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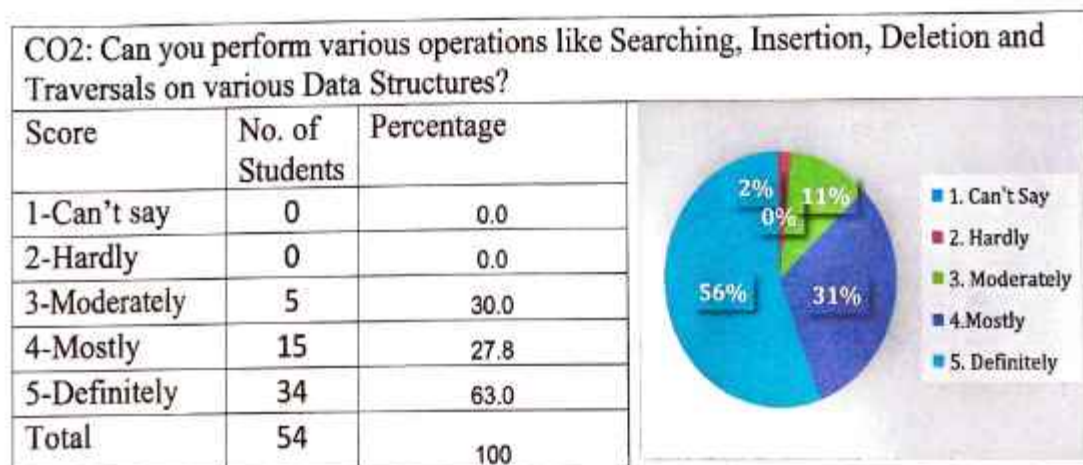
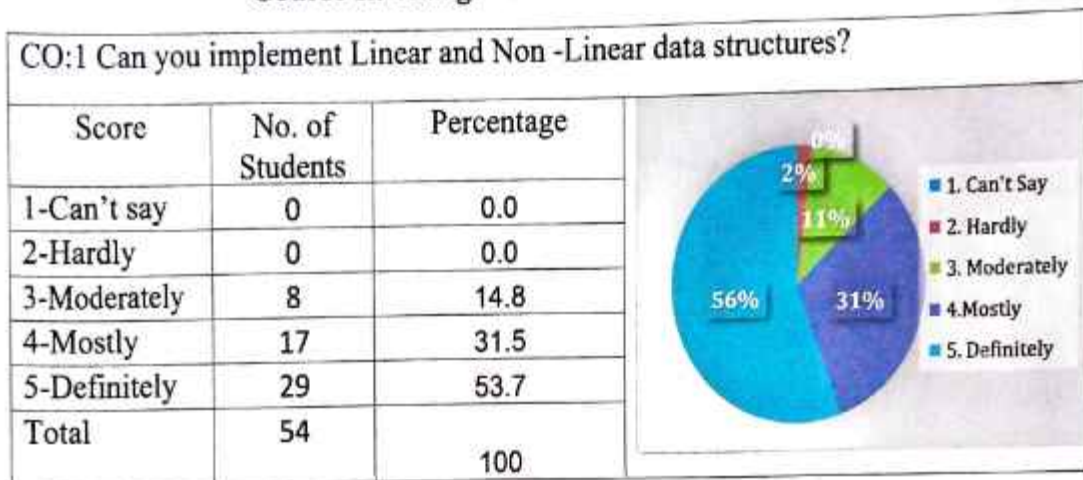
ACADEMIC YEAR 2022-23

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Course Exit Analysis Report (SEM III)

Course Name - Data Structure

Course In-charge - Prof. Snehal Lohi Bode





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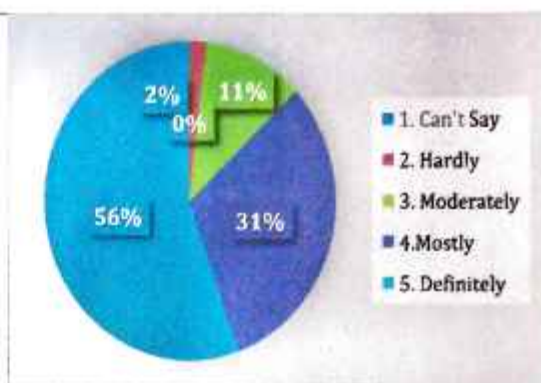
ACADEMIC YEAR 2022-23

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Course Exit Analysis Report (SEM III)

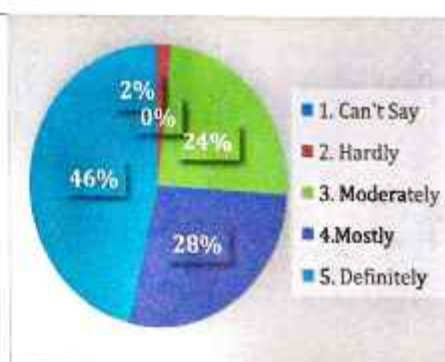
CO3: Can you explain various Data Structures related terminologies and its types?

Score	No. of Students	Percentage
1-Can't say	0	0.0
2-Hardly	1	1.9
3-Moderately	6	11.1
4-Mostly	17	31.5
5-Definitely	30	55.6
Total	54	100



CO4: Will you be able to choose appropriate data structure and apply it to solve problems in various domains?

Score	No. of Students	Percentage
1-Can't say	0	0.0
2-Hardly	1	1.9
3-Moderately	13	24.1
4-Mostly	15	27.8
5-Definitely	25	46.3
Total	54	100.0





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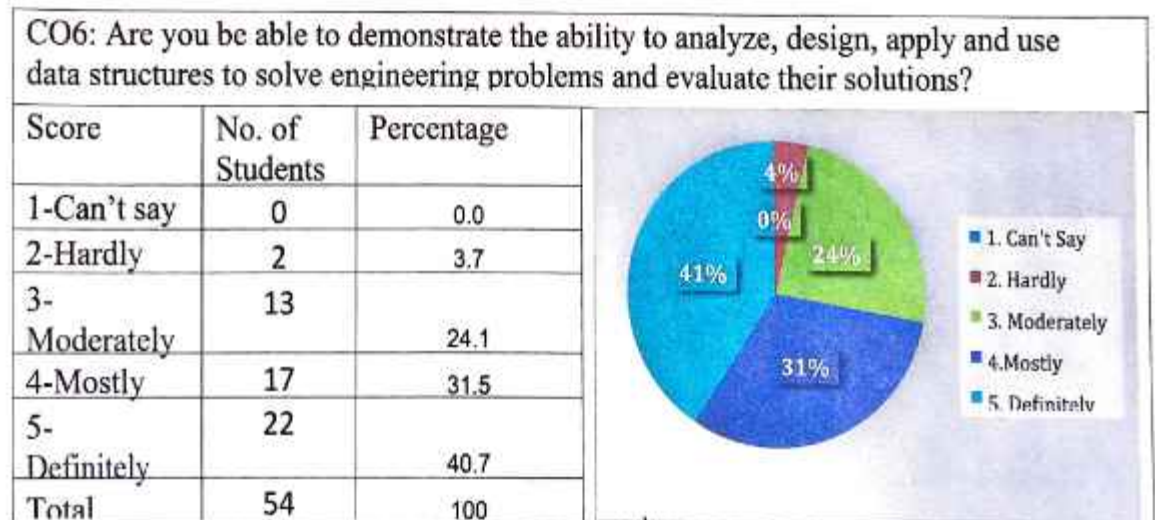
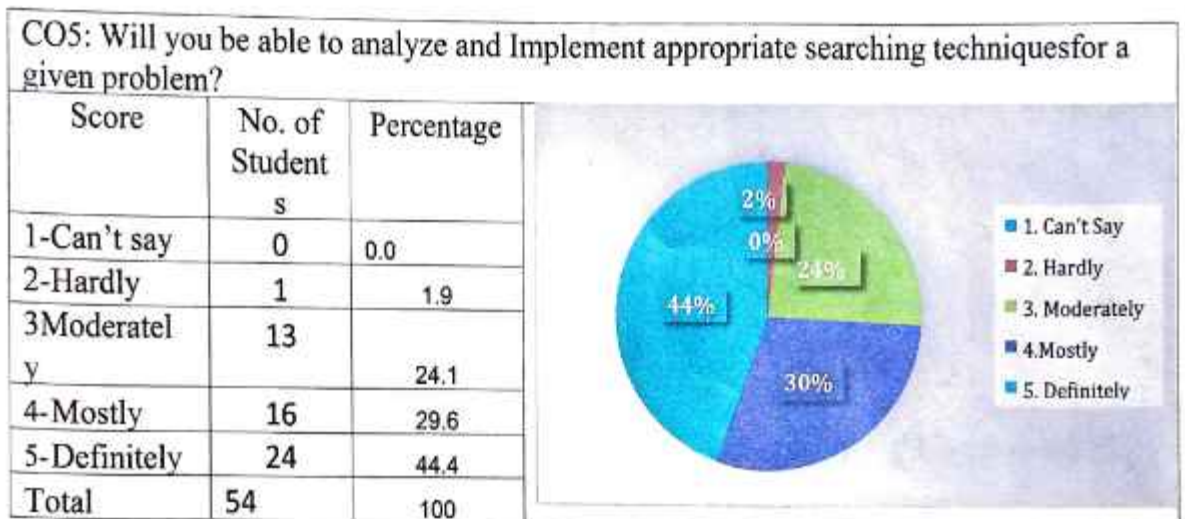
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S. Bode
 Course In-charge

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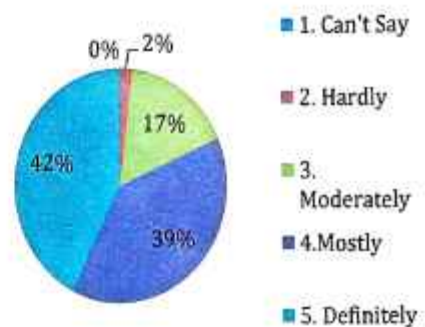
Course Exit Analysis Report (SEM III)

Course Name - Data Structure Lab

Course In-charge - Prof. Snehal Gavale

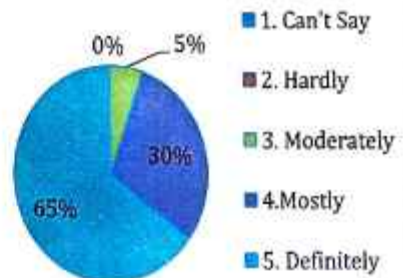
CO1: Are you able to implement Linear data structures(List, Array, Stack, Queue) ?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	2
3-Moderately	9	17
4-Mostly	21	39
5-Definitely	23	43
Total	54	100



CO2: Are you able to implement Non Linear data structures (like Graph, Tree)?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6
4-Mostly	16	30
5-Definitely	35	65
Total	54	100





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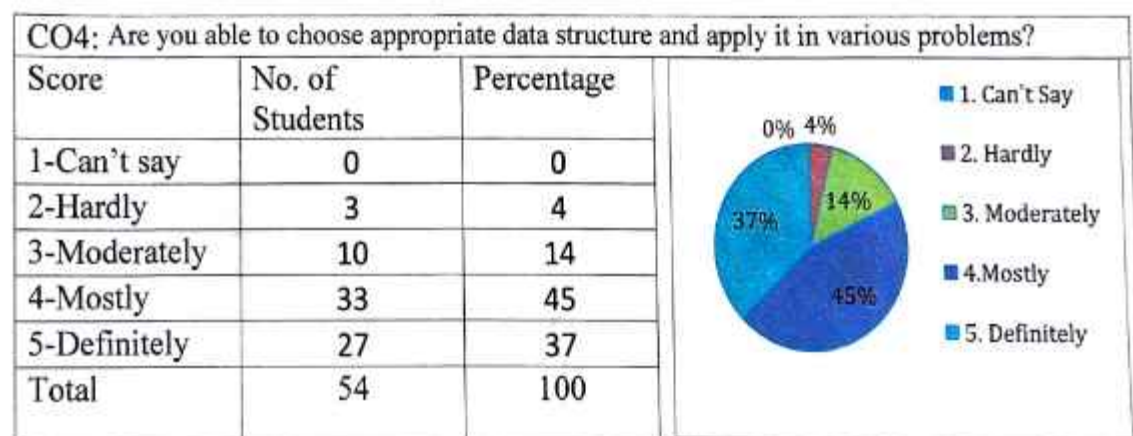
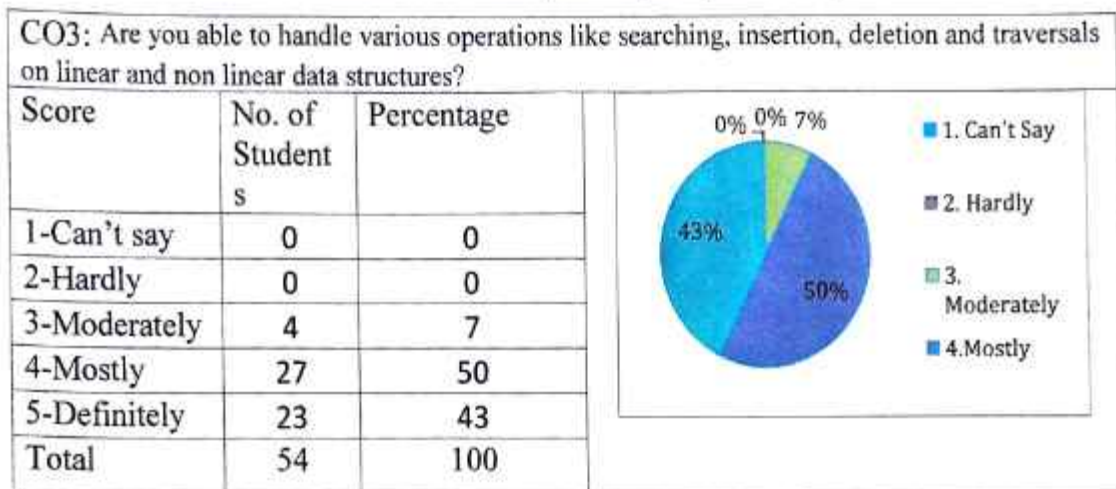
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Course Exit Analysis Report (SEM III)

CO5: Are you able to select appropriate searching techniques for given problems.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	4	7
3 Moderately	9	17
4-Mostly	13	24
5-Definitely	28	52
Total	54	100

0% 7% 17% 24% 52%

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

CO6: Are you able to demonstrate the ability to analyze, design, apply and use data structures to solve engineering problems and evaluate their solutions?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3- Moderately	10	14
4-Mostly	30	41
5- Definitely	32	43
Total	54	100

1% 1% 14% 41% 43%

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

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Course Exit Analysis Report (SEM III)

Course Name - Discrete Structures and Graph

Course In-charge - Dr. Divya Tamma

CO1 Understand the notion of mathematical thinking, mathematical proofs and to apply them in Problemsolving.

Score	No. of Students	Percentage	
1-Can't say	5	9.25%	
2-Hardly	1	1.85%	
3-Moderately	5	9.25%	
4-Mostly	16	29.6%	
5-Definitely	27	50%	
Total	54	100	

CO2: Ability to reason logically related problems

Score	No. of Students	Percentage	
1-Can't say	5	9.25%	
2-Hardly	1	1.85%	
3-Moderately	4	7.4%	
4-Mostly	17	31.48%	
5-Definitely	27	50%	
Total	54	100	



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Course Exit Analysis Report (SEM III)

CO3: Ability to understand relations, functions, Diagraph, and Lattice

Score	No. of Students	Percentage
1-Can't say	5	9.25%
2-Hardly	1	1.85%
3-Moderately	1	1.85%
4-Mostly	14	25.9%
5-Definitely	33	61.1%
Total	54	100%

The pie chart for CO3 shows the following distribution: 5 (9.25%), 1 (1.85%), 1 (1.85%), 14 (25.9%), and 33 (61.1%).

CO4: Ability to understand inclusion-exclusion principle, solving recurrence relations

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	10	14
4-Mostly	33	45
5-Definitely	27	37
Total	54	100

The pie chart for CO4 shows the following distribution: 0 (0%), 3 (4%), 10 (14%), 33 (45%), and 27 (37%).



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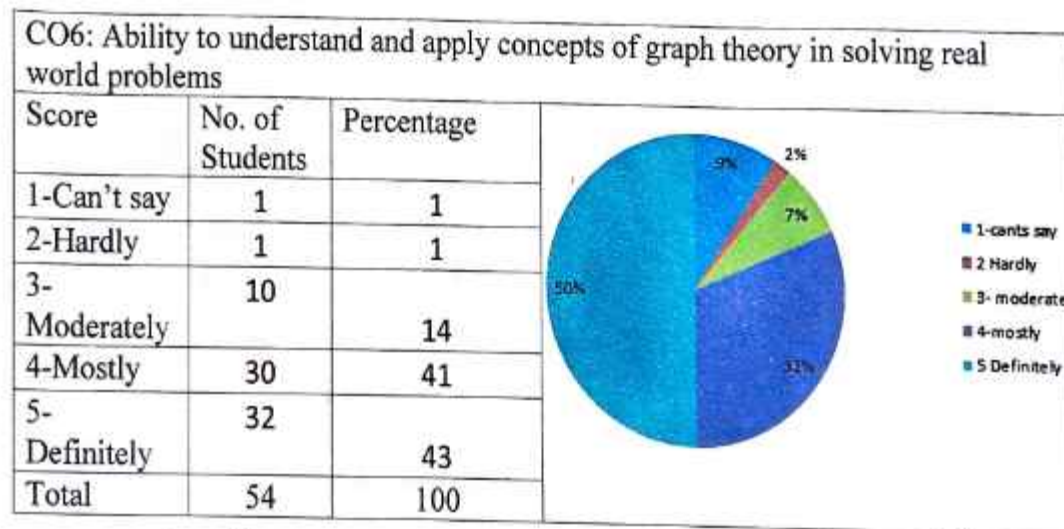
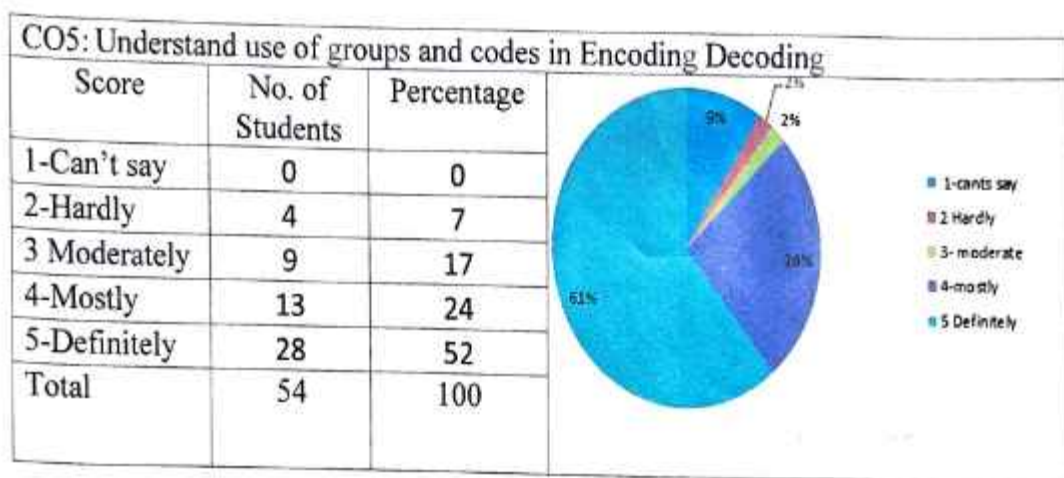
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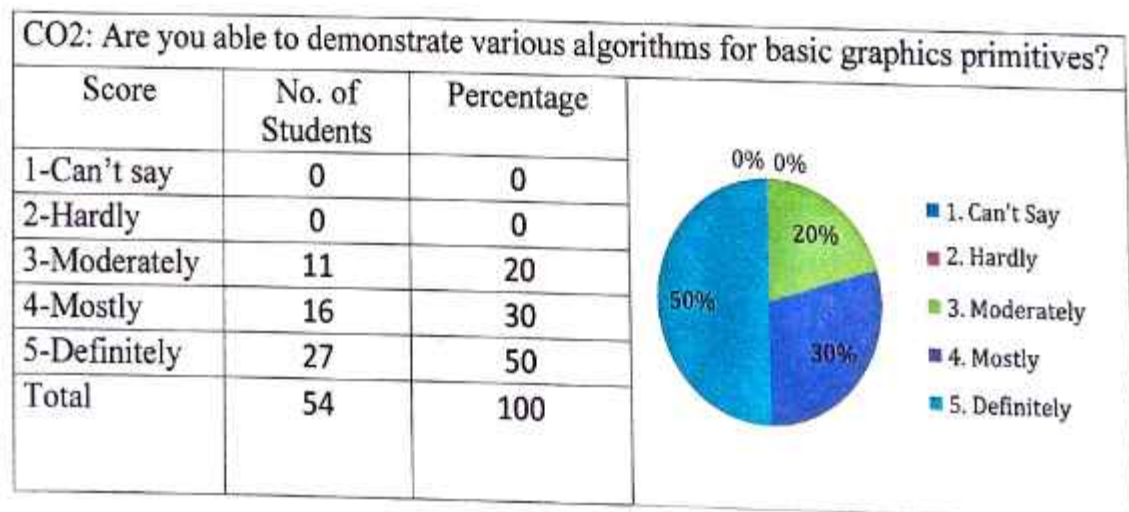
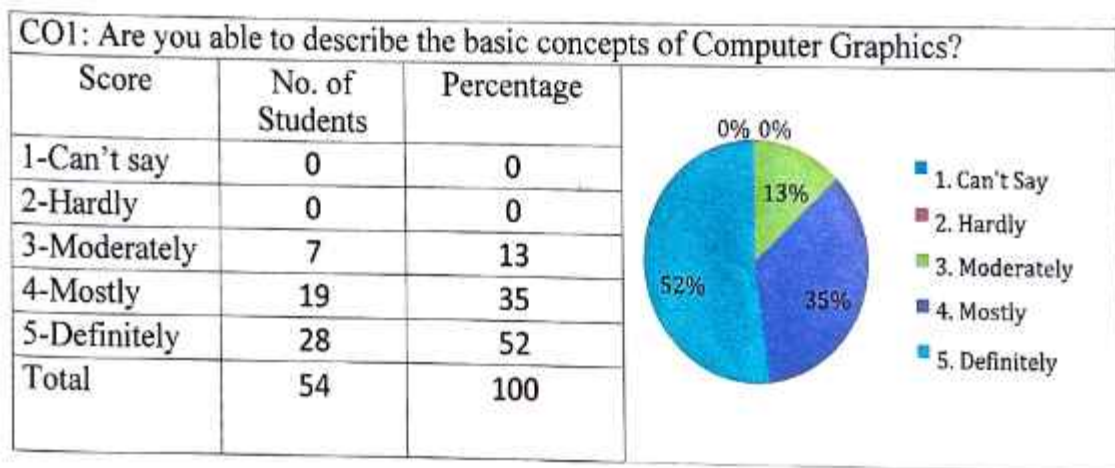
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Course Exit Analysis Report (SEM III)

Course Name:-Computer Graphics

Course In-Charge:- Prof. Amita Raman





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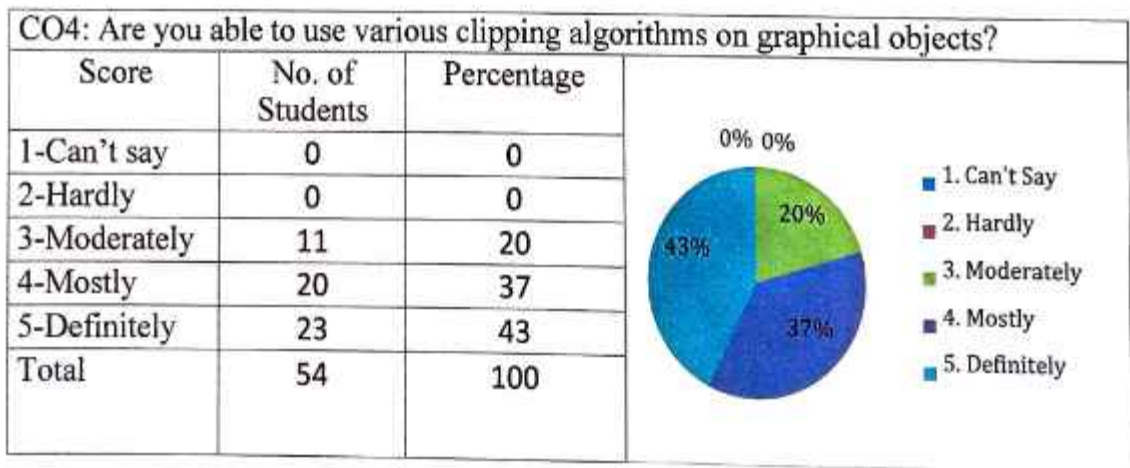
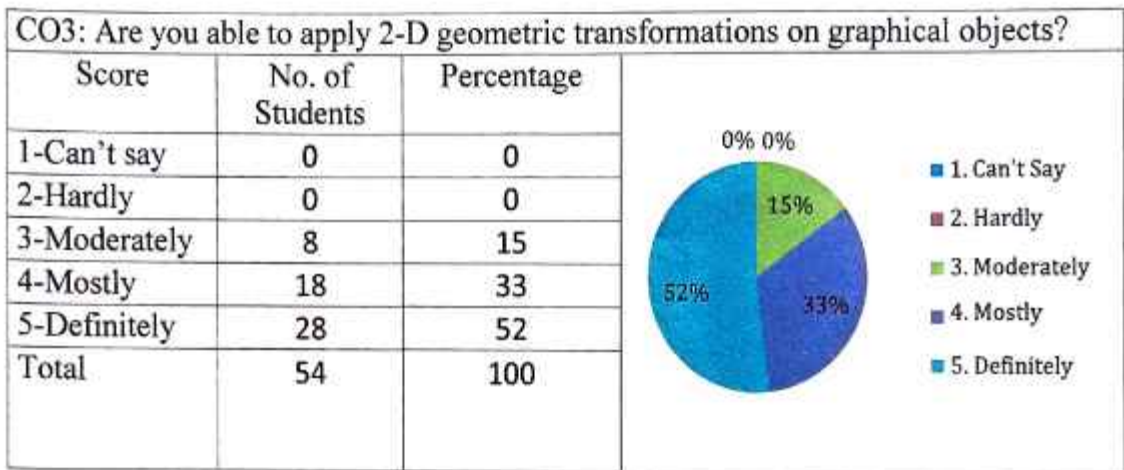
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Course Exit Analysis Report (SEM III)

CO5: Are you able to explore 3-D geometric transformations, curve representation techniques and projection methods?

Score	No. of Students	Percentage	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
1-Can't say	0	0	
2-Hardly	0	0	
3-Moderately	14	26	
4-Mostly	18	33	
5-Definitely	22	41	
Total	54	100	

CO6: Are you able to explain visible surface detection techniques and Animation?

Score	No. of Students	Percentage	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
1-Can't say	0	0	
2-Hardly	1	2	
3-Moderately	12	22	
4-Mostly	19	35	
5-Definitely	22	41	
Total	54	100	

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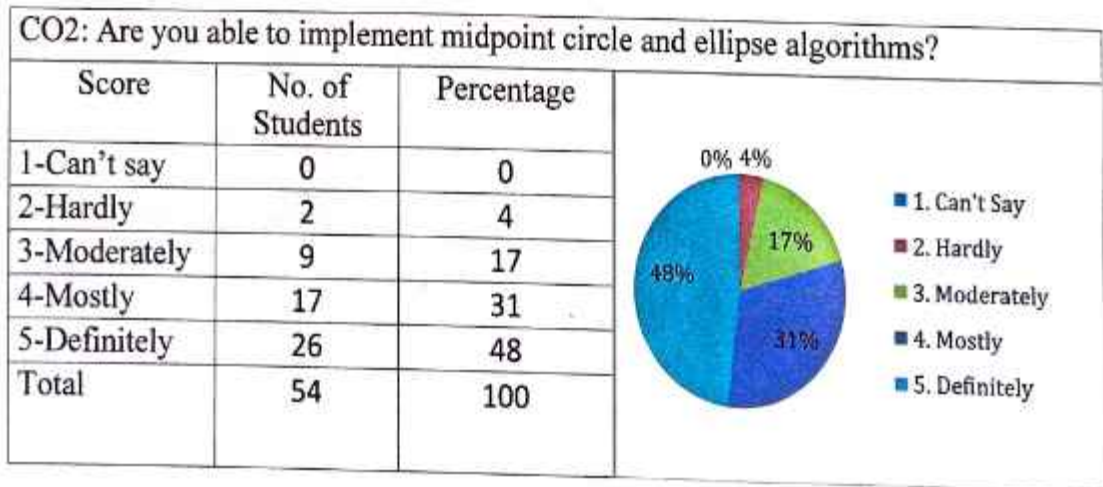
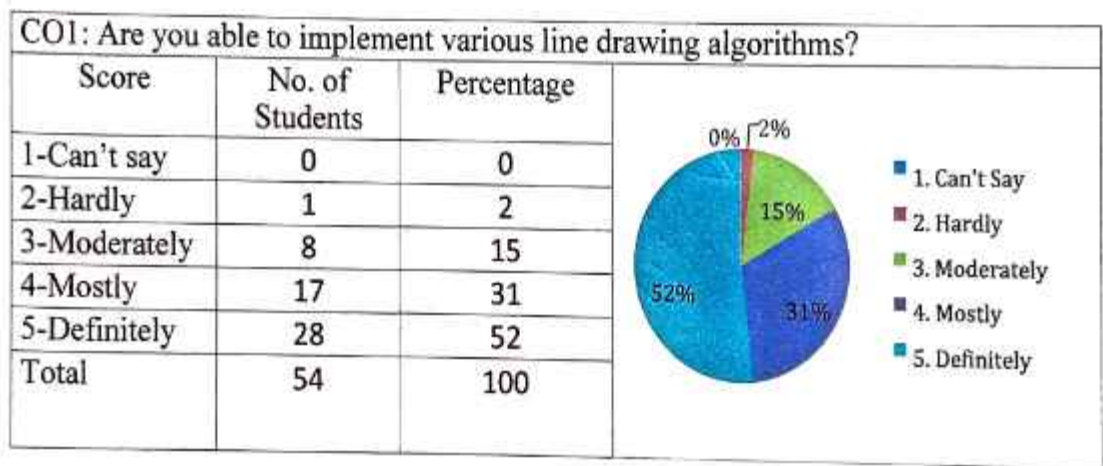
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Course Exit Analysis Report (SEM III)

Course Name - Computer Graphics Lab

Course In-charge - Prof. Amita Raman





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Course Exit Analysis Report (SEM III)

CO3: Are you able to implement output of filled area primitive algorithms?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	4
3-Moderately	11	20
4-Mostly	16	30
5-Definitely	25	46
Total	54	100

CO4: Are you able to apply transformations on graphical objects?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	2
3-Moderately	12	22
4-Mostly	18	33
5-Definitely	23	43
Total	54	100



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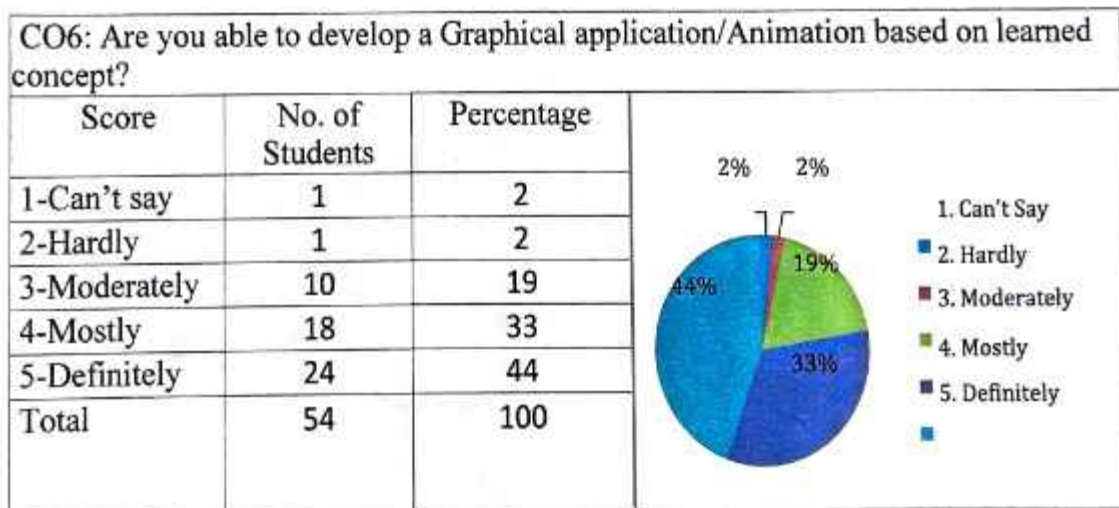
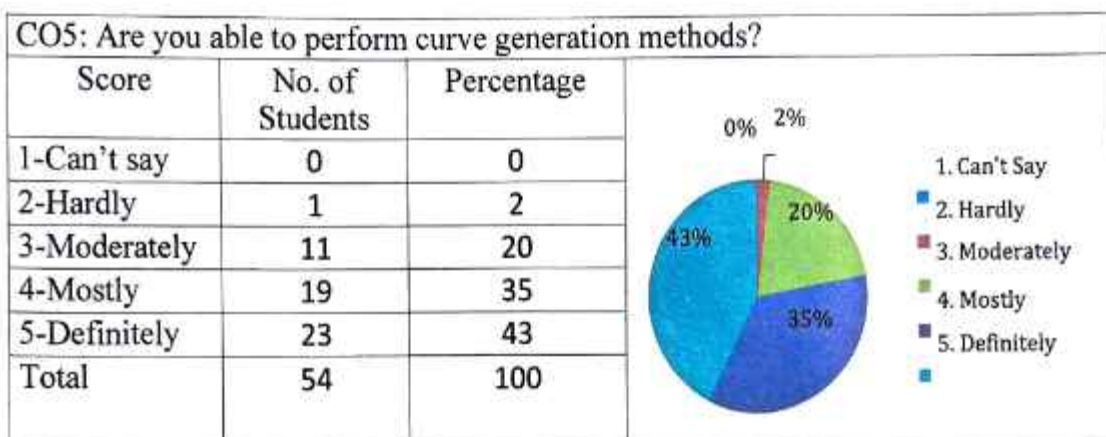
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Course Exit Analysis Report (SEM III)



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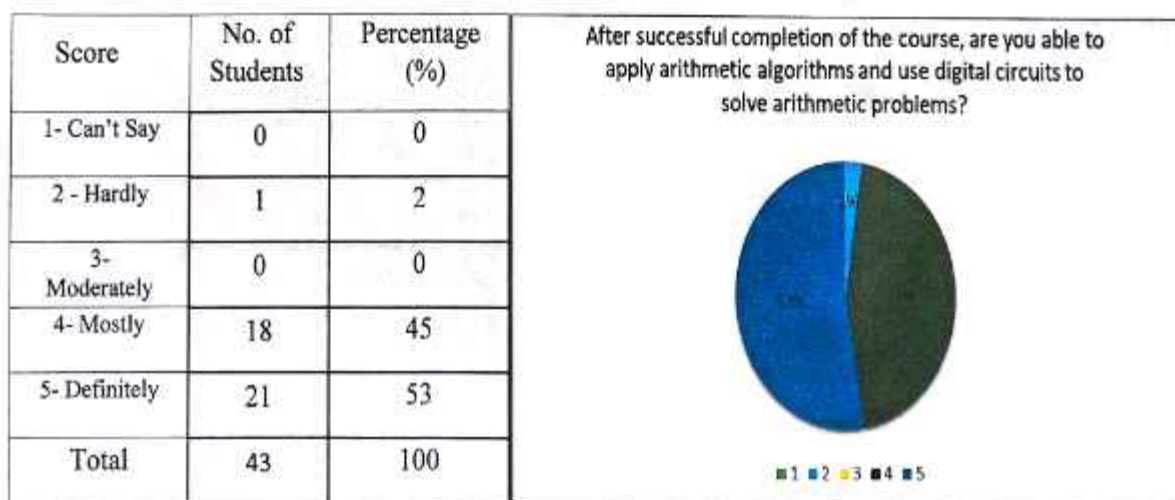
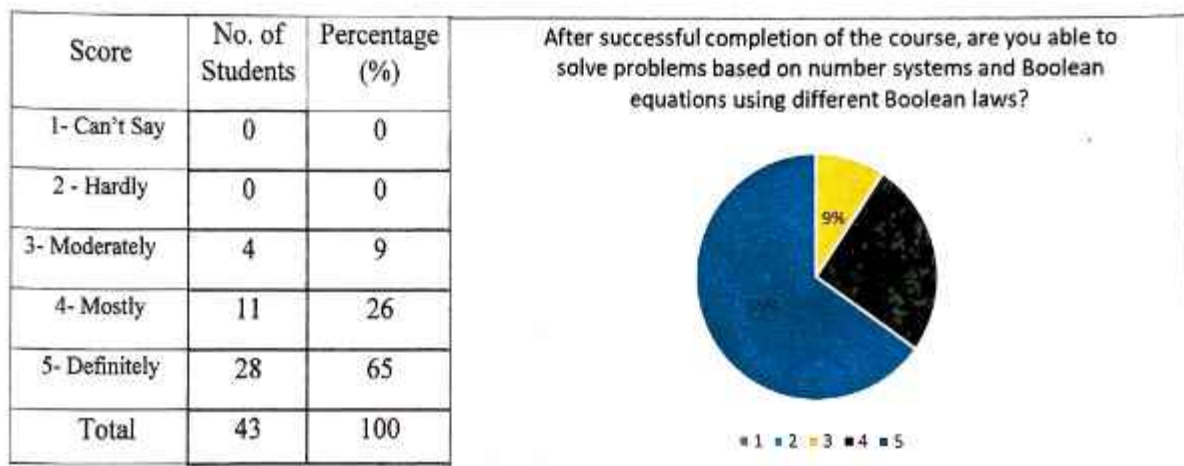
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Course Exit Analysis Report (SEM III)

Course Name: Digital Logic and Computer Organization
Architecture

Course In-charge: Dr. Sheetal Bukkawar





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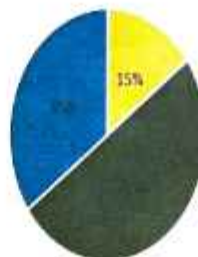
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Course Exit Analysis Report (SEM III)

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	15
4- Mostly	23	50
5- Definitely	14	35
Total	43	100

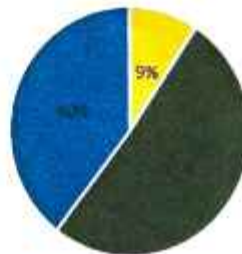
After successful completion of the course, are you able to design different combinational circuits like adders, subtractors, Multiplexers, demultiplexers etc.?



■ 1 ■ 2 ■ 3 ■ 4 ■ 5

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9
4- Mostly	22	51
5- Definitely	17	40
Total	43	100

After successful completion of the course, are you able to explain the generation of control signals in computer system?



■ 1 ■ 2 ■ 3 ■ 4 ■ 5



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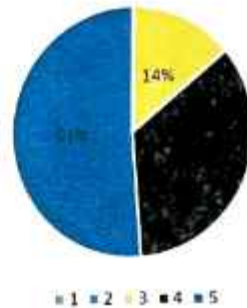
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Course Exit Analysis Report (SEM III)

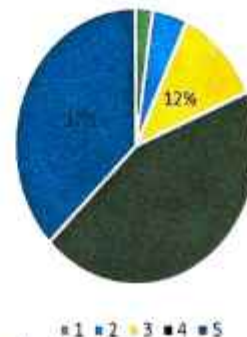
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	14
4- Mostly	15	35
5- Definitely	22	51
Total	43	100


After successful completion of the course, are you able to discuss the types and characteristics of memories and fundamentals of Cache memory?




Score	No. of Students	Percentage (%)
1- Can't Say	1	2.5
2 - Hardly	2	4.5
3- Moderately	5	12
4- Mostly	19	44
5- Definitely	16	37
Total	43	100

After successful completion of the course, are you able to explain the concept of Pipelining, its hazards and types of buses used in computer architecture?




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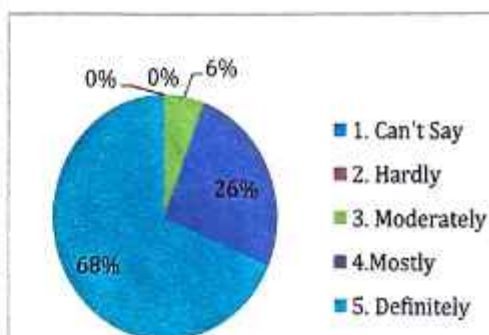
Course Exit Analysis Report (SEM III)

Course Name- DLCA Lab

Course Incharge - Prof. Ashwini S. Gharde

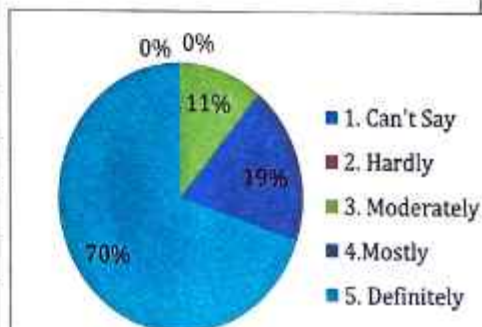
CO1: Did you carry out both the practical of realization for fundamental gates and the using universal gates? (AND, OR, NOT, EX-OR, ETC)

Score	No. of Students	Percent age
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6
4-Mostly	14	26
5-Definitely	37	69
Total	54	100



CO2: Did you understand the concept of code conversion? (Binary to Gray and Gray to Binary)

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	1	11
4-Mostly	11	19
5-Definitely	41	70
Total	54	100





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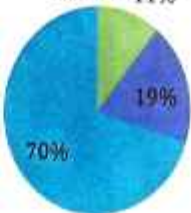
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Course Exit Analysis Report (SEM III)

CO3: Have you completed the ripple carry adder practical in the virtual lab environment?

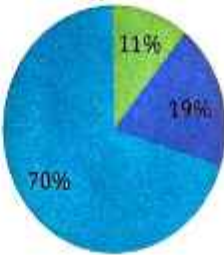
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	11
4-Mostly	15	19
5-Definitely	37	70
Total	54	100



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

CO4: Have you completed the ALU Design practical in the virtual lab environment?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	6	11
4-Mostly	10	19
5-Definitely	38	70
Total	54	100



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



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Course Exit Analysis Report (SEM III)

CO5: Have you completed the Memory Design practical in the virtual lab environment?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	5
4-Mostly	12	22
5-Definitely	39	73
Total	54	100

0% 0% 5% 22% 73%

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

CO6: Did you understand the concept of Booth's algorithm and how it works?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	8
4-Mostly	10	19
5-Definitely	39	73
Total	54	100

0% 0% 8% 19% 73%

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


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

Artificial Intelligence & Machine Learning

Course Exit Analysis Report (SEM III)

Course Name- Mini Project 1-A(CSM301)

Course In-Charge - Prof. Ashima Goyal

CO1: Are you able to identify suitable Agent Architecture for a given AI problem?.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	4
3-Moderately	7	13
4-Mostly	19	35
5-Definitely	26	48
Total	54	100

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

CO2: Are you able to implement simple programs using Prolog?

Score	No. of Students	Percentage
1-Can't say	2	4
2-Hardly	5	9
3-Moderately	9	17
4-Mostly	17	31
5-Definitely	21	39
Total	54	100

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



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

Artificial Intelligence & Machine Learning

Course Exit Analysis Report (SEM III)

CO3: Are you able to implement various search techniques for a Problem-Solving Agent?

Score	No. of Students	Percentage
1-Can't say	3	6
2-Hardly	7	13
3-Moderately	13	24
4-Mostly	15	28
5-Definitely	16	29
Total	54	100

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

CO4: Are you able to represent natural language description as statements and apply inference rules to it?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	5	9
3-Moderately	9	17
4-Mostly	17	32
5-Definitely	23	42
Total	54	100

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



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

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Course Exit Analysis Report (SEM III)

CO5: Are you able to construct Bayesian Belief Network for a given problem?

Score	No. of Students	Percentage
1-Can't say	3	6
2-Hardly	4	7
3-Moderately	12	22
4-Mostly	16	30
5-Definitely	19	35
Total	54	100

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

CO6: Are you able to draw probabilistic inferences from Bayesian Belief Network for a given problem?

Score	No. of Students	Percentage
1-Can't say	1	2
2-Hardly	4	7
3-Moderately	11	20
4-Mostly	23	43
5-Definitely	15	28
Total	54	100

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

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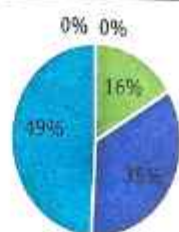
Course Exit Analysis Report (SEM III)

Course Name- OOPM Lab

Course In-Charge - Prof. Mitrakshi Patil

CO1: Are you able to apply fundamental programming Constructs like if..else, while etc.?

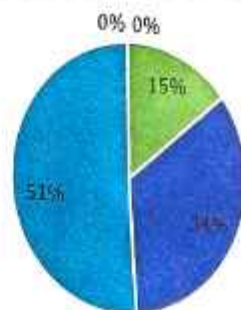
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	9	16
4-Mostly	19	35
5-Definitely	27	49
Total	55	100



■ 1 ■ 2 ■ 3 ■ 4 ■ 5

CO2: Are you able to illustrate the concept of class, object?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	15
4-Mostly	19	35
5-Definitely	28	51
Total	55	100



■ 1 ■ 2 ■ 3 ■ 4 ■ 5



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Course Exit Analysis Report (SEM III)

CO3: Are you able to elaborate the concept of Strings, arrays?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	15
4-Mostly	22	40
5-Definitely	25	45
Total	55	100

■ 1 ■ 2 ■ 3 ■ 4 ■ 5

CO4: Are you able to implement the concept of inheritance and interfaces??

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	12	22
4-Mostly	20	36
5-Definitely	23	42
Total	55	100

■ 1 ■ 2 ■ 3 ■ 4 ■ 5



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Course Exit Analysis Report (SEM III)

CO5: Are you able to implement the concept of exception handling and multithreading?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	10	18
4-Mostly	23	42
5-Definitely	22	40
Total	55	100

■ 1 ■ 2 ■ 3 ■ 4 ■ 5

CO6: Are you able to develop a GUI based application?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	2
3-Moderately	13	24
4-Mostly	16	29
5-Definitely	25	45
Total	55	100

■ 1 ■ 2 ■ 3 ■ 4 ■ 5


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Action taken based on feedback from students

Academic Year 2022-23(ODD)

Summary of feedback – Semester III

Feedbacks collected from students were analyzed and necessary actions were planned for effective teaching. Suggestions obtained from the students are discussed below.

- Required more practice for Engineering Mathematics III
- Awareness of software related to the core subjects like JAVA etc. in curriculum.
- Need awareness about the latest technologies and practices in industry.

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:

Sr. No.	Feedback/Suggestions	Actions Taken	Date
1	More practice problems for EM-III	Extra classes were taken for EM-III. Solved question papers.	As Required
2.	Teaching aids for related topics	ppts were shared for better understanding.	As Required




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3.	Latest technologies and practices in industry	Expert lecture on data structures for the future	2/01/23
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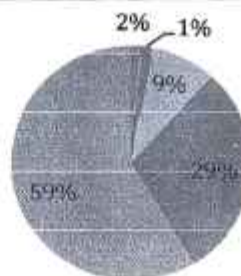
Course Exit Analysis Report (SEM IV)

Course- Engineering Maths-IV

Course Incharge - Prof. Santhoshi Iyengar

CO1: Are you able to apply the concepts of eigenvalues and eigenvectors in engineering problems.

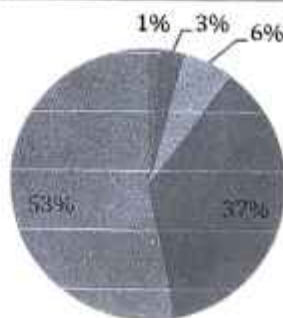
Score	No. of Students	Percentage
1-Can't say	1	1.5
2-Hardly	1	1.5
3-Moderately	6	8.8
4-Mostly	20	29.4
5-Definitely	40	58.8
Total	68	100



- 1
- 2
- 3
- 4
- 5

CO2: Are you able to Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.

Score	No. of Students	Percentage
1-Can't say	1	1.5
2-Hardly	2	2.9
3-Moderately	4	5.9
4-Mostly	25	36.8
5-Definitely	36	52.9
Total		100



- 1
- 2
- 3
- 4
- 5



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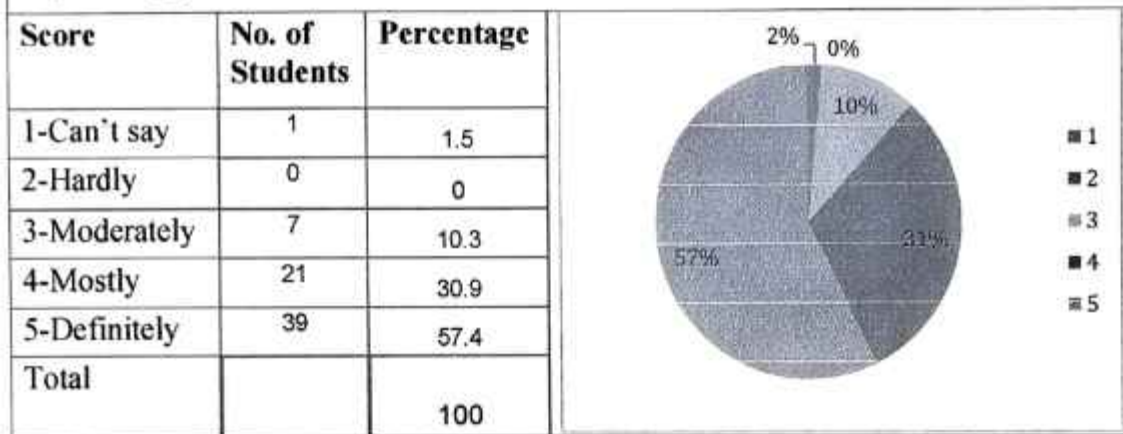
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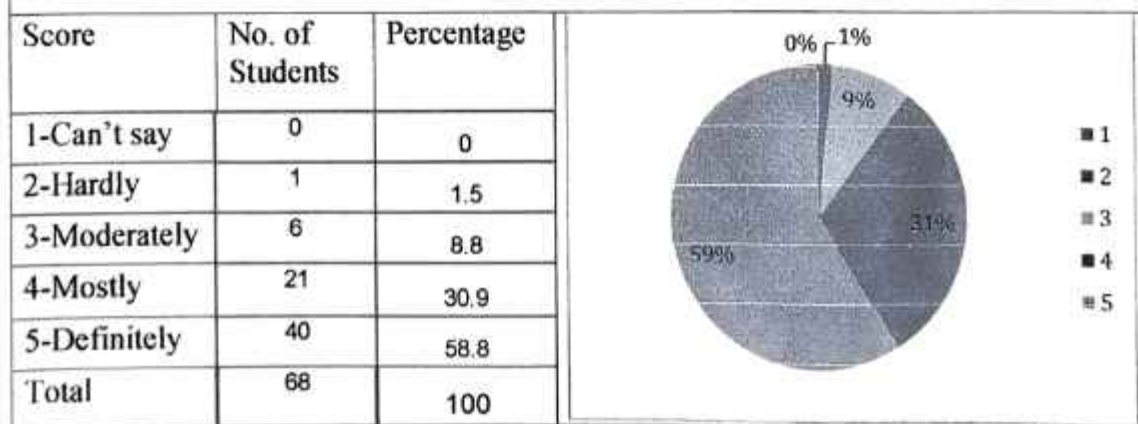
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Course Exit Analysis Report (SEM IV)

CO3: Are you able to Apply the concept of Z- transformation and inverse in engineering problems.



CO4: Are you able to Use the concept of probability distribution and sampling theory to engineering problems.





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Course Exit Analysis Report (SEM IV)

CO5: Are you able to Apply the concept of Linear Programming Problems to optimization.

Score	No. of Students	Percentage	Pie Chart	
1-Can't say	0	0	<ul style="list-style-type: none">■ 1■ 2■ 3■ 4■ 5	
2-Hardly	0	0		
3-Moderately	9	13.2		
4-Mostly	20	29.4		
5-Definitely	39	57.4		
Total	68	100		

CO6 : Are you able to Solve Non-Linear Programming Problems for optimization of engineering problems.

Score	No. of Students	Percentage	Pie Chart	
1-Can't say	1	1.5	<ul style="list-style-type: none">■ 1■ 2■ 3■ 4■ 5	
2-Hardly	0	0		
3-Moderately	6	8.8		
4-Mostly	20	29.4		
5-Definitely	41	60.3		
Total	68	100		

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Course Exit Analysis Report (SEM VI)

Course: Cryptography & System Security

Course Incharge - Diksha Bombe

CO1- Are you able to Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory.?

Score	No. of Students	Percentage	<ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely
1-Can't say	1	1	
2-Hardly	3	4	
3-Moderately	12	16	
4-Mostly	27	36	
5-Definitely	32	43	
Total	75	100	

CO2- Are you able to Understand, compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication?

Score	No. of Students	Percentage	<ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely
1-Can't say	2	3	
2-Hardly	1	1	
3-Moderately	13	17	
4-Mostly	28	38	
5-Definitely	31	41	
Total	75	100	

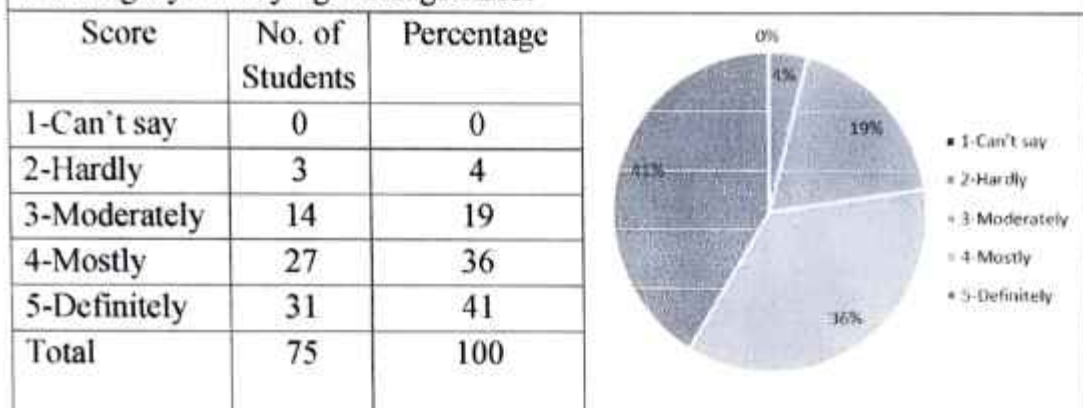


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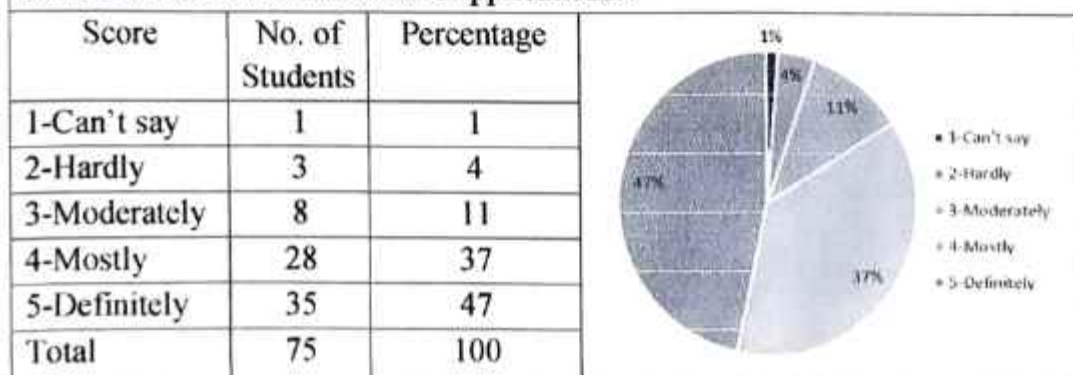
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CO3- Are you able to Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes?



CO4- Are you able to Apply different digital signature algorithms to achieve authentication and create secure applications.?





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CO5- Are you able to Understand the concept of Operating System Security & Database Security?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	8	11
4-Mostly	30	40
5-Definitely	34	45
Total	75	100

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

CO6- Are you able to Understand concept of Web Security such as Cookies, SSL, HTTPS, SSH, Web Browser Attacks?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	13	17
4-Mostly	21	28
5-Definitely	38	51
Total	75	100

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

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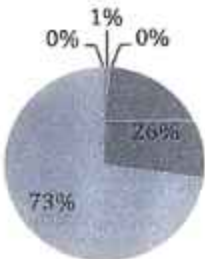
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Course Exit Analysis Report (SEM IV)

Course -Mini-project

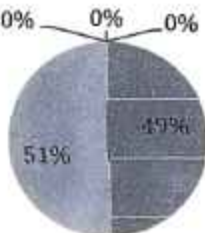
Course In-charge - Prof. Dhanashri Kane

CO1: Are you able to Identify problems based on societal /research needs?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	01	1
3-Moderately	0	0
4-Mostly	20	26
5-Definitely	56	73
Total	77	100



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

CO2: Are you able to Apply Knowledge and skill to solve societal problems in a group?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	0	0
4-Mostly	38	49
5-Definitely	39	51
Total	77	100



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



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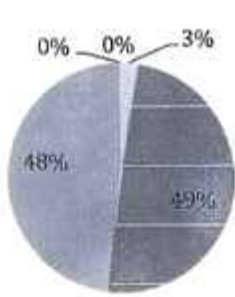
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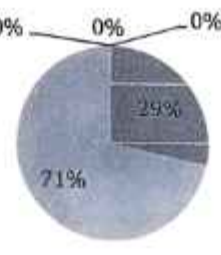
Course Exit Analysis Report (SEM IV)

CO3: Are you able to Develop interpersonal skills to work as member of a group or leader?		
Score	No. of Students	Percentage
1-Can't say	0	0.00
2-Hardly	0	0
3-Moderately	02	3
4-Mostly	38	49
5-Definitely	37	48
Total	77	100



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

CO4: Are you able to analyze the impact of solutions in societal and environmental context for sustainable development.		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	0	0
4-Mostly	22	29
5-Definitely	55	71
Total	77	100



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



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Course Exit Analysis Report (SEM IV)

CO5: Are you able to demonstrate capabilities of self-learning in a group, which leads to lifelong learning?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	01	1
4-Mostly	16	21
5-Definitely	60	78
Total	77	100

0% 0% 1% 78% 21%

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

CO6: Are you able to Demonstrate project management principles during project work?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	0	0
4-Mostly	20	26
5-Definitely	57	74
Total	77	100

0% 0% 0% 74% 26%

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

D Kane
Course In-charge

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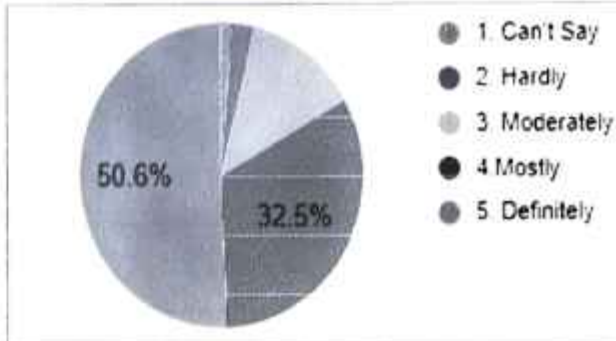
Course Exit Analysis Report (SEM IV)

Course- Database Management System (CSC403)

Course Incharge - Prof. Maya Bangar

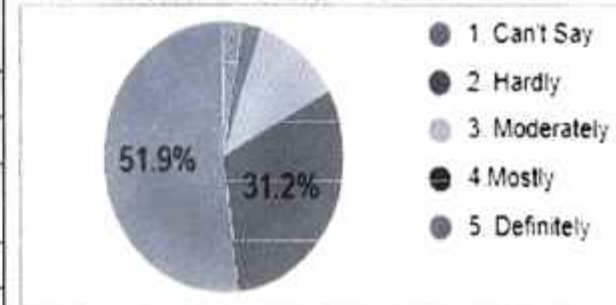
CO1: Are you able to Identify and analyze the roles and responsibilities of different types of users and investigate the different architecture to find appropriate solutions?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	10	13
4-Mostly	25	32
5-Definitely	39	51
Total	77	100



CO2: Are you able to Understand and Design data modeling using ER and Extended ER features to meet the specified needs?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	9	12
4-Mostly	24	31
5-Definitely	40	52
Total	77	100





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Course Exit Analysis Report (SEM IV)

CO3: Are you able to understand different relational algebra operators to find appropriate solution leading to valid conclusion?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	3	4
3-Moderately	10	13
4-Mostly	25	32
5-Definitely	38	49
Total	77	100

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

CO4: Are you able to Investigate and formulate SQL queries to find appropriate solution to complex problems?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	9	12
4-Mostly	24	31
5-Definitely	40	52
Total	77	100

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



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Course Exit Analysis Report (SEM IV)

CO5: Are you able to understand different normalization techniques to process and meet the specified needs with appropriate solution?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	9	12
4-Mostly	27	35
5-Definitely	38	49
Total	77	100

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

CO6: Are you able to Identify the strength and limitation of tools for concept of transaction, concurrency and recovery?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	1	1
3-Moderately	9	12
4-Mostly	24	31
5-Definitely	41	53
Total	77	100

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

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Course Exit Analysis Report (SEM IV)

Course- Database Management System (LAB)

Course Incharge - Prof. Maya Bangar

CO1: Are you able to understand the design ER /EER diagram and convert to relational model for the real world application

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	3	4
4-Mostly	16	21
5-Definitely	44	59
Total	74	100

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

CO2: Are you able to understand how to Apply DDL, DML, DCL and TCL commands.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	17	23
4-Mostly	25	34
5-Definitely	30	41
Total	74	100

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



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Course Exit Analysis Report (SEM IV)

CO3: Are you able to understand to write simple and complex queries			
Score	No. of Students	Percentage	
1-Can't say	1	1	<ul style="list-style-type: none"> ● 1. Can't Say ● 2. Hardly ● 3. Moderately ● 4. Mostly ● 5. Definitely
2-Hardly	1	1	
3-Moderately	10	14	
4-Mostly	34	46	
5-Definitely	28	38	
Total	74	100	

CO4: Are you able to understand how to Use PL / SQL Constructs.			
Score	No. of Students	Percentage	
1-Can't say	0	0	<ul style="list-style-type: none"> ● 1. Can't Say ● 2. Hardly ● 3. Moderately ● 4. Mostly ● 5. Definitely
2-Hardly	1	1	
3-Moderately	15	20	
4-Mostly	31	42	
5-Definitely	27	36	
Total	74	100	



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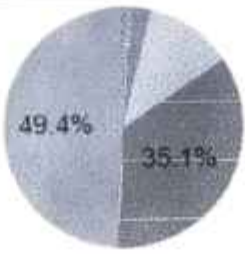
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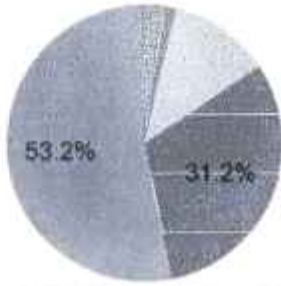
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

Course Exit Analysis Report (SEM IV)

CO5: Are you able to understand the concept of concurrent transactions execution and frontend-backend connectivity

Score	No. of Students	Percentage	 <ul style="list-style-type: none">● 1. Can't Say● 2. Hardly● 3. Moderately● 4. Mostly● 5. Definitely
1-Can't say	2	2	
2-Hardly	0	0	
3-Moderately	13	18	
4-Mostly	31	42	
5-Definitely	28	38	
Total	74	100	

CO6: Are you able to understand the concept of join operation and aggregate function.

Score	No. of Students	Percentage	 <ul style="list-style-type: none">● 1. Can't Say● 2. Hardly● 3. Moderately● 4. Mostly● 5. Definitely
1-Can't say	0	0	
2-Hardly	1	1	
3-Moderately	11	15	
4-Mostly	36	49	
5-Definitely	26	35	
Total	74	100	

Maya
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Course Exit Analysis Report (SEM IV)

Course- AOA

Course Incharge - Prof. Snehal Gavale

CO1: Are you able to understand the concepts of time and space complexity of an algorithm?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	20	26
5-Definitely	41	53
Total	77	100

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

CO2: Are you able to describe, apply and analyze the complexity of divide and conquer strategy ?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	12	16
4-Mostly	15	19
5-Definitely	47	61
Total	77	100

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



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Course Exit Analysis Report (SEM IV)

CO3: Are you able to describe, apply and analyze the complexity of greedy strategy ?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	10	13
4-Mostly	25	32
5-Definitely	39	51
Total	77	100

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

CO4: Are you able to describe, apply and analyze the complexity of dynamic programming strategy ?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	1	1
3-Moderately	10	13
4-Mostly	25	32
5-Definitely	39	51
Total	77	100

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



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Course Exit Analysis Report (SEM IV)

CO5: Are you able to explain and apply backtracking, branch and bound ?			
Score	No. of Students	Percentage	
1-Can't say	2	3	<ul style="list-style-type: none">● 1. Can't Say● 2. Hardly● 3. Moderately● 4. Mostly● 5. Definitely
2-Hardly	2	3	
3 Moderately	9	12	
4-Mostly	21	27	
5-Definitely	43	56	
Total	77	100	

CO6: Are you able to Understand and apply string matching techniques?			
Score	No. of Students	Percentage	
1-Can't say	2	3	<ul style="list-style-type: none">● 1. Can't Say● 2. Hardly● 3. Moderately● 4. Mostly● 5. Definitely
2-Hardly	4	5	
3-Moderately	14	18	
4-Mostly	16	21	
5-Definitely	41	53	
Total	77	100	

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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Course Exit Analysis Report (SEM IV)

Course- AOA LAB

Course Incharge- Prof. Snehal Gavale

CO1: Are you able to Implement the algorithms using different approaches?		
Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	19	25
4-Mostly	20	26
5-Definitely	35	45
Total	77	100

51.9%
20.8%
24.7%

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

CO2: Are you able to analyze and compare the complexities of various algorithms ?		
Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	7	9
4-Mostly	27	35
5-Definitely	40	52
Total	77	100

61.0%

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



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Course Exit Analysis Report (SEM IV)

CO3: Are you able to design and implement efficient algorithms for a specified application ?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	5	6
4-Mostly	25	32
5-Definitely	43	56
Total	77	100

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

CO4: Are you able to Analyze worst-case running time of algorithms and understand fundamental algorithmic problems?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	10	13
4-Mostly	31	40
5-Definitely	34	44
Total	77	100

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



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Course Exit Analysis Report (SEM IV)

CO5: Can you get a clear idea on algorithmic design paradigms like Divide-and-Conquer, Dynamic Programming, Greedy, Branch and Bound etc. ?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3 Moderately	4	5
4-Mostly	26	34
5-Definitely	43	56
Total	77	100

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

CO6: Is it Strengthen the ability to identify and apply the suitable algorithm for the given real-world problem.

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	5	7
4-Mostly	26	34
5-Definitely	41	54
Total	76	100

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

Gavale
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Course Exit Analysis Report (SEM IV)

Course Name- Python Programming (CSL405)

Course In-charge - Prof. Chitra Chitters

CO1: Are you able to understand basic concepts in python?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	5	6
4-Mostly	23	30
5-Definitely	49	64
Total	77	100

0% 0% 6% 30% 64%

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

CO2: Are you able to explore contents of files, directories and text processing with python?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	6	8
4-Mostly	30	39
5-Definitely	41	53
Total	77	100

0% 0% 8% 39% 53%

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



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Course Exit Analysis Report (SEM IV)

CO3: Are you able to develop program for data structure using built in functions in python?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	10
4-Mostly	22	29
5-Definitely	47	61
Total	77	100

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

CO4: Are you able to explore django web framework for developing python-based web application?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	10
4-Mostly	25	32
5-Definitely	44	57
Total	77	100

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



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Course Exit Analysis Report (SEM IV)

CO5: Are you able to understand Multithreading concepts using python?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	10
4-Mostly	26	34
5-Definitely	43	56
Total	77	100

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

CO6: Are you able to do understand NumPy and Pandas objects and methods in python?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	7	9
4-Mostly	25	32
5-Definitely	44	57
Total	77	100

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

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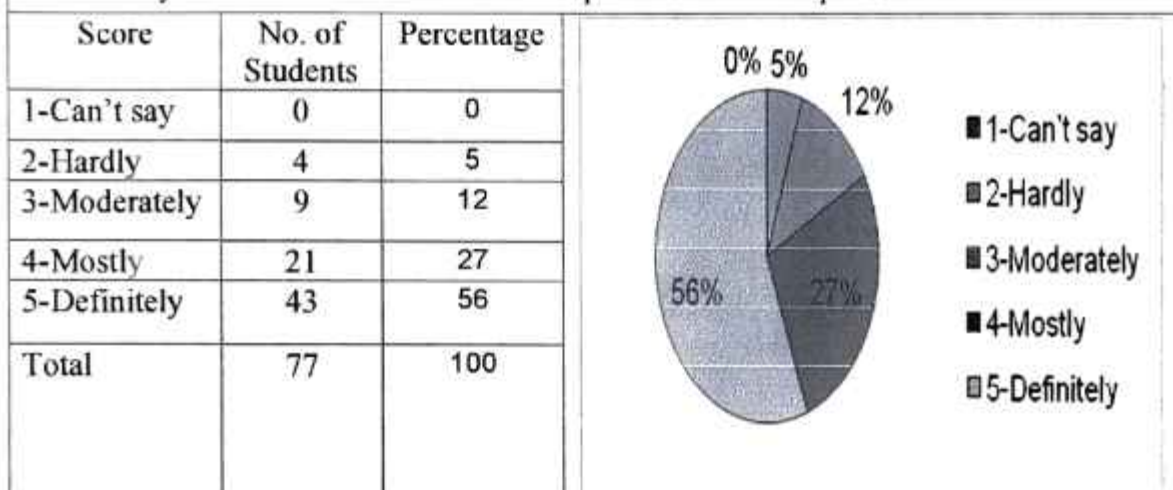
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Course Exit Analysis Report (SEM IV)

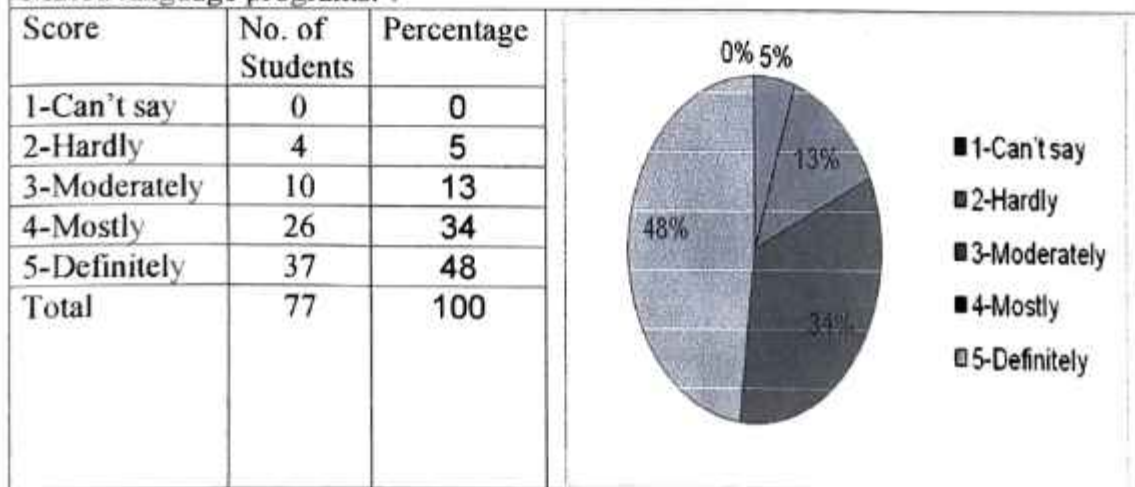
Course - Microprocessor (TH)

Course Incharge - Prof. Jayshri Bankar

CO1: Are you able to Describe core concepts of 8086 microprocessor ?



CO2: Are you able to Interpret the instructions of 8086 and write assembly and Mixed language programs. ?





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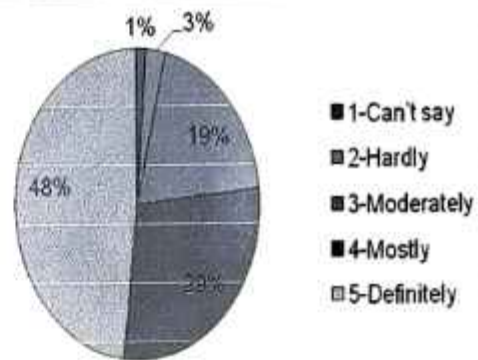
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Course Exit Analysis Report (SEM IV)

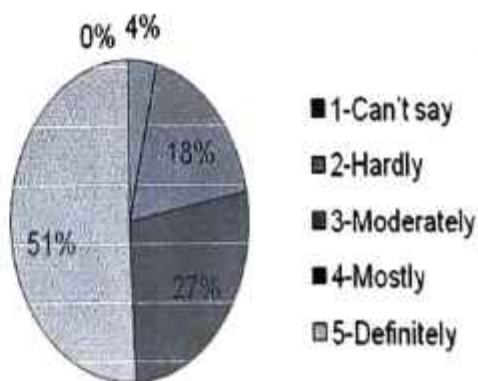
CO3: Are you able to Identify the specifications of peripheral chip?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	15	19
4-Mostly	22	29
5-Definitely	37	48
Total	77	100



CO4: Are you able to Design 8086 based system using memory and peripheral chips?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	14	18
4-Mostly	21	27
5-Definitely	39	51
Total	77	100





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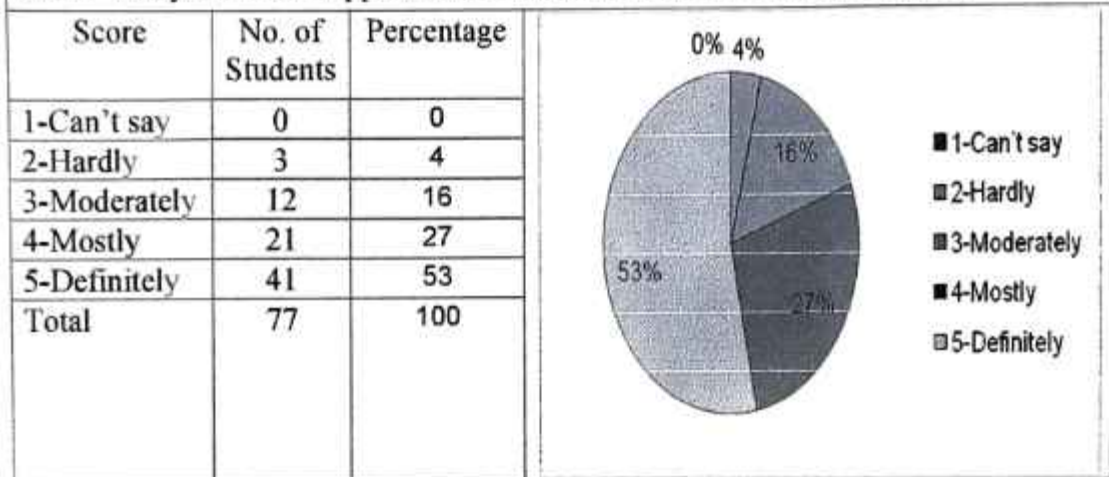
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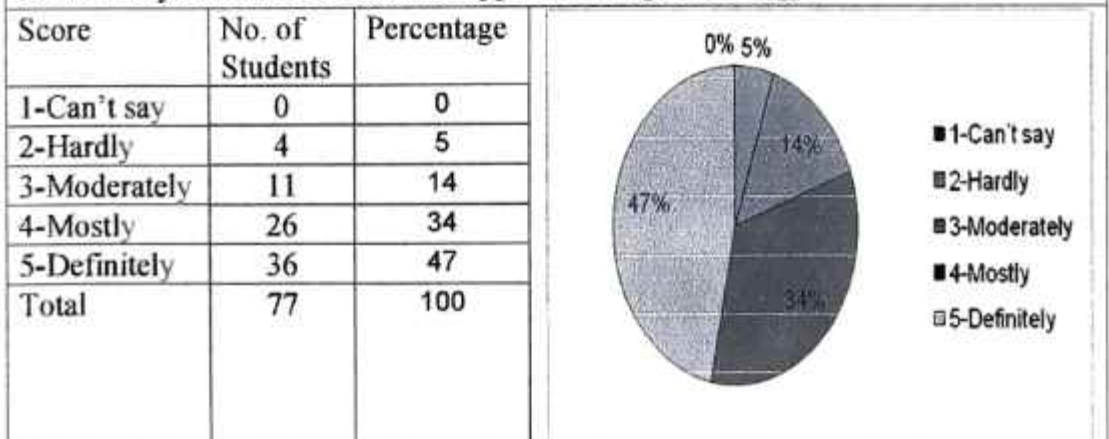
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Course Exit Analysis Report (SEM IV)

CO5: Are you able to Appraise the architecture of advanced processors .



CO6: Are you able to Understand hyperthreading technology ?




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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNINGS

Course Exit Analysis Report (SEM IV)

Course - MP LAB

Course Incharge : Prof. Rashmi Saratkar

CO1: Are you able to Understand appropriate instructions to program an 8086 microprocessor to perform ?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	15	19
4-Mostly	20	26
5-Definitely	42	55
Total	77	100

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

CO2: Are you able to Understand the program in assembly language for Intel 8086?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	16	21
4-Mostly	32	42
5-Definitely	28	36
Total	77	100

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



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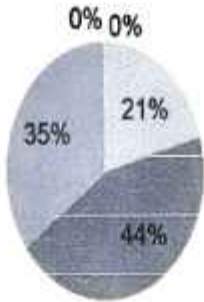
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNINGS**

Course Exit Analysis Report (SEM IV)

CO3: Are you able to Develop the program in assembly language to display messages for 8086?


Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	34	44
5-Definitely	27	35
Total	77	100



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

CO4: Are you able to Understand the execution and debugging of the assembly language program of Intel 8086?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	36	47
5-Definitely	25	32
Total	77	



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



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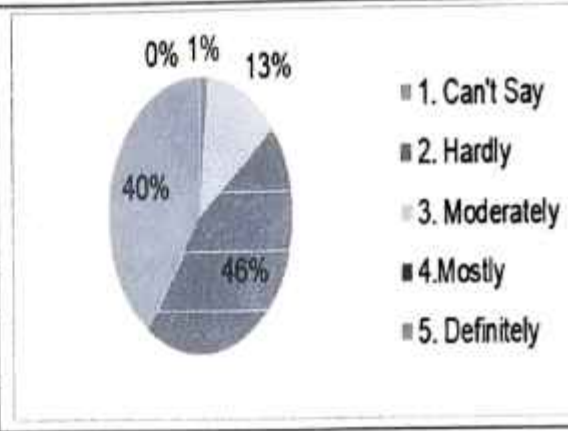
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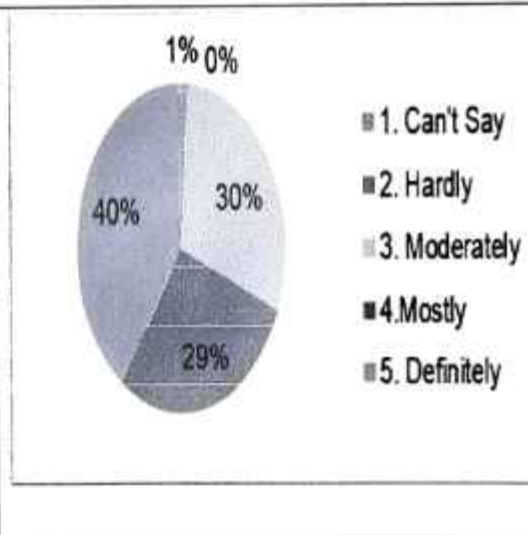
CO5: Are you able to develop the program in mixed language program for Intel 8086

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3 Moderately	10	13
4-Mostly	35	45
5-Definitely	31	40
Total	77	100



CO6: Are you able to understand the interfacing program (stepper motor) of Intel 8086

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	23	30
4-Mostly	22	29
5-Definitely	31	40
Total	77	100



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Action taken based on feedback from students

Academic Year 2022-23(EVEN)

Summary of feedback – Semester IV

Feedbacks collected through course exit forms were analyzed and necessary actions were planned for effective teaching. Abstract of suggestions obtained from the students are discussed below.

- More practice for Engineering Mathematics IV
- Exposure of software related to the core subjects like python in curriculum.
- Need awareness about the latest technologies and practices in industry.

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:

Sr. No.	Feedback/Suggestions	Actions Taken	Date
1	More practice problems for EM-IV	Extra classes were taken for EM-IV	As Required
2.	Visual aid for related topics	ppts were shared for better understanding.	As Required



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3.	Latest technologies and practices in industry	Expert lecture on python programming	29/03/23
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**Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Course Exit Analysis Report (SEM V)

Course Name - Artificial Intelligence

Course In-charge – Prof. Shraddha Subhedar

CO1: Are you able to identify suitable architecture of Intelligent Agent for given problem?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	6	8
4-Mostly	23	30.6
5-Definitely	46	61.4
Total	75	100

A pie chart illustrating the distribution of student responses for CO1. The chart is divided into five segments: a large teal segment for '5-Definitely' (61.4%), a blue segment for '4-Mostly' (30.6%), a green segment for '3-Moderately' (8.0%), and two very small segments for '1-Can't say' and '2-Hardly' (both 0%). A legend to the right of the chart maps the colors to the score categories.

CO2: On what scale, you have understood different uninformed & informed search strategies?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	7	9.3
4-Mostly	28	37.3
5-Definitely	40	53.4
Total	75	100

A pie chart illustrating the distribution of student responses for CO2. The chart is divided into five segments: a large teal segment for '5-Definitely' (53.4%), a blue segment for '4-Mostly' (37.3%), a green segment for '3-Moderately' (9.3%), and two very small segments for '1-Can't say' and '2-Hardly' (both 0%). A legend to the right of the chart maps the colors to the score categories.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Course Exit Analysis Report (SEM V)

CO3: Are you able to convert natural language description of statements in First order logic (FOL)?

Score	No. of Students	Percentage
1-Can't say	1	0.13
2-Hardly	0	0
3-Moderately	17	22.7
4-Mostly	25	34.7
5-Definitely	32	42.6
Total	75	100



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

CO4: On what level you understand significance of probability while reasoning under uncertainty?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	13	17.3
4-Mostly	31	41.33
5-Definitely	31	41.33
Total	75	100



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



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Course Exit Analysis Report (SEM V)

CO5: Do you understand supervised & unsupervised learning techniques?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	7	9.3
4-Mostly	28	37.3
5-Definitely	40	53.3
Total	75	100

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

CO6: What extent you have understood concept of expert system & its application in real world?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	6	8
4-Mostly	32	42.6
5-Definitely	37	49.33
Total	75	100

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

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

Artificial Intelligence & Machine Learning

Course Exit Analysis Report (SEM V)

Course Name- Artificial Intelligence Lab

Course In-charge - Prof. Ashima Goyal

CO1: Are you able to identify suitable Agent Architecture for a given AI problem?.

Score	No. of Students	Percentage
1-Can't say	3	2
2-Hardly	5	8
3-Moderately	10	13
4-Mostly	29	39
5-Definitely	28	38
Total	75	100

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

CO2: Are you able to implement simple programs using Prolog?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	6	8
3-Moderately	13	18
4-Mostly	28	37
5-Definitely	27	36
Total	75	100

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



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Course Exit Analysis Report (SEM V)

CO3: Are you able to implement various search techniques for a Problem-Solving Agent?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	4	5
3-Moderately	12	16
4-Mostly	35	46
5-Definitely	24	33
Total	75	100

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

CO4: Are you able to represent natural language description as statements and apply inference rules to it?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	6	8
3-Moderately	18	25
4-Mostly	25	33
5-Definitely	25	33
Total	75	100

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



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Course Exit Analysis Report (SEM V)

CO5: Are you able to construct Bayesian Belief Network for a given problem?		
Score	No. of Students	Percentage
1-Can't say	5	6
2-Hardly	8	11
3-Moderately	15	20
4-Mostly	25	33
5-Definitely	22	30
Total	75	100

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

CO6: Are you able to draw probabilistic inferences from Bayesian Belief Network for a given problem?		
Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	5	6
3-Moderately	18	24
4-Mostly	30	40
5-Definitely	20	27
Total	75	100

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


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Course Exit Analysis Report (SEM V)

Course Name- DWM (TH)

Course In-Charge - Prof. Varsha Nawale

CO1: Are you able to organize strategic data in an enterprise and build a data Warehouse?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	12	16
4-Mostly	30	40
5-Definitely	32	43
Total	75	100

CO2: Are you able to analyze data using OLAP operations so as to take strategic decisions and Demonstrate an understanding of the importance of data mining?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	10	13
4-Mostly	27	36
5-Definitely	36	48
Total	75	100



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Course Exit Analysis Report (SEM V)

CO3 : Are you able to organize and prepare the data needed for data mining using preprocessing techniques?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	33	44
5-Definitely	33	44
Total	75	100

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

CO4: Are you able to implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	35	47
5-Definitely	30	40
Total	75	100

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



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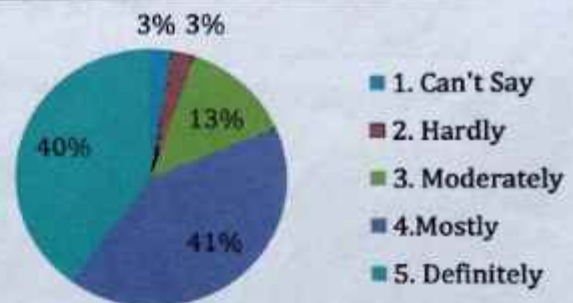
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Course Exit Analysis Report (SEM V)

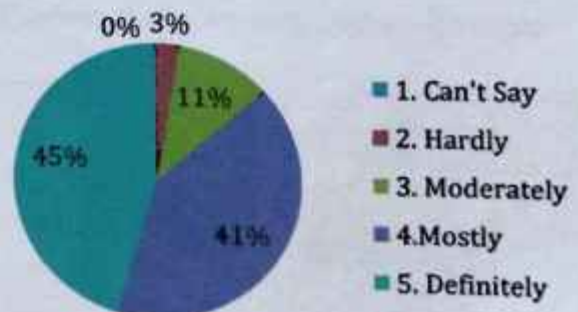
CO5: Are you able to define and apply metrics to measure the performance of various data mining algorithms?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	10	13
4-Mostly	31	41
5-Definitely	30	40
Total	75	100



CO6: Are you able to understand the concepts related to Web mining?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	8	11
4-Mostly	31	41
5-Definitely	34	45
Total	75	100



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Course Exit Analysis Report (SEM V)

Course Name - Data Warehousing and Mining Lab

Course In-charge - Prof. Snehal Lohi Bode

CO:1 Are you able to build a Data Warehouse?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	39	52
5-Definitely	27	36
Total	75	100

CO2: Can you analyze data using OLAP operations so as to take strategic decisions?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	12	16
4-Mostly	36	48
5-Definitely	27	36
Total	75	100



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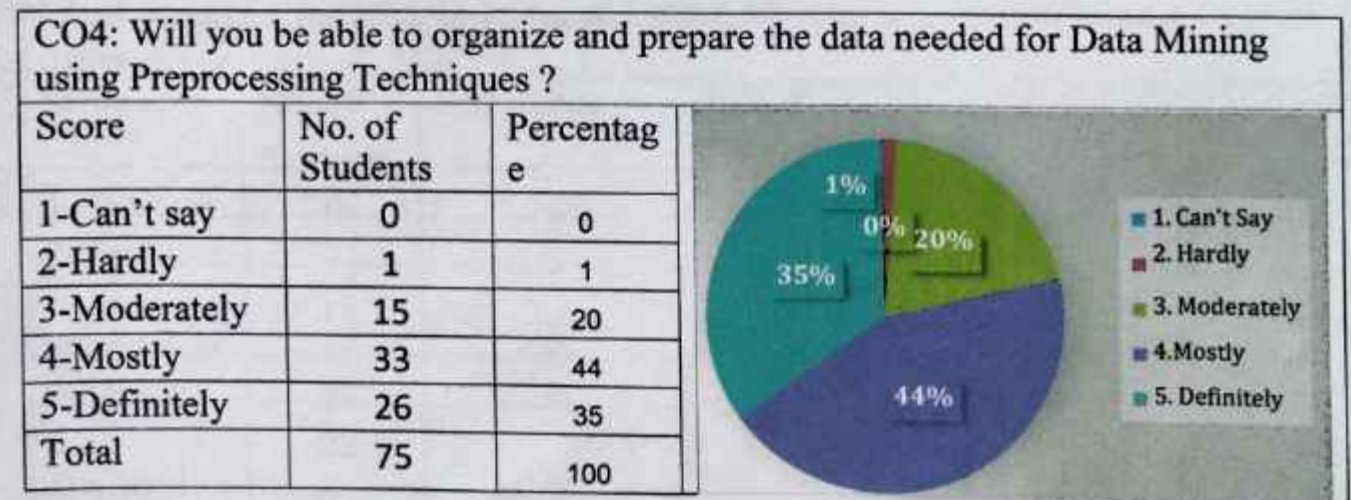
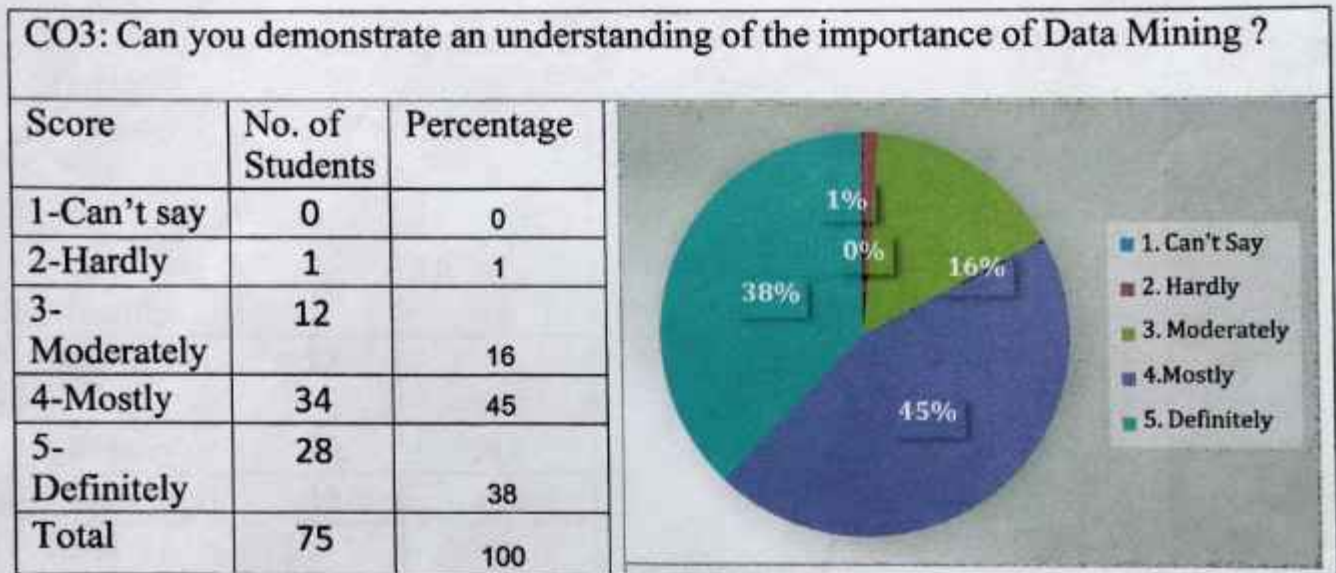
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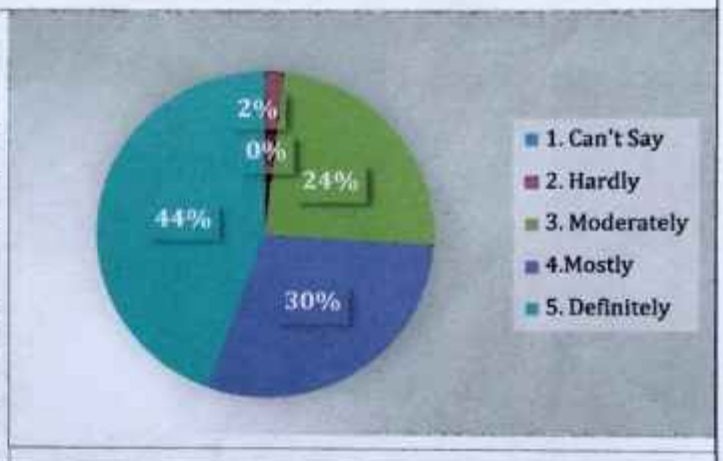
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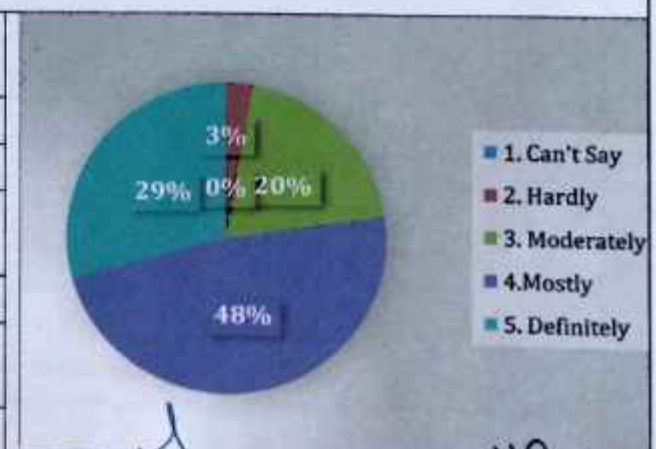
CO5: Will you be able to perform Exploratory analysis of the data to be used for Mining?

Score	No. of Students	Percentage
1-Can't say	1	0.0
2-Hardly	5	1.9
3-Moderately	12	24.1
4-Mostly	39	29.6
5-Definitely	18	44.4
Total	75	100



CO6: Will you be able to implement appropriate data mining methods like Classification, Clustering or Frequent Pattern Mining/ Association Mining on large data sets?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	15	20
4-Mostly	36	48
5-Definitely	22	29
Total	75	100



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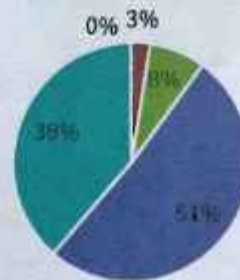
Course Exit Analysis Report (SEM V)

Course Name- Internet of Things

Course In-charge - Prof. Chitra Chitters

CO1: Are you able to describe the Characteristics and Conceptual Framework of IoT

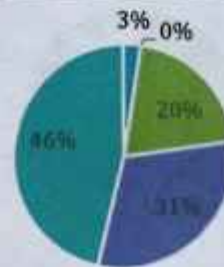
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	3
3-Moderately	3	8
4-Mostly	20	51
5-Definitely	15	38
Total	39	100



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

CO2: Are you able to differentiate between the levels of the IoT architectures

Score	No. of Students	Percentage
1-Can't say	1	3
2-Hardly	0	0
3-Moderately	8	21
4-Mostly	12	31
5-Definitely	18	46
Total	39	100



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



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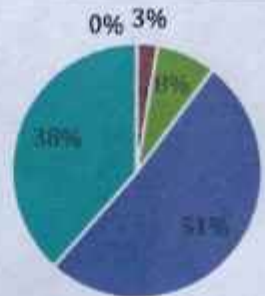
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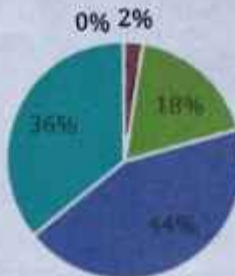
CO3: Are you able to analyze the IoT access technologies		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	3
3-Moderately	3	8
4-Mostly	20	51
5-Definitely	15	38
Total	39	100



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

CO4: Are you able to illustrate the various edge to cloud protocols for IoT		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	3
3-Moderately	7	18
4-Mostly	17	44
5-Definitely	14	36
Total	39	100

Chart Title



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



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Course Exit Analysis Report (SEM V)

CO5: Are you able to apply IoT analytics and data visualization		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	7	18
4-Mostly	16	41
5-Definitely	16	41
Total	39	100

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

CO6: Are you able to analyze and evaluate IoT applications		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	5
4-Mostly	18	46
5-Definitely	19	49
Total	39	100

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

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Course Exit Analysis Report (SEM V)

Course Name- Web Computing

Course In-charge - Prof. Ashima Goyal

CO1: Are you able to select technologies required for various web applications?.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	9	12
4-Mostly	38	51
5-Definitely	26	35
Total	75	100

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

CO2: Are you able to apply JavaScript to add functionality to web pages?.

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	5	7
3-Moderately	15	20
4-Mostly	25	33
5-Definitely	25	37
Total	75	100

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



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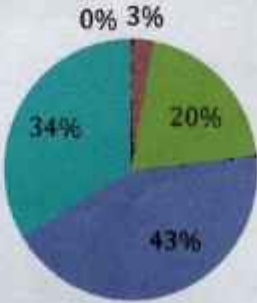
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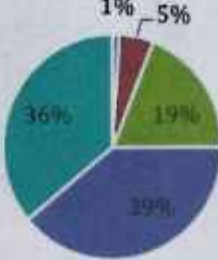
Course Exit Analysis Report (SEM V)

CO3: Are you able to design front end application using basic React?.		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	15	20
4-Mostly	32	43
5-Definitely	26	34
Total	75	100



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

CO4: Are you able to construct web based Node.js applications using Express?.		
Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	4	5
3-Moderately	14	19
4-Mostly	29	39
5-Definitely	27	36
Total	75	100



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



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Course Exit Analysis Report (SEM V)

CO5: Are you able to design front end applications using functional components of React?.

Score	No. of Students	Percentage
1-Can't say	3	4
2-Hardly	5	7
3-Moderately	10	13
4-Mostly	30	40
5-Definitely	27	36
Total	75	100

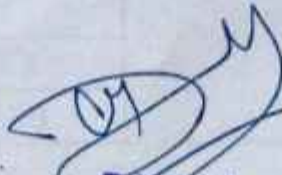
- 1-Can't say
- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

CO6: Are you able to design back-end applications using Node.js?.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	35	47
5-Definitely	30	40
Total	75	100

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


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Course Exit Analysis Report (SEM V)

Course Name- CN

Course In-charge - Prof. Mitrakshi Patil

CO1: Are you able to understand the concepts of data communication at physical layer and compare ISO - OSI model with TCP/IP model.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	9	13
4-Mostly	27	40
5-Definitely	31	46
Total	68	100

Chart Title

1 2 3 4 5

CO2: Are you able to Explore different design issues at data link layer. .

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	15	22
4-Mostly	23	34
5-Definitely	29	43
Total	68	100

Chart Title

1 2 3 4 5



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Course Exit Analysis Report (SEM V)

CO3: Are you able to Design the network using IP addressing and sub netting / supernetting schemes.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	3
3-Moderately	12	20
4-Mostly	27	43
5-Definitely	28	34
Total	68	100

Chart Title

■ 1 ■ 2 ■ 3 ■ 4 ■ 5

CO4: Are you able to Analyze transport layer protocols and congestion control algorithms.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	3	4
3-Moderately	10	14
4-Mostly	33	45
5-Definitely	27	36
Total	68	100

Chart Title

■ 1 ■ 2 ■ 3 ■ 4 ■ 5



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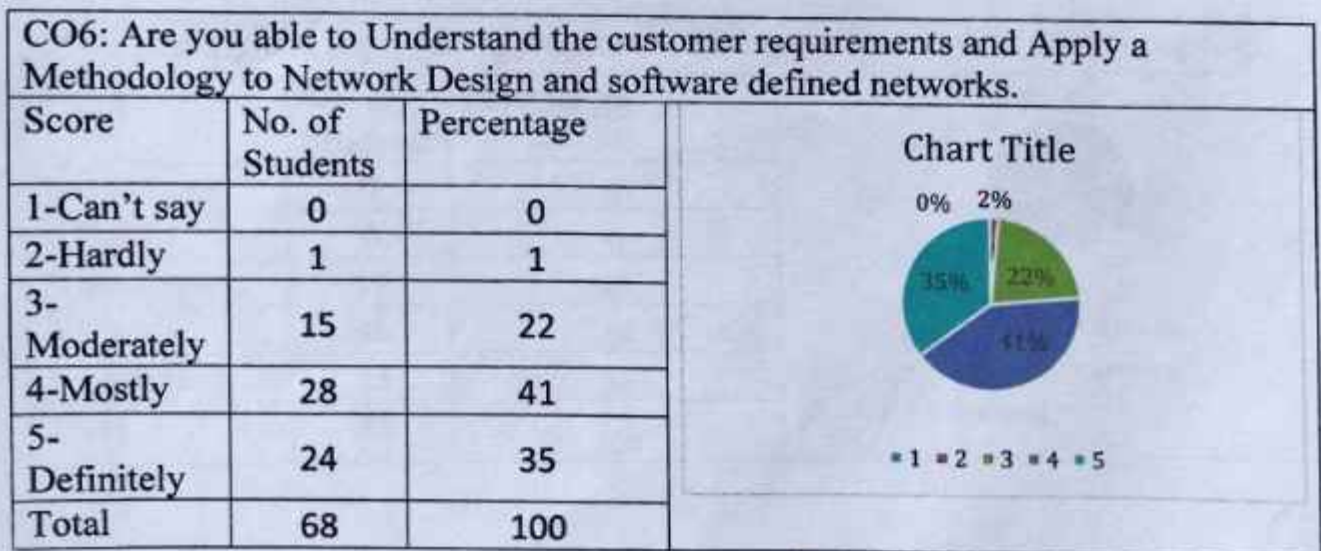
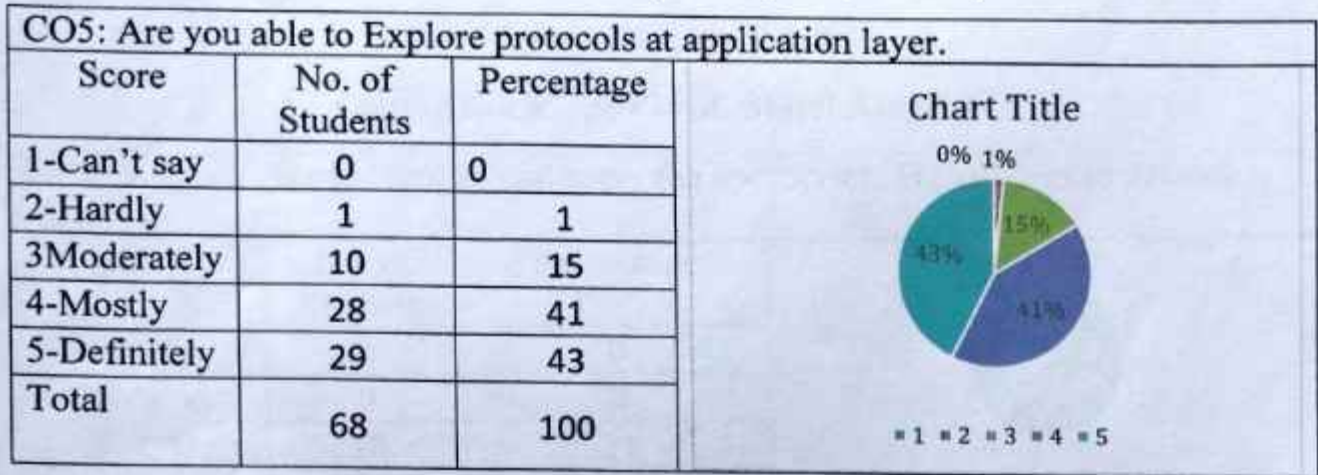
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Course Exit Analysis Report (SEM V)

Course Name - WCN

Course In-charge - Prof. Shital Ajagekar

CO1: Are you able to Identify and apply the appropriate HTML tags to develop a webpage.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	33	44
5-Definitely	26	35
Total	75	100

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

CO2: Identify and apply the appropriate CSS tags to format data on webpage.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	17	23
4-Mostly	35	46
5-Definitely	23	31
Total	75	100

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



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Course Exit Analysis Report (SEM V)

CO3: Are you able to Construct responsive websites using Bootstrap.		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	16	22
4-Mostly	34	45
5-Definitely	22	29
Total	75	100

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

CO4: Are you able to Use JavaScript to develop interactive web pages.		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	21	28
4-Mostly	29	39
5-Definitely	23	31
Total	75	100

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



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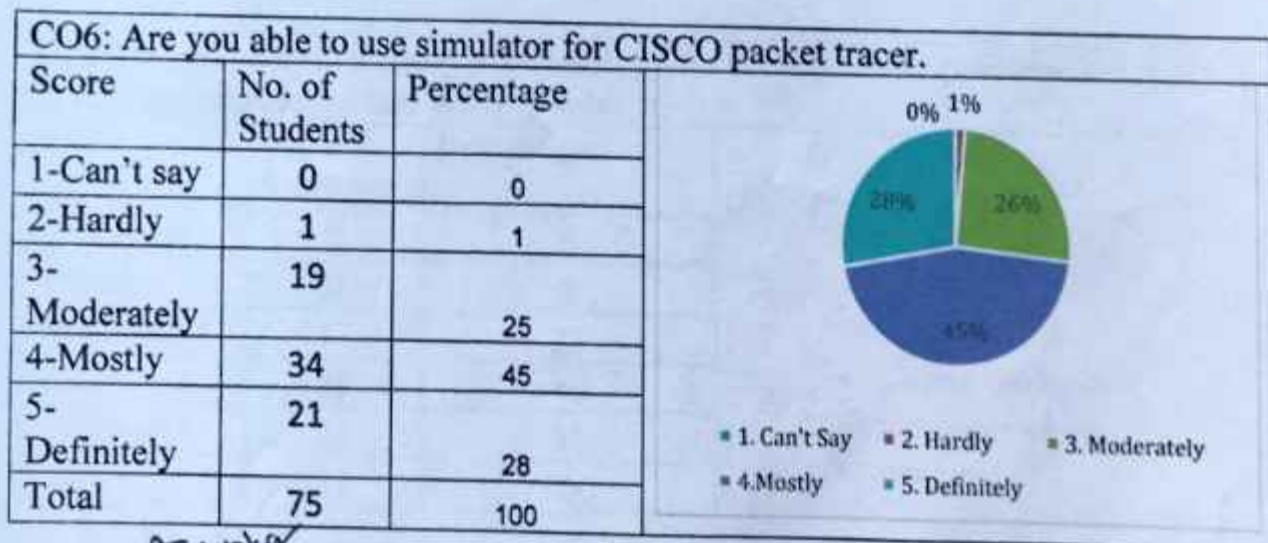
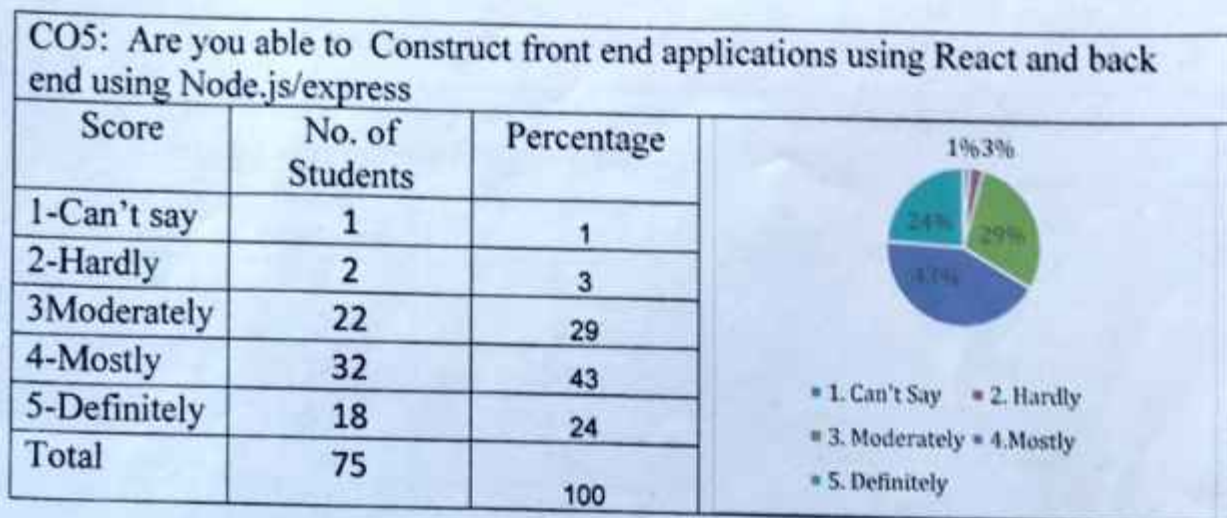
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Course Exit Analysis Report (SEM V)

CO5: Are you able to Construct front end applications using React and back end using Node.js/express

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	22	29
4-Mostly	32	43
5-Definitely	18	24
Total	75	100

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

CO6: Are you able to use simulator for CISCO packet tracer.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	19	25
4-Mostly	34	45
5-Definitely	21	28
Total	75	100

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

[Signature]
Course In-charge

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

Artificial Intelligence and Machine Learning

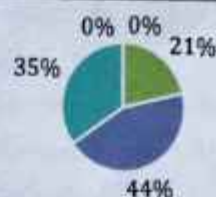
Course Exit Analysis Report (SEM V)

Course Name- Mini Project 2A

Course In-charge - Prof. Shital Ajagekar

CO1: Are you able to identify societal/research/innovation/entrepreneurship problems through appropriate literature survey

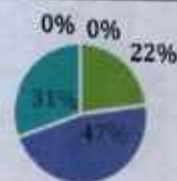
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	33	44
5-Definitely	26	35
Total	75	100



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

CO2: Are you able to identify Methodology for solving above problem and apply engineering knowledge and skills to solve it.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	17	23
4-Mostly	35	46
5-Definitely	23	31
Total	75	100



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



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Course Exit Analysis Report (SEM V)

CO3: Are you able to Validate, Verify the results using test cases/benchmark data/theoretical/ inferences/experiments/simulation.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	4
3-Moderately	10	22
4-Mostly	35	45
5-Definitely	29	29
Total	75	100

0% 1% 13%

39% 47%

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

CO4: Are you able to Analyze and evaluate the impact of solution/product /research/innovation /entrepreneurship towards societal/environmental/sustainable development.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	17	23
4-Mostly	32	43
5-Definitely	26	35
Total	75	100

0% 0%

35% 22%

43%

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



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Artificial Intelligence and Machine Learning

Course Exit Analysis Report (SEM V)

CO5: Do you standard norms of engineering practices and project management principles during project work.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	9	12
4-Mostly	38	51
5-Definitely	27	36
Total	75	100

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

CO6: Are you able to communicate through technical report writing and oral presentation.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	12	16
4-Mostly	34	45
5-Definitely	30	40
Total	75	100

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

A. J. Agekar

Course In-charge

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Action taken based on feedback from students

Academic Year 2022-23(ODD)

Summary of feedback – Semester V

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 students are discussed below:

- Need animated videos for better understanding.
- Need awareness about software related to the core subjects like software engineering and project management in curriculum.
- Need awareness about the latest technologies and practices in industry.

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:

Sr. No.	Feedback/Suggestions	Actions Taken	Date
1	Visual aids for related topics	Videos and ppts were shared for better understanding.	As Required
2	More practice problems for DWM and SAID	Extra practice problems were taken for DWM and SAID	As Required


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**Principal
(SCOE)**
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN

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Course Exit Analysis Report (SEM VI)

Course Name- Data Analytics and Visualization (CSC601)

Course In-charge - Prof. Chitra Chitters

CO1: Are you able to comprehend basics of data analytics and visualization?			
Score	No. of Students	Percentage	
1-Can't say	0	0	<p>0% 1% 37% 19% 43%</p> <p>■ 1-Can't say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely</p>
2-Hardly	1	1	
3-Moderately	14	19	
4-Mostly	32	43	
5-Definitely	28	37	
Total	75	100	

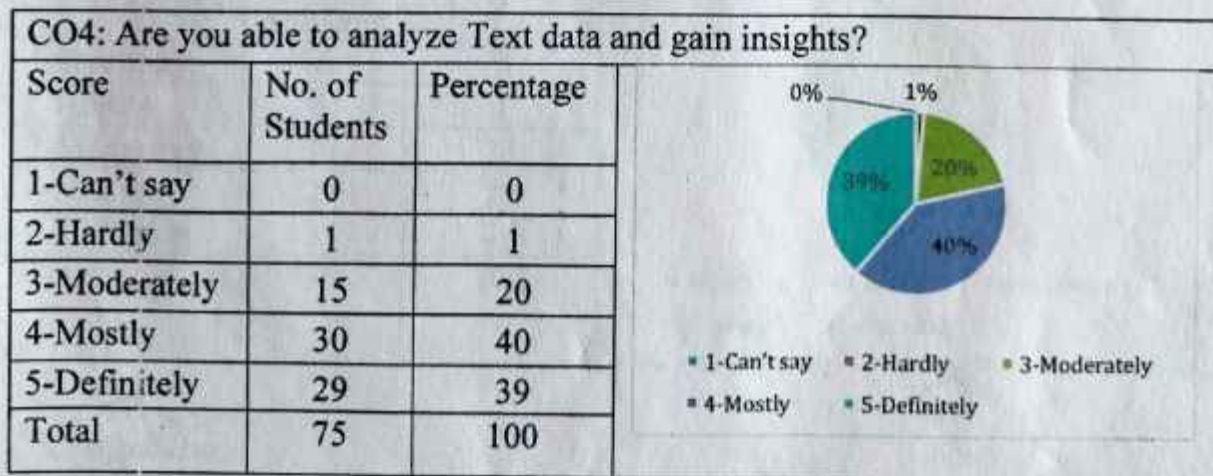
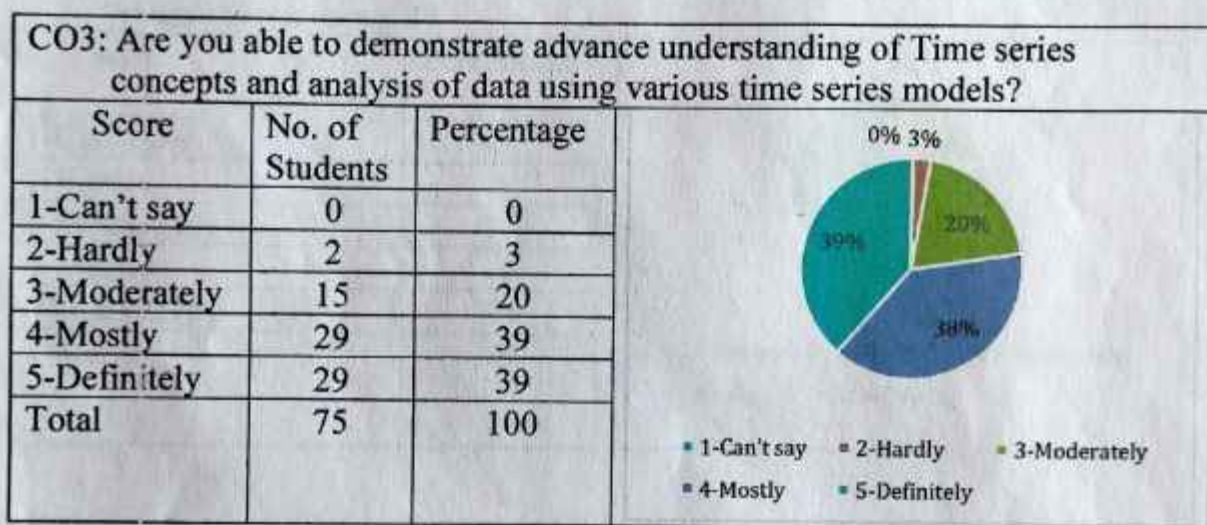
CO2: Are you able to apply various regression models on given data set and perform prediction?			
Score	No. of Students	Percentage	
1-Can't say	0	0	<p>0% 2% 36% 19% 43%</p> <p>■ 1-Can't say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely</p>
2-Hardly	2	3	
3-Moderately	14	19	
4-Mostly	32	43	
5-Definitely	27	36	
Total	75	100	



ACADEMIC YEAR 2022-23

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Course Exit Analysis Report (SEM VI)





ACADEMIC YEAR 2022-23

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Course Exit Analysis Report (SEM VI)

CO5: Are you able to do experiment with different analytics techniques and visualization using R?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	13	17
4-Mostly	30	40
5-Definitely	29	39
Total	75	100

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

CO6: Are you able to do experiment with different analytics techniques and visualization using python?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	17	23
4-Mostly	22	29
5-Definitely	35	47
Total	75	100

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

Course Incharge
Prof. Chitra Chitters

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ACADEMIC YEAR 2022-23

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Course Exit Analysis Report (SEM VI)

Course Name- Data Analytics and Visualization Lab (CSL601)

Course In-charge - Prof. Chitra Chitters

CO1: Are you able to explore various data analytics Libraries in R and Python?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	13	17
4-Mostly	30	40
5-Definitely	30	40
Total	75	100

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

CO2: Are you able to implement various Regression techniques for prediction?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	20	27
4-Mostly	27	36
5-Definitely	27	36
Total	75	100

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



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Course Exit Analysis Report (SEM VI)

CO3: Are you able to build various time series models on a given data set?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	15	20
4-Mostly	23	31
5-Definitely	34	45
Total	75	100

0% 4%
45% 20%
31%

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

CO4: Are you able to analyze Text data and gain insights?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	19	25
4-Mostly	25	33
5-Definitely	30	40
Total	75	100

0% 1%
40% 26%
33%

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



ACADEMIC YEAR 2022-23

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

Course Exit Analysis Report (SEM VI)

CO5: Are you able to implement visualization techniques to given data sets using R?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	19	25
4-Mostly	25	33
5-Definitely	30	40
Total	75	100

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

CO6: Are you able to do implement visualization techniques to given data sets using Python.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	14	19
4-Mostly	24	32
5-Definitely	34	45
Total	75	100

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

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Course Exit Analysis Report (SEM VI)

Course Name- SEPM Lab

Course In-charge - Prof. Mitrakshi Patil

CO1: Are you able to understand and use basic knowledge in software engineering?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	15	20
4-Mostly	34	45
5-Definitely	24	32
Total	75	100

CO2: Are you able to Identify requirements, analyze and prepare models?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	8	11
4-Mostly	28	37
5-Definitely	36	48
Total	75	100



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Course Exit Analysis Report (SEM VI)

CO5: Are you able to apply testing and assure quality in software solutions?


Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	13	17
4-Mostly	33	44
5-Definitely	29	39
Total	75	100

Legend for CO5:
1-Can't say
2-Hardly
3-Moderately
4-Mostly
5-Definitely

CO6: Are you able to generate project schedule and can construct, design and develop network diagram for different type of Projects & organize different activities of project?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	13	17
4-Mostly	29	39
5-Definitely	31	41
Total	75	100

Legend for CO6:
1-Can't say
2-Hardly
3-Moderately
4-Mostly
5-Definitely


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Course Exit Analysis Report (SEM VI)

Course Name- SEPM

Course In-charge - Prof. Mitrakshi Patil

CO1: Are you able to understand and use basic knowledge in software engineering?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	10	13
4-Mostly	40	53
5-Definitely	25	33
Total	75	100

A pie chart illustrating the distribution of scores for CO1. The chart is divided into five segments: a large purple segment for '4-Mostly' (53%), a cyan segment for '5-Definitely' (33%), a green segment for '3-Moderately' (13%), and two very small segments for '1-Can't say' and '2-Hardly' (both 0%). A legend to the right of the chart identifies the colors with their respective score categories.

CO2: Are you able to Identify requirements, analyze and prepare models?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	20	27
4-Mostly	30	40
5-Definitely	25	33
Total	75	100

A pie chart illustrating the distribution of scores for CO2. The chart is divided into five segments: a purple segment for '4-Mostly' (40%), a cyan segment for '5-Definitely' (33%), a green segment for '3-Moderately' (27%), and two very small segments for '1-Can't say' and '2-Hardly' (both 0%). A legend to the right of the chart identifies the colors with their respective score categories.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Course Exit Analysis Report (SEM VI)

CO3 : Are you able to design & develop the software solutions for the growth of society?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	12	16
4-Mostly	37	49
5-Definitely	25	33
Total	75	100

CO4: Are you able to Plan, schedule and track the progress of the projects?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	21	28
4-Mostly	29	39
5-Definitely	25	33
Total	75	100



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Course Exit Analysis Report (SEM VI)

CO5: Are you able to apply testing and assure quality in software solutions?			
Score	No. of Students	Percentage	
1-Can't say	0	0	<ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely
2-Hardly	0	0	
3-Moderately	13	17	
4-Mostly	31	41	
5-Definitely	31	41	
Total	75	100	

CO6: Are you able to generate project schedule and can construct, design and develop network diagram for different type of Projects & organize different activities of project?			
Score	No. of Students	Percentage	
1-Can't say	0	0	<ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely
2-Hardly	1	1	
3-Moderately	12	16	
4-Mostly	32	43	
5-Definitely	30	40	
Total	75	100	


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Course Exit Analysis Report (SEM VI)

Course- Machine Learning (CSC604)

Course Incharge - Prof. Varsha Nawale

CO1: Are you able to understand the basics of Machine Learning?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	11	15
4-Mostly	30	40
5-Definitely	34	45
Total	75	100

CO1: Are you able to understand the basics of Machine Learning?

Score	Percentage
1. Can't Say	0%
2. Hardly	0%
3. Moderately	15%
4. Mostly	40%
5. Definitely	45%

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

CO2: Are you able to build Mathematical foundation for machine learning?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	14	19
4-Mostly	30	40
5-Definitely	30	40
Total	75	100

CO2: Are you able to build Mathematical foundation for machine learning?

Score	Percentage
1. Can't Say	0%
2. Hardly	1%
3. Moderately	19%
4. Mostly	40%
5. Definitely	40%

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



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Course Exit Analysis Report (SEM VI)

CO3 : Are you able to understand various Machine learning models?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	15	20
4-Mostly	27	36
5-Definitely	32	43
Total	75	100

CO3: Are you able to understand various Machine learning models?

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

CO4: Are you able to select suitable Machine learning models for a given problem?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	18	24
4-Mostly	26	35
5-Definitely	30	40
Total	75	100

CO4: Are you able to select suitable Machine learning models for a given problem?

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



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Course Exit Analysis Report (SEM VI)

CO5: Are you able to Build Neural Network based models?			
Score	No. of Students	Percentage	
1-Can't say	0	0	<p>CO5: Are you able to Build Neural Network based models?</p> <p>0% 4% 21% 36% 39%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2-Hardly	3	4	
3-Moderately	16	21	
4-Mostly	27	36	
5-Definitely	29	39	
Total	75	100	

CO6: Are you able to apply Dimensionality Reduction techniques?			
Score	No. of Students	Percentage	
1-Can't say	2	3	<p>CO6: Are you able to apply Dimensionality Reduction techniques?</p> <p>3% 3% 23% 33% 38%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2-Hardly	2	3	
3-Moderately	17	23	
4-Mostly	25	33	
5-Definitely	29	39	
Total	75	100	

Kawale
Course In-charge

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Course Exit Analysis Report (SEM VI)

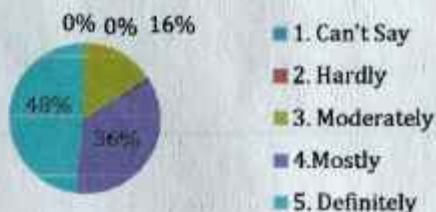
Course - Machine Learning Lab (CSL604)

Course Incharge - Prof. Varsha Nawale

CO1: Are you able to understand the basics of Machine Learning?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	12	16
4-Mostly	27	36
5-Definitely	36	48
Total	75	100

CO1: Are you able to use different machine learning libraries and platform to implement Machine Learning algorithms?



CO2: Are you able to build Mathematical foundation for machine learning?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	18	24
4-Mostly	24	32
5-Definitely	32	43
Total	73	100

CO2: Are you able to implement various supervised Machine learning models ?





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Course Exit Analysis Report (SEM VI)

CO3 : Are you able to understand various Machine learning models?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	18	24
4-Mostly	28	37
5-Definitely	29	39
Total	75	100

CO3: Are you able to implement various unsupervised Machine learning models ?

Score	No. of Students	Percentage
1. Can't Say	0	0%
2. Hardly	0	0%
3. Moderately	18	24%
4. Mostly	28	37%
5. Definitely	29	39%

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

CO4: Are you able to select suitable Machine learning models for a given problem?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	19	25
4-Mostly	24	32
5-Definitely	32	43
Total	75	100

CO4: Are you able to apply suitable Machine learning models for a given problem ?

Score	No. of Students	Percentage
1. Can't Say	0	0%
2. Hardly	0	0%
3. Moderately	19	25%
4. Mostly	24	32%
5. Definitely	32	43%

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



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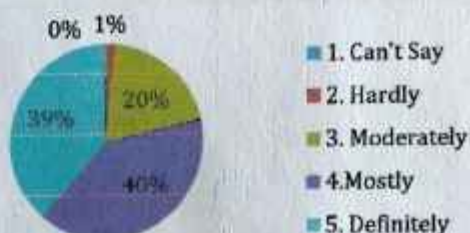
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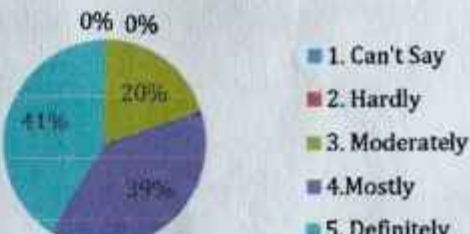
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ACADEMIC YEAR 2022-23

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Course Exit Analysis Report (SEM VI)

CO5: Are you able to Build Neural Network based models?			
Score	No. of Students	Percentage	<p>CO5: Are you able to implement Neural Network based models?</p>  <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
1-Can't say	0	0	
2-Hardly	1	1	
3-Moderately	15	20	
4-Mostly	30	40	
5-Definitely	29	39	
Total	75	100	

CO6: Are you able to apply Dimensionality Reduction techniques?			
Score	No. of Students	Percentage	<p>CO6: Are you able to apply Dimensionality Reduction techniques?</p>  <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
1-Can't say	0	0	
2-Hardly	0	0	
3-Moderately	15	20	
4-Mostly	29	39	
5-Definitely	31	41	
Total	75	100	

Maavale
Course Incharge

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HOD

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ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)


Course: Cryptography & System Security

Course Incharge - Diksha Bombe

CO1- Are you able to Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory?

Score	No. of Students	Percentage	
1-Can't say	1	1.4	
2-Hardly	2	2.8	
3-Moderately	13	18.1	
4-Mostly	26	36.1	
5-Definitely	30	41.7	
Total	75	100	

CO2- Are you able to Understand, compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication?

Score	No. of Students	Percentage	
1-Can't say	1	1.4	
2-Hardly	2	2.8	
3-Moderately	13	18.1	
4-Mostly	27	37.5	
5-Definitely	29	40.3	
Total	75	100	



CO3- Are you able to Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4.2
3-Moderately	13	19
4-Mostly	26	36.1
5-Definitely	30	41.7
Total	75	100

CO4- Are you able to Apply different digital signature algorithms to achieve authentication and create secure applications ?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	3	4.2
3-Moderately	11	15.3
4-Mostly	30	41.7
5-Definitely	28	38.9
Total	75	100

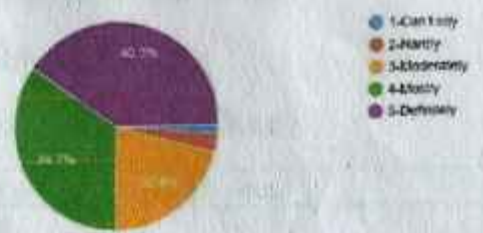


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CO5- Are you able to Apply network security basics, analyze different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPSec, and PGP?

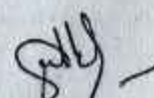
Score	No. of Students	Percentage	
1-Can't say	1	1.4	
2-Hardly	2	2.8	
3-Moderately	15	20.8	
4-Mostly	25	34.7	
5-Definitely	29	40.3	
Total	75	100	

CO6- Are you able to Apply the knowledge of cryptographic utilities and authentication mechanisms to design secure applications?

Score	No. of Students	Percentage	
1-Can't say	0	0	
2-Hardly	3	4.2	
3-Moderately	14	19.4	
4-Mostly	22	30.6	
5-Definitely	33	45.8	
Total	75	100	


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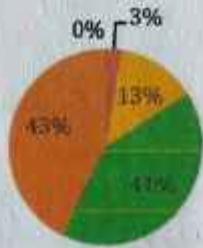
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Course Exit Analysis Report (SEM VI)

Course -Mini-project

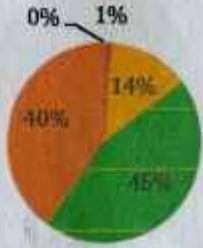
Course In-charge - Prof. Dhanashri Kane

CO1: Are you able to Identify problems based on societal /research needs?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	10	13
4-Mostly	31	41
5-Definitely	32	43
Total	75	100



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

CO2: Are you able to Apply Knowledge and skill to solve societal problems in a group?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	01	1
3-Moderately	10	13
4-Mostly	34	45
5-Definitely	30	40
Total	75	100



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



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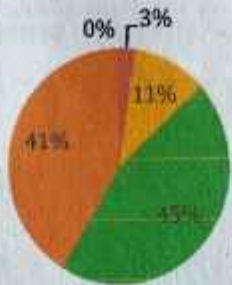
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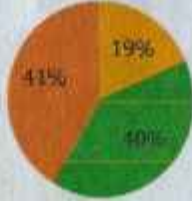
Course Exit Analysis Report (SEM VI)

CO3: Are you able to Develop interpersonal skills to work as member of a group or leader?		
Score	No. of Students	Percentage
1-Can't say	0	0.00
2-Hardly	02	3
3-Moderately	08	11
4-Mostly	34	45
5-Definitely	31	41
Total	75	100



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

CO4: Are you able to analyze the impact of solutions in societal and environmental context for sustainable development.		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	14	19
4-Mostly	30	40
5-Definitely	31	41
Total	75	100



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



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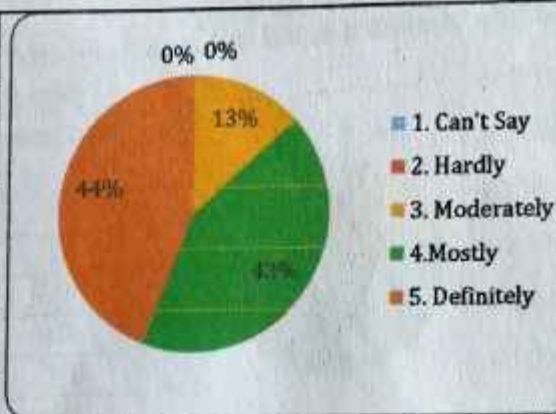
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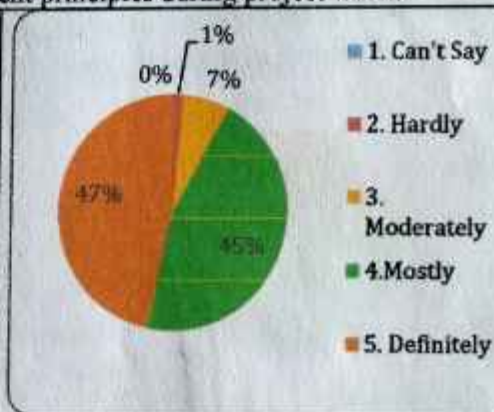
CO5: Are you able to demonstrate capabilities of self-learning in a group, which leads to lifelong learning?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	10	13
4-Mostly	32	43
5-Definitely	33	44
Total	75	100



CO6: Are you able to Demonstrate project management principles during project work?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	01	1
3-Moderately	05	7
4-Mostly	34	45
5-Definitely	35	47
Total	75	100



Dhane
Course In-charge

DH
Principal
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Satish
HOB



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Course Exit Analysis Report (SEM VI)

Course – Distributed Computing (CSDLO 6012)

Course Incharge - Prof. Amita Raman

CO1: Are you able to demonstrate knowledge of the basic elements and concepts related to distributed system technologies?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	14	19
4-Mostly	30	40
5-Definitely	29	39
Total	75	100

CO2: Are you able to illustrate the middleware technologies that support distributed applications such as RPC, RMI and Object based middleware?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	17	23
4-Mostly	25	33
5-Definitely	32	43
Total	75	100



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Course Exit Analysis Report (SEM VI)

CO3: Are you able to analyze the various techniques used for clock synchronization and mutual exclusion?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	18	24
4-Mostly	30	40
5-Definitely	26	35
Total	75	100

CO4: Are you able to demonstrate the concepts of Resource and Process management and synchronization algorithms?		
Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	21
4-Mostly	32	43
5-Definitely	27	36
Total	75	100



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Course Exit Analysis Report (SEM VI)

CO5: Are you able to demonstrate the concepts of Consistency and Replication Management?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	1
3-Moderately	19	25
4-Mostly	26	35
5-Definitely	29	39
Total	75	100

0% 1% 25% 39%

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

CO6: Are you able to apply the knowledge of Distributed File System to analyze various file systems like NFS, AFS?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	19	25
4-Mostly	27	36
5-Definitely	29	39
Total	75	100

0% 0% 25% 39%

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

Anita
Course Incharge

Siddh
H.O.D.

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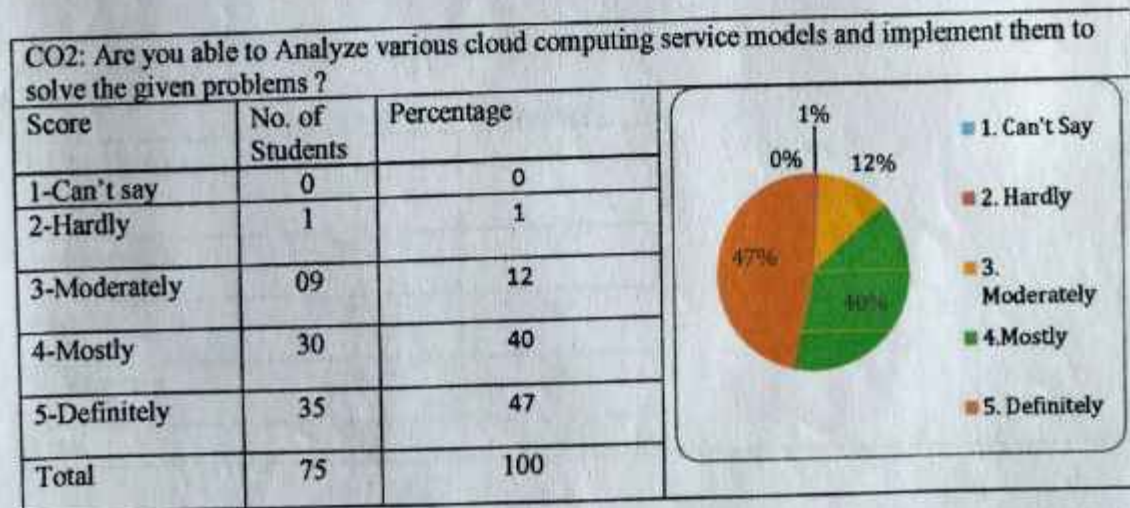
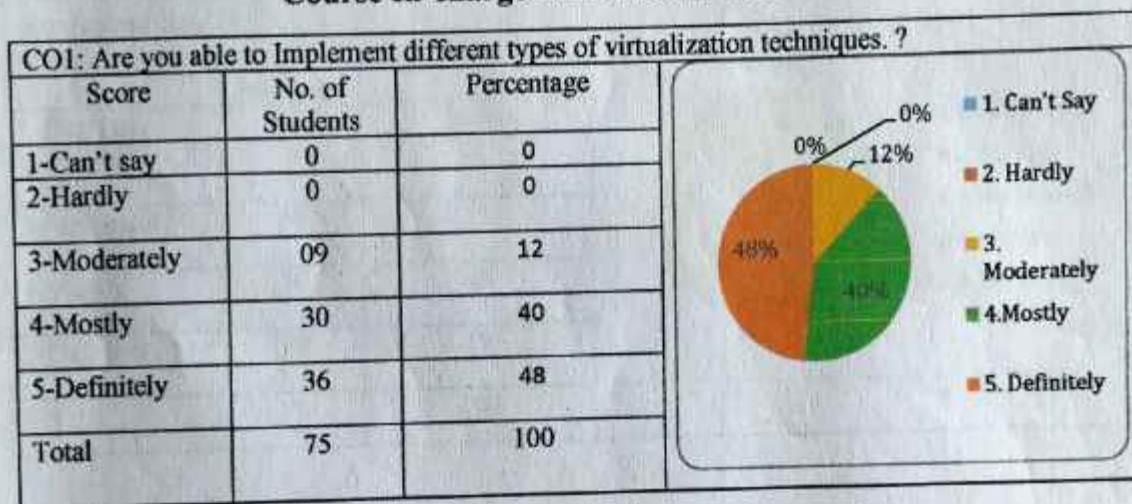
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Course Exit Analysis Report (SEM VI)

Course – Cloud Computing Lab

Course In-charge - Prof. Dhanashri Kane





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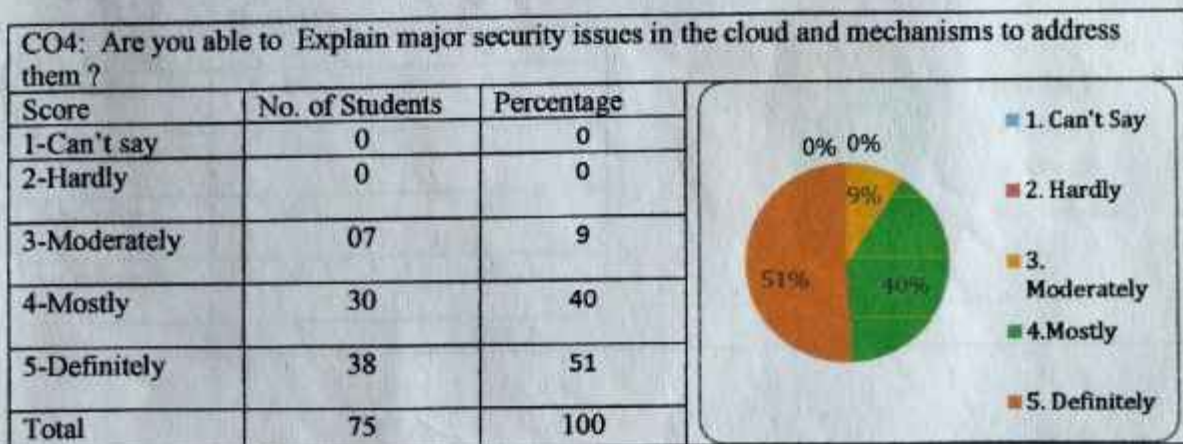
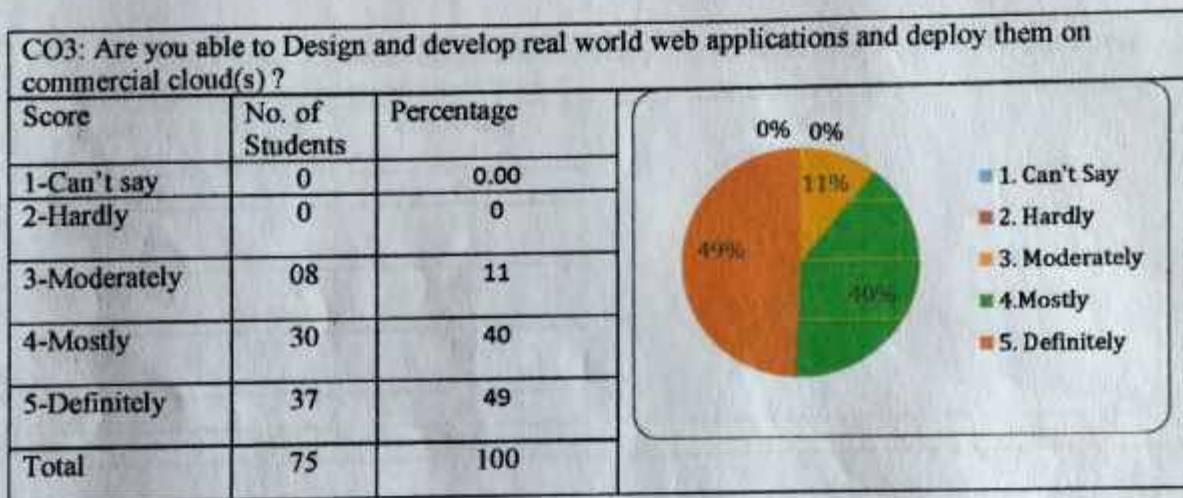
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Course Exit Analysis Report (SEM VI)





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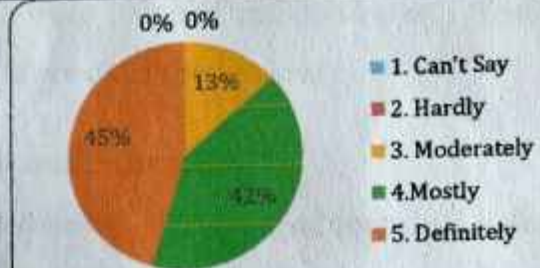
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Course Exit Analysis Report (SEM VI)

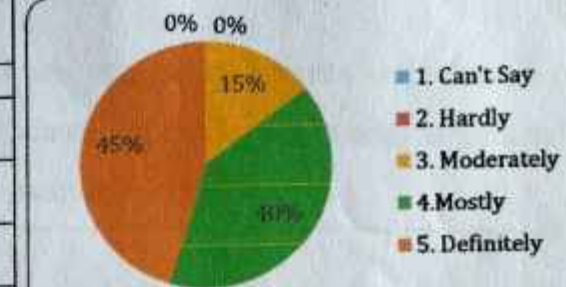
CO5: Are you able to Explore various commercially available cloud services and recommend the appropriate one for the given application ?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	13
3-Moderately	10	42
4-Mostly	31	45
5-Definitely	34	0
Total	75	100



CO6: Are you able to Implement the concept of containerization ?

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	11	15
4-Mostly	30	40
5-Definitely	34	45
Total	75	100



DKane
Course In-charge

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN
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Action taken based on feedback from students

Academic Year 2022-23(EVEN)

Summary of feedback – Semester VI

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 students are discussed below:

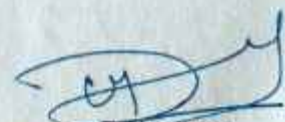
- Need animated videos for better understanding.
- Need awareness about software related to the core subjects like software engineering and project management in curriculum.
- Need awareness about the latest technologies and practices in industry.

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:

Sr. No.	Feedback/Suggestions	Actions Taken	Date
1	More practice problems for DAV	Extra practice problems were taken for DAV	As Required
2.	Teaching aids	Animated videos and ppts were shared for better understanding.	As Required


**Head of Department
(CSE-AIML)**


**Principal
(SCOE)
Principal**
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