (Semester II):

All students of SEM II 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.

- Content provided is sufficient for most of the subjects
- More teaching hours are required for double and triple integration.
- Time given to complete the syllabus is not sufficient.
- Content provided for most subject is sufficient and also goes well with CO'S

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 teaching hours are required for double and triple integraton.	Video lectures were provided https://youtu.be/UubU3U2C8WM	As required
2	Time given to complete the syllabus is not sufficient.	Extra lecture was conducted via online due pandemic covid-19. On some topics Videos were recorded and uploaded on college YouTube channel	As required
3	Content provided is sufficient and also goes well with CO'S	video lectures were provided for some topics Engineering Graphics - Projection of Solids 3 stage (Cone)suggested for students.	As per requirement of subject

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