



SARASWATI Education Society's
SARASWATI College of Engineering

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Kharvelur, Navi Mumbai - 410 210

NAAC A+ Accredited

Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – III)

Subject- Computer Graphics Lab

Subject Teacher - Prof. Gayatri Dharap

Score	No. of Students	Percentage	CO1: Are you able to implement various output and filled area primitive algorithms.?
1-Can't Say	0	0	<p>42% 23% 32% 3%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderately	17	23	
4-Mostly	24	32	
5-Definitely	31	42	
Total	74	100	

Score	No. of Students	Percentage	CO2: Are you able to apply 2D transformation algorithms on graphical objects?
1-Can't Say	0	0	<p>43% 19% 38%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	0	0	
3-Moderately	14	19	
4-Mostly	28	38	
5-Definitely	32	43	
Total	74	100	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – III)

Score	No. of Students	Percentage	CO3: Are you able to apply clipping algorithms on graphical objects.
1-Can't Say	0	0	<p>34% 20% 43% 3%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderately	15	20	
4-Mostly	32	43	
5-Definitely	25	34	
Total	74	100	

Score	No. of Students	Percentage	CO4: Are you able to use various Clipping algorithms on graphical objects?
1-Can't Say	0	0	<p>42% 20% 36% 1%</p> <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	27	36	
5-Definitely	31	42	
Total	74	100	

Score	No. of Students	Percentage	CO5: Are you able to Perform curve and fractal generation methods.
1-Can't Say	0	0	<p>39% 24% 34% 3%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderately	18	24	
4-Mostly	25	34	
5-Definitely	29	39	
Total	74	100	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

Score	No. of Students	Percentage	CO6: Are you able to develop a Graphical application/Animation based on learned concept?
1-Can't Say	0	0	<p>1% 22% 35% 42%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	1	1	
3-Moderately	16	22	
4-Mostly	26	35	
5-Definitely	31	42	
Total	74	100	

Gayatri
Faculty

Prakr
HOD

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Principal

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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

Subject- Computer Graphics

Subject Teacher- Prof. Gayatri Dharap

Score	No. of Students	Percentage	CO1: Are you able to describe the basic concepts of Computer Graphics.
1-Can't Say	1	1	
2- Hardly	0	0	
3-Moderately	22	30	
4-Mostly	15	20	
5-Definitely	36	49	
Total	74	100%	

Score	No. of Students	Percentage	CO2: Can you demonstrate various algorithms for basic graphics primitives.
1-Can't Say	0	0	
2- Hardly	1	1	
3-Moderately	19	26	
4-Mostly	24	32	
5-Definitely	30	41	
Total	74	100	

Score	No. of Students	Percentage	CO3: Apply 2-D geometric transformations on graphical objects.
1-Can't Say	0	0	
2- Hardly	1	1	
3-Moderately	20	27	
4-Mostly	18	24	
5-Definitely	35	47	
Total	74	100	



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Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – III)

Score	No. of Students	Percentage	CO4: Are you able to use various Clipping algorithms on graphical objects?
1-Can't Say	0	0	<p>3%</p> <p>43%</p> <p>22%</p> <p>32%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	2	3	
3-Moderately	16	22	
4-Mostly	24	32	
5-Definitely	32	43	
Total	74	100	

Score	No. of Students	Percentage	CO5: Are you able to explore 3-D geometric transformations, curve representation techniques and projections methods?
1-Can't Say	0	0	<p>3%</p> <p>47%</p> <p>22%</p> <p>28%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	2	3	
3-Moderately	16	22	
4-Mostly	21	28	
5-Definitely	35	47	
Total	74	100	

Score	No. of Students	Percentage	CO6: Are you able to explain visible surface detection techniques and Animation?
1-Can't Say	0	0	<p>3%</p> <p>47%</p> <p>28%</p> <p>22%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	2	3	
3-Moderately	21	28	
4-Mostly	16	22	
5-Definitely	35	47	
Total	74	100	

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Department of COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

Academic Year: 2023-2024 (ODD SEM)

Course Exit Analysis Report (Sem III)

Subject: DLCA LAB

Subject In-charge: Prof. Neha Mahajan

Score	No. of Students	Percentage (%)
1- Can't Say	1	1.3
2 - Hardly	1	1.3
3- Moderately	12	15.4
4- Mostly	23	29.5
5- Definitely	41	52.6
Total	78	100

Are you able to gain knowledge of basic principles of digital circuits and different number systems.

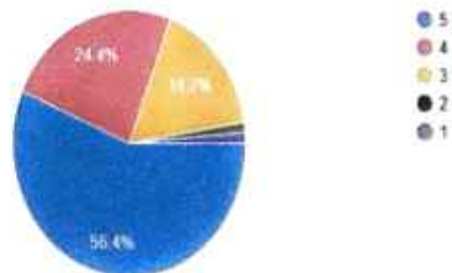
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	1	1.3
2 - Hardly	1	1.3
3- Moderately	13	16.7
4- Mostly	19	24.4
5- Definitely	44	56.4
Total	78	100

Are you able to gain knowledge of various logic gates, their applications.

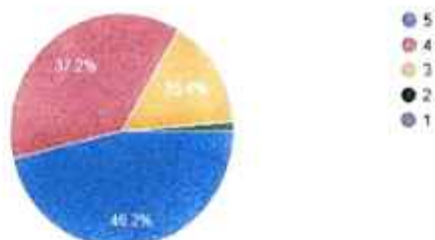
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	12	15.4
4- Mostly	29	37.2
5- Definitely	36	46.2
Total	78	100

Did this lab course provide you the understanding to perform computation using arithmetic algorithms like Booths Algorithm.

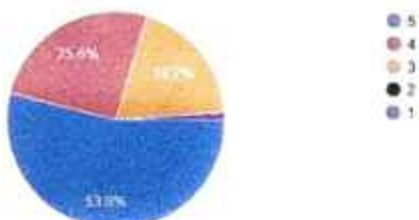
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	1	1.3
2 - Hardly	0	0
3- Moderately	15	19.2
4- Mostly	20	25.6
5- Definitely	42	53.8
Total	78	100

Are you able to construct basic combinational circuits like Adders, code converter etc. on digital trainer kit.

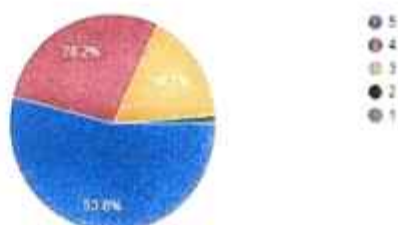
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	13	16.7
4- Mostly	22	28.2
5- Definitely	42	53.8
Total	78	100

Have you understood the working principle of circuits like MUX/DEMUX, Flip-Flops etc.:

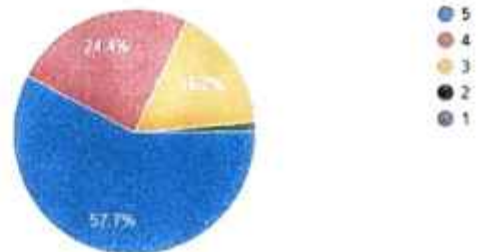
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	13	16.7
4- Mostly	19	24.4
5- Definitely	45	57.7
Total	78	100

Are you able to understand the concept of ALU design of computer system.

78 responses



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Department of COMPUTER SCIENCE AND ENGINEERING IN
DATA SCIENCE

Academic Year: 2023-2024 (ODD SEM)

Course Exit Analysis Report (Sem III)

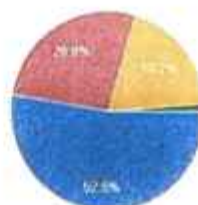
Subject: DLCA

Subject In-charge: Prof. Neha Mahajan

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	15	19.2
4- Mostly	21	26.9
5- Definitely	41	52.6
Total	78	100

Are you able to understand the different number systems and fundamentals for their conversion.

78 responses



● 5
● 4
● 3
● 2
● 1

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	11	14.1
4- Mostly	27	34.6
5- Definitely	40	51.3
Total	78	100

Are you able to perform computation using various arithmetic algorithms like Booth's Algorithm etc.

78 responses



● 5
● 4
● 3
● 2
● 1

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	17	21.8
4- Mostly	20	25.6
5- Definitely	41	52.6
Total	78	100

Did this subject provide you the understanding of structure and operation of basic digital circuits and digital computers.

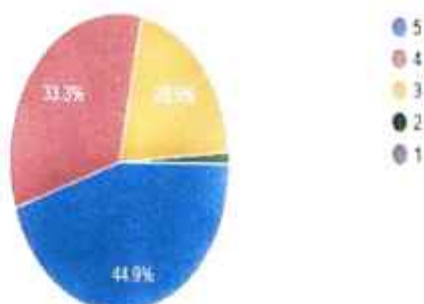
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	16	20.5
4- Mostly	26	33.3
5- Definitely	35	44.9
Total	78	100

Have you understood the concept of generation of control signals of computer.

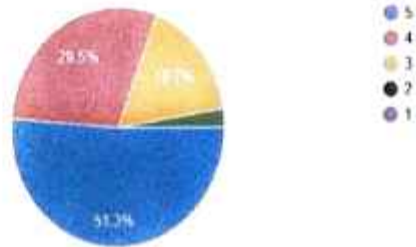
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	2.6
3- Moderately	13	16.7
4- Mostly	23	29.5
5- Definitely	40	51.3
Total	78	100

Are you able to understand the hierarchical memory and features of various memories.

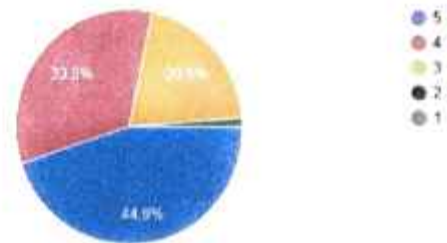
78 responses



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1.3
3- Moderately	16	20.5
4- Mostly	26	33.3
5- Definitely	35	44.9
Total	78	100

Are you able to understand the concept of Pipelining and parallel processing.

78 responses



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Department of Computer Science And Engineering in Data Science
Academic Year 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem - III)
Subject- Data Structure(LAB)
Subject Incharge- Prof. Diksha Bombe

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

Score	No. of Students	Percentage (%)
1-Can't say	1	2
2-Hardly	1	2
3-Moderately	14	25
4-Mostly	12	21
5-Definitely	29	51
Total	57	100

A pie chart illustrating the distribution of scores for CO1. The chart is divided into five segments: 1-Can't say (2%), 2-Hardly (2%), 3-Moderately (24.6%), 4-Mostly (21.1%), and 5-Definitely (50.9%). A legend on the right side of the chart identifies the colors for each score: 1-Can't say (blue), 2-Hardly (red), 3-Moderately (yellow), 4-Mostly (green), and 5-Definitely (orange).

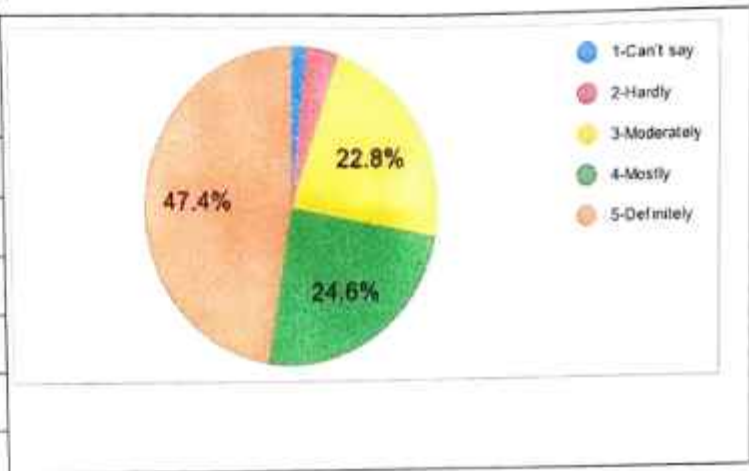
CO2: Are you able to implement Non Linear data structures (like Graph, Tree)?

Score	No. of Students	Percentage (%)
1-Can't say	2	4
2-Hardly	1	2
3-Moderately	12	21
4-Mostly	16	28
5-Definitely	26	46
Total	57	100

A pie chart illustrating the distribution of scores for CO2. The chart is divided into five segments: 1-Can't say (4%), 2-Hardly (2%), 3-Moderately (21.1%), 4-Mostly (28.1%), and 5-Definitely (45.6%). A legend on the right side of the chart identifies the colors for each score: 1-Can't say (blue), 2-Hardly (red), 3-Moderately (yellow), 4-Mostly (green), and 5-Definitely (orange).

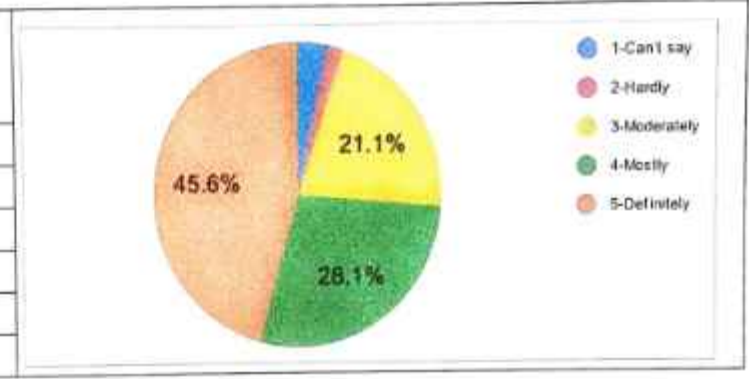
CO3: Are you able to handle various operations like searching, insertion, deletion and traversals on linear and non linear data structures?

Score	No. of Students	Percentage (%)
1-Can't say	1	2
2-Hardly	2	4
3-Moderately	13	23
4-Mostly	14	25
5-Definitely	27	47
Total	57	100



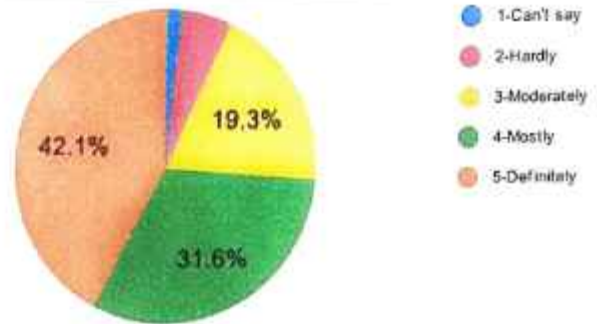
CO4: Are you able to choose appropriate data structure and apply it in various problems?

Score	No. of Students	Percentage (%)
1-Can't say	2	4
2-Hardly	1	2
3-Moderately	12	21
4-Mostly	16	28
5-Definitely	26	46
Total	57	100



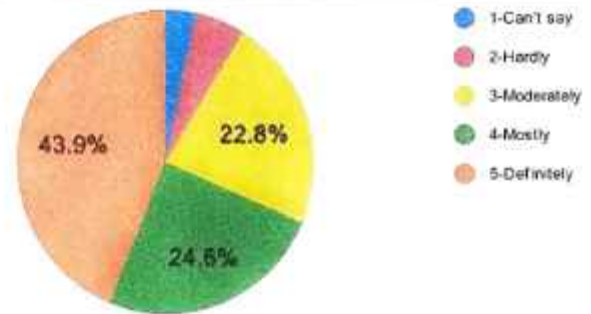
CO5: Are you able to select appropriate searching techniques for given problems.

Score	No. of Students	Percentage (%)
1-Can't say	1	2
2-Hardly	3	5
3-Moderately	11	19
4-Mostly	18	32
5-Definitely	24	42
Total	57	100



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	2	4
2-Hardly	3	5
3-Moderately	13	23
4-Mostly	14	25
5-Definitely	25	44
Total	57	100



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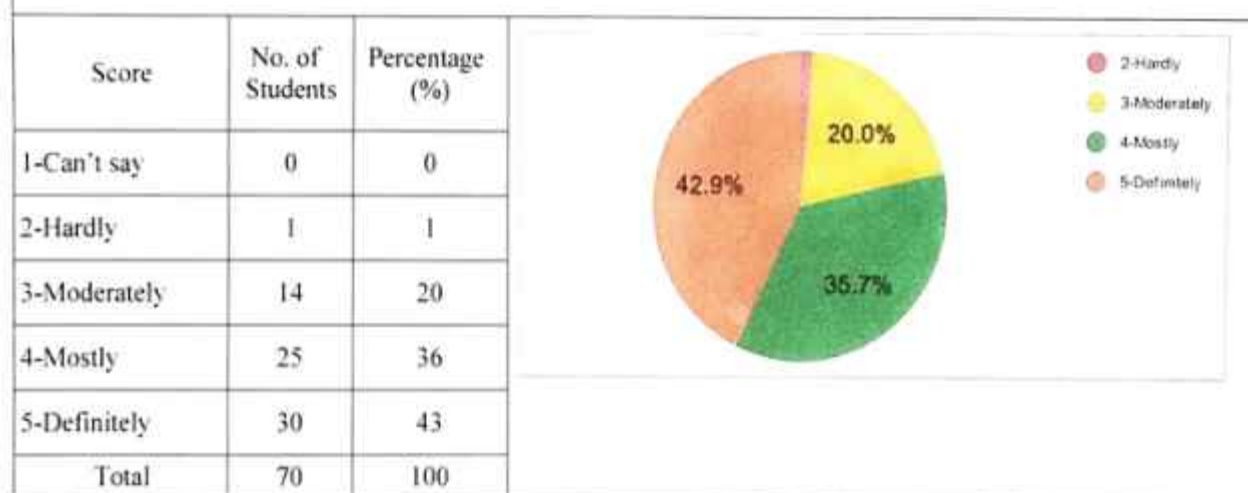
Academic Year 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

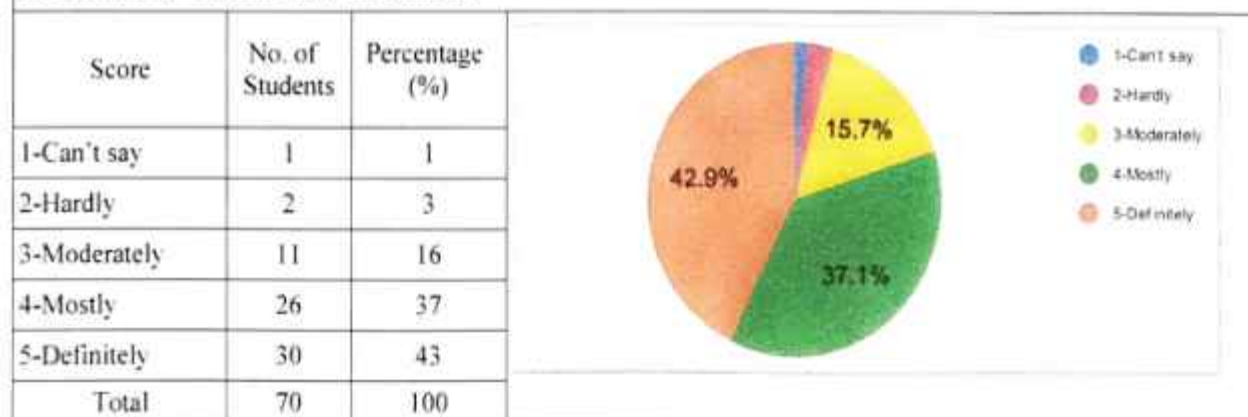
Subject- Data Structure(TH)

Subject Incharge- Prof. Diksha Bombe

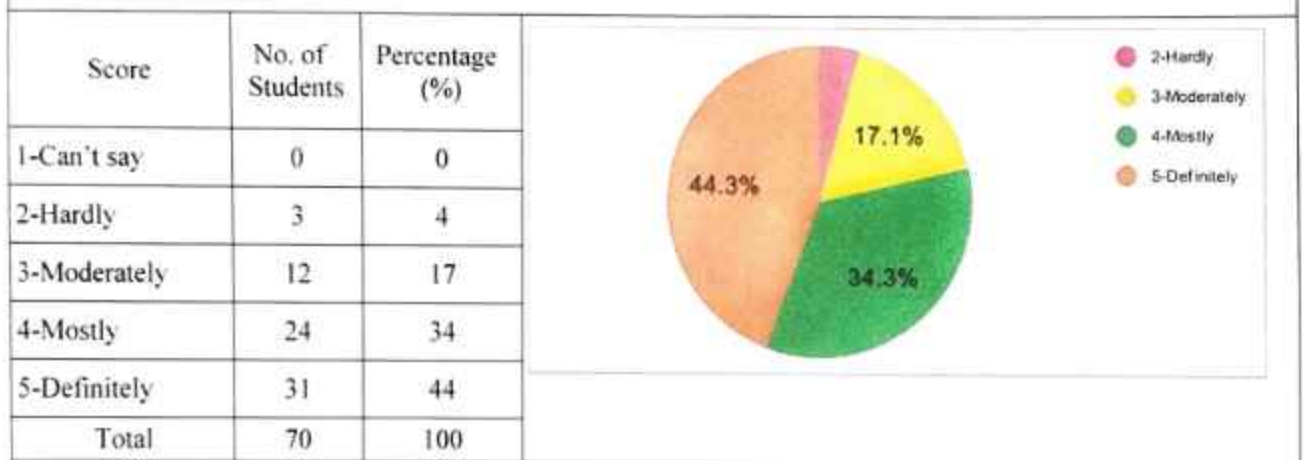
CO1: Are you able to implement Linear and Non-Linear data structures?



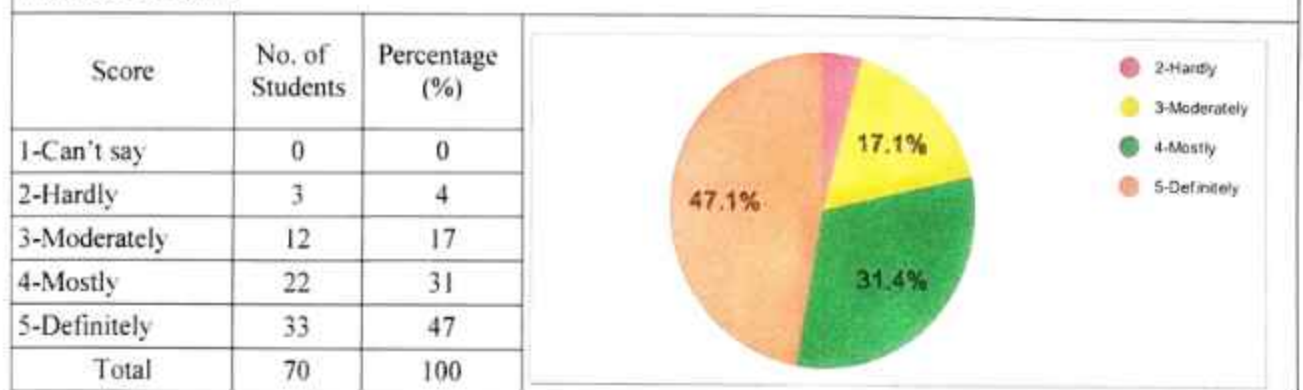
CO2: Are you able to handle various operations like searching, insertion, deletion and traversals on various data structures?



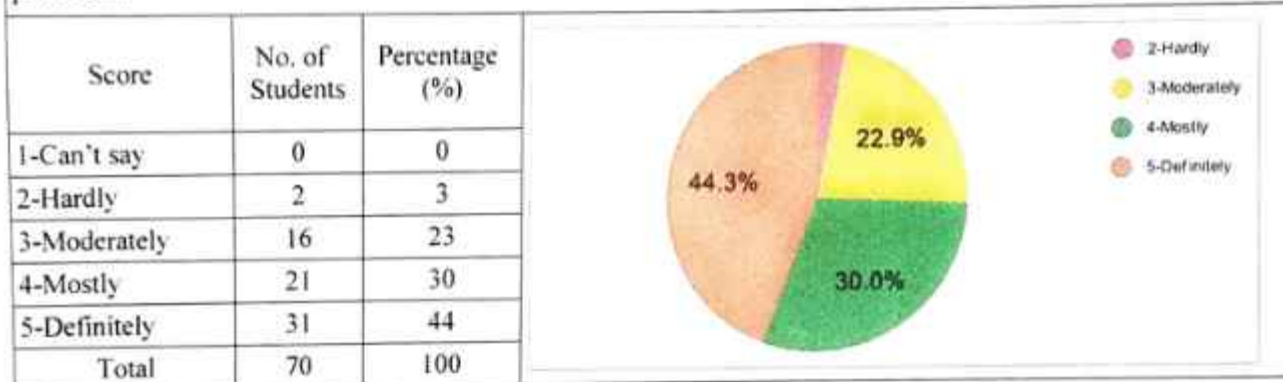
CO3: Are you able to explain various data structures, related terminologies and its types?



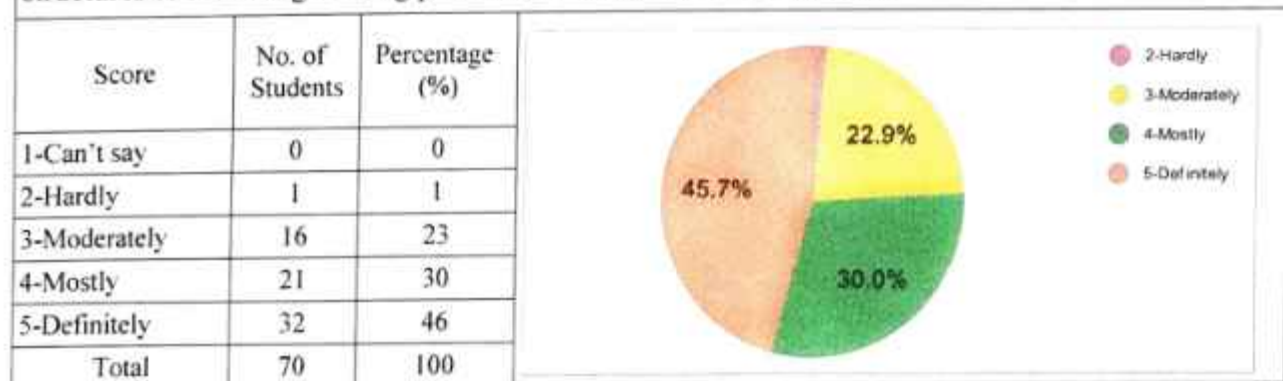
CO4: Are you able to choose appropriate data structure and apply it to solve problems in various domains?



CO5: Are you able to analyze and Implement appropriate searching techniques for a given problem?



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



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – III)

Subject- Discrete Structure & Graph Theory

Subject Teacher - Prof. Vaibhav Dhage

Score	No. of Students	Percentage	CO1: Are you able to understand the notion of mathematical thinking, mathematical proofs and to apply them in problem solving.
1-Can't Say	0	0	
2- Hardly	0	0	
3-Moderately	28	38	
4-Mostly	13	17	
5-Definitely	33	45	
Total	74	100%	

Score	No. of Students	Percentage	CO2: Are you able to understand relations, functions.
1-Can't Say	0	0	
2- Hardly	2	3	
3-Moderately	30	41	
4-Mostly	15	20	
5-Definitely	27	36	
Total	74	100%	

Score	No. of Students	Percentage	CO3: Are you able to understand Digraph and Lattice.
1-Can't Say	0	0	
2- Hardly	2	3	
3-Moderately	15	20	
4-Mostly	32	43	
5-Definitely	25	34	
Total	74	100%	



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Department of Computer Science & Engineering (Data Science)
Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem - III)

Score	No. of Students	Percentage	CO4: Are you able to Analyze a complex computing problem and apply principles of discrete mathematics to identify solutions
1-Can't Say	1	1	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	2	3	
3-Moderately	18	24	
4-Mostly	25	34	
5-Definitely	28	38	
Total	74	100%	

Score	No. of Students	Percentage	CO5: Are you able to Understand use of groups and codes in Encoding-Decoding
1-Can't Say	3	4	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	3	4	
3-Moderately	24	32	
4-Mostly	11	15	
5-Definitely	33	45	
Total	74	100%	

Score	No. of Students	Percentage	CO6: Are you able to Understand concepts of graph theory in solving real world problems.
1-Can't Say	3	3	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	3	3	
3-Moderately	16	16	
4-Mostly	17	17	
5-Definitely	35	35	
Total	74	100%	

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Department of Information Technology

Academic Year 2023-24 (ODD SEM)

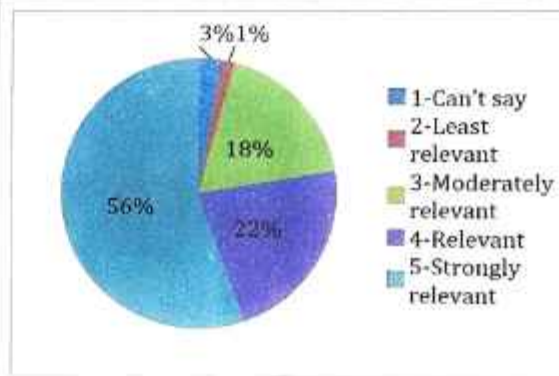
Course Exit Analysis Report (SEM III)

Subject: ENGINEERING MATHEMATICS III

SUBJECT I/C: PROF. SHUBHANGI K. KADAM

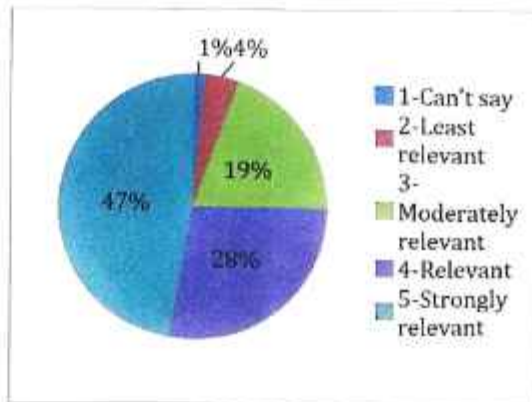
CO1. Understand the concept of Laplace transform and its application to solve the real integrals in engineering problems.

Score	No of student	Percentage
1.can't say	2	2.777778
2.Hardly	1	1
3.Moderately	13	18
4. Mostly	16	22
5.Definitely	40	56
Total	72	100



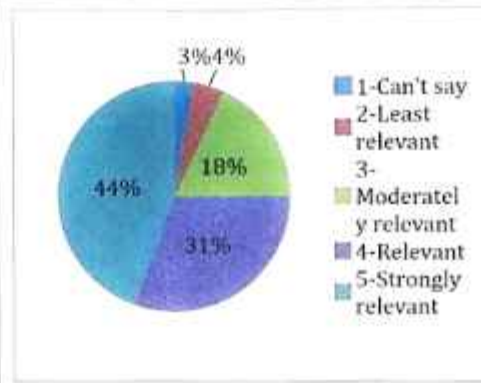
CO2 . Understand the concept of inverse Laplace transform of various functions and its applications in engineering problems.

Score	No of student	Percentage
1.can't say	1	1.388889
2.Hardly	3	4
3.Moderately	14	19
4. Mostly	20	28
5.Definitely	34	47
Total	72	100



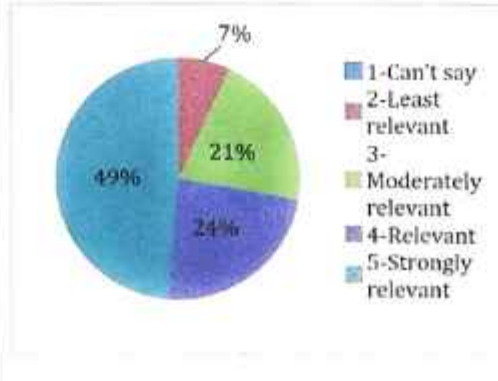
CO3 . Expand the periodic function by using the Fourier series for real-life problems and complex engineering problems.

Score	No of student	Percentage
1.can't say	2	2.777778
2.Hardly	3	4
3.Moderately	13	18
4. Mostly	22	31
5.Definitely	32	44
Total	72	100



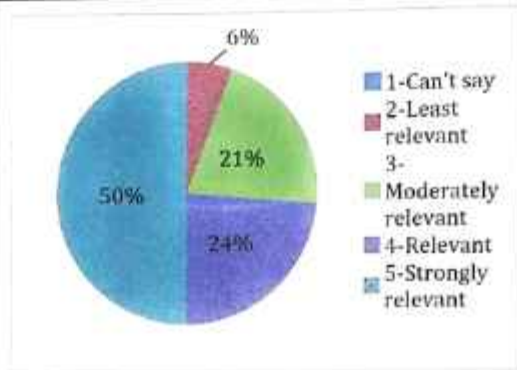
CO4. Understand complex variable theory, application of harmonic conjugate to get orthogonal trajectories and analytic functions.

Score	No of student	Percentage
1.can't say	0	0
2.Hardly	5	7
3.Moderately	15	21
4. Mostly	17	24
5.Definitely	35	48
Total	72	100



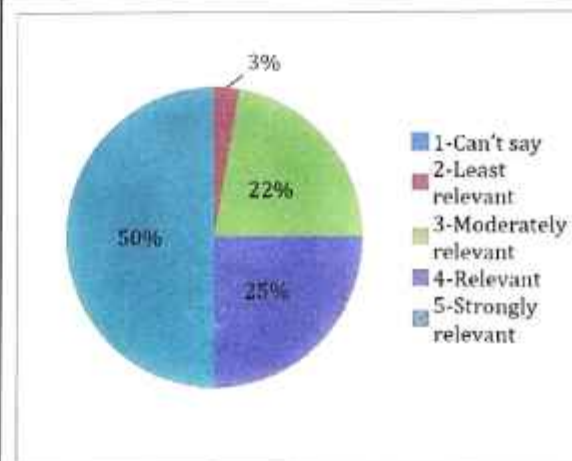
CO5 . Apply the concept of Correlation and Regression to the engineering problems in data science, machine learning, and AI

Score	No of student	Percentage
1.can't say	0	0
2.Hardly	4	6
3.Moderately	15	21
4. Mostly	17	24
5.Definitely	36	50
Total	72	100



CO6 .Understand the concepts of probability and expectation for getting the spread of the data and distribution of probabilities

Score	No of student	Percentage
1.can't say	0	0
2.Hardly	2	3
3.Moderately	16	22
4. Mostly	18	25
5.Definitely	36	50
Total	72	100



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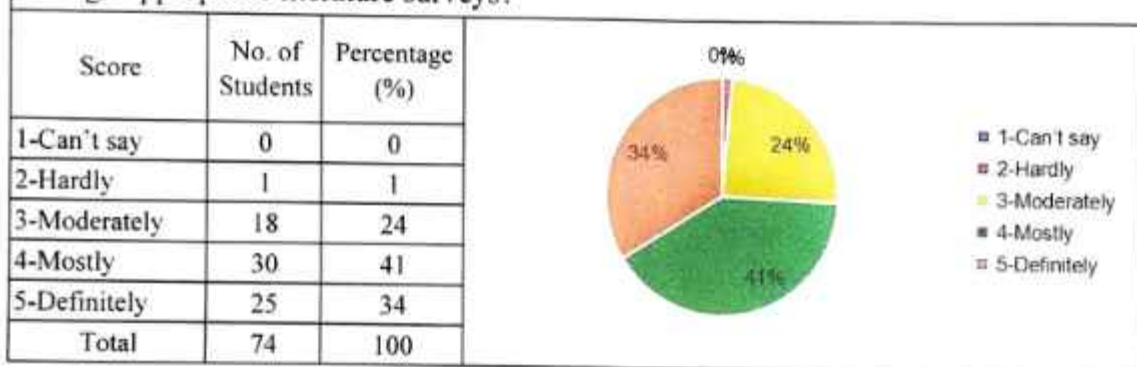
Academic Year 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

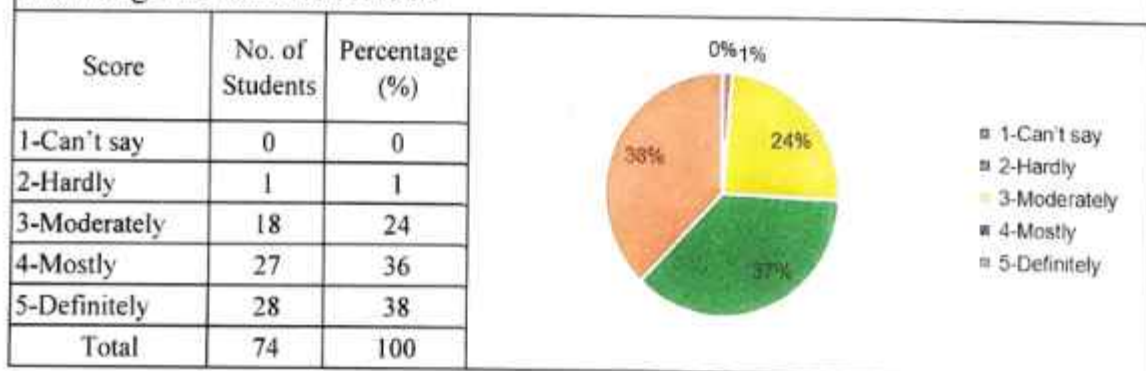
Subject- Miniproject 1A

Subject Incharge- Prof. Gayatri Dharap

CO1: Are you able to Identify societal/research/innovation/entrepreneurship problems through appropriate literature surveys?



CO2: Can you Identify Methodology for solving above problem and apply engineering knowledge and skills to solve it?



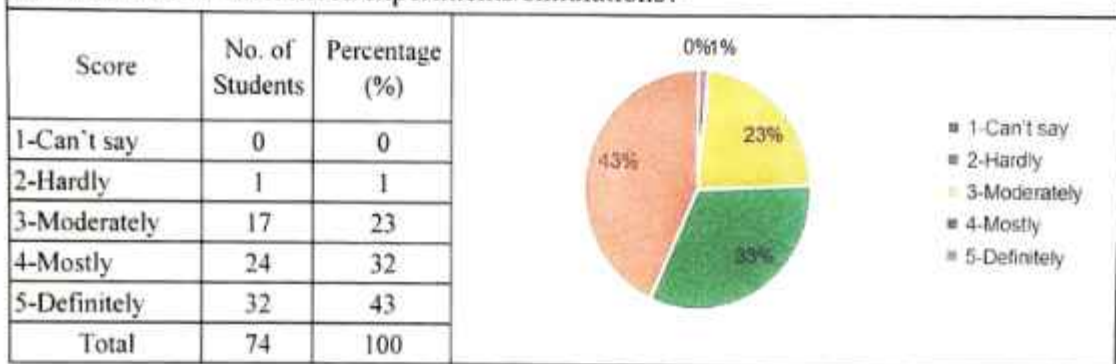


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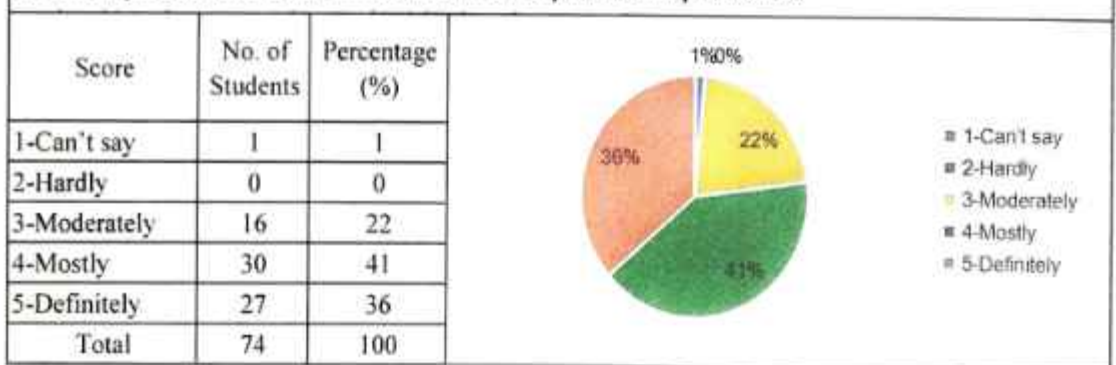
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CO3: Are you able to Validate, Verify the results using test cases/benchmark data/theoretical/ inferences/experiments/simulations?



CO4: Are you able Analyze and evaluate the impact of solution/product/research/innovation /entrepreneurship towards





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Course Exit Analysis Report (Sem - III)

CO5: Can you analyze the impact of solutions in societal and environmental context for sustainable development?

Score	No. of Students	Percentage (%)
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	19	26
4-Mostly	22	30
5-Definitely	31	42
Total	74	100

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

CO6: Have you gained technical competency towards participation in Competitions, Hackathons, etc?

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	14	19
4-Mostly	33	45
5-Definitely	27	36
Total	74	100

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

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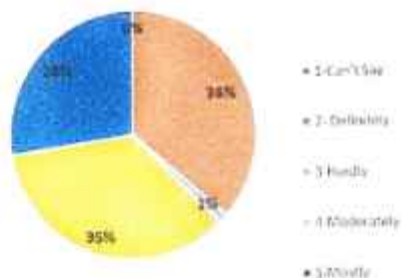
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Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem – Vii)
Subject – OOPM Subject In-charge – Prof. Vinod Zala

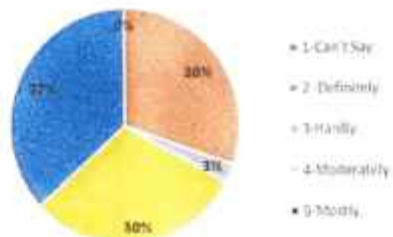
Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	1	2%
3-Moderately	28	35%
4-Mostly	22	28%
5- Definitely	29	36%
Total	77	100%

CO1.To apply fundamental programming constructs.



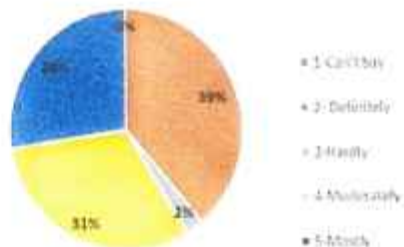
Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	2	3%
3-Moderately	24	30%
4-Mostly	29	36%
5- Definitely	24	30%
Total	77	100%

CO2.To illustrate the concept of packages, classes and objects



Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	2	3%
3-Moderately	25	31%
4-Mostly	22	28%
5- Definitely	31	39%
Total	77	100%

CO3.To elaborate the concept of strings, arrays and vectors





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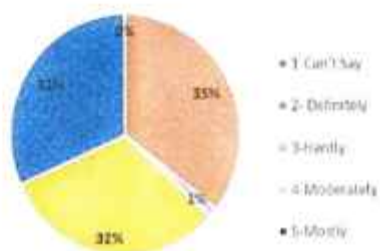
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Academic Year: 2023-24 (ODD SEM)

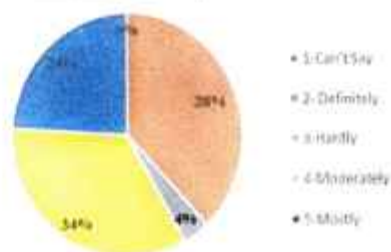
Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	1	2%
3-Moderately	25	31%
4-Mostly	25	31%
5- Definitely	28	35%
Total	77	100%

CO4.To implement the concept of inheritance and interfaces.



Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	3	4%
3-Moderately	27	34%
4-Mostly	19	24%
5- Definitely	30	37%
Total	77	100%

CO5.To implement the concept of exception handling and multithreading.

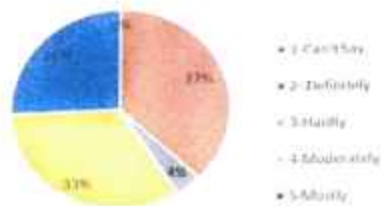




Department of Data Science
Academic Year: 2023-24 (ODD SEM)

Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	3	4%
3-Moderately	26	32%
4-Mostly	20	25%
5- Definitely	29	36%
Total	77	100%

CO6.To develop GUI based application.



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Department of Computer Science & Engineering (Data Science)
Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem - V)
Subject- Artificial Intelligence Lab
Subject Teacher - Prof. Gayatri Dharap

Score	No. of Students	Percentage	CO1: Are you able to Identify suitable Agent Architecture for a given real world AI problem?
1-Can't Say	1	1.34	
2-Hardly	4	5	
3-Moderately	12	16	
4-Mostly	37	49	
5- Definitely	21	28	
Total	75	100	

Score	No. of Students	Percentage	CO2: Are you able to Implement simple programs using Prolog?
1-Can't Say	2	2.67	
2-Hardly	2	3	
3-Moderately	13	17	
4-Mostly	29	39	
5- Definitely	29	39	
Total	75	100	



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Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - V)

Score	No. of Students	Percentage	CO3: Are you able to Implement various search techniques for a Problem-Solving Agent.
1-Can't Say	2	2.67	
2-Hardly	1	1	
3-Moderately	17	23	
4-Mostly	36	48	
5- Definitely	19	25	
Total	75	100	

Score	No. of Students	Percentage	CO4: Are you able to represent natural language description and apply inference rules to it.
1-Can't Say	2	3	
2-Hardly	3	4	
3-Moderately	21	28	
4-Mostly	31	41	
5- Definitely	18	24	
Total	75	100	

Score	No. of Students	Percentage	CO5: Are you able to construct a Bayesian Belief Network and draw probabilistic inferences from it?
1-Can't Say	3	4	
2-Hardly	1	1	
3-Moderately	13	17	
4-Mostly	35	47	
5- Definitely	23	31	
Total	75	100	



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Course Exit Analysis Report (Sem - V)

Score	No. of Students	Percentage	CO6: Have you learn any existing successful AI system?
1-Can't Say	2	3	<p>33% 17% 15% 3% 3%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2-Hardly	2	3	
3-Moderately	11	15	
4-Mostly	35	47	
5- Definitely	25	33	
Total	75	100	

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Academic Year 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

Subject- Artificial Intelligence(TH)

Subject Incharge- Prof. Diksha Bombe

CO1:Are you able to Identify the characteristics of the environment and differentiate between various agent architectures?

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	15	21
4-Mostly	33	46
5-Definitely	21	30
Total	71	100

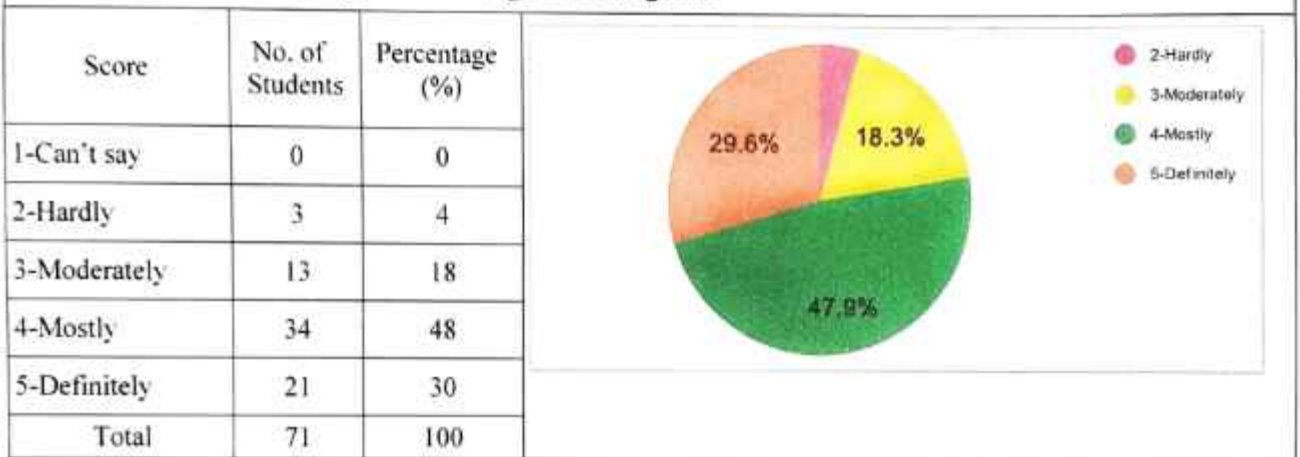
A pie chart illustrating the distribution of student responses for CO1. The chart is divided into four segments: 4-Mostly (46.5%), 5-Definitely (29.6%), 3-Moderately (21.1%), and 2-Hardly (3%). A legend on the right side of the chart identifies the segments with colored circles: 2-Hardly (pink), 3-Moderately (yellow), 4-Mostly (green), and 5-Definitely (orange).

CO2:Are you able to Apply the most suitable search strategy to design problem solving agents ?

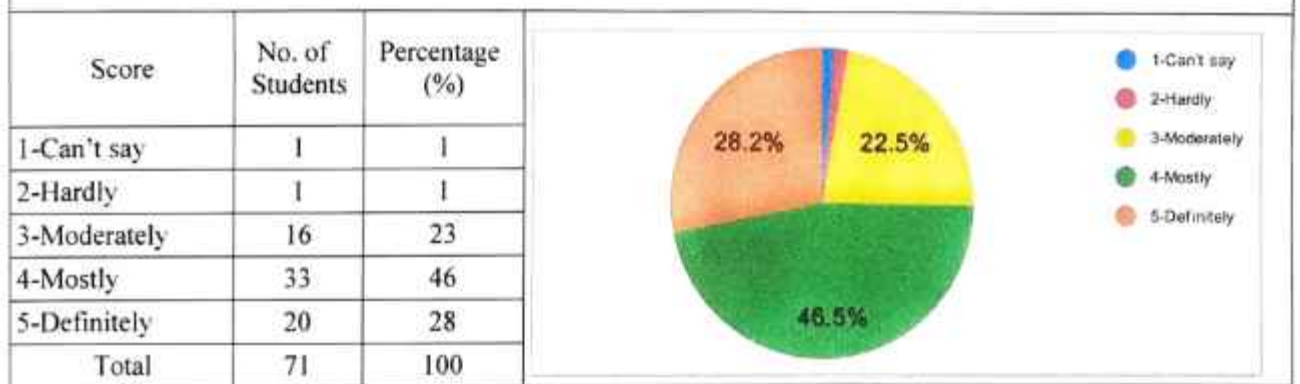
Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Hardly	2	3
3-Moderately	15	21
4-Mostly	33	46
5-Definitely	21	30
Total	71	100

A pie chart illustrating the distribution of student responses for CO2. The chart is divided into four segments: 4-Mostly (46.5%), 5-Definitely (29.6%), 3-Moderately (21.1%), and 2-Hardly (3%). A legend on the right side of the chart identifies the segments with colored circles: 2-Hardly (pink), 3-Moderately (yellow), 4-Mostly (green), and 5-Definitely (orange).

CO3: Are you able to Represent a natural language description of statements in logic and apply the inference rules to design Knowledge Based agents?

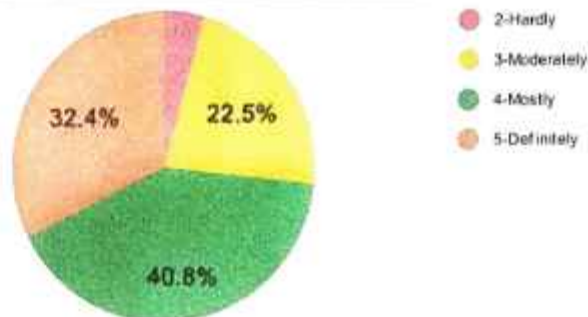


CO4: Are you able to Apply a probabilistic model for reasoning under uncertainty?



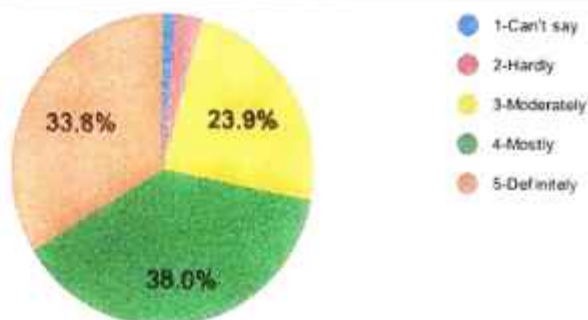
CO5: Are you able to Comprehend various learning techniques?

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2-Hardly	3	4
3-Moderately	16	23
4-Mostly	29	41
5-Definitely	23	32
Total	71	100



CO6: Are you able to Describe the various building blocks of an expert system for a given real word problem?

Score	No. of Students	Percentage (%)
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	17	24
4-Mostly	27	38
5-Definitely	24	34
Total	71	100




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Course Exit Analysis Report (SEM V)

Course- Computer Networks

Course Incharge - Prof. Umesh Pinjarkar

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

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	8	10
4-Mostly	30	38
5-Definitely	38	52
Total	76	100

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

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	2	4
3-Moderately	16	11
4-Mostly	25	28
5-Definitely	33	67
Total	76	100



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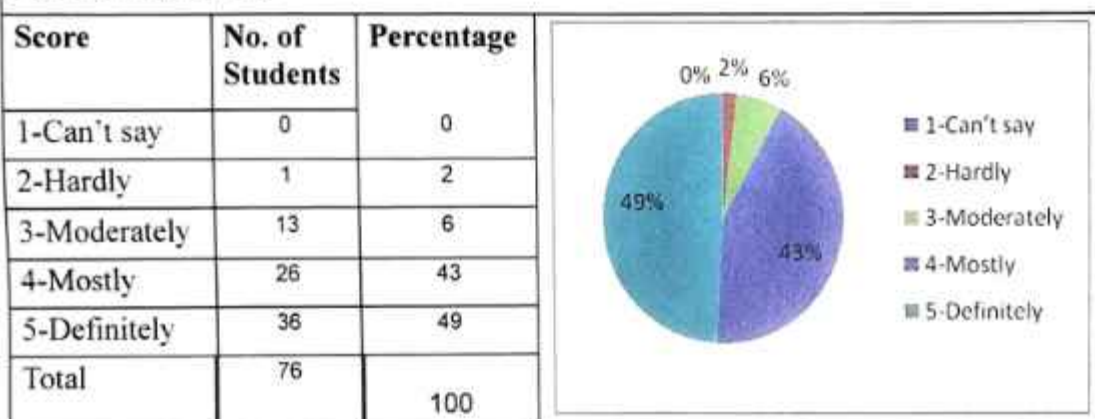
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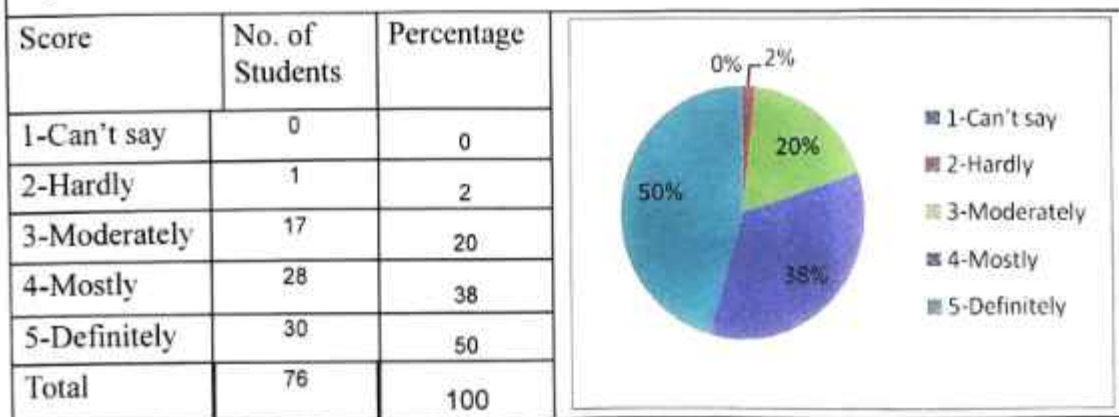
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM V)

CO3: Are you able to design the network using IP addressing (IPv4 & IPv6) and subnetting schemes.



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





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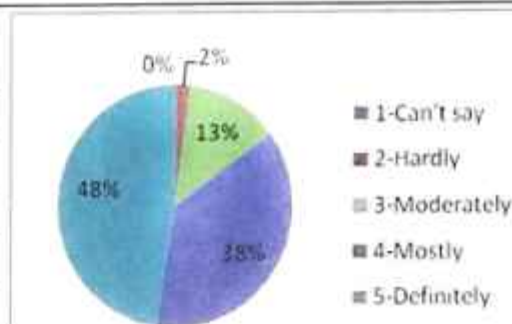
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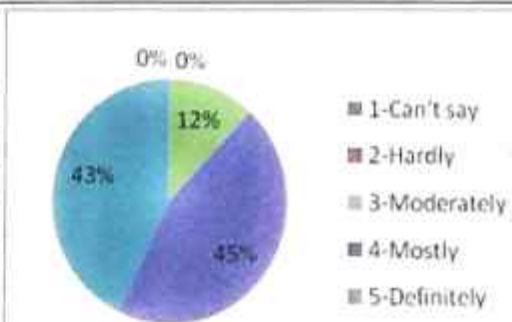
CO5: Are you able to explore the protocols at the application layer.

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	1	2
3-Moderately	17	13
4-Mostly	23	38
5-Definitely	35	48
Total	76	100



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

Score	No. of Students	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	16	12
4-Mostly	32	45
5-Definitely	28	43
Total	76	100



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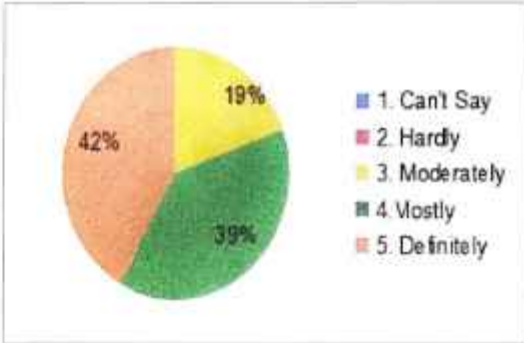
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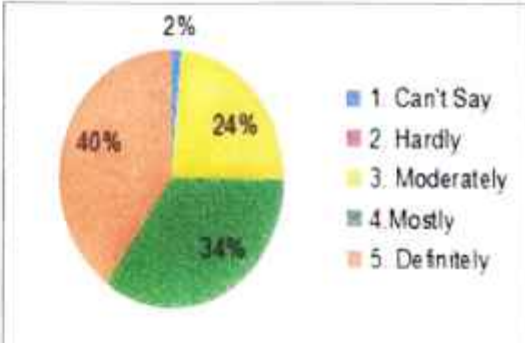
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Course Exit Analysis Report (SEM V)

Course - Data Warehousing and Mining (LAB)

Course In charge - Prof. Vandana Sharma

CO1: Are you able to Build a data Warehouse.			
Score	No. of Students	Percentage	
1-Can't say	0	0	
2-Hardly	0	0	
3-Moderately	13	19	
4-Mostly	26	39	
5-Definitely	28	42	
Total	67	100	

CO2: Are you able to analyze data using OLAP operations so as to take strategic decisions.			
Score	No. of Students	Percentage	
1-Can't say	1	1.49	
2-Hardly	0	0	
3-Moderately	16	24	
4-Mostly	23	34	
5-Definitely	27	40	
Total	67	100	

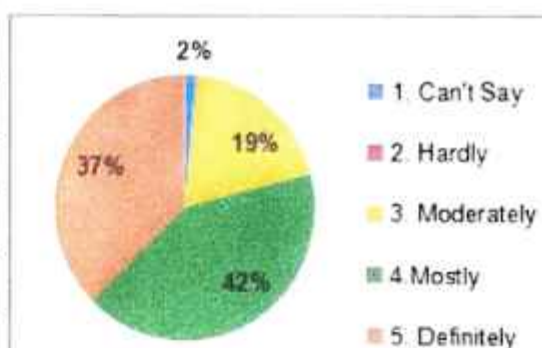


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Course Exit Analysis Report (SEM V)

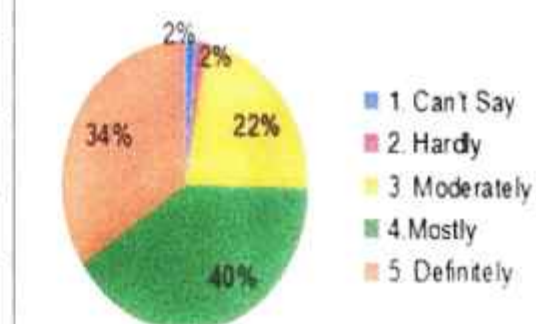
CO3: Are you able to Organize and prepare the data needed for data mining using pre preprocessing techniques.

Score	No. of Students	Percentage
1-Can't say	1	1.49
2-Hardly	0	0
3-Moderately	13	19
4-Mostly	28	42
5-Definitely	25	37
Total	67	100



CO4: Are you able to implement the appropriate data mining method.?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	15	22
4-Mostly	27	40
5-Definitely	23	34
Total	67	100





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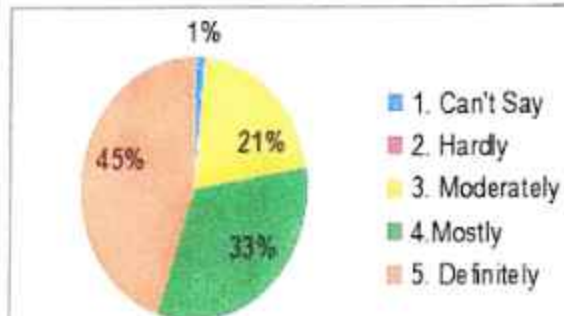
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Course Exit Analysis Report (SEM V)

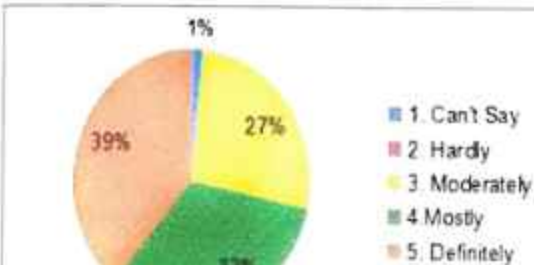
CO5: Are you able to perform exploratory analysis of the data to be used for mining.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	14	21
4-Mostly	22	33
5-Definitely	30	45
Total	67	100



CO6: 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	0	0
3-Moderately	18	27
4-Mostly	22	33
5-Definitely	26	39
Total	67	100



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Course Exit Analysis Report (SEM V)

Course - Data Warehousing and Mining (TH)

Course In charge - Prof. Jayshri Bankar

CO1: Are you able to Build a data warehouse.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	19	26
4-Mostly	28	39
5-Definitely	24	33
Total	72	100

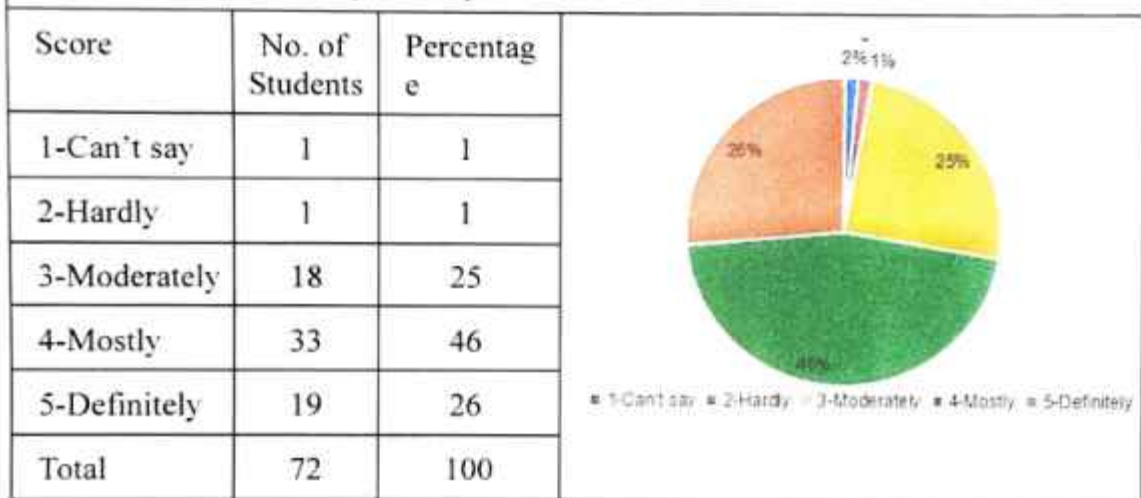
■ 1-Can't say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely

CO2: Are you able to analyze data using OLAP operations so as to take strategic decisions.

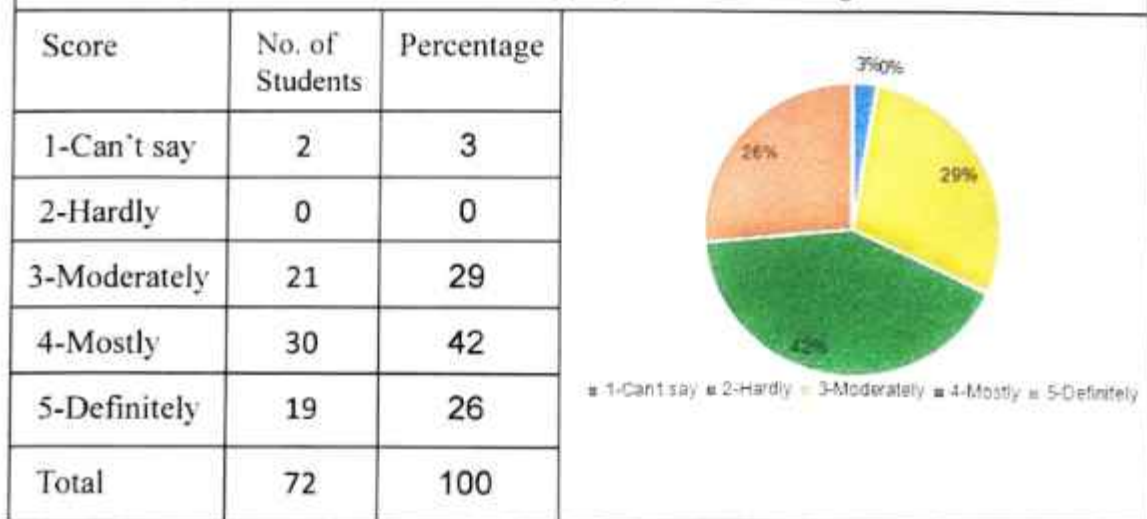
Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	0	0
3-Moderately	18	25
4-Mostly	35	49
5-Definitely	18	25
Total	72	100

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

CO3: Are you able to Organize and prepare the data needed for data mining using pre preprocessing techniques.



CO4: Are you able to implement the appropriate data mining method.?



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

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	0	0
3-Moderately	21	29
4-Mostly	31	43
5-Definitely	18	25
Total	72	100

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

CO6: Are you able to understand concept related to web mining.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	21	29
4-Mostly	27	38
5-Definitely	22	31
Total	72	100

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

Banicez
Faculty

RK
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Department of Computer Science & Engineering (Data Science)
Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem – III)
Subject- Miniproject 2A
Subject Teacher - Prof. Gayatri Dharap

Score	No. of Students	Percentage	CO1: Are you able to Identify societal/research/innovation/entrepreneurship problems through appropriate literature surveys?
1-Can't Say	1	1.428571429	
2-Hardly	2	3	
3-Moderately	15	21	
4-Mostly	34	49	
5-Definitely	18	26	
Total	70	100	

Score	No. of Students	Percentage	CO2: Can you Identify Methodology for solving above problem and apply engineering knowledge and skills to solve it?
1-Can't Say	1	2	
2-Hardly	2	3	
3-Moderately	15	21	
4-Mostly	31	44	
5-Definitely	21	30	
Total	70	100	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – III)

Score	No. of Students	Percentage	CO3: Are you able to Validate, Verify the results using test cases/benchmarkdata/theoretical/inferences/experiments/simulations?
1-Can't Say	2	3	<p>3% 27% 41% 29%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2-Hardly	0	0	
3-Moderately	19	27	
4-Mostly	29	41	
5-Definitely	20	29	
Total	70	100	

Score	No. of Students	Percentage	CO4: Are you able Analyze and evaluate the impact of solution/product/research/innovation/entrepreneurship towards societal/environmental/sustainable development ?
1-Can't Say	1	1	<p>1% 1% 29% 41% 27%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2-Hardly	1	1	
3-Moderately	20	29	
4-Mostly	29	41	
5-Definitely	19	27	
Total	70	100	

Score	No. of Students	Percentage	CO5: Can you analyze the impact of solutions in societal and environmental context for sustainable development?
1-Can't Say	2	3	<p>3% 26% 43% 29%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2-Hardly	0	0	
3-Moderately	18	26	
4-Mostly	30	43	
5-Definitely	20	29	
Total	70	100	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - III)

Score	No. of Students	Percentage	CO6: Have you gained technical competency towards participation in Competitions, Hackathons, etc?
1-Can't Say	1	2	<ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2-Hardly	2	3	
3-Moderately	17	24	
4-Mostly	29	41	
5-Definitely	21	30	
Total	70	100	

Gayatri
Faculty

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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - V)

Subject- Statistics for Artificial Intelligence & Data Science

Subject Teacher - Prof. Abhishek Chauhan

Score	No. of Students	Percentage	CO1: Are you able to illustrate exploratory Data analysis ?
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	1.35	
3-Moderately	14	18.92	
4-Mostly	35	47.30	
5-Definitely	24	32.43	
Total	74	100	

Score	No. of Students	Percentage	CO2: Are you able to describe Data and Sampling Distributions ?
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	0	0.00	
3-Moderately	19	25.68	
4-Mostly	34	45.95	
5-Definitely	21	28.38	
Total	74	100	

Score	No. of Students	Percentage	CO3: Are you able to solve Statistical Experiments and Significance Testing?
1-Can't Say	0	0.00	<ul style="list-style-type: none"> ■ 1-Can't Say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely
2-Hardly	0	0.00	
3-Moderately	22	29.73	
4-Mostly	33	44.59	
5-Definitely	19	25.68	
Total	75	100	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - V)

Score	No. of Students	Percentage	CO4: Are you able to demonstrate Summarizing Data?
1-Can't Say	0	0.00	<ul style="list-style-type: none">1-Can't Say2-Hardly3-Moderately4-Mostly5-Definitely
2-Hardly	0	0.00	
3-Moderately	18	24.32	
4-Mostly	35	47.30	
5-Definitely	21	28.38	
Total	75	100	

Score	No. of Students	Percentage	CO5: Are you able interpret the Analysis of Variance?
1-Can't Say	0	0.00	<ul style="list-style-type: none">1-Can't Say2-Hardly3-Moderately4-Mostly5-Definitely
2-Hardly	0	0.00	
3-Moderately	20	27.03	
4-Mostly	28	37.84	
5-Definitely	26	35.14	
Total	75	100	

Score	No. of Students	Percentage	CO6: Are you able to use Linear Least Squares ?
1-Can't Say	1	1.35	<ul style="list-style-type: none">1-Can't Say2-Hardly3-Moderately4-Mostly5-Definitely
2-Hardly	1	1.35	
3-Moderately	15	20.27	
4-Mostly	36	48.65	
5-Definitely	21	28.38	
Total	75	100	

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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - V)

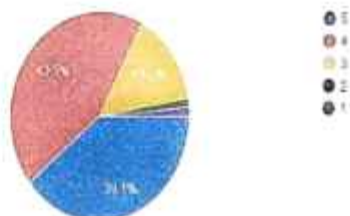
Subject - Web Computing

Subject In-charge - Prof. Ragini Sharma

Score	No. of Students	Percentage
1-Can't Say	1	1.4%
2-Hardly	1	1.4%
3-Moderately	10	14.5%
4-Mostly	30	43.5%
5- Definitely	27	39.1%
Total	69	100%

CO1. Select protocols or technologies required for various web applications

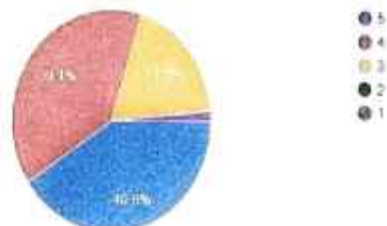
69 responses



Score	No. of Students	Percentage
1-Can't Say	1	1.4%
2-Hardly	0	0%
3-Moderately	13	18.8%
4-Mostly	27	39.1%
5- Definitely	28	40.6%
Total	69	100%

CO2. Apply JavaScript to add functionality to web pages

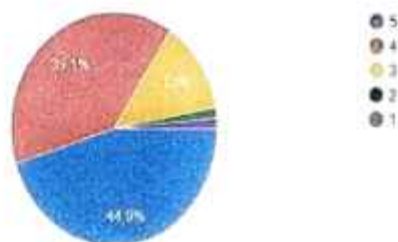
69 responses



Score	No. of Students	Percentage
1-Can't Say	1	1.4%
2-Hardly	1	1.4%
3-Moderately	9	13%
4-Mostly	27	39.1%
5- Definitely	31	44.9%
Total	69	100%

CO3. Design front end application using basic React.

69 responses





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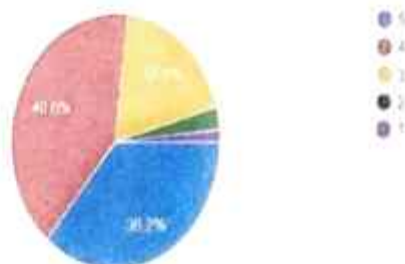
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Department of Computer Science & Engineering (Data Science)
Academic Year: 2023-24 (ODD SEM)

Score	No. of Students	Percentage
1-Can't Say	1	1.4%
2-Hardly	2	2.9%
3-Moderately	13	18.8%
4-Mostly	28	40.6%
5- Definitely	25	36.2%
Total	69	100%

CO4. Construct web based Node.js applications using Express

65 responses



Score	No. of Students	Percentage
1-Can't Say	1	1.4%
2-Hardly	2	2.9%
3-Moderately	10	14.5%
4-Mostly	26	37.7%
5- Definitely	30	43.5%
Total	69	100%

CO5. Design front end applications using functional components of React.

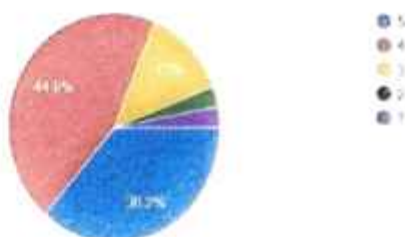
65 responses



Score	No. of Students	Percentage
1-Can't Say	2	2.9%
2-Hardly	2	2.9%
3-Moderately	9	13%
4-Mostly	31	44.9%
5- Definitely	25	36.2%
Total	69	100%

CO6. Design back-end applications using Node.js

69 responses



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – V)

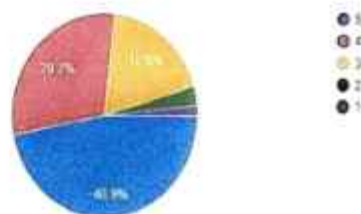
Subject – Web Computing & Network Lab

Subject In-charge – Prof. Ragini Sharma

Score	No. of Students	Percentage
1-Can't Say	1	1.6%
2-Hardly	2	3.1%
3-Moderately	12	18.8%
4-Mostly	19	29.7%
5- Definitely	30	46.9%
Total	64	100%

CO1. Identify and apply the appropriate HTML tags to develop a webpage

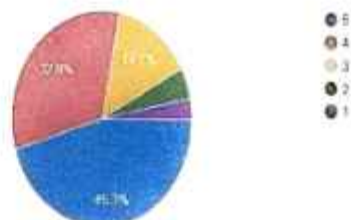
64 responses:



Score	No. of Students	Percentage
1-Can't Say	2	3.1%
2-Hardly	3	4.7%
3-Moderately	9	14.1%
4-Mostly	21	32.8%
5- Definitely	29	45.3%
Total	64	100%

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

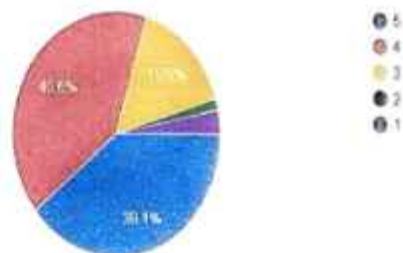
64 responses:



Score	No. of Students	Percentage
1-Can't Say	2	3.1%
2-Hardly	1	1.6%
3-Moderately	10	15.6%
4-Mostly	26	40.6%
5- Definitely	25	39.1%
Total	69	100%

CO3. Construct responsive websites using Bootstrap

64 responses:





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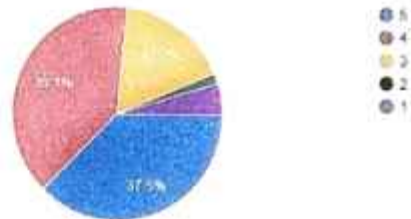
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Academic Year: 2023-24 (ODD SEM)

Score	No. of Students	Percentage
1-Can't Say	3	4.7%
2-Hardly	1	1.6%
3-Moderately	11	17.2%
4-Mostly	25	39.1%
5- Definitely	24	37.5%
Total	64	100%

CO4. Use JavaScript to develop interactive web pages.

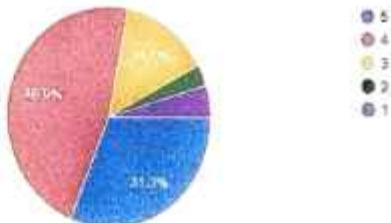
64 responses



Score	No. of Students	Percentage
1-Can't Say	3	4.7%
2-Hardly	2	3.1%
3-Moderately	9	14.1%
4-Mostly	30	46.9%
5- Definitely	20	31.3%
Total	69	100%

CO5. Construct front end applications using React and back end using Node.js/express

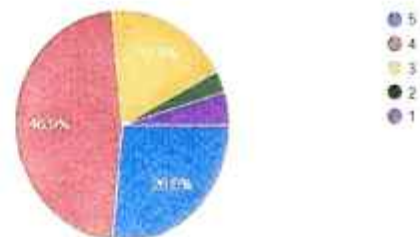
64 responses



Score	No. of Students	Percentage
1-Can't Say	3	4.7%
2-Hardly	2	3.1%
3-Moderately	12	18.8%
4-Mostly	30	46.9%
5- Definitely	17	26.6%
Total	69	100%

CO6. Use simulator for CISCO packet tracer/GNS3

64 responses



RPL
Faculty

RPL
HOD

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ACADEMIC YEAR 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM VII)

Course - Big Data Analytics (LAB) Course Incharge - Prof. Jayshri Bankar

CO1: Are you able to Understand the key issues in big data management and its associated applications for business decisions and strategy?

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	3	4
3-Moderately	15	21
4-Mostly	22	31
5-Definitely	28	40
Total	70	100

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

CO2: Are you able to Develop problem solving and critical thinking skills in fundamental enabling techniques like Hadoop, Map reduce and NoSQL in BDA?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	13	19
4-Mostly	25	36
5-Definitely	29	41
Total	70	100

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



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ACADEMIC YEAR 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM VII)

CO3: Are you able to Collect, manage, store, query and analyze various forms of Big Data.

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	2	3
3-Moderately	12	17
4-Mostly	24	34
5-Definitely	31	44
Total	70	100

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

CO4: Are you able to Interpret business models and scientific computing paradigms, and apply software tools for big data analytics?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	1	1
3-Moderately	15	21
4-Mostly	26	37
5-Definitely	27	39
Total	70	100

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



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM VII)

CO5: Are you able to Adapt adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc?

Score	No. of Students	Percentage
1-Can't say	1	1
2-Hardly	3	4
3-Moderately	11	16
4-Mostly	23	33
5-Definitely	32	46
Total	70	100

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

CO6: Are you able to Solve Complex real world problems in various applications like recommender systems, social media applications, health and medical systems.

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	2	3
3-Moderately	14	20
4-Mostly	24	34
5-Definitely	28	40
Total	70	100

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

Bamkar
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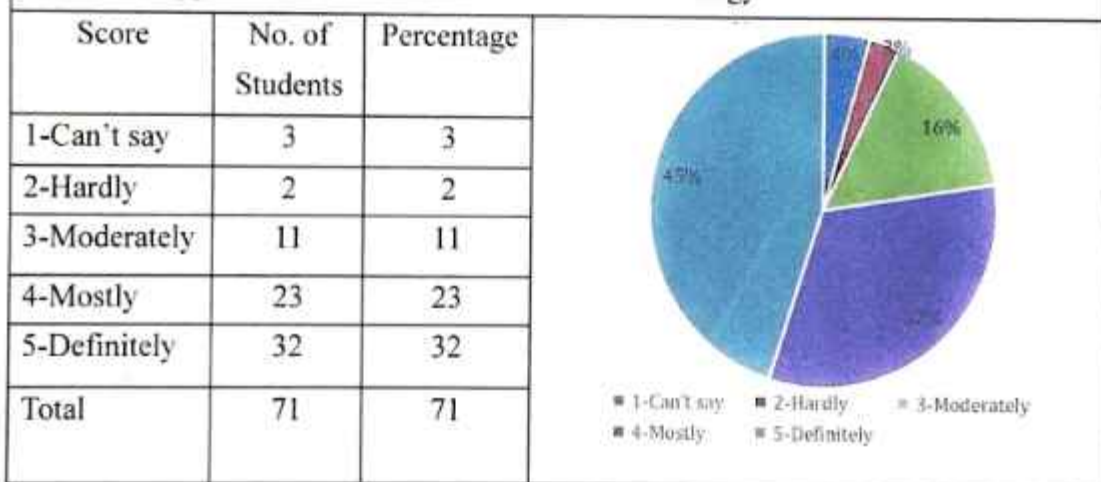
ACADEMIC YEAR 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

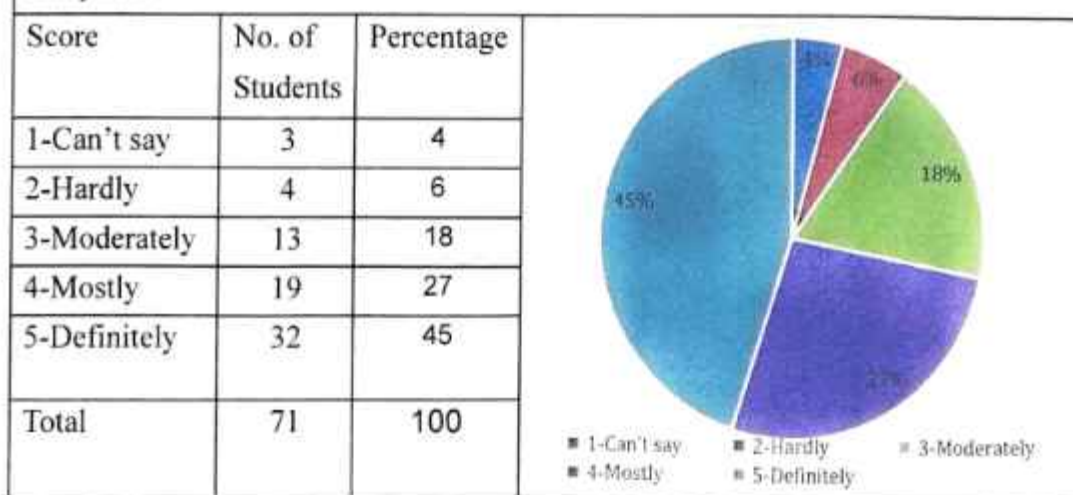
Course Exit Analysis Report (SEM VII)

Course - Big Data Analytics (TH) Course Incharge - Prof. Jayshri Bankar

CO1: Are you able to Understand the key issues in big data management and its associated applications for business decisions and strategy?



CO2: Are you able to Develop problem solving and critical thinking skills in fundamental enabling techniques like Hadoop, Map reduce and NoSQL in big data analytics?





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ACADEMIC YEAR 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM VII)

CO3: Are you able to Collect, manage, store, query and analyze various forms of Big Data.

Score	No. of Students	Percentage
1-Can't say	2	3
2-Hardly	1	1
3-Moderately	15	21
4-Mostly	23	32
5-Definitely	30	42
Total	71	100

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

CO4: Are you able to Interpret business models and scientific computing paradigms, and apply software tools for big data analytics?

Score	No. of Students	Percentage
1-Can't say	3	4
2-Hardly	2	3
3-Moderately	10	14
4-Mostly	22	31
5-Definitely	34	48
Total	71	100

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



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ACADEMIC YEAR 2023-24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE

Course Exit Analysis Report (SEM VII)

CO5: Are you able to Adapt adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc?

Score	No. of Students	Percentage
1-Can't say	5	7
2-Hardly	2	3
3-Moderately	10	14
4-Mostly	20	28
5-Definitely	34	48
Total	71	100

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

CO6: Are you able to Solve Complex real world problems in various applications like recommender systems, social media applications, health and medical systems.

Score	No. of Students	Percentage
1-Can't say	4	6
2-Hardly	2	3
3-Moderately	11	15
4-Mostly	19	27
5-Definitely	35	49
Total	71	100

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

Bankey
Faculty

ORL
HOD

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Department of Data Science
Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem – Vii)
Subject – Cybersecurity and Laws Subject In-charge – Prof. Vinod Zala

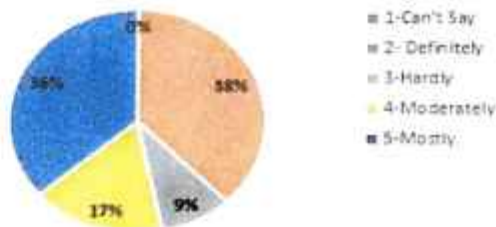
Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	5	6.5%
3-Moderately	11	14.3%
4-Mostly	26	33.8%
5- Definitely	33	42.9%
Total	77	100%

CO1.To Understand the concept of cyber crime and it's effect on outside world



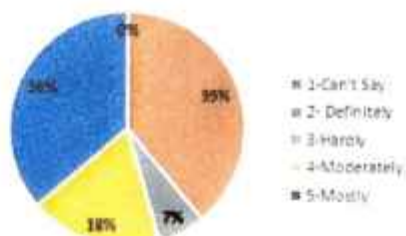
Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	7	9.1%
3-Moderately	13	16.9%
4-Mostly	28	36.4%
5- Definitely	29	37.7%
Total	77	100%

CO2.Interpret and apply IT law in various legal issue:



Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	5	6.5%
3-Moderately	14	18.2%
4-Mostly	28	36.4%
5- Definitely	30	39%
Total	77	100%

CO3.To Identify modern engineering tools and methods in Cyber Security

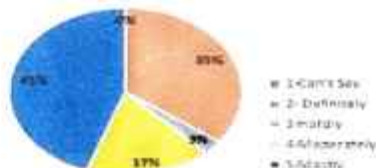




Department of Data Science
Academic Year: 2023-24 (ODD SEM)

Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	2	6.5%
3-Moderately	13	16.9%
4-Mostly	33	42.9%
5- Definitely	26	33.8%
Total	77	100%

CO4.To interpret and assess legislation ,regulation, codes and standards relevant to E-Commerce ,The Contract Aspects ,The Security Aspect ,The Intellectual Property Aspect in Cyber Law



Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	6	7.8%
3-Moderately	8	10.4%
4-Mostly	30	39%
5- Definitely	32	41.6%
Total	77	100%

CO5.To interpret and assess legislation ,regulation, codes and standards relevant to cyber law and explain IT act 2008 and its latest amendments -



Score	No. of Students	Percentage
1-Can't Say	0	0%
2-Hardly	5	6.5%
3-Moderately	9	11.7%
4-Mostly	34	44.2%
5- Definitely	28	36.4%
Total	77	100%

CO6.To To learn various types of security standards compliances



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - VII)

Subject- Deep Learning Lab

Subject Teacher - Prof. Vaibhav Dhage

Score	No. of Students	Percentage	CO1: Are you able to Implement basic neural network models.
1-Can't Say	0	0	
2- Hardly	0	0	
3-Moderately	10	14	
4-Mostly	12	17	
5-Definitely	49	69	
Total	71	100%	

Score	No. of Students	Percentage	CO2: Are you able to Design and train feedforward neural networks using various learning algorithms.
1-Can't Say	1	1	
2- Hardly	0	0	
3-Moderately	6	9	
4-Mostly	27	38	
5-Definitely	37	52	
Total	71	100%	



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Course Exit Analysis Report (Sem – VII)

Score	No. of Students	Percentage	CO3: Are you able to Implement a backpropagation algorithm to train a Deep Neural Network.
1-Can't Say	0	0	<p>62% 27% 8% 3%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderatly	6	8	
4-Mostly	19	27	
5-Definitely	44	62	
Total	71	100%	

Score	No. of Students	Percentage	CO4: Are you able to Implement and train deep learning models such as Autoencoders.
1-Can't Say	1	1	<p>52% 37% 10% 1%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	0	0	
3-Moderatly	7	10	
4-Mostly	26	37	
5-Definitely	37	52	
Total	71	100%	

Score	No. of Students	Percentage	CO5: Are you able to Implement and train deep learning models such as CNN.
1-Can't Say	0	0	<p>52% 37% 11%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	0	0	
3-Moderatly	8	11	
4-Mostly	26	37	
5-Definitely	37	52	
Total	71	100%	



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Course Exit Analysis Report (Sem - VII)

Score	No. of Students	Percentage	CO6: Are you able to Implement and train deep learning models such as LSTM.
1-Can't Say	0	0	<p>100%</p> <p>56% 32% 10% 1%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	1	1	
3-Moderately	7	10	
4-Mostly	23	32	
5-Definitely	40	56	
Total	71	100%	

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Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – VII)

Subject- Deep Learning

Subject Teacher - Prof. Vaibhav Dhage

Score	No. of Students	Percentage	CO1: Are you able to understand the basic of Neural Networks.
1-Can't Say	0	0	<p>36% 3% 13% 48%</p> <ul style="list-style-type: none"> ■ 1. Can't Say ■ 2. Hardly ■ 3. Moderately ■ 4. Mostly ■ 5. Definitely
2- Hardly	2	3	
3-Moderatly	9	13	
4-Mostly	34	48	
5-Definitely	26	36	
Total	71	100%	

Score	No. of Students	Percentage	CO2: Are you able to Explore training of Deep Neural Networks.
1-Can't Say	0	0	<p>32% 3% 21% 44%</p> <ul style="list-style-type: none"> ■ 1. Can't Say ■ 2. Hardly ■ 3. Moderately ■ 4. Mostly ■ 5. Definitely
2- Hardly	2	3	
3-Moderatly	15	13	
4-Mostly	31	48	
5-Definitely	23	36	
Total	71	100%	



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Course Exit Analysis Report (Sem - VII)

Score	No. of Students	Percentage	CO3: Are you able to Design appropriate DNN model using unsupervised Learning such as Autoencoders.
1-Can't Say	0	0	<p>4% 15% 44% 37%</p> <ul style="list-style-type: none"> ■ 1. Can't Say ■ 2. Hardly ■ 3. Moderately ■ 4. Mostly ■ 5. Definitely
2- Hardly	3	4	
3-Moderatly	11	15	
4-Mostly	31	44	
5-Definitely	26	37	
Total	71	100%	

Score	No. of Students	Percentage	CO4: Are you able to Design appropriate DNN model using supervised Learning such as CNN.
1-Can't Say	1	1	<p>1% 4% 14% 45% 35%</p> <ul style="list-style-type: none"> ■ 1. Can't Say ■ 2. Hardly ■ 3. Moderately ■ 4. Mostly ■ 5. Definitely
2- Hardly	3	4	
3-Moderatly	10	14	
4-Mostly	32	45	
5-Definitely	25	36	
Total	71	100%	

Score	No. of Students	Percentage	CO5: Are you able to Design appropriate DNN model for sequence learning applications.
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Course Exit Analysis Report (Sem – VII)

1-Can't Say	1	1	
2- Hardly	2	3	
3-Moderately	8	11	
4-Mostly	35	50	
5-Definitely	25	35	
Total	71	100%	

Score	No. of Students	Percentage	CO6: Are you able to Understand the recent trends and applications of Deep Learning.
1-Can't Say	1	1	
2- Hardly	1	1	
3-Moderately	9	13	
4-Mostly	30	43	
5-Definitely	30	42	
Total	71	100%	

D. V. S.
 Faculty

R. C. L.
 HOD

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Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem - VII)

Subject- Major Project- 1

Subject Teacher - Prof. Vaibhav Dhage

Score	No. of Students	Percentage	CO1: Are you able to understand the basic of Neural Networks.
1-Can't Say	0	0	<p>36% 3% 13% 48%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderatly	9	13	
4-Mostly	34	48	
5-Definitely	26	36	
Total	71	100%	

Score	No. of Students	Percentage	CO2: Are you able to Explore training of Deep Neural Networks.
1-Can't Say	0	0	<p>32% 3% 21% 44%</p> <ul style="list-style-type: none"> 1. Can't Say 2. Hardly 3. Moderately 4. Mostly 5. Definitely
2- Hardly	2	3	
3-Moderatly	15	13	
4-Mostly	31	48	
5-Definitely	23	36	
Total	71	100%	



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Course Exit Analysis Report (Sem – VII)

Score	No. of Students	Percentage	CO3: Are you able to Design appropriate DNN model using unsupervised Learning such as Autoencoders.
1-Can't Say	0	0	
2- Hardly	3	4	
3-Moderatly	11	15	
4-Mostly	31	44	
5-Definitely	26	37	
Total	71	100%	

Score	No. of Students	Percentage	CO4: Are you able to Design appropriate DNN model using supervised Learning such as CNN.
1-Can't Say	1	1	
2- Hardly	3	4	
3-Moderatly	10	14	
4-Mostly	32	45	
5-Definitely	25	36	
Total	71	100%	



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Department of Computer Science & Engineering (Data Science)

Academic Year: 2023-24 (ODD SEM)

Course Exit Analysis Report (Sem – VII)

Score	No. of Students	Percentage	CO5: Are you able to Design appropriate DNN model for sequence learning applications.
1-Can't Say	1	1	<p>1% 3% 1% 50% 35%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	2	3	
3-Moderately	8	11	
4-Mostly	35	50	
5-Definitely	25	35	
Total	71	100%	

Score	No. of Students	Percentage	CO6: Are you able to Understand the recent trends and applications of Deep Learning
1-Can't Say	1	1	<p>1% 1% 3% 43% 42%</p> <ul style="list-style-type: none">1. Can't Say2. Hardly3. Moderately4. Mostly5. Definitely
2- Hardly	1	1	
3-Moderately	9	13	
4-Mostly	30	43	
5-Definitely	30	42	
Total	71	100%	

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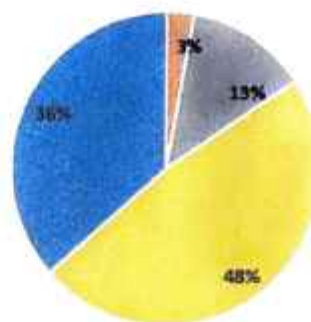


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COURSE EXIT ANALYSIS REPORT (SEM-VII)**

**COURSE- NATURAL LANGUAGE PROCESSING(LAB)
COURSE INCHARGE: Prof. Vandana Sharma**

Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	2	3
3-Moderately	9	13
4-Mostly	35	39
5- Definitely	25	45
Total	71	100

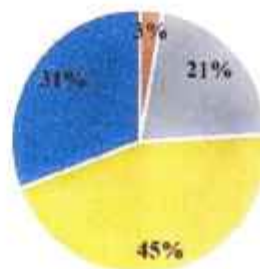
CO1:Apply various text processing techniques.



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

Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	2	3
3-Moderately	15	21
4-Mostly	32	45
5- Definitely	22	31
Total	71	100

CO2:Design language model for word level analysis



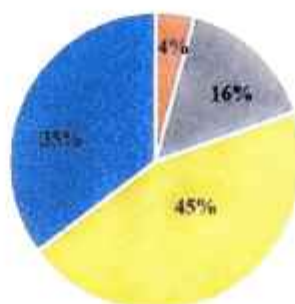
■ 1. Can't Say ■ 2. Hardly ■ 3. Moderately
■ 4. Mostly ■ 5. Definitely



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Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	3	4
3-Moderately	11	15
4-Mostly	32	45
5- Definitely	25	35
Total	71	100

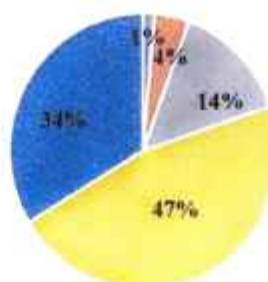
**CO3:Design, implement and analyze
NLP algorithms.**



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

Score	No. of Students	Percentage
1-Can't Say	1	1
2-Hardly	3	4
3-Moderately	10	14
4-Mostly	33	46
5- Definitely	24	34
Total	71	100

**C04:Realize semantics of English language
for text processing.**



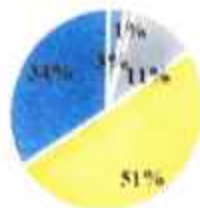
- 1. Can't Say
- 2. Hardly
- 3. Moderately
- 4. Mostly
- 5. Definitely



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COURSE EXIT ANALYSIS REPORT (SEM-VII)

Score	No. of Students	Percentage
1-Can't Say	2	3
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	36	51
5- Definitely	24	34
Total	71	100

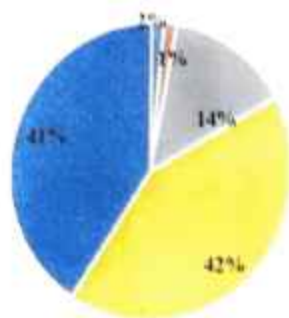
CO5: To apply NLP techniques to design real world NLP applications such as machine translation, sentiment analysis, text summarization, information extraction, Question Answering system etc.



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

Score	No. of Students	Percentage
1-Can't Say	1	1
2-Hardly	1	2
3-Moderately	10	14
4-Mostly	30	41
5- Definitely	29	42
Total	71	100

CO6: Implement proper experimental methodology for training and evaluating empirical NLP systems.



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

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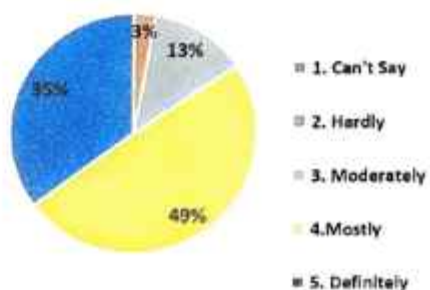


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE
COURSE EXIT ANALYSIS REPORT (SEM-VII)**

**COURSE- NATURAL LANGUAGE PROCESSING (TH)
COURSE INCHARGE: Prof. Vandana Sharma**

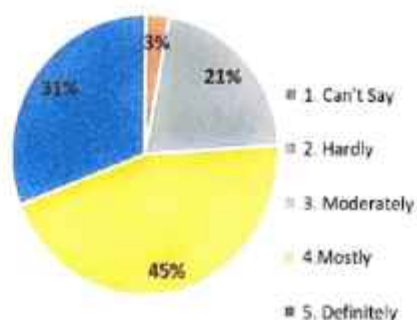
Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	2	3
3-Moderately	9	13
4-Mostly	35	39
5-Definitely	25	45
Total	71	100

CO1:To have a broad understanding of the field of natural language processing



Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	2	3
3-Moderately	15	21
4-Mostly	32	45
5- Definitely	22	31
Total	71	100

CO2.To design language model for word level analysis for text processing.

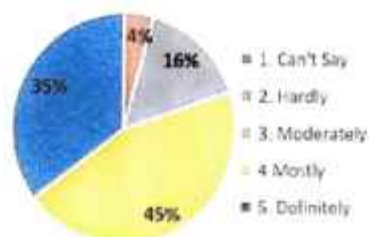




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COURSE EXIT ANALYSIS REPORT (SEM-VII)**

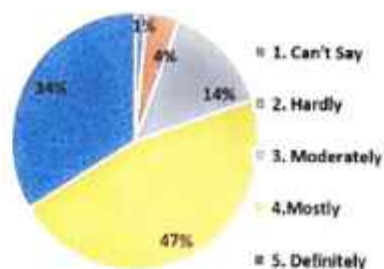
Score	No. of Students	Percentage
1-Can't Say	0	0
2-Hardly	3	4
3-Moderately	11	15
4-Mostly	32	45
5- Definitely	25	35
Total	71	100

CO3:To design various POS tagging techniques..



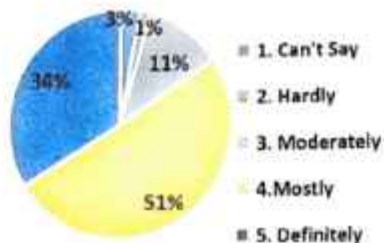
Score	No. of Students	Percentage
1-Can't Say	1	1
2-Hardly	3	4
3-Moderately	10	14
4-Mostly	33	46
5-Definitely	24	34
Total	71	100

CO4:To design, implement and test algorithms for semantic analysis



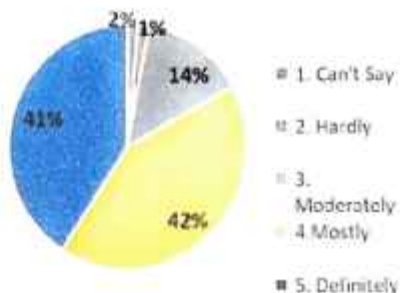
Score	No. of Students	Percentage
1-Can't Say	2	3
2-Hardly	1	1
3-Moderately	8	11
4-Mostly	36	51
5-Definitely	24	34
Total	71	100

CO5: To develop basic understanding of Pragmatics and to formulate the discourse segmentation and anaphora resolution



Score	No. of Students	Percentage
1-Can't Say	1	2
2-Hardly	1	1
3-Moderately	10	14
4-Mostly	30	42
5-Definitely	29	41
Total	71	100

CO6: To apply NLP techniques to design real world NLP applications.



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