SARASWATI Education Society's
SARASWATI College of Engineering
Learn Live Achieve and Contribute
Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering
Action taken based on feedback from students (CO & PO)
Academic Year: 2023-24 (ODD)

Summary of feedback-Semester 3:

Feedbacks collected through course exit forms were analyzed and necessary actions which are useful for students were planned and conducted. Abstract of suggestions obtained from the stakeholders to enhance the employability of the student are discussed below.

- Need extra Practice for EM-3
- Need numerical practice for DSGT

Action Taken:

Based on suggestions, Action taken is mentioned below.

Subject	Faculty name	Feedback/suggestions	Action Taken	Date
EM III	Prof. Ganesh Rogde	Needs Extra notes	Notes are provided	28/11/23
DSGT	Prof Namrata Arya	Need extra notes and numerical for practice	Notes are provided	21/11/23

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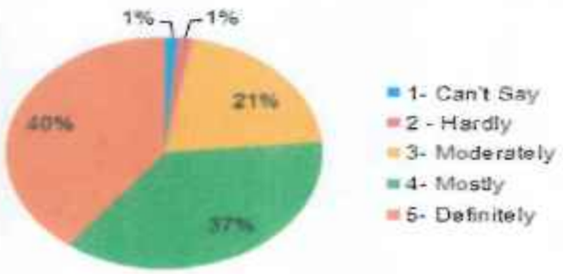
Kharghar, Navi Mumbai - 410 210.

Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: CG

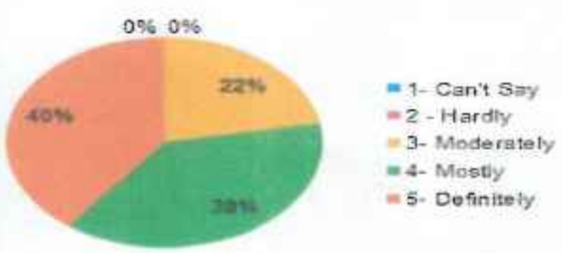
CO1 : Implement various algorithms for basic graphics primitives

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.47
2 - Hardly	1	1.47
3- Moderately	14	20.59
4- Mostly	25	36.76
5- Definitely	27	39.71
Total	68	100



CO2. Implement various filled area primitive algorithms

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	15	22.06
4- Mostly	26	38.24
5- Definitely	27	39.71
Total	68	100



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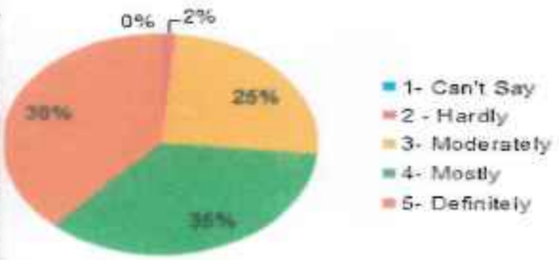
Kharghar, Navi Mumbai - 410 210.

Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: CG

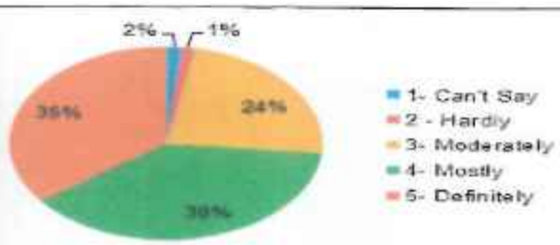
CO3 Apply transformation on graphical objects

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.47
3- Moderately	17	25.00
4- Mostly	24	35.29
5- Definitely	26	38.24
Total	68	100



CO4 Apply clipping algorithms on graphical objects

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.47
2 - Hardly	1	1.47
3- Moderately	16	23.53
4- Mostly	26	38.24
5- Definitely	24	35.29
Total	68	100



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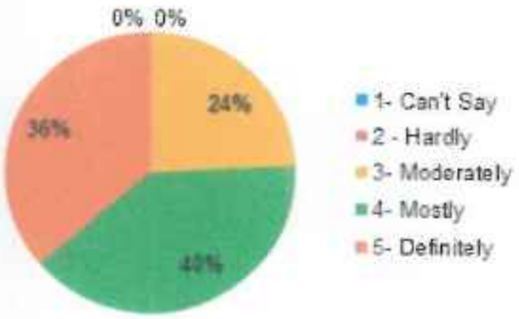
Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: CG

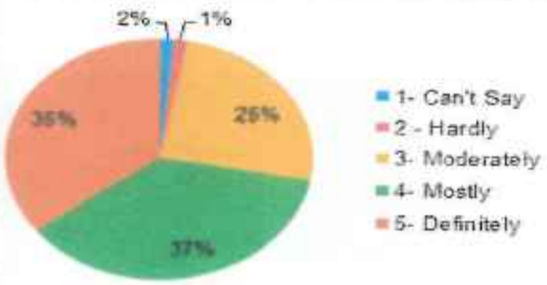
CO5 Perform curve and fractal generation methods

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	16	23.53
4- Mostly	26	38.24
5- Definitely	24	35.29
Total	66	97.05882353



CO6 Develop a Graphical application/Animation based on learned concept

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.47
2 - Hardly	1	1.47
3- Moderately	17	25.00
4- Mostly	25	36.76
5- Definitely	24	35.29
Total	68	100



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DEPARTMENT OF COMPUTER ENGINEERING

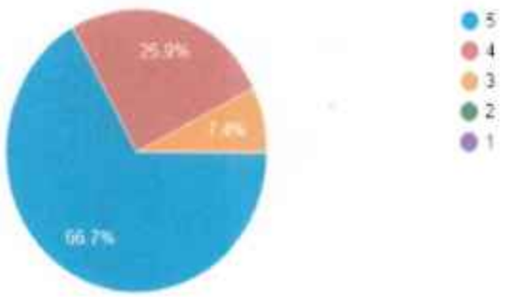
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM III)

SUBJECT: COMPUTER GRAPHICS LAB

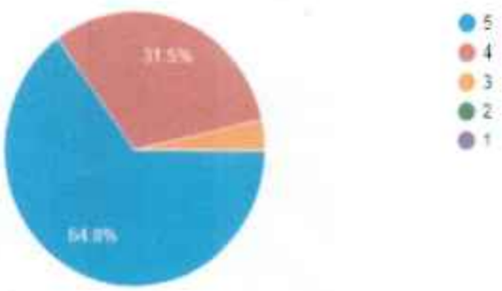
CO1: implement algorithmic development of graphics primitives like line, circle

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	7.41
4- Mostly	14	25.93
5- Definitely	36	66.67
Total	54	100.00



CO2: Understand and implement the need of developing graphics application

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.70
4- Mostly	17	31.48
5- Definitely	35	64.81
Total	54	100.00

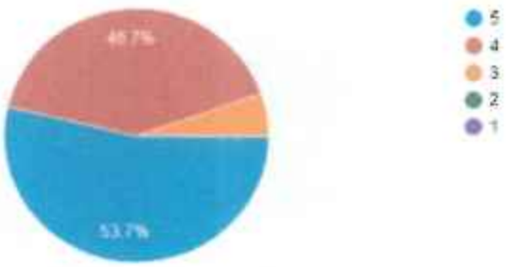


CO3: To Implement various output and filled area primitive algorithms

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	9.26
4- Mostly	17	31.48
5- Definitely	32	59.26
Total	54	100.00

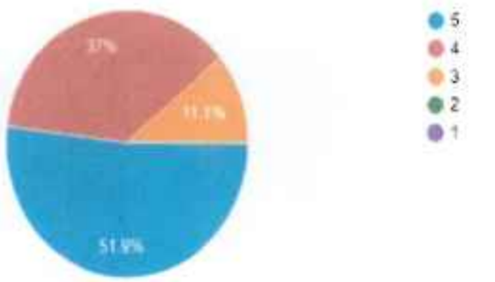
CO4: To Apply transformation, projection and clipping algorithms on graphical objects.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.56
4- Mostly	22	40.74
5- Definitely	29	53.70
Total	54	100.00



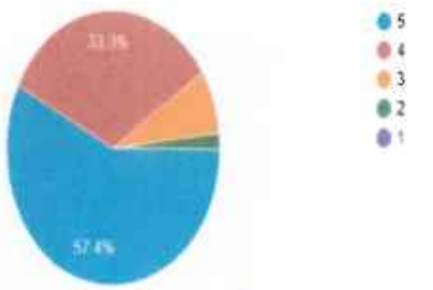
CO5: To Perform curve and fractal generation methods.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	6	11.11
4- Mostly	20	37.04
5- Definitely	28	51.85
Total	54	100.00



CO6: To Develop a Graphical application/Animation based on learned concept

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.85
3- Moderately	4	7.41
4- Mostly	18	33.33
5- Definitely	31	57.41
Total	54	100.00



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Kharghar, Navi Mumbai - 410 210

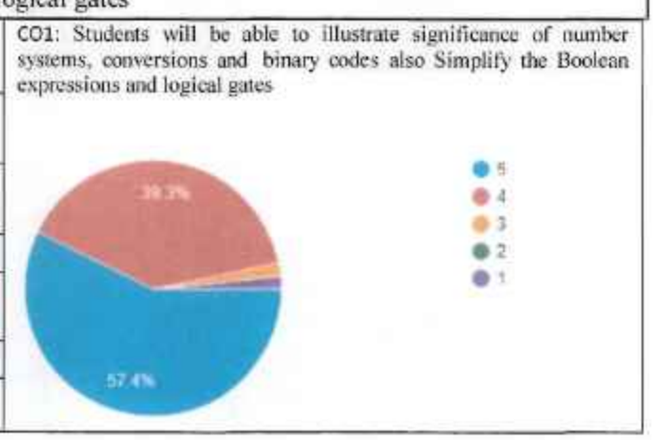
Department of Computer Engineering

Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)
Subject: Digital Logic and Computer Organization and Architecture (DLCOA)

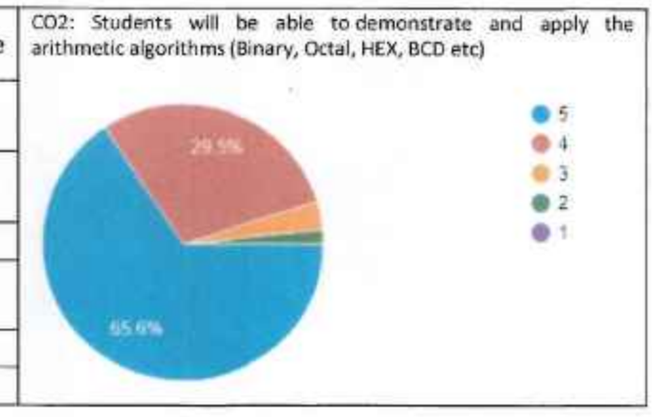
CO1: Students will be able to illustrate significance of number systems, conversions and binary codes also Simplify the Boolean expressions and logical gates

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	35	57.4%
4- Moderately Relevant	24	39.3%
3- Relevant,	1	1.6%
2- Least Relevant,	0	0
1-Can't say	1	1.6%
Total	**61**	**100%**



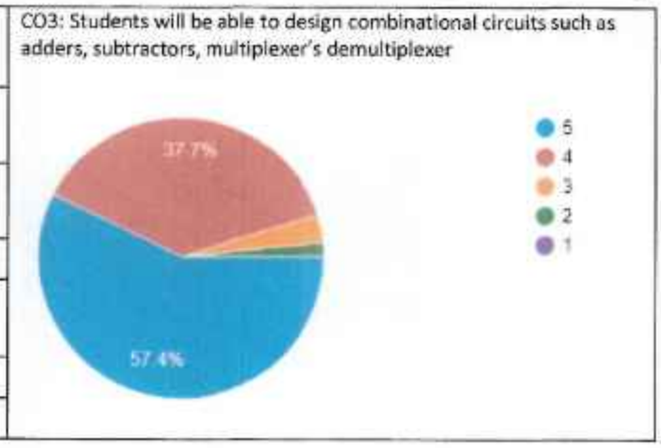
CO2: Students will be able to demonstrate and apply the arithmetic algorithms (Binary, Octal, HEX, BCD etc)

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	40	65.6%
4- Moderately Relevant	18	29.5%
3- Relevant,	2	3.3%
2- Least Relevant,	1	1.6%
1-Can't say	0	0
Total	**61**	**100%**



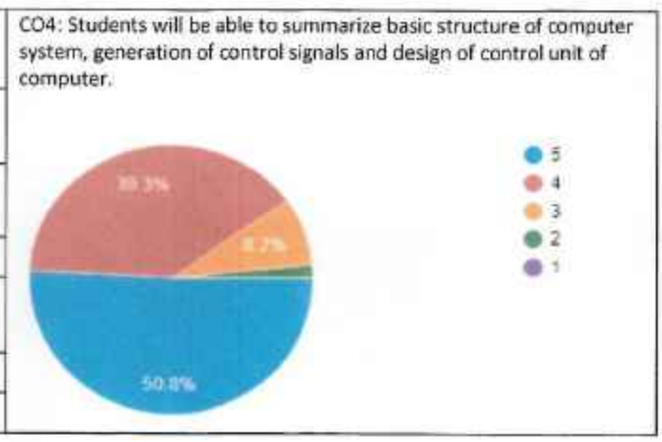
CO3: Students will be able to design combinational circuits such as adders, subtractors, multiplexer's demultiplexer

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	35	57.4 %
4- Moderately Relevant	23	37.7%
3- Relevant,	2	3.3%
2- Least Relevant,	1	1.6%
1-Can't say	0	0%
Total	**61**	**100%**



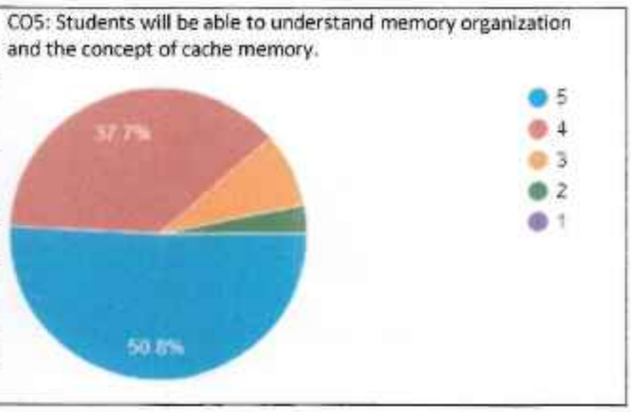
CO4: Students will be able to summarize basic structure of computer system, generation of control signals and design of control unit of computer

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	31	50.8
4- Moderately Relevant	24	39.3
3- Relevant,	5	8.2
2- Least Relevant,	1	1.6
1-Can't say	0	0
Total	**61**	**100%**



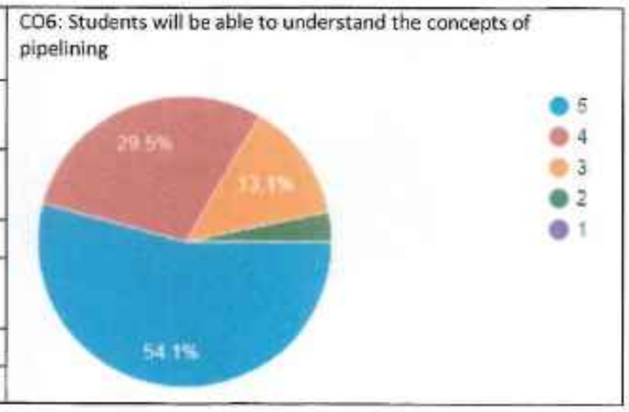
CO5: Students will be able to understand memory organization and the concept of cache memory.

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	31	50.8
4- Moderately Relevant	23	37.7
3- Relevant,	5	8.2
2- Least Relevant,	2	3.3
1-Can't say	0	0
Total	**61**	**100%**



CO6: Students will be able to understand the concepts of pipelining.

Degree of relevance	No. of Students	Percentage
5- Strongly relevant	33.	54.1
4- Moderately Relevant	18	29.5
3- Relevant,	8	13.1
2- Least Relevant,	2	3.3
1-Can't say	0	0
Total	**61**	**100%**



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Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering

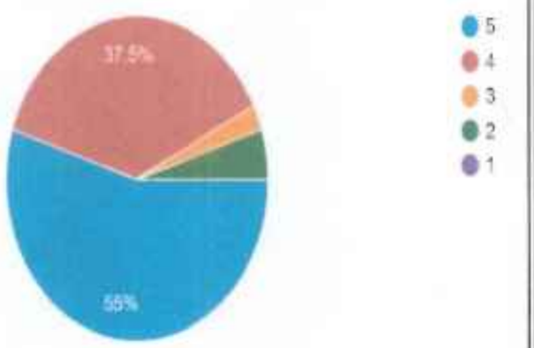
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure

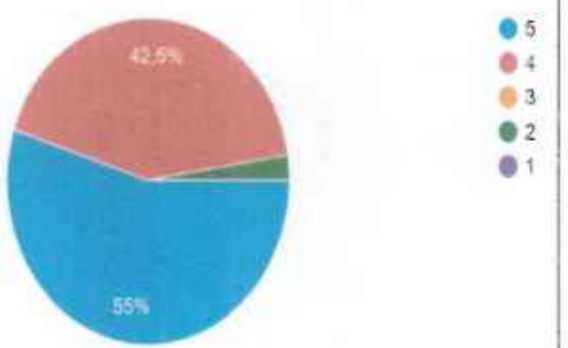
CO1: Students will be able to implement Linear and Non-Linear data structures.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	2	5.0
3- Moderately	1	2.5
4- Mostly	15	37.5
5- Definitely	22	55.0
Grand Total	40	100%



CO2: Students will be able to handle various operations like searching, insertion, deletion and traversals on various data structures.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	1	2.5
3- Moderately	0	0
4- Mostly	17	42.5
5- Definitely	22	55.0
Grand Total	40	100%



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Department of Computer Engineering

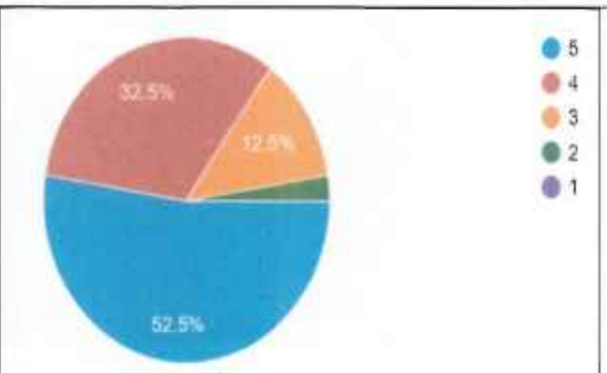
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure

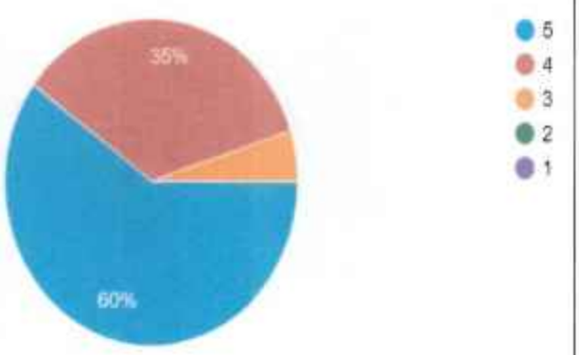
CO3: Students will be able to explain various data structures, related terminologies and its types.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	1	2.5
3- Moderately	5	12.5
4- Mostly	13	37.5
5- Definitely	21	52.5
Grand Total	40	100%



CO4: Students will 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
2- Hardly	0	0
3- Moderately	2	5.0
4- Mostly	14	35.0
5- Definitely	24	60.0
Grand Total	40	100%



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Department of Computer Engineering

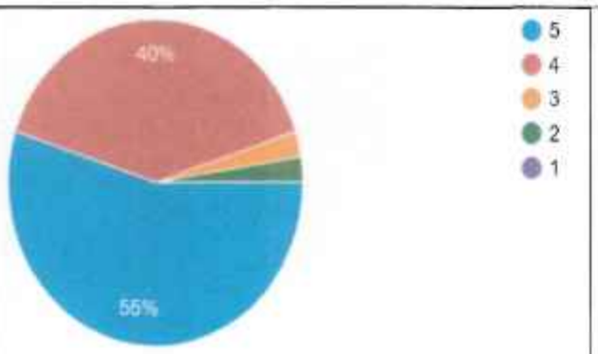
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure

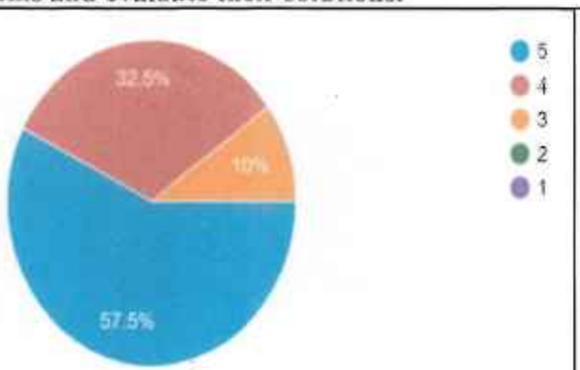
CO5: Students will be able to analyse and implement appropriate searching techniques for a given problem.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	1	2.5
3- Moderately	1	2.5
4- Mostly	16	40
5- Definitely	22	55.0
Grand Total	40	100%



CO6: Students will be able to demonstrate the ability to analyse, design, apply and use data structures to solve engineering problems and evaluate their solutions.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	4	10.0
4- Mostly	13	32.5
5- Definitely	23	57.5
Grand Total	40	100%



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Principal

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SARASWATI College of Engineering

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Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering

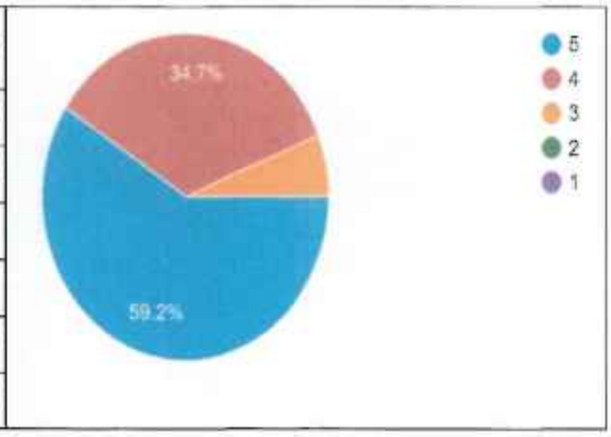
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure Lab

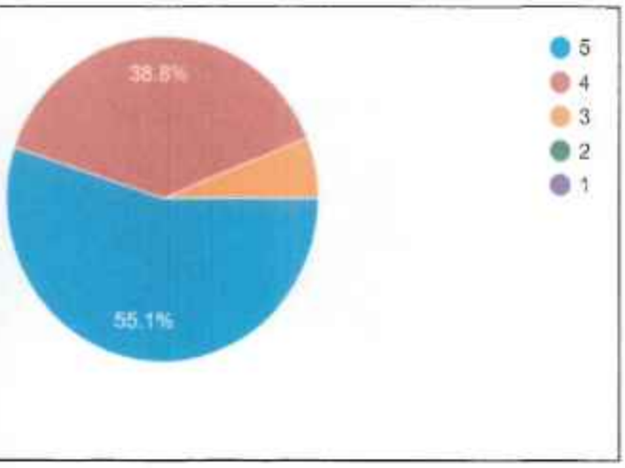
CO1: Students will be able to produce a variety of potential design solutions suited to meet functional requirements for implementation of stack.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	3	6.1
4- Mostly	17	34.7
5- Definitely	29	59.2
Grand Total	49	100%



CO2: Students will be able to produce a variety of potential design solutions suited to meet functional requirements for implementation of queue.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	3	6.1
4- Mostly	19	38.8
5- Definitely	27	55.1
Grand Total	49	100%



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Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering

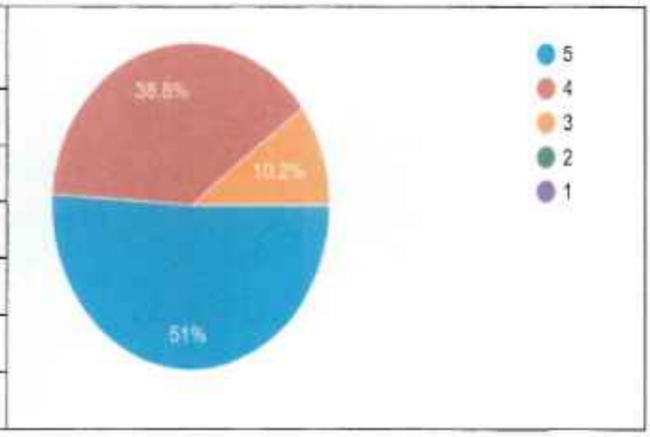
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure Lab

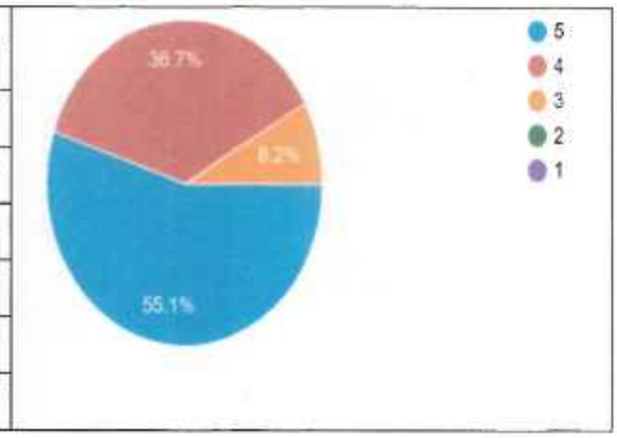
CO3: Student will be able to illustrate and implement different Linked lists for engineering activities

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	5	10.2
4- Mostly	19	38.8
5- Definitely	25	51
Grand Total	49	100%



CO4: Student will be able to implement appropriate insertion, deletion, tree traversal methods for binary tree.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	4	8.2
4- Mostly	18	36.7
5- Definitely	27	55.1
Grand Total	49	100%



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Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering

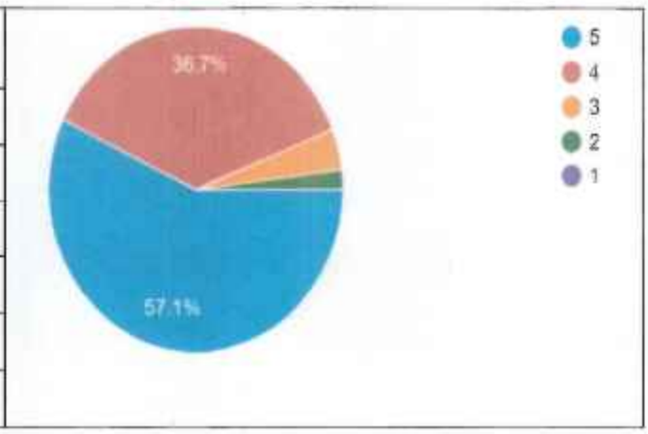
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM III)

Subject: Data Structure Lab

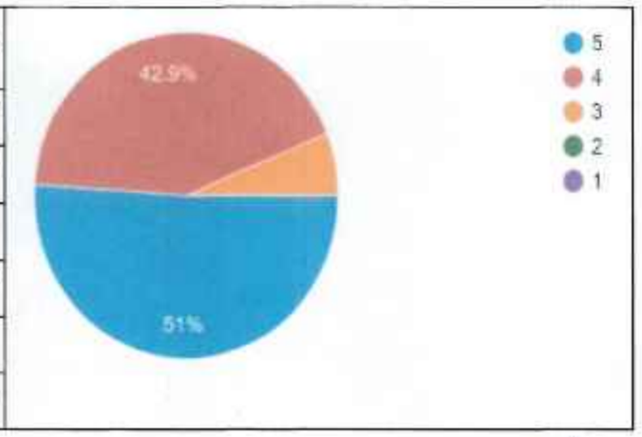
CO5: Student will be able to implement graph traversal techniques to solve engineering problems.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	1	2
3- Moderately	2	4.1
4- Mostly	18	36.7
5- Definitely	28	57
Grand Total	49	100%



CO6: Apply theory and principle searching techniques of computer science and engineering to solve an engineering problem

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	3	6.1
4- Mostly	21	42.9
5- Definitely	25	51
Grand Total	49	100%



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SARASWATI Education Society's
SARASWATI College of Engineering
(Under Self Finance and Continuous)
Kharghar, Navi Mumbai - 410 210
NAAC A+ Accredited

Department of Computer Engineering
Academic Year: 2023-2024(ODD SEM)

Course Exit Analysis Report (SemIII)

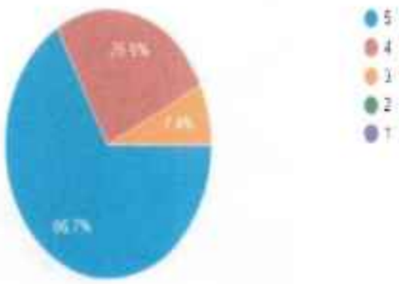
Subject: DSGT

Subject In-charge: Prof. Namrata Arya

54 Responses

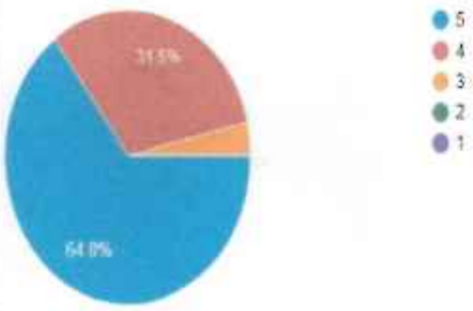
CO1: Understand the notation of mathematical thinking, mathematical proofs and to apply them in problem solving.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	7.41
4- Mostly	14	25.93
5- Definitely	36	66.67
Total	54	100.00



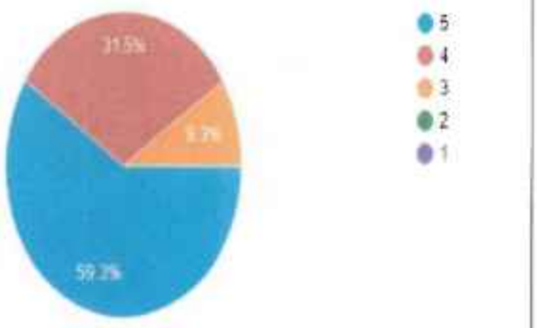
CO2 : Ability to reason logically.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.70
4- Mostly	17	31.48
5- Definitely	35	64.81
Total	54	100.00



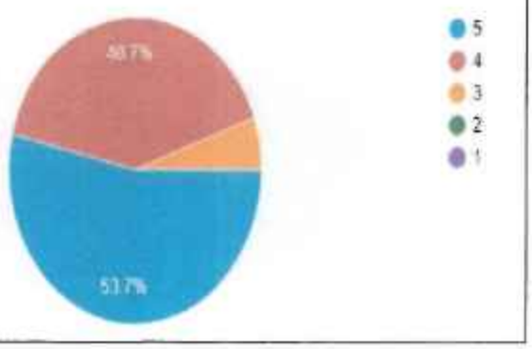
CO3 : Ability to understand relations, functions, diagraph and Lattice

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	9.26
4- Mostly	17	31.48
5- Definitely	32	59.26
Total	54	100.00



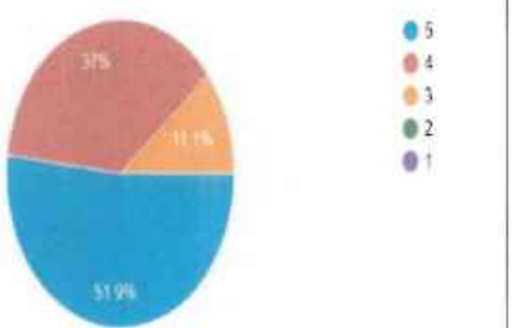
CO4 : Ability to understand and apply concept of graph theory in solving real world problems.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.56
4- Mostly	22	40.74
5- Definitely	29	53.70
Total	54	100.00



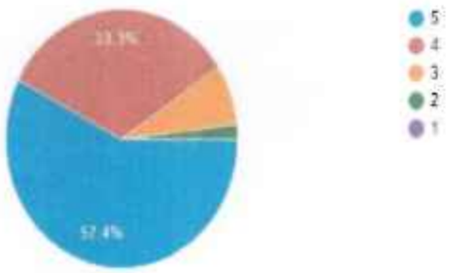
CO5 : Understand the use of groups and codes in Encoding-Decoding

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	6	11.11
4- Mostly	20	37.04
5- Definitely	28	51.85
Total	54	100.00



CO6 : Analyze a complex computing problem and apply principles of discrete mathematics to identify solution.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.85
3- Moderately	4	7.41
4- Mostly	18	33.33
5- Definitely	31	57.41
Total	54	100.00



Head of Department

Subject In charge

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Department of Computer Engineering
Academic Year: 2023-2024(ODD SEM)

Course Exit Analysis Report (SemIII)

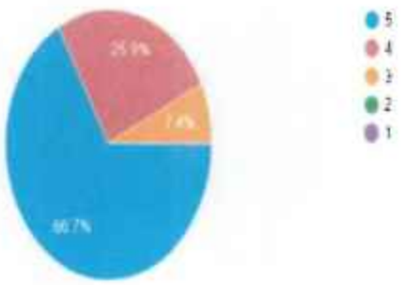
Subject: DSGT

Subject In-charge: Prof. Namrata Arya

54 Responses

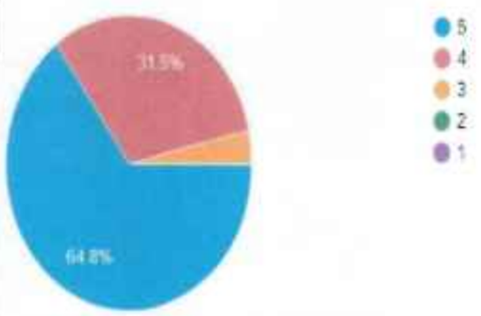
CO1: Understand the notation of mathematical thinking, mathematical proofs and to apply them in problem solving.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	7.41
4- Mostly	14	25.93
5- Definitely	36	66.67
Total	54	100.00



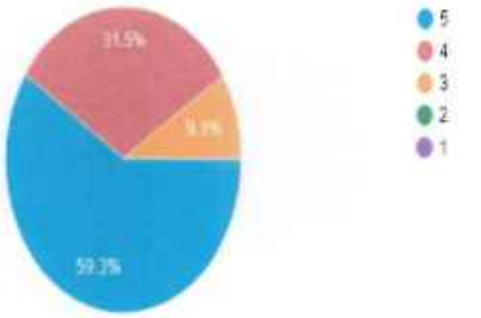
CO2 : Ability to reason logically.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.70
4- Mostly	17	31.48
5- Definitely	35	64.81
Total	54	100.00



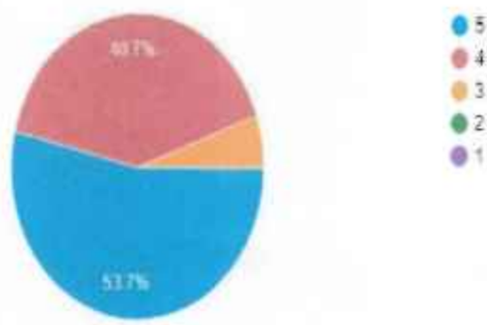
CO3 : Ability to understand relations, functions, diagraph and Lattice

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	9.26
4- Mostly	17	31.48
5- Definitely	32	59.26
Total	54	100.00



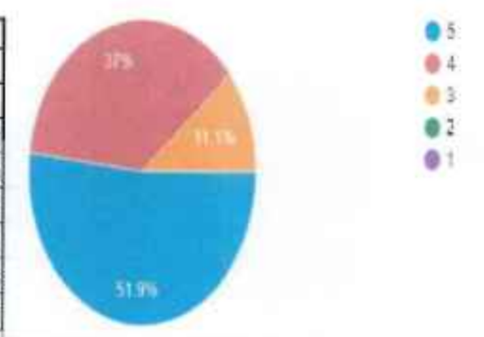
CO4 : Ability to understand and apply concept of graph theory in solving real world problems.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.56
4- Mostly	22	40.74
5- Definitely	29	53.70
Total	54	100.00



CO5 : Understand the use of groups and codes in Encoding-Decoding

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	6	11.11
4- Mostly	20	37.04
5- Definitely	28	51.85
Total	54	100.00



CO6 : Analyze a complex computing problem and apply principles of discrete mathematics to identify solution.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.85
3- Moderately	4	7.41
4- Mostly	18	33.33
5- Definitely	31	57.41
Total	54	100.00

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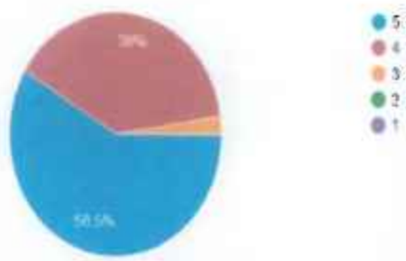
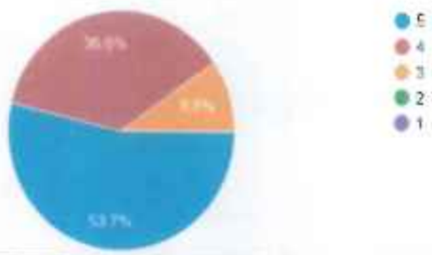
DEPARTMENT OF COMPUTER ENGINEERING
ACADEMIC YEAR: 2023-24
COURSE EXIT ANALYSIS REPORT (SEM III)
SUBJECT: OOPM LAB

CO1 To apply fundamental programming constructs



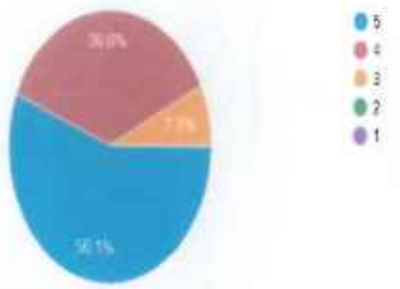
Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.44
4- Mostly	16	39.02
5- Definitely	24	58.54
Total	41	100.00

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



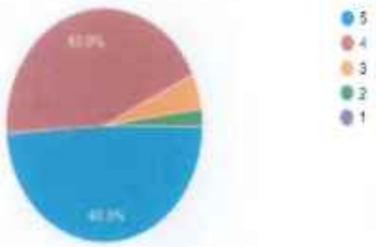
Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	9.76
4- Mostly	15	36.59
5- Definitely	22	53.66
Total	41	100.00

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



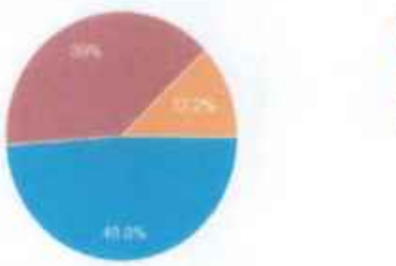
Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	7.32
4- Mostly	15	36.59
5- Definitely	23	56.10
Total	41	100.00

CO4 : To implement the concept of inheritance and interfaces



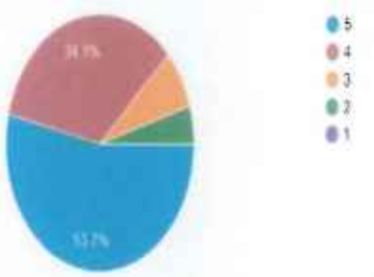
Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	1	2.44
3- Moderately	2	4.88
4- Mostly	18	43.90
5- Definitely	20	48.78
Total	41	100.00

CO5 : To implement the concept of exception handling and multithreading



Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	12.20
4- Mostly	16	39.02
5- Definitely	20	48.78
Total	41	100.00

CO6 : To develop GUI based application



Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	2	4.88
3- Moderately	3	7.32
4- Mostly	14	34.15
5- Definitely	22	53.66
Total	41	100.00

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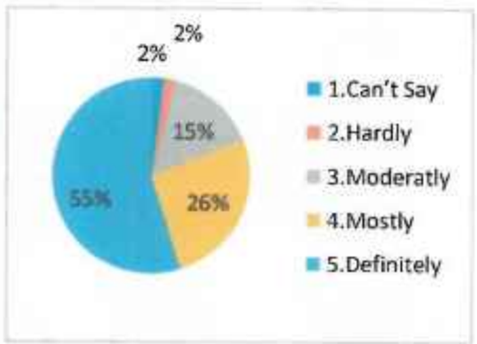
Kharghar, Navi Mumbai - 410 210.

Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: EM-III

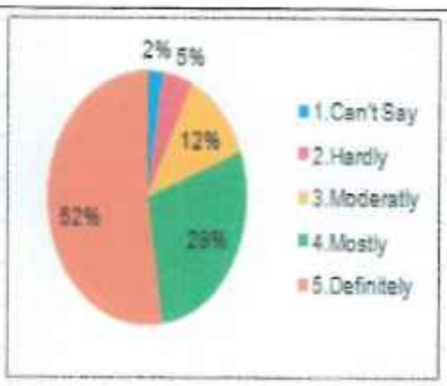
CO1- Understand the concept of Laplace transform and its application to solve the real integrals in engineering problems.

Score	No.Of	Percentage
1.Can't Say	1	2
2.Hardly	1	2
3.Moderatly	6	15
4.Mostly	11	26
5.Definitely	23	55
Total	42	100



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

Score	No.Of Studen	Percentage
1.Can't Say	1	2
2.Hardly	2	5
3.Moderatly	5	13
4.Mostly	12	28
5.Definitely	22	52
Total	42	100



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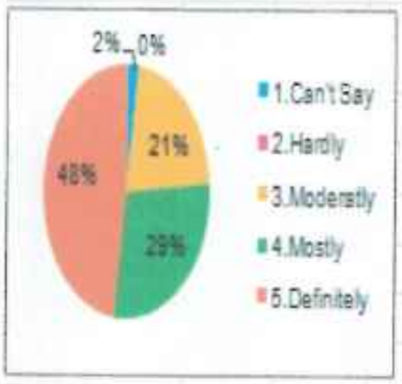
Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: EM-III

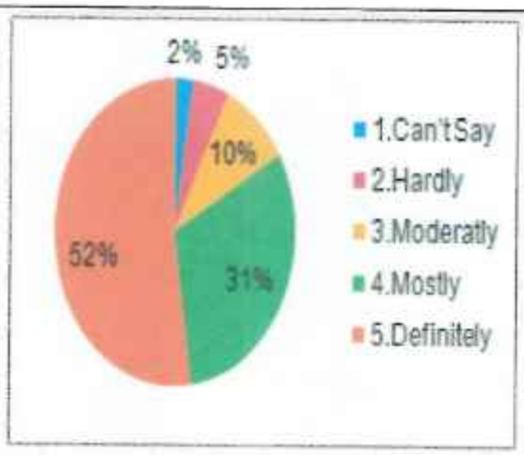
CO3 - Expand the periodic function by using the Fourier series for real-life problems and complex engineering problems.

Score	No.Of Studen	Percentage
1.Can't Say	1	2
2.Hardly	0	0
3.Moderatly	9	21
4.Mostly	12	29
5.Definitely	20	48
Total	42	100



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

Score	No.Of Student	Percentage
1.Can't Say	1	2
2.Hardly	2	5
3.Moderatly	4	10
4.Mostly	13	31
5.Definitely	22	52
Total	42	100



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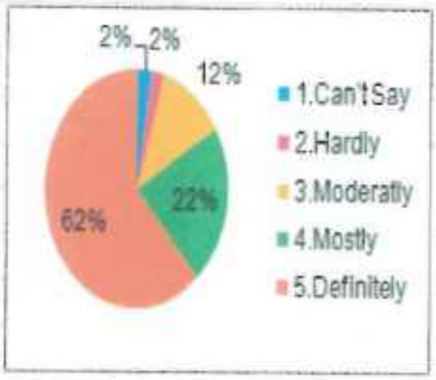
Department of computer Engineering
Academic Year: 2023-24
Course Exit Analysis Report (SEM III)
Subject: EM-III

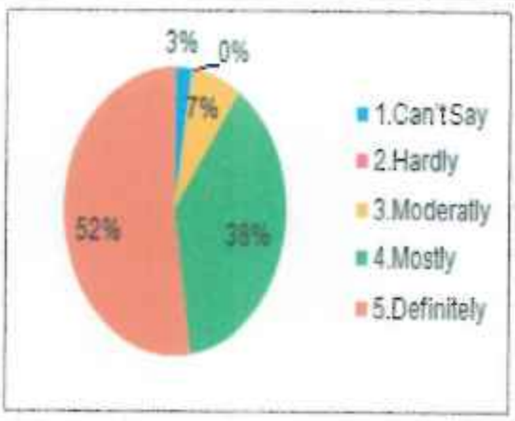
CO5 - Apply the concept of Correlation and Regression to the engineering problems in data science, machine learning, and AI.

Score	No.Of Student	Percentage
1.Can't Say	1	2
2.Hardly	1	2
3.Moderatly	5	12
4.Mostly	9	22
5.Definitely	26	62
Total	42	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	1	3
2.Hardly	0	0
3.Moderatly	3	7
4.Mostly	16	38
5.Definitely	22	52
Total	42	100



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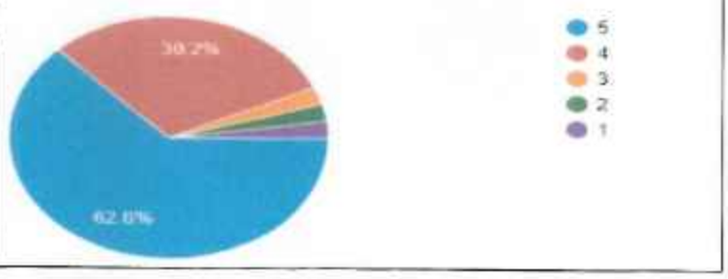
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM III)
Subject: Mini Project

CO1: To understand problems and use knowledge and skills to interpret societal/research problems in a group.
43 responses

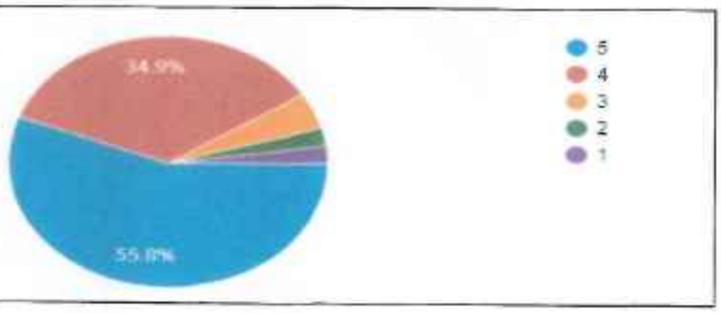
Score	No.of Stude	Percentage
1-Can't say	1	2.4
2-Hardly	1	2.3
3-Moderately	1	2.3
4-Mostly	13	30.2
5-Definitely	27	62.8
Total	43	100



CO2: To build interpersonal skills to work as member of a group or leader.

43 responses

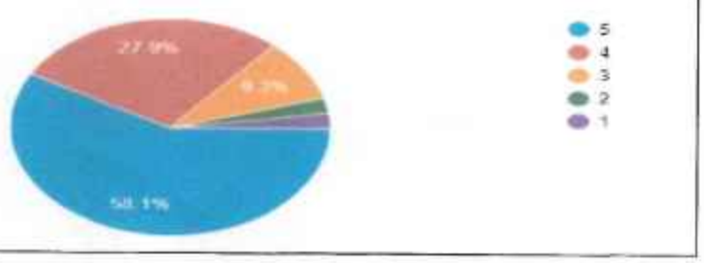
Score	No.of Stude	Percentage
1-Can't say	1	2.4
2-Hardly	1	2.3
3-Moderately	4	9.3
4-Mostly	12	27.9
5-Definitely	25	58.1
Total	43	100



CO3: To design the proper inference through theoretical/experimental/simulation and illustrate the impact of solution in social, environmental context for sustainable development.

43 responses

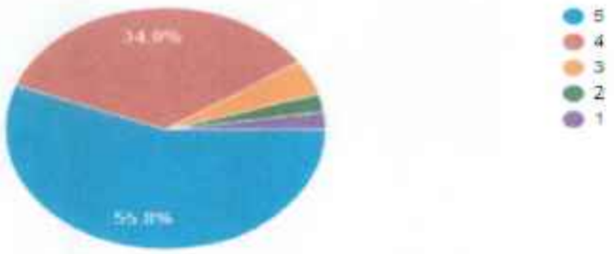
Score	No.of Stude	Percentage
1-Can't say	1	2.4
2-Hardly	1	2.3
3-Moderately	4	9.3
4-Mostly	12	27.9
5-Definitely	25	58.1
Total	43	100



CO4: To apply standard norms of engineering practices.

43 responses

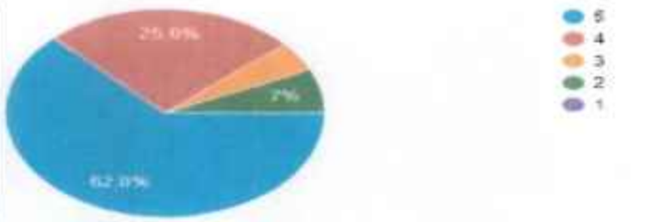
Score	No.of Stude	Percentage
1-Can't say	1	2.4
2-Hardly	1	2.3
3-Moderately	2	4.6
4-Mostly	15	34.9
5-Definitely	24	55.8
Total	43	100



CO5: To develop in written and oral communication.

43 responses

Score	No.of Stude	Percentage
1-Can't say	1	2.4
2-Hardly	3	4.7
3-Moderately	2	4.7
4-Mostly	11	25.4
5-Definitely	27	62.8
Total	44	100



CO6: To apply project management principles and capabilities of self-learning in a group for a lifelong learning.

43 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	1	2.3
3-Moderately	1	2.3
4-Mostly	15	34.9
5-Definitely	26	60.5
Total	43	100

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Department of Computer Engineering
Action taken based on feedback from students (CO & PO)
Academic Year: 2023-24 (ODD)

Summary of feedback-Semester 5:

Feedbacks collected through course exit forms were analyzed and necessary actions which are useful for students were planned and conducted. Abstract of suggestions obtained from the stakeholders to enhance the employability of the student are discussed below.

- More practice is needed for Theoretical Computer Science.
- Need practical approach for IP.
- Exposure to Java and Data Structure using Java for mini projects and placements.

Action Taken:

Based on suggestions, the Action taken is mentioned below.

Sr.no	Subject	Faculty name	Feedback/suggestions	Action Taken	Date
1	IP	Dr. Anjali Dadhich	Practical approach for the subject is required as it is theory subject	Queries related to practical are solved	30/11/23
2	Mini Project and placement	Prof. Dashrath Magar	Basic and advanced Java is required for mini projects and placement.	Training program on Java is conducted by Prof. Dashrath Magar.	11/12/23 To 24/12/23
3	Mini Project and placement	Dr. Ritu Jain	Knowledge of Data Structure using Java is required for mini projects and placement.	Training program on Data Structure using Java is conducted by Dr. Ritu Jain	11/12/23 To 17/12/23

3	TCS	Prof. Hemlata Gosavi	Practice question papers and Extra numericals are required for practice	Required material is provided	23/11/23

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Department of Computer Engineering
Academic Year: 2023-2024(ODD SEM)
Course Exit Analysis Report (SemV)

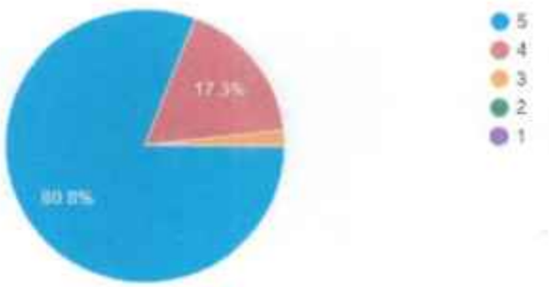
Subject: Software Engineering

Subject In-charge: Prof. Namrata Arya

52 Responses

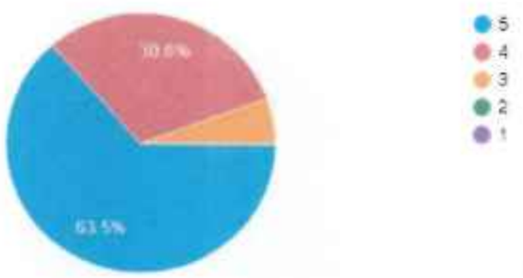
CO1: To understand and demonstrate basic knowledge in software engineering.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



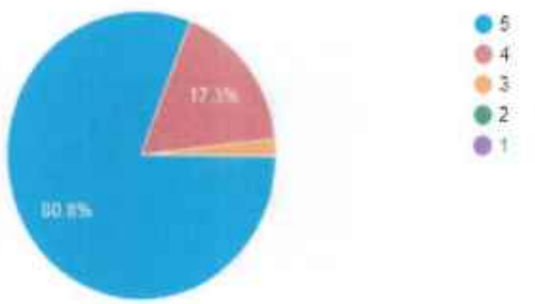
CO2: To Identify requirements, and access the process models.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.7
4.Mostly	16	30.8
5.Definitely	33	63.5
Total	**52**	**100**



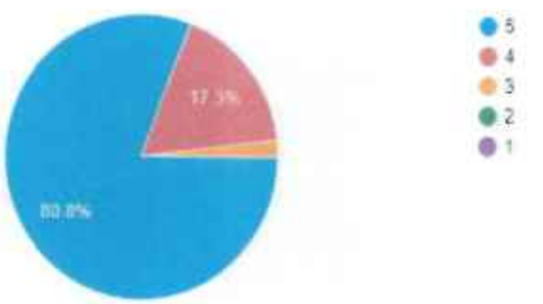
CO3 :To Plan, schedule and track the progress of the projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



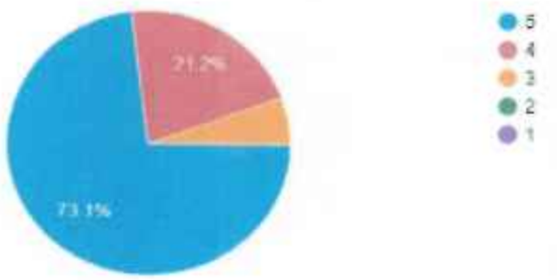
CO4 :To Design and develop the software projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



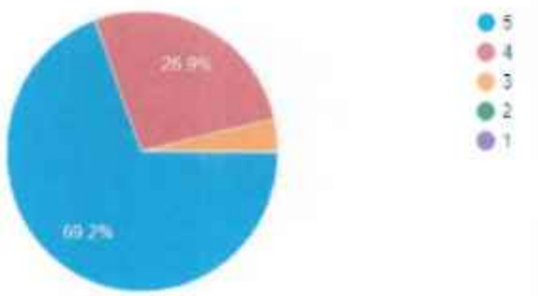
CO5: To Identify risks; manage the change to assure quality in software projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.8
4.Mostly	11	21.2
5.Definitely	38	73.1
Total	**52**	**100**



CO6 :To apply testing principles on software project and understand the maintenance concepts.

Score	No. Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	02	3.8
4.Mostly	14	26.9
5.Definitely	36	69.2
Total	**52**	**100**



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DEPARTMENT OF COMPUTER ENGINEERING

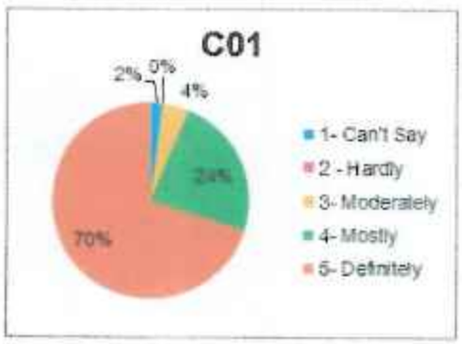
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM V)

SUBJECT: Theoretical Computer Science

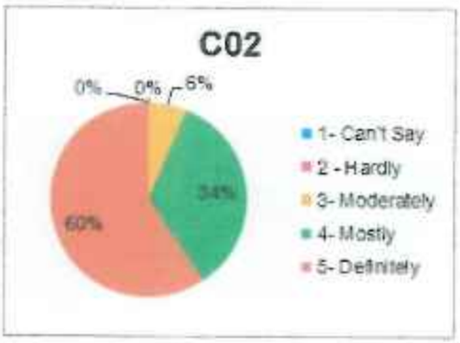
CO1: Recognize concepts in theory of computation and differentiate between deterministic and nondeterministic automata

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	2.13
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	11	23.40
5- Definitely	33	70.21
Total	47	100.00



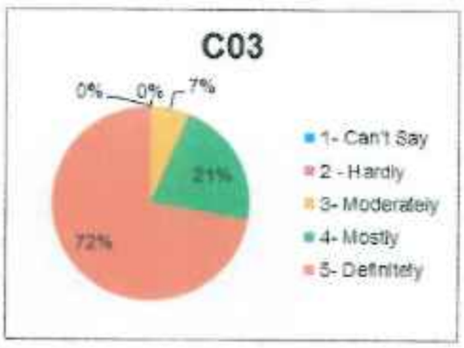
CO2: Build concepts of theoretical design of deterministic and non-deterministic finite automata.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	6.38
4- Mostly	16	34.04
5- Definitely	28	59.57
Total	47	100.00



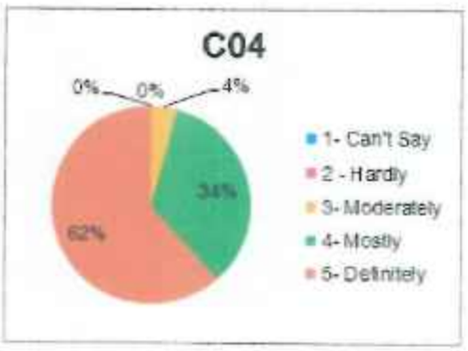
CO3: Acquire conceptual understanding of fundamentals of grammars and languages

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	6.38
4- Mostly	10	21.28
5- Definitely	34	72.34
Total	47	100.00



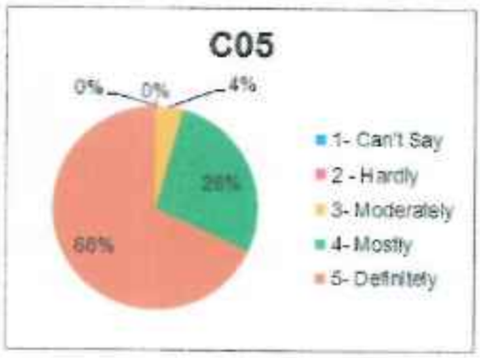
CO4: Express the concept of theoretical design of push down automata to recognize the language

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	16	34.04
5- Definitely	29	61.70
Total	47	100.00



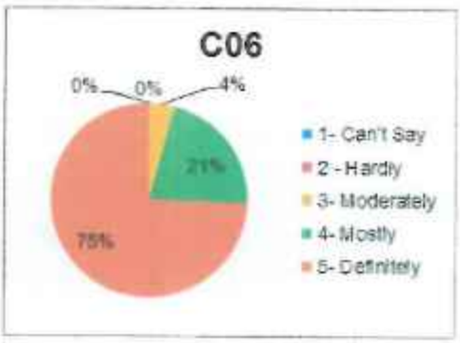
CO5: Develop understanding of different types of Turing machines and applications

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	13	27.66
5- Definitely	32	68.09
Total	47	100.00



CO6: Discuss the concept of Undecidability.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	10	21.28
5- Definitely	35	74.47
Total	47	100.00



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DEPARTMENT OF COMPUTER ENGINEERING

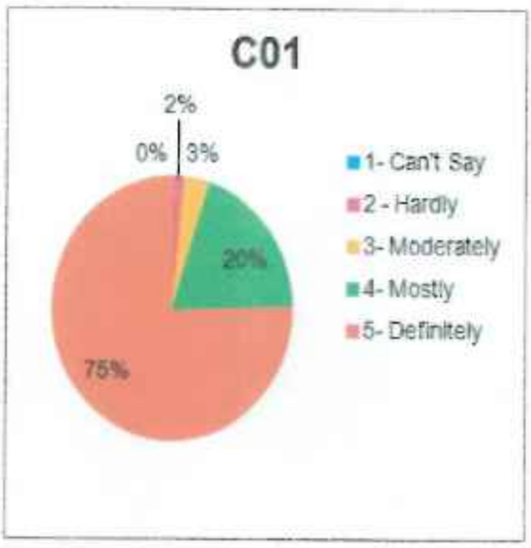
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM V)

SUBJECT: DATA WAREHOUSING & MINING LAB

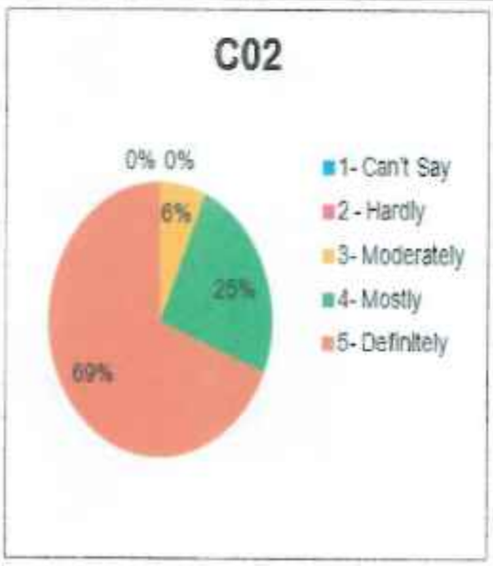
CO1: Design data warehouse with dimensional modelling and Determine different OLAP operations.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.64
3- Moderately	2	3.28
4- Mostly	12	19.67
5- Definitely	46	75.41
Total	61	100.00



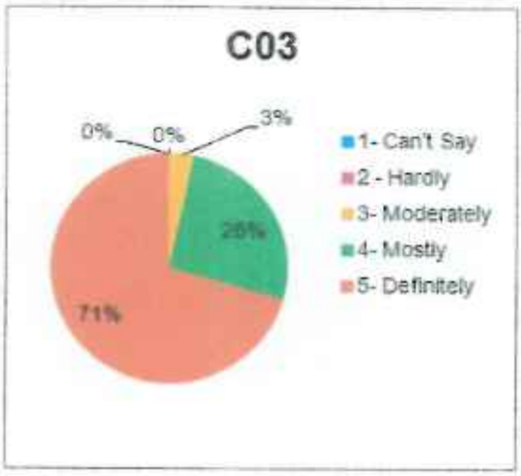
CO2: Determine data pre-processing and data exploration using data mining tool (WEKA/R TOOL).

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	6.56
4- Mostly	15	24.59
5- Definitely	42	68.85
Total	61	100.00



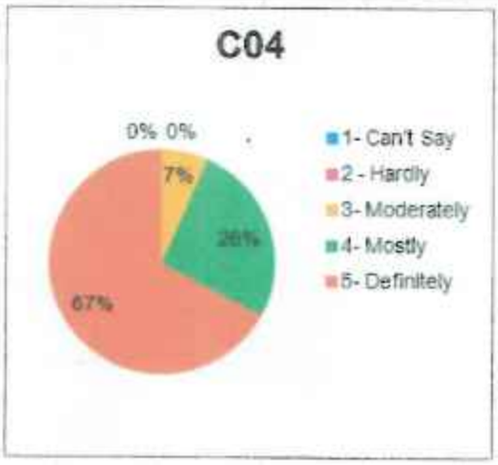
CO3: Classify appropriate data mining algorithm

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.28
4- Mostly	16	26.23
5- Definitely	43	70.49
Total	61	100.00



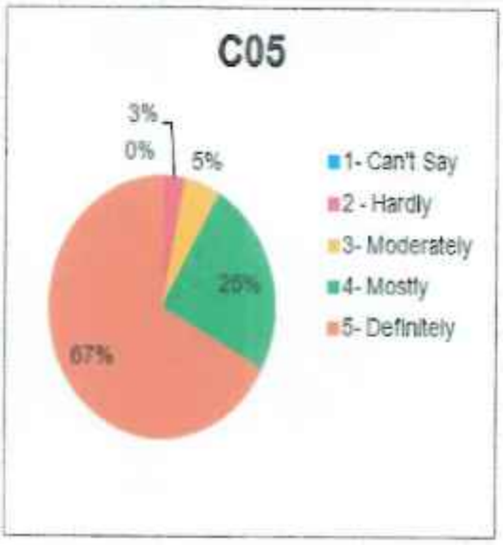
CO4: Measure and generate clustering algorithms.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	4	6.56
4- Mostly	16	26.23
5- Definitely	41	67.21
Total	61	100.00



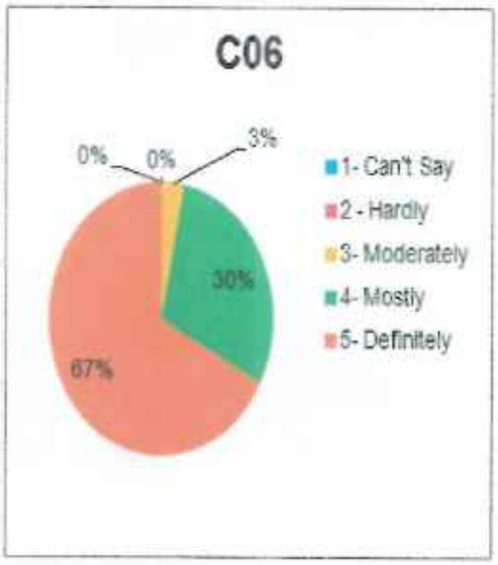
CO5: Identify and solve associate rule mining technique for real time applications.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	2	3.28
3- Moderately	3	4.92
4- Mostly	15	24.59
5- Definitely	41	67.21
Total	61	100.00



CO6: Explain and use the concept of web mining.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.28
4- Mostly	18	29.51
5- Definitely	41	67.21
Total	61	100.00



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DEPARTMENT OF COMPUTER ENGINEERING

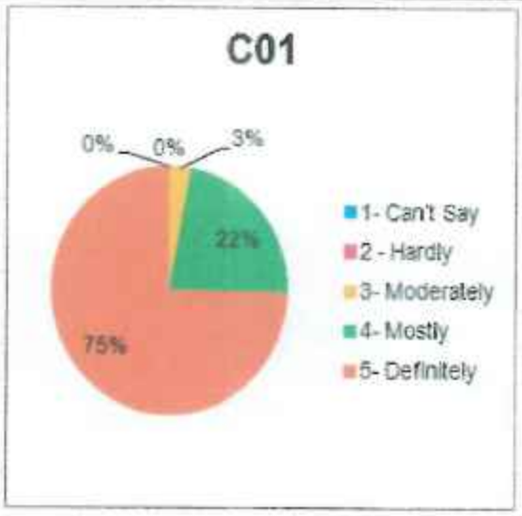
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM V)

SUBJECT: DATA WAREHOUSING & MINING

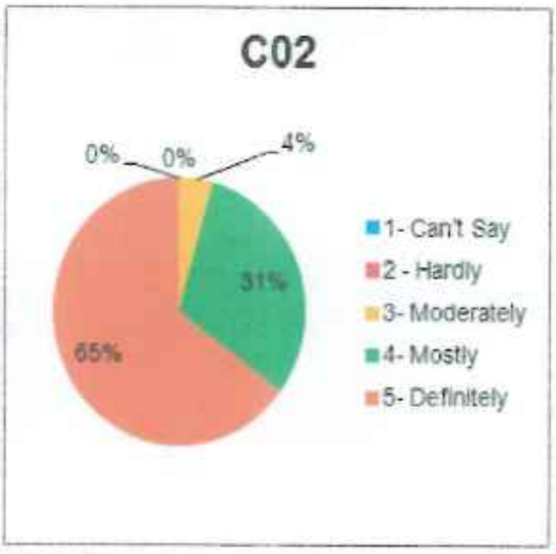
CO1: Understand, design data warehouse with dimensional modelling and analyze different OLAP operations.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	2.82
4- Mostly	16	22.54
5- Definitely	53	74.65
Total	71	100.00



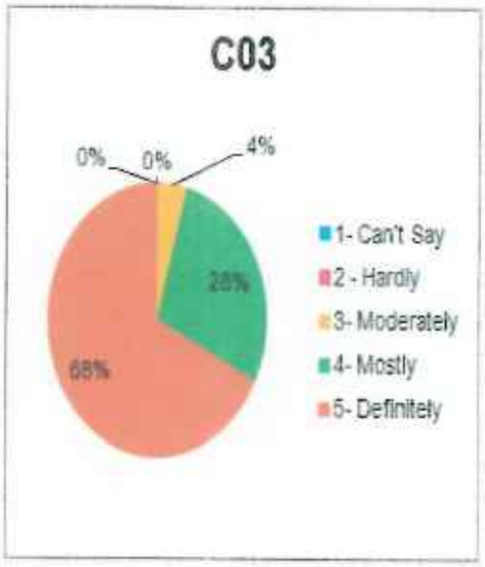
CO2: Understand data mining principles and use data pre-processing and data exploration.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	4.23
4- Mostly	22	30.99
5- Definitely	46	64.79
Total	71	100.00



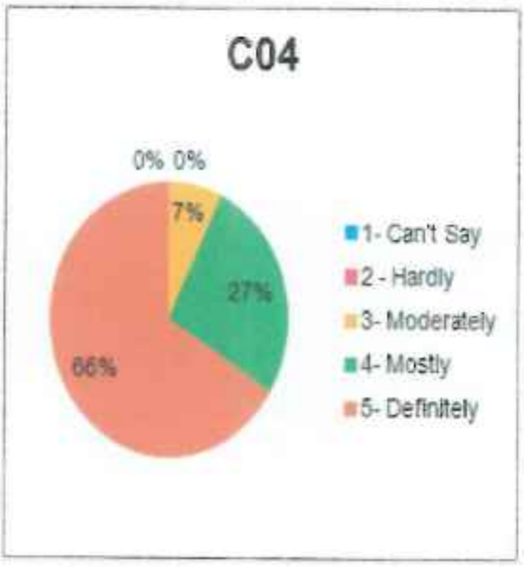
CO3: Classify and evaluate appropriate data mining algorithm

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	4.23
4- Mostly	20	28.17
5- Definitely	48	67.61
Total	71	100.00



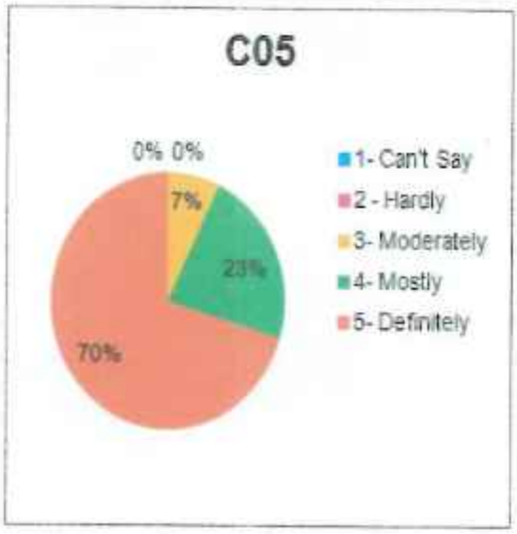
CO4: Analyze and evaluate clustering technique

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	7.04
4- Mostly	19	26.76
5- Definitely	47	66.20
Total	71	100.00



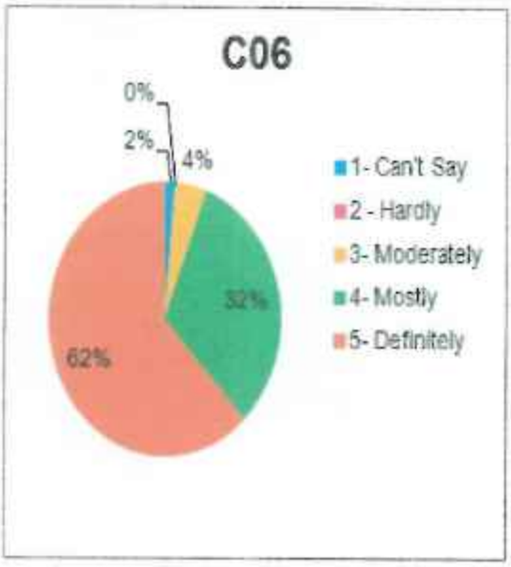
CO5: Identify and apply associate rule mining technique for real time applications.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	5	7.04
4- Mostly	16	22.54
5- Definitely	50	70.42
Total	71	100.00



CO6: Understand and apply the concept of web mining

Score	No. of Students	Percentage (%)
1- Can't Say	1	1.41
2 - Hardly	0	0.00
3- Moderately	3	4.23
4- Mostly	23	32.39
5- Definitely	44	61.97
Total	71	100.00



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Department of Computer Engineering

Academic Year: 2023-2024(ODD SEM)

Course Exit Analysis Report (SemV)

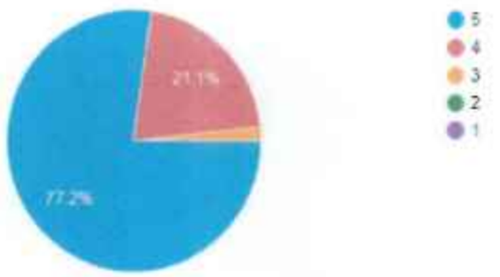
Subject: Software Engineering (PR)

Subject In-charge: Prof. Namrata Arya

57 Responses

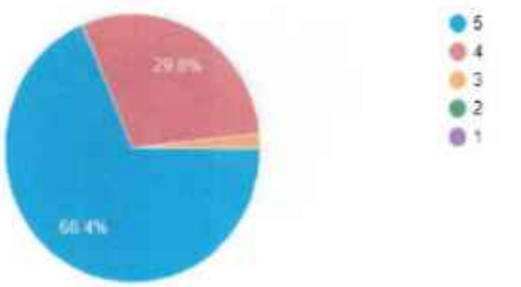
CO1: To understand Software Engineering and analyze Process Models.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.8
4.Mostly	12	21.1
5.Definitely	44	77.2
Total	**57**	**100**



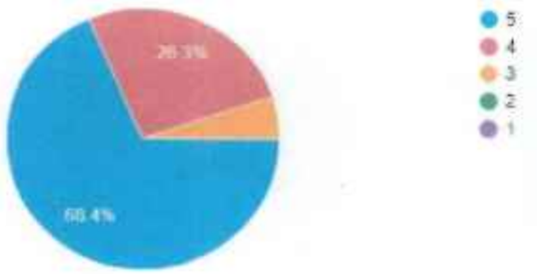
CO2: To Identify, Analyze Requirements in Software and develop Software Requirement Specification (SRS) document.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.8
4.Mostly	17	29.8
5.Definitely	39	68.4
Total	**57**	**100**



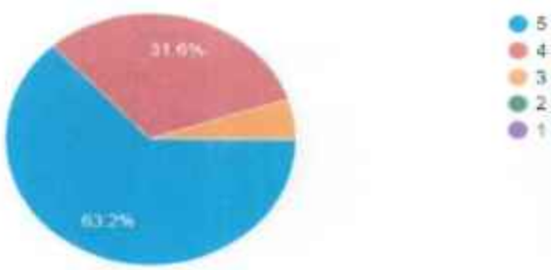
CO3 :. To classify and execute the process of the project using project estimation techniques and tracking and scheduling the project .

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	15	26.3
5.Definitely	39	68.4
Total	**57**	**100**



CO4 : To Design of Software Project using basic Principles and concepts.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	18	31.6
5.Definitely	63.2	63.2
Total	**57**	**100**

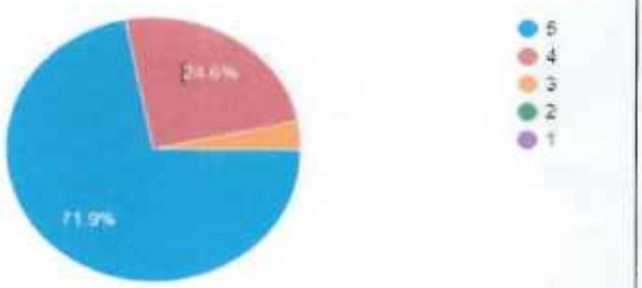


CO5: To Design of Software Project using basic Principles and concepts.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	15	26.3
5.Definitely	39	68.4
Total	**57**	**100**

CO6: To Identify Risk in software to assure Quality in software project.

Score	No. Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	02	3.5
4.Mostly	14	24.6
5.Definitely	41	71.9
Total	**57**	**100**



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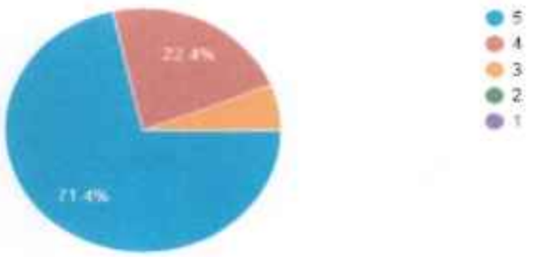
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM V)
Subject: IP

CO1: To get familiar with the basics of Internet Programming.

49 responses

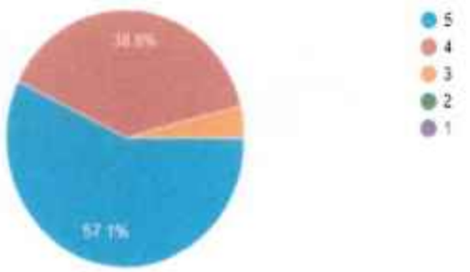
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6.1
4-Mostly	11	22.4
5-Definitely	35	71.5
Total	49	100



CO2 : To acquire knowledge and skills for creation of web site considering both client and serverside programming

49 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	4.1
4-Mostly	19	38.8
5-Definitely	28	57.1
Total	49	100



CO3 : To gain ability to develop responsive web applications and explore different web extensions and web services standards

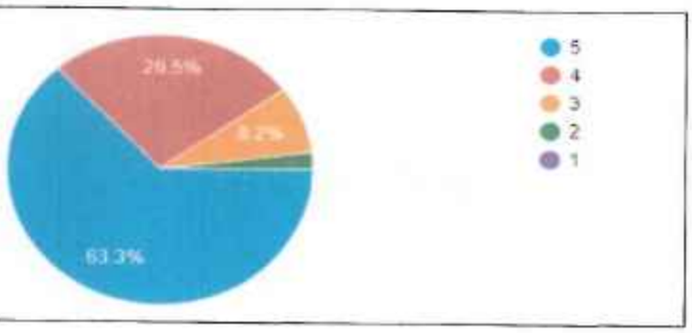
49 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	8.2
4-Mostly	15	30.6
5-Definitely	30	61.2
Total	49	100

CO4 : To learn characteristics of RIA and React Js

49 responses

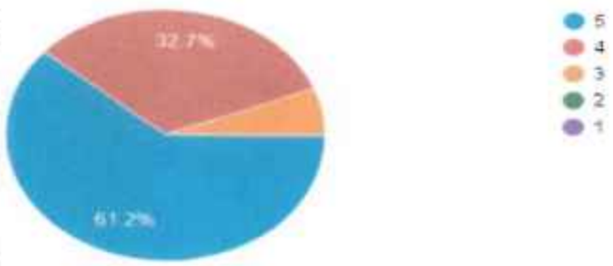
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	1	2
3-Moderately	4	8.2
4-Mostly	13	26.5
5-Definitely	31	63.3
Total	49	100



CO5 : demonstrate and differentiate various Web Application using PHP

49 responses

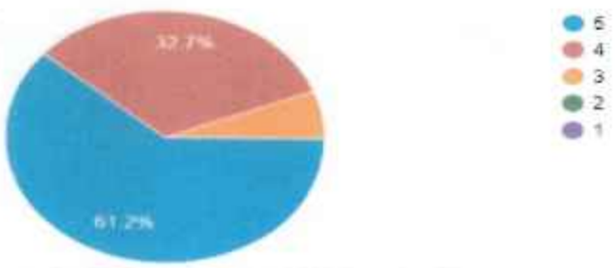
Score	No.of Studer	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6.1
4-Mostly	16	32.7
5-Definitely	30	61.2
Total	49	100



CO6 : To Demonstrate web application using Reactive Js.

49 responses

Score	No.of Studer	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6.1
4-Mostly	16	32.7
5-Definitely	30	61.2
Total	49	100



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Department of Computer Engineering

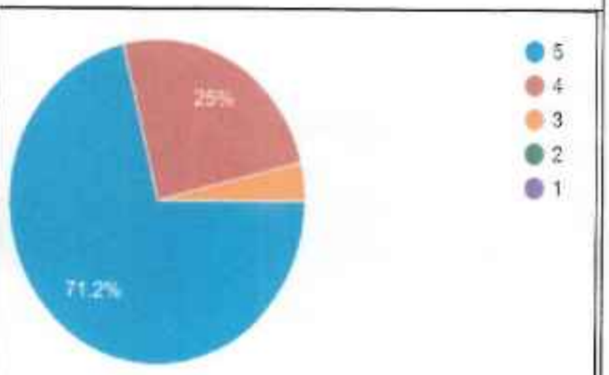
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM V)

Subject: Computer Network

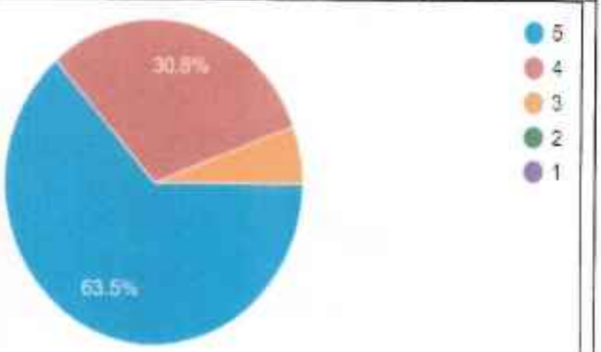
CO1: Apply the knowledge of fundamentals of data communication to identify the differences between ISO - OSI model, TCP/IP model and connection oriented protocol.

Score	No. of Students	Percentage (%)
1-Can't say	0	0.0
2- Hardly	0	0.0
3- Moderately	2	3.8
4- Mostly	13	25.0
5- Definitely	37	71.2
Grand Total	52	100%



CO2: Apply the knowledge of data communication fundamentals to identify & analyze different types of media i.e. guided, unguided used at physical layer.

Score	No. of Students	Percentage (%)
1-Can't say	0	0.00
2- Hardly	0	0.00
3- Moderately	3	5.8
4- Mostly	16	30.8
5- Definitely	33	63.8
Grand Total	52	100%



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Department of Computer Engineering

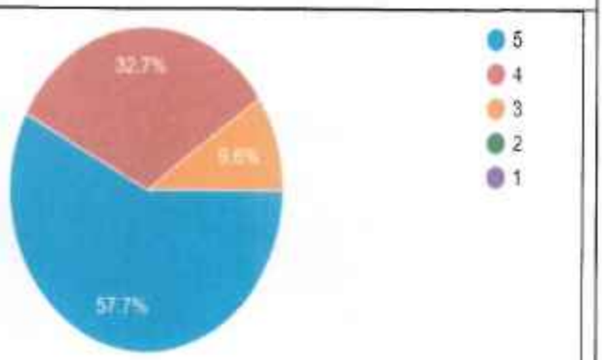
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM V)

Subject: Computer Network

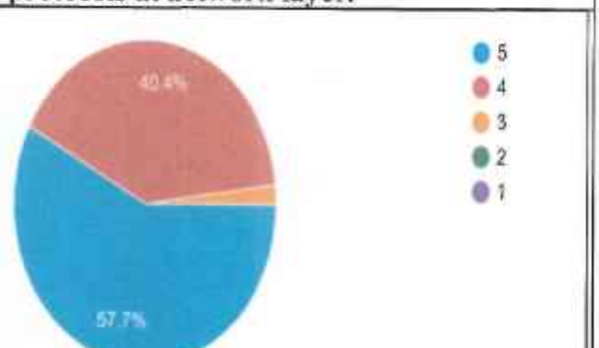
CO3 : Apply the knowledge of different protocols used at data link layer to investigate appropriate protocol for system. Identify and analyze the differences in protocols.

Score	No. of Students	Percentage (%)
1-Can't say	0	0.00
2- Hardly	1	1.32
3- Moderately	5	9.6
4- Mostly	17	32.7
5- Definitely	30	57.7
Grand Total	**52**	100%



CO4 : Apply appropriate concepts of subnetting / supernetting of IP addressing. Analyze various routing algorithms and protocols at network layer.

Score	No. of Students	Percentage (%)
1-Can't say	0	0.00
2- Hardly	0	0.0
3- Moderately	1	1.9
4- Mostly	21	40.4
5- Definitely	30	57.7
Grand Total	**52**	100%



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Department of Computer Engineering

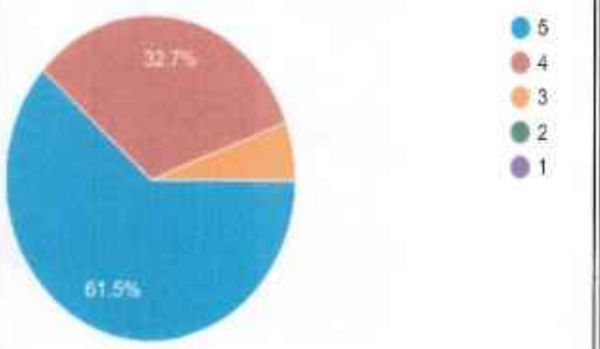
Academic Year: 2023-24 (ODD)

Course Exit Analysis Report (SEM V)

Subject: Computer Network

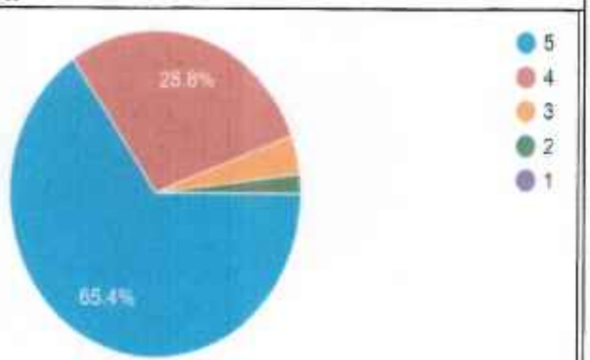
CO5 : Classify and compare transport layer protocols. Understand connection management. Investigate congestion and apply appropriate techniques.

Score	No. of Students	Percentage (%)
1-Can't say	0	0
2- Hardly	0	0
3- Moderately	3	5.8
4- Mostly	17	32.7
5- Definitely	32	61.5
Grand Total	52	100%



CO6 : Identify the protocols used at application layer. Analyze the protocols in terms of organization need and its impact.

Score	No. of Students	Percentage (%)
1-Can't say	0	0.00
2- Hardly	1	1.9
3- Moderately	2	3.8
4- Mostly	15	28.8
5- Definitely	34	65.4
Grand Total	52	100%



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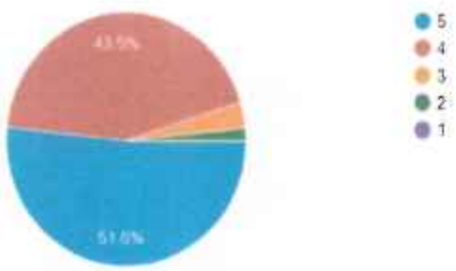
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM V)
Subject: CN LAB

CO1 Identify different types of cables, connector and devices used in networking.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	0	0.00
4- Mostly	20	32.26
5- Definitely	42	67.74
Total	62	100.00

CO2 Identify different network commands in Linux. Apply it to find solution for different network problems.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	1	1.61
3- Moderately	2	3.23
4- Mostly	27	43.55
5- Definitely	32	51.61
Total	62	100.00

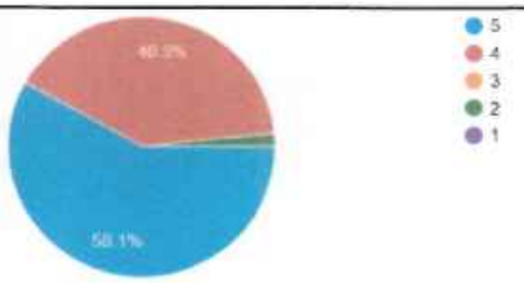


CO3 Apply the knowledge to design a network and configure it for IP addressing, subnetting. Analyse its results

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	4.84
4- Mostly	18	29.03
5- Definitely	41	66.13
Total	62	100.00

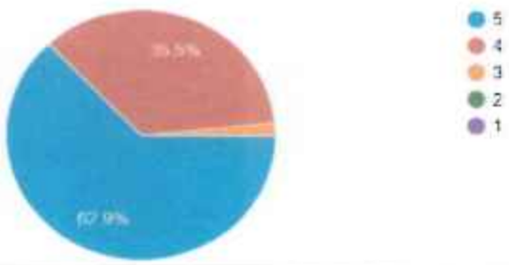
CO4 Apply knowledge to understand the operation of TCP/IP layers using wireshark.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	1.61
4- Mostly	22	35.48
5- Definitely	39	62.90
Total	62	100.00



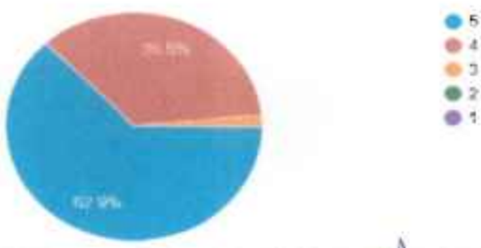
CO5 Apply the knowledge of working of TCP and UDP.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	1.61
4- Mostly	22	35.48
5- Definitely	39	62.90
Total	62	100.00



CO6 Apply appropriate technique for routing in different network system and analyse the results

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	1.61
4- Mostly	22	35.48
5- Definitely	39	62.90
Total	62	100.00



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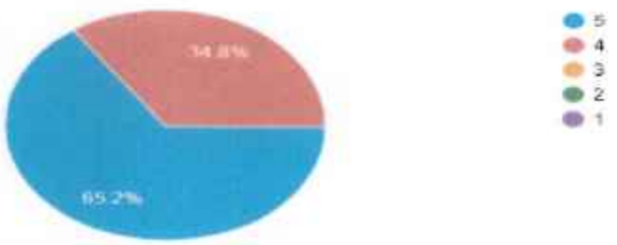
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM V)
Subject: MINI PROJECT

CO1:To define problem statement with objective, scope & identify methodologies/algorithms to solve problem

46 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	0	0
4-Mostly	16	34.8
5-Definitely	30	65.2
Total	46	100



CO2:To Verify & validate results.

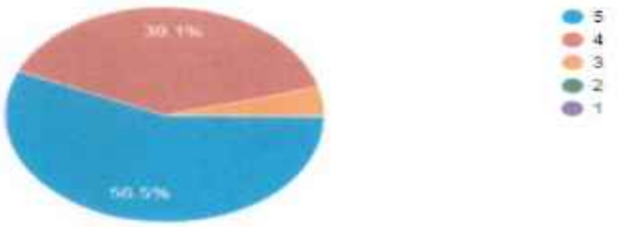
46 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	8.7
4-Mostly	14	30.4
5-Definitely	28	60.9
Total	46	100

CO3 :To identify Impact of engineering products & understand relationship between the technical, socio-economics & environmental dimensions of sustainability's.

46 responses

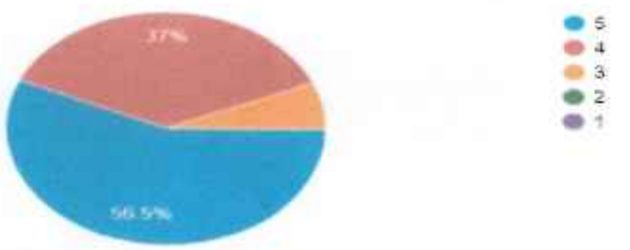
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	4.4
4-Mostly	18	39.1
5-Definitely	26	56.5
Total	46	100



CO4 : To use project management tools to schedule an engineering project, so it is completed on time & on budget & implement norms of practice.

46 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	3	6.5
4-Mostly	17	37
5-Definitely	26	56.5
Total	46	100



CO5 : To produce clear, well structured & well supported written engineering document & use variety of media effectively to convey a message in a docun presentation.

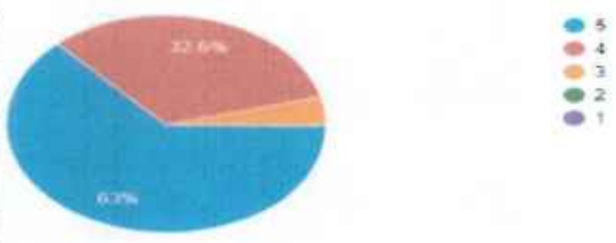
46 responses

Score	No.of Studer	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	4.3
4-Mostly	17	37
5-Definitely	27	58.7
Total	46	100

CO6 : To demonstrate effective communication, problem-solving, conflict resolution & leadership skill.

46 responses

Score	No.of Studer	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	4.4
4-Mostly	15	32.6
5-Definitely	29	63
Total	46	100



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Department of Computer Engineering

Academic Year: 2023-2024(ODD SEM)

Course Exit Analysis Report (SemV)

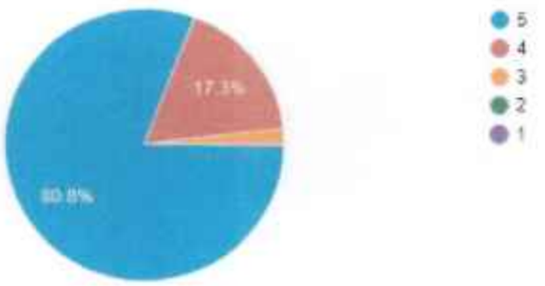
Subject: Software Engineering

Subject In-charge: Prof. Namrata Arya

52 Responses

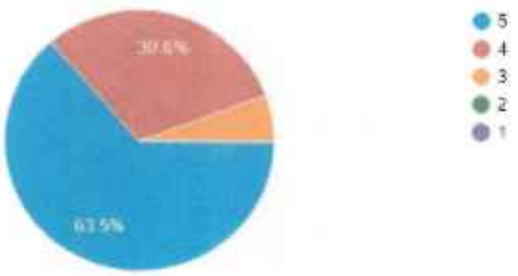
CO1: To understand and demonstrate basic knowledge in software engineering.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



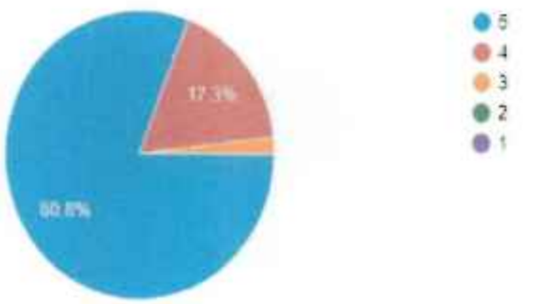
CO2: To Identify requirements, and access the process models.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.7
4.Mostly	16	30.8
5.Definitely	33	63.5
Total	**52**	**100**



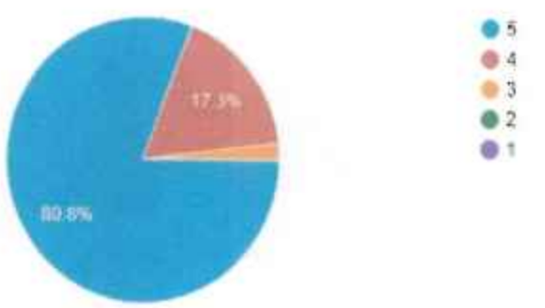
CO3 :To Plan, schedule and track the progress of the projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



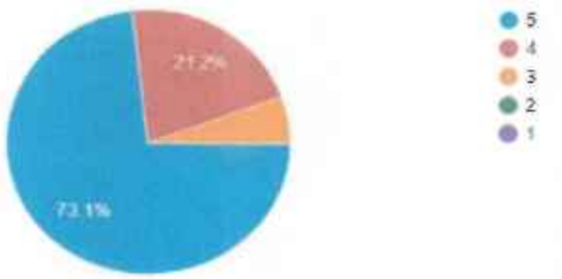
CO4 :To Design and develop the software projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.9
4.Mostly	09	17.3
5.Definitely	42	80.8
Total	**52**	**100**



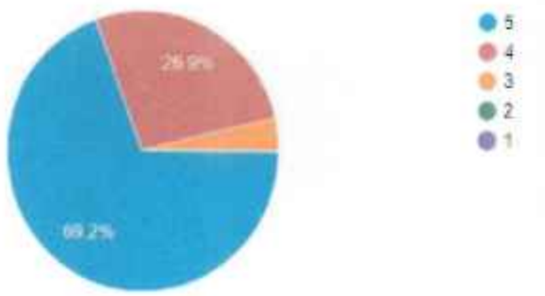
CO5: To Identify risks; manage the change to assure quality in software projects.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.8
4.Mostly	11	21.2
5.Definitely	38	73.1
Total	**52**	**100**



CO6 :To apply testing principles on software project and understand the maintenance concepts.

Score	No. Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	02	3.8
4.Mostly	14	26.9
5.Definitely	36	69.2
Total	**52**	**100**



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Subject In charge

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Department of Computer Engineering

Academic Year: 2023-2024(ODD SEM)

Course Exit Analysis Report (SemV)

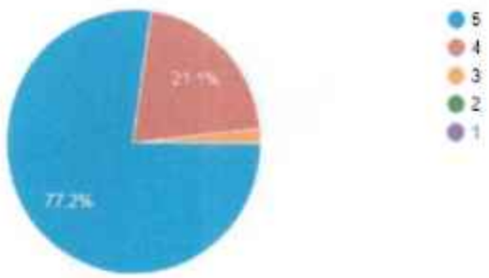
Subject: Software Engineering (PR)

Subject In-charge: Prof. Namrata Arya

57 Responses

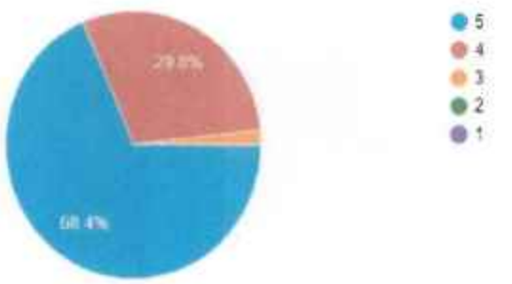
CO1: To understand Software Engineering and analyze Process Models.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.8
4.Mostly	12	21.1
5.Definitely	44	77.2
Total	**57**	**100**



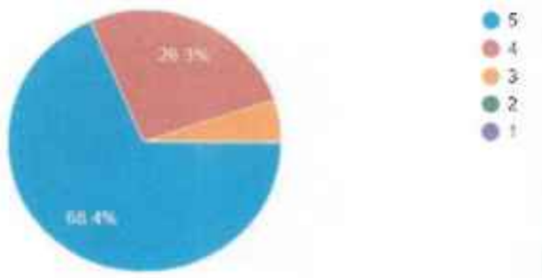
CO2: To Identify, Analyze Requirements in Software and develop Software Requirement Specification (SRS) document.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	01	1.8
4.Mostly	17	29.8
5.Definitely	39	68.4
Total	**57**	**100**



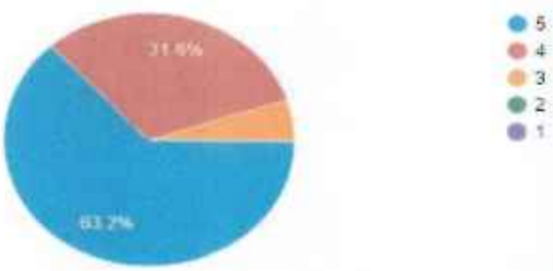
CO3 :. To classify and execute the process of the project using project estimation techniques and tracking and scheduling the project .

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	15	26.3
5.Definitely	39	68.4
Total	**57**	**100**



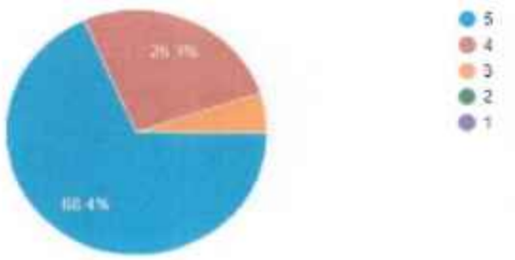
CO4 : To Design of Software Project using basic Principles and concepts.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	18	31.6
5.Definitely	63.2	63.2
Total	**57**	**100**



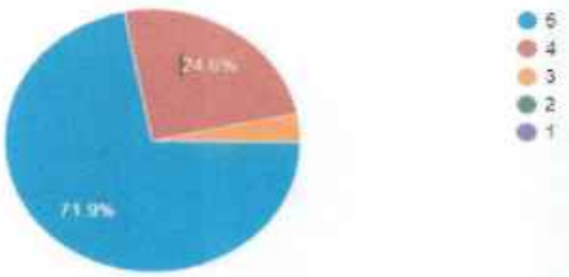
CO5: To Design of Software Project using basic Principles and concepts.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.3
4.Mostly	15	26.3
5.Definitely	39	68.4
Total	**57**	**100**



CO6: To Identify Risk in software to assure Quality in software project.

Score	No. Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	02	3.5
4.Mostly	14	24.6
5.Definitely	41	71.9
Total	**57**	**100**



Head of Department

Subject In charge

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Department of Computer Engineering
Academic Year: 2023-2024(ODD SEM)
Course Exit Analysis Report (SemV)

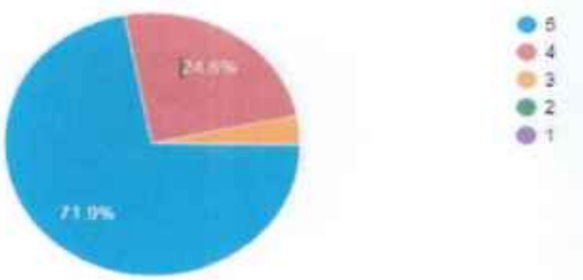
Subject: DLCOA (PR)

Subject In-charge: Dr. Sheetal Bukawar/Namrata Arya

51 Responses

CO1:To understand the basics implementation of gates.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.9
4.Mostly	15	29.4
5.Definitely	33	64.7
Total	**51**	**100**

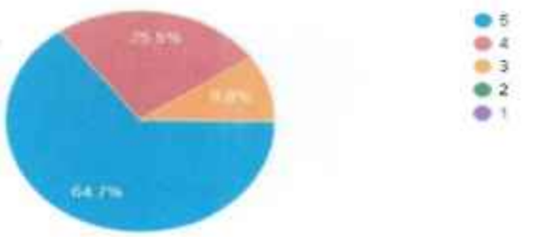


CO2: To understand and implement combinational circuits.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	03	5.9
4.Mostly	21	41.2
5.Definitely	27	52.9
Total	**51**	**100**

CO3: To understand and learn about basics of sequential circuits.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	05	9.8
4.Mostly	13	25.5
5.Definitely	33	64.7
Total	**51**	**100**

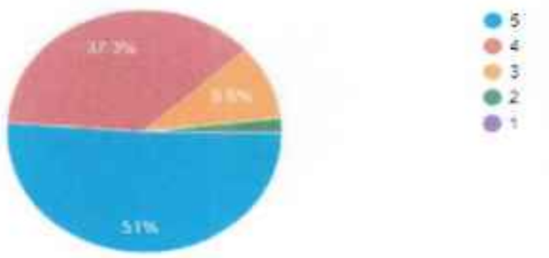


CO4 : To understand and implement arithmetic operations using various algorithms.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	00	0
3.Moderatly	04	7.8
4.Mostly	19	37.3
5.Definitely	28	54.9
Total	**51**	**100**

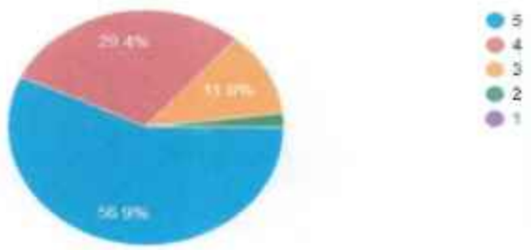
CO5: To understand and implement the processor designing.

Score	No.Of Student	Percentage
1.Can't Say	00	0
2.Hardly	01	2.0
3.Moderatly	05	9.8
4.Mostly	19	37.3
5.Definitely	26	51.0
Total	**51**	**100**



CO6: To understand and implement the operation of memory and caches.

Score	No. Of Student	Percentage
1.Can't Say	00	0
2.Hardly	01	2.0
3.Moderatly	06	11.8
4.Mostly	15	29.4
5.Definitely	29	56.9
Total	**51**	**100**



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Department of Computer Engineering
Action taken based on feedback from students (CO & PO)
Academic Year: 2023-24 (ODD)

Summary of feedback-Semester 7:

Feedbacks collected through course exit forms were analyzed and necessary actions which are useful for students were planned and conducted. The abstract of suggestions obtained from the stakeholders to enhance the employability of the student are discussed below.

- More knowledge for patent and publishing papers in journals
- Need notes on blockchain

Action Taken:

Based on suggestions, the Action taken is mentioned below.

Sr.no	Subject	Faculty Name	Feedback/suggestions	Action Taken	Date
1	Project	Dr. Anjali Dadhich	Knowledge regarding publishing paper and patent is required	Guidance is provided by Dr. Anjali	08/12/23
2	Blockchain	Prof Shatabdi Bhalerao	As the subject is new students required notes and numerical for practice	Content is provided	29/11/23

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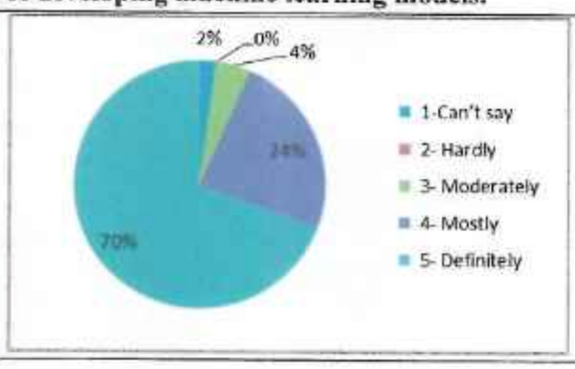
Department of Computer Engineering
Academic Year: 2022-23 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: MACHINE LEARNING

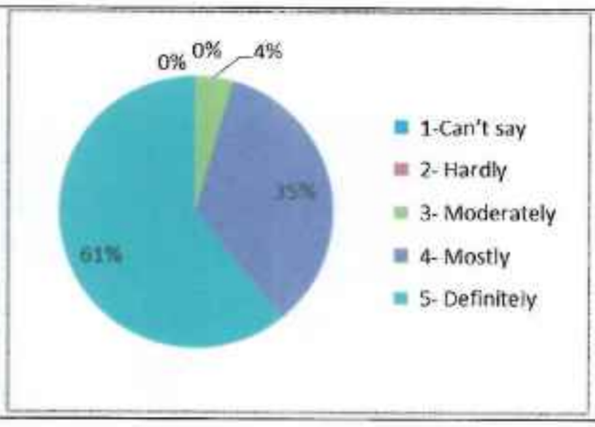
CO1 Illustrate the fundamental knowledge of developing machine learning models.

Score	No.of students	Percentage (%)
1-Can't say	1	2.17%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	11	23.91%
5- Definitely	32	69.57%
Total	46	100.00%



CO2: Select, Apply and evaluate an appropriate supervised machine learning model for the given problem.

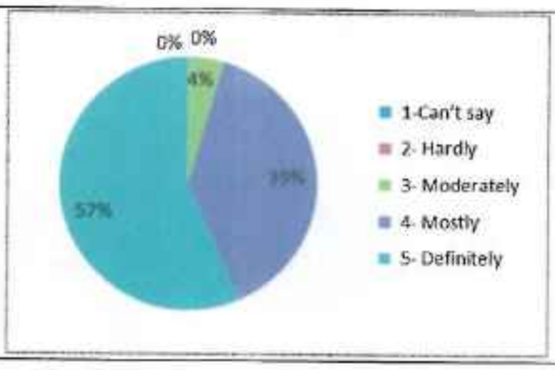
Score	No.of students	Percentage (%)
1-Can't say	0	0.00%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	16	34.78%
5- Definitely	28	60.87%
Total	46	100.00%



Department of Computer Engineering
Academic Year: 2022-23 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: MACHINE LEARNING

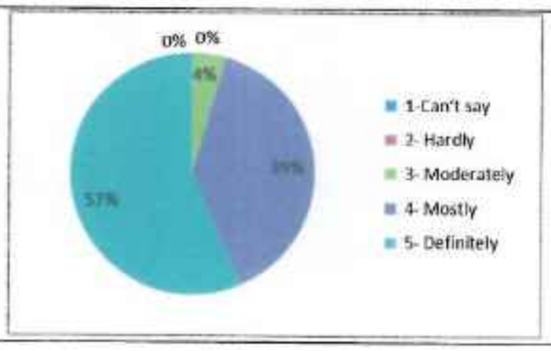
CO3 Demonstrate the Ensemble techniques to combine predictions from different models.

Score	No.of students	Percentage (%)
1-Can't say	0	0.00%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	18	39.13%
5- Definitely	26	56.52%
Total	46	100.00%



CO4 Interpret the concept of Support vector machine.

Score	No.of students	Percentage (%)
1-Can't say	0	0.00%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	18	39.13%
5- Definitely	26	56.52%
Total	46	100.00%



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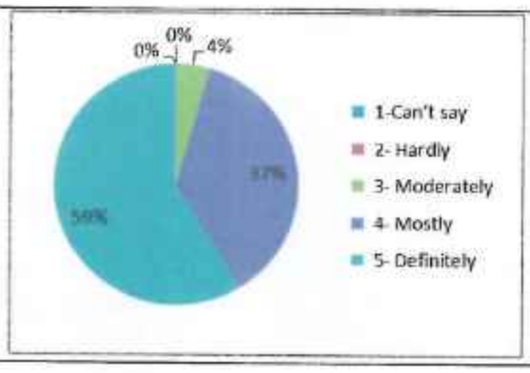
Academic Year: 2022-23 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: MACHINE LEARNING

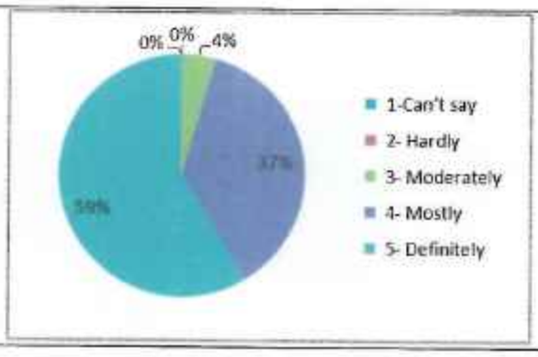
CO5 Select, Apply and Evaluate an appropriate unsupervised machine learning model for the given problem.

Score	No.of students	Percentage (%)
1-Can't say	0	0.00%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	17	36.96%
5- Definitely	27	58.70%
Total	46	100.00%



CO6 Describe and Apply the dimensionality reduction techniques.

Score	No.of students	Percentage (%)
1-Can't say	0	0.00%
2- Hardly	0	0.00%
3- Moderately	2	4.35%
4- Mostly	17	36.96%
5- Definitely	27	58.70%
Total	46	100.00%



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DEPARTMENT OF COMPUTER ENGINEERING

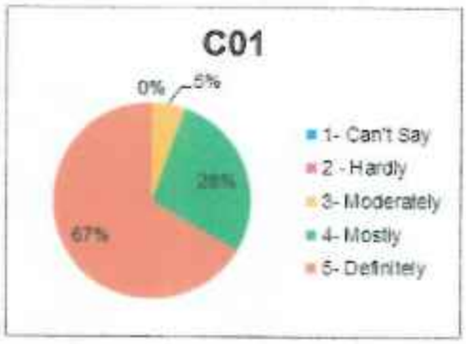
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM VII)

SUBJECT: Machine Learning Lab

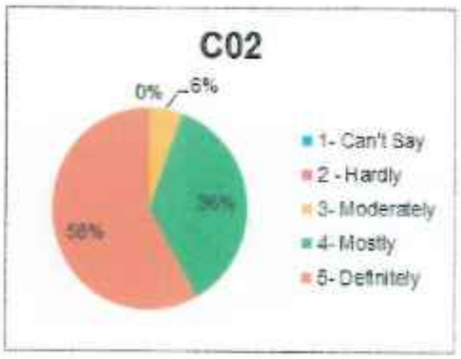
CO1: To introduce the basic concepts and techniques of Machine Learning.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	5.56
4- Mostly	10	27.78
5- Definitely	24	66.67
Total	36	100.00



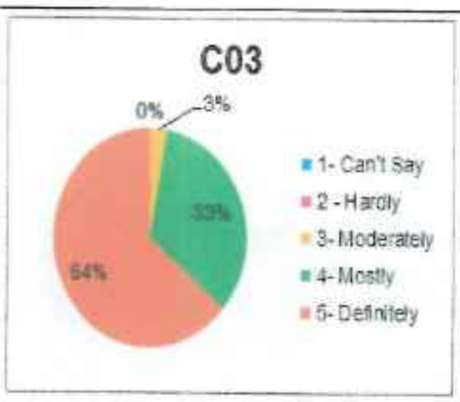
CO2: To acquire in depth understanding of various supervised algorithms.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	5.56
4- Mostly	13	36.11
5- Definitely	21	58.33
Total	36	100.00



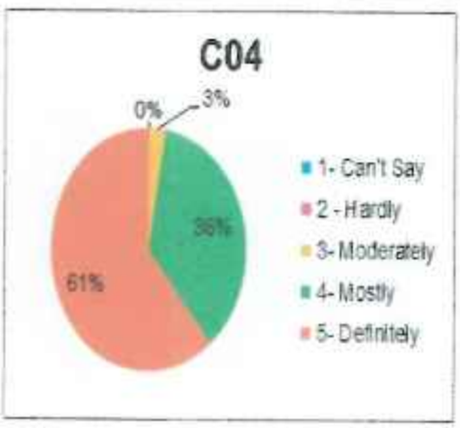
CO3: To be able to apply various ensemble techniques for combining ML models.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.78
4- Mostly	12	33.33
5- Definitely	23	63.89
Total	36	100.00



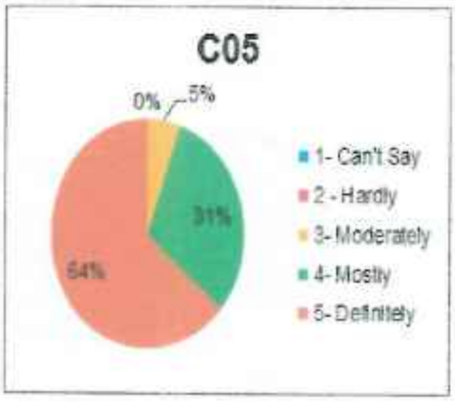
CO4: To be able to apply various ensemble techniques for combining ML models.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.78
4- Mostly	13	36.11
5- Definitely	22	61.11
Total	36	100.00



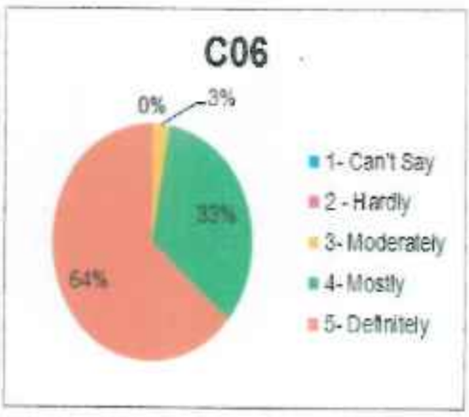
CO5: To introduce the concept of Support vector machine.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	5.56
4- Mostly	11	30.56
5- Definitely	23	63.89
Total	36	100.00



CO6: To demonstrate dimensionality reduction techniques.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.78
4- Mostly	12	33.33
5- Definitely	23	63.89
Total	36	100.00



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DEPARTMENT OF COMPUTER ENGINEERING

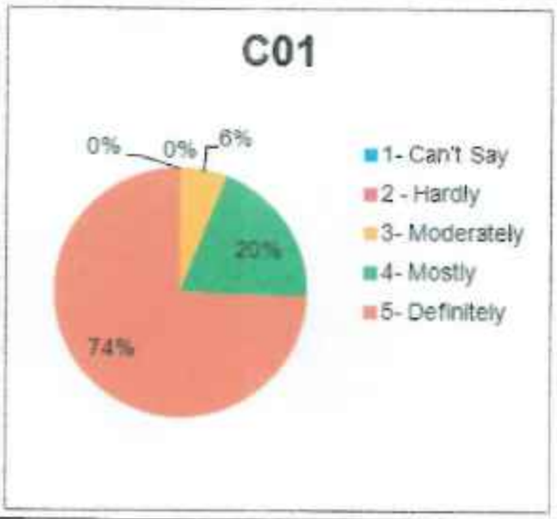
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM VII)

SUBJECT: BlockChain

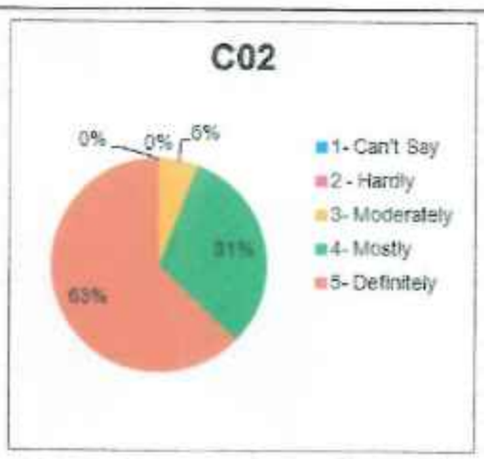
CO1: Understand blockchain concepts.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.88
4- Mostly	10	19.61
5- Definitely	38	74.51
Total	51	100.00



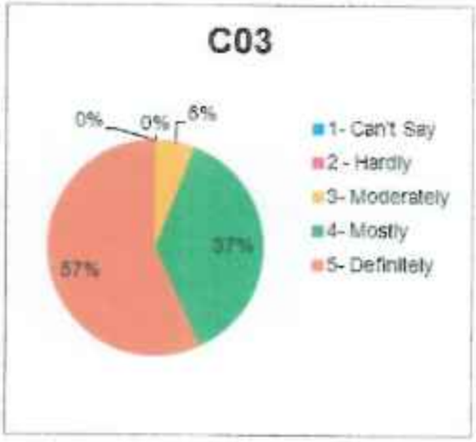
CO2: Understand & Apply cryptographic hash required for blockchain.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.88
4- Mostly	16	31.37
5- Definitely	32	62.75
Total	51	100.00



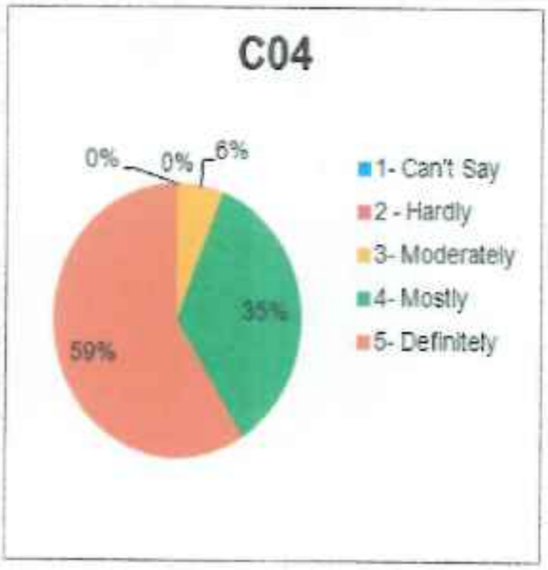
CO3: Apply the concepts of smart contracts for an application.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.88
4- Mostly	19	37.25
5- Definitely	29	56.86
Total	51	100.00



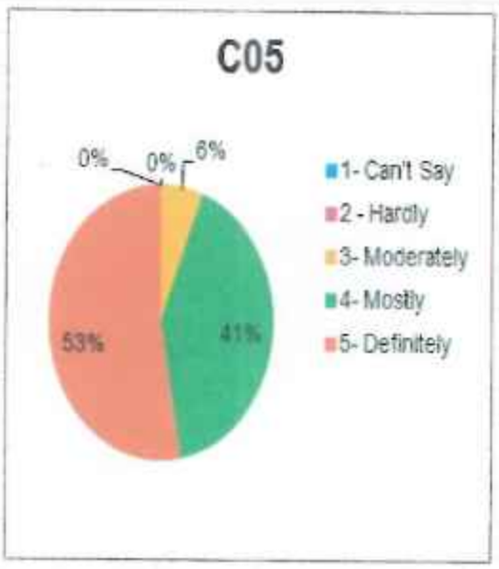
CO4: Design a public blockchain using Ethereum.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.88
4- Mostly	18	35.29
5- Definitely	30	58.82
Total	51	100.00



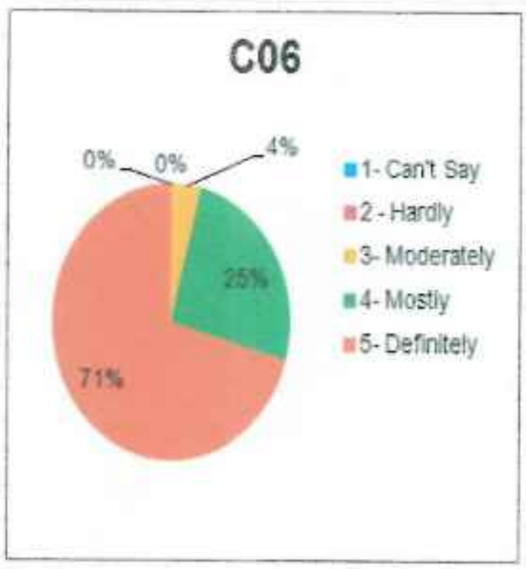
CO5: Design a private blockchain using Hyperledger.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	3	5.88
4- Mostly	21	41.18
5- Definitely	27	52.94
Total	51	100.00



CO6: Use different types of tools for blockchain applications.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	3.92
4- Mostly	13	25.49
5- Definitely	36	70.59
Total	51	100.00



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DEPARTMENT OF COMPUTER ENGINEERING

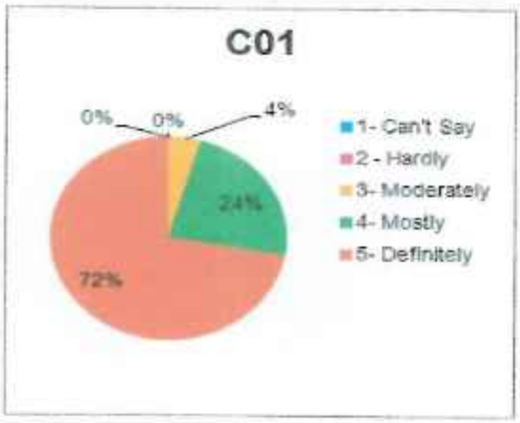
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM VII)

SUBJECT: BlockChain Lab

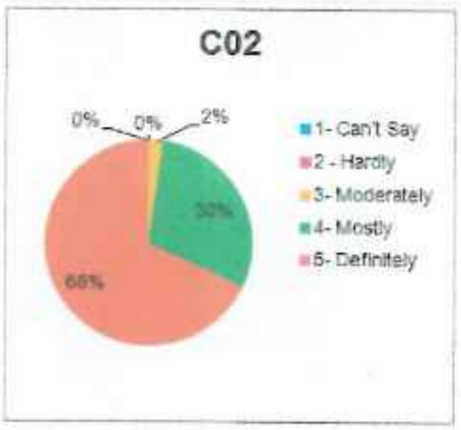
CO1:Create Cryptographic hash using merkle tree.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	11	23.40
5- Definitely	34	72.34
Total	47	100.00



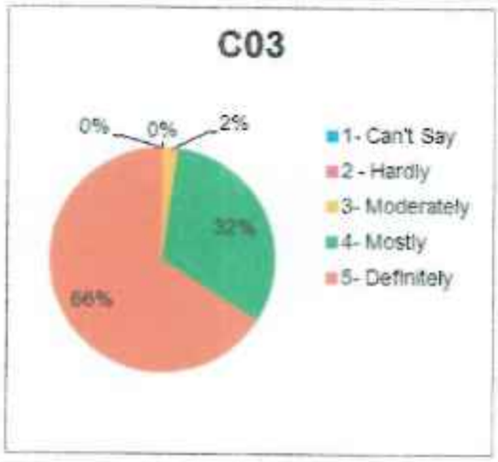
CO2: Implement wallet and transaction using Solidity.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.13
4- Mostly	14	29.79
5- Definitely	32	68.09
Total	47	100.00



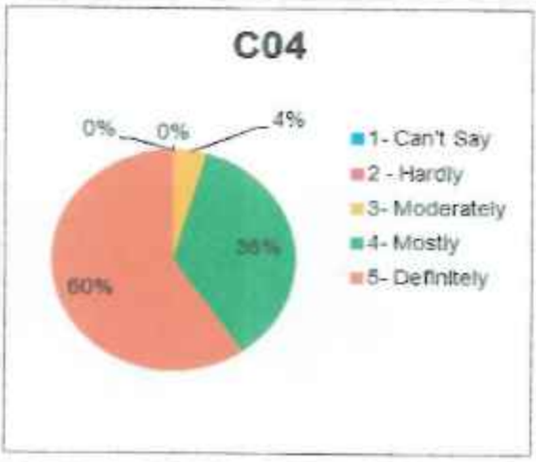
CO3: Design Smart Contract using Solidity.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.13
4- Mostly	15	31.91
5- Definitely	31	65.96
Total	47	100.00



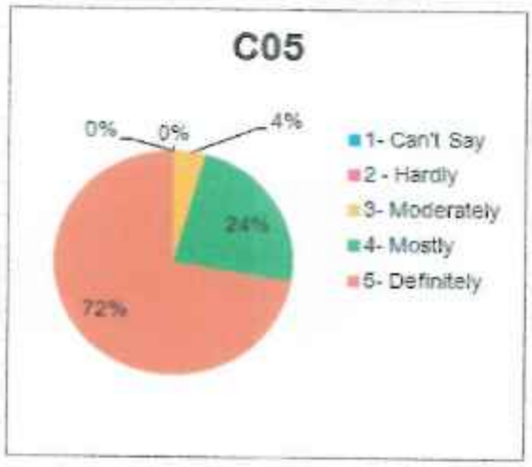
CO4: Implementing ethereum blockchain using Geth.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	17	36.17
5- Definitely	28	59.57
Total	47	100.00



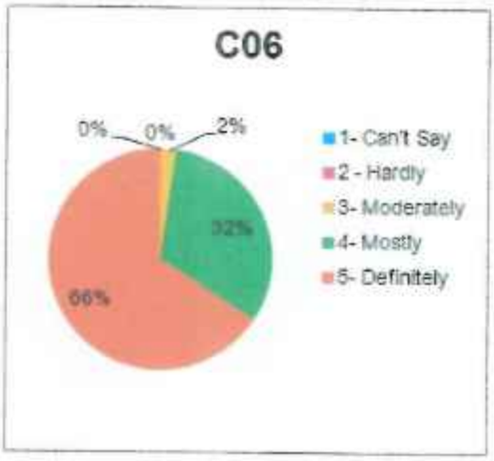
CO5: Demonstrate & Design the concept of a private blockchain using Hyperledger.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	2	4.26
4- Mostly	11	23.40
5- Definitely	34	72.34
Total	47	100.00



CO6: Demonstrate different types of tools for blockchain in real world applications.

Score	No. of Students	Percentage (%)
1- Can't Say	0	0.00
2 - Hardly	0	0.00
3- Moderately	1	2.13
4- Mostly	15	31.91
5- Definitely	31	65.96
Total	47	100.00



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DEPARTMENT OF COMPUTER ENGINEERING

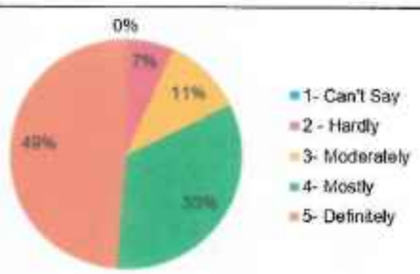
Academic Year: 2023-24

COURSE EXIT ANALYSIS REPORT (SEM VII)

SUBJECT: NLP

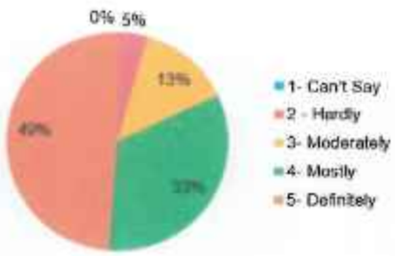
CO1: To describe the field of natural language processing.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	3	6.67
3- Moderately	5	11.11
4- Mostly	15	33.33
5- Definitely	22	48.89
Total	45	100.00



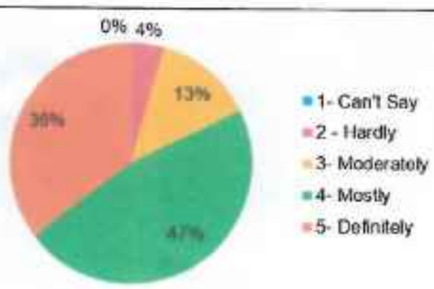
CO2: To design language model for word level analysis for text processing.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	2	4.44
3- Moderately	6	13.33
4- Mostly	15	33.33
5- Definitely	22	48.89
Total	45	100.00



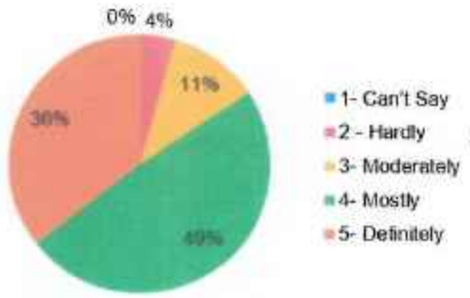
CO3: To design various POS tagging techniques and parsers.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	2	4.44
3- Moderately	6	13.33
4- Mostly	21	46.67
5- Definitely	16	35.56
Total	45	100.00



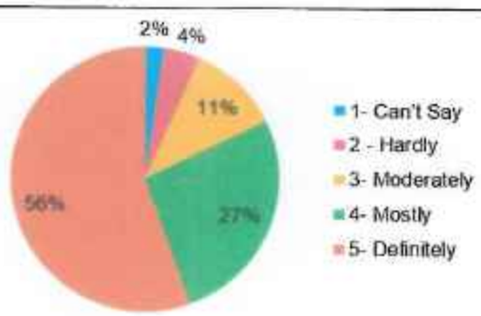
CO4: To design, implement and test algorithms for semantic and pragmatic analysis.

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	2	4.44
3- Moderately	5	11.11
4- Mostly	22	48.89
5- Definitely	16	35.56
Total	45	100.00



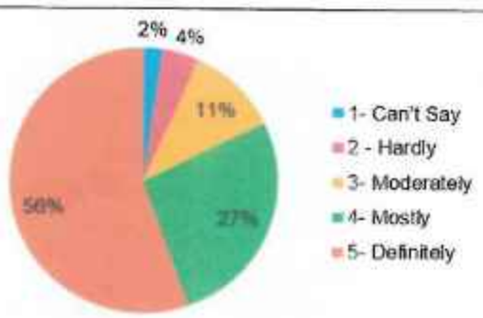
CO5: To formulate the discourse segmentation and anaphora resolution.

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	2.22
2 - Hardly	2	4.44
3- Moderately	5	11.11
4- Mostly	12	26.67
5- Definitely	25	55.56
Total	45	100.00



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

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	2.22
2 - Hardly	2	4.44
3- Moderately	5	11.11
4- Mostly	12	26.67
5- Definitely	25	55.56
Total	45	100.00



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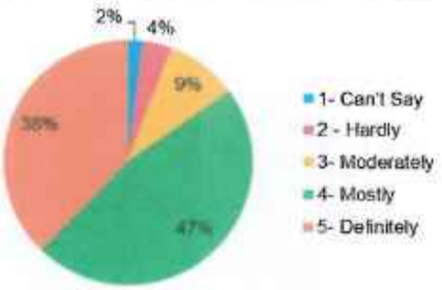
DEPARTMENT OF COMPUTER ENGINEERING
Academic Year: 2023-24
COURSE EXIT ANALYSIS REPORT (SEM VII)
SUBJECT: NLP Lab

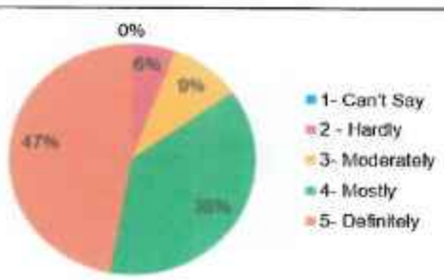
CO1:Identify and illustrate processing of natural language to cope with change in A world of technology.

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.89
2 - Hardly	2	3.77
3- Moderately	5	9.43
4- Mostly	25	47.17
5- Definitely	20	37.74
Total	53	100.00



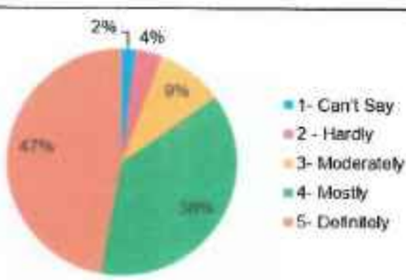
CO2: Describe and Recognize appropriate techniques for word level word level analysis in natural language processing .

Score	No. of Students	Perce ntage (%)
1- Can't Say	0	0.00
2 - Hardly	3	5.66
3- Moderately	5	9.43
4- Mostly	20	37.74
5- Definitely	25	47.17
Total	53	100.00



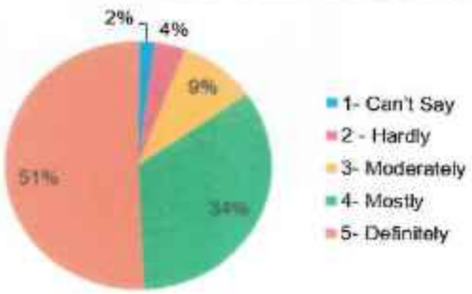
CO3: Design and develop the concept of main language level: Morphology,syntax,semantics pragmatic for a software system to meet specified needs with social cons.

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.89
2 - Hardly	2	3.77
3- Moderately	5	9.43
4- Mostly	20	37.74
5- Definitely	25	47.17
Total	53	100.00



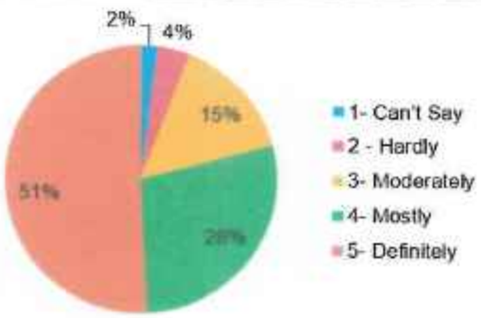
CO4:Identify engineering problem and select model for semantic analysis.

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.89
2 - Hardly	2	3.77
3- Moderately	5	9.43
4- Mostly	18	33.96
5- Definitely	27	50.94
Total	53	100.00



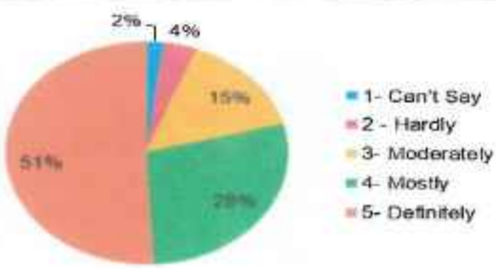
CO5 : Discover difficult issues of society and use the various language models in the world of NLP

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.89
2 - Hardly	2	3.77
3- Moderately	8	15.09
4- Mostly	15	28.30
5- Definitely	27	50.94
Total	53	100.00



CO6: Design and invent NLP mini projects in groups .

Score	No. of Students	Perce ntage (%)
1- Can't Say	1	1.89
2 - Hardly	2	3.77
3- Moderately	8	15.09
4- Mostly	15	28.30
5- Definitely	27	50.94
Total	53	100.00



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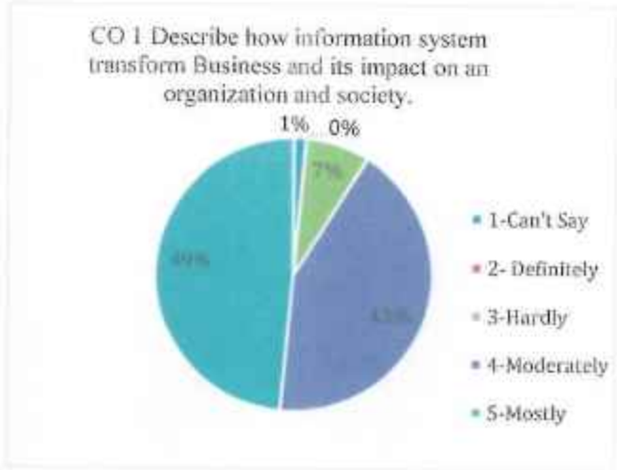
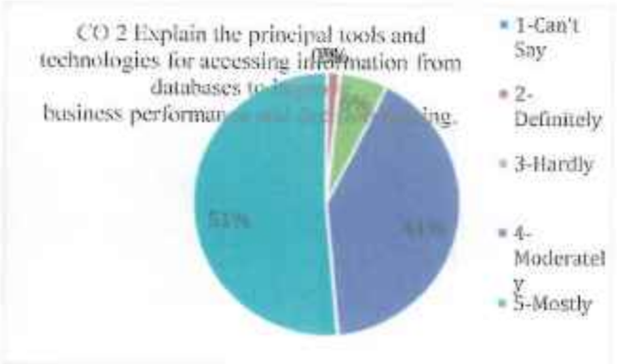
SARASWATI College of Engineering
Learn Live Achieve and Contribute
Kharghar, Navi Mumbai - 410 210.

Department of Computer Engineering
Academic Year: 2023-24 (ODD SEM)
Course Exit Analysis Report (Sem – VII)
Subject – Management Information System Subject In-charge – Prof. Sarita Kale

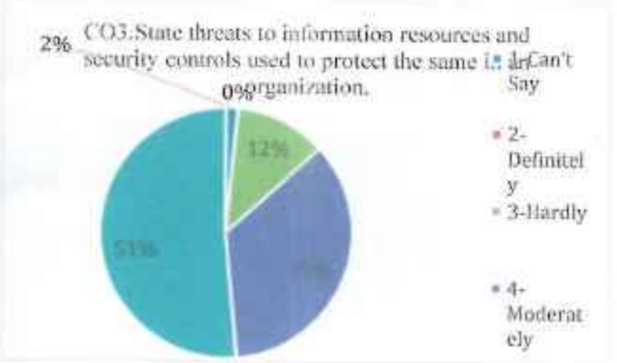
Score	No. of Students	Percentage
1-Can't Say	1	2%
2- Definitely	0	0%
3-Hardly	5	7.40%
4-Moderately	29	42.60%
5-Mostly	33	49%
Total	68	100%



Score	No. of Students	Percentage
1-Can't Say	0	0%
2- Definitely	1	1.5%
3-Hardly	10	15.4%
4-Moderately	29	44.6%
5-Mostly	25	38.5%
Total	68	100%



Score	No. of Students	Percentage
1-Can't Say	1	2%
2- Definitely	0 0	0
3-Hardly	8	11.80%
4- Moderately	24	35.40%
5-Mostly	35	52%
Total	68	100%



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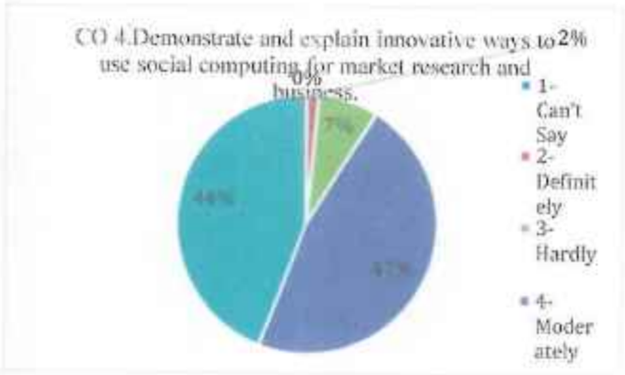
Department of Computer Engineering

Academic Year: 2023-24 (ODD SEM)

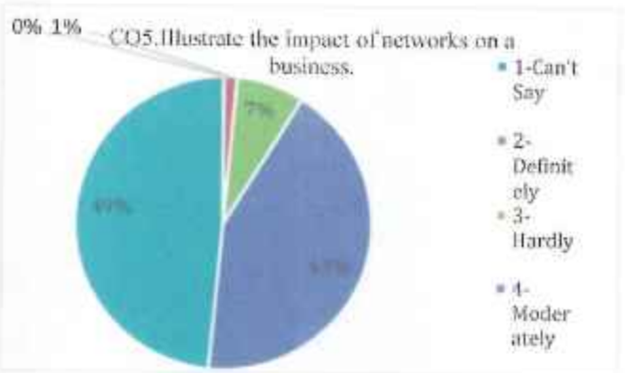
Course Exit Analysis Report (Sem – VII)

Subject – Management Information System Subject In-charge – Prof. Sarita Kale

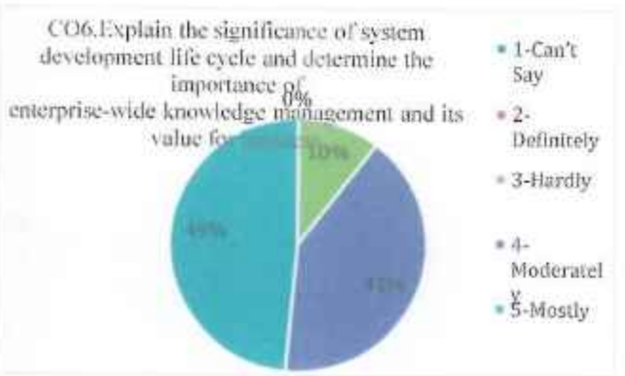
Score	No. of Students	Percentage
1-Can't Say	0	0
2- Definitely	1	2%
3-Hardly	5	7.40%
4-Moderately	32	47.10%
5-Mostly	30	44%
Total	68	100%



Score	No. of Students	Percentage
1-Can't Say	0	0
2- Definitely	1	2%
3-Hardly	5	7.40%
4-Moderately	29	42.60%
5-Mostly	33	49%
Total	68	100%



Score	No. of Students	Percentage
1-Can't Say	0	0
2- Definitely	0	0
3-Hardly	7	10.40%
4-Moderately	28	41.20%
5-Mostly	33	49%



Total	68	100%

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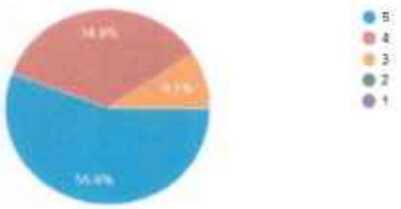
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: BDA

CO1: To provide an overview of the big data platforms, its use cases and Hadoop ecosystem.

63 responses

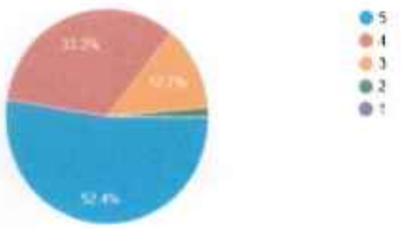
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	6	9.5
4-Mostly	22	34.9
5-Definitely	35	55.6
Total	63	100



CO2 : To introduce programming skills to build simple solutions using big data technologies such as MapReduce, Scripting for No SQL and R

63 responses

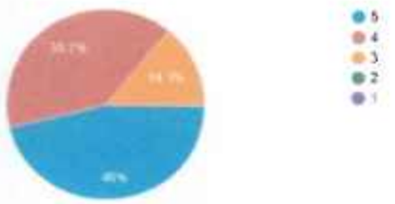
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	1	1.6
3-Moderately	8	12.7
4-Mostly	21	33.3
5-Definitely	33	52.4
Total	63	100



CO3 : To learn the fundamental techniques and principles in achieving big data analytics with scalability and streaming capability.

63 responses

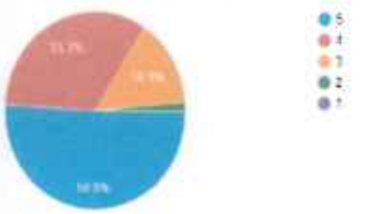
Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	9	14.3
4-Mostly	25	39.7
5-Definitely	29	46
Total	63	100



CO4 : To enable students to have skills that will help them to solve complex real-world problems

63 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	1	1.6
3-Moderately	9	14.3
4-Mostly	21	33.3
5-Definitely	32	50.8
Total	63	100



CO5 : To provide an indication of the current research approaches

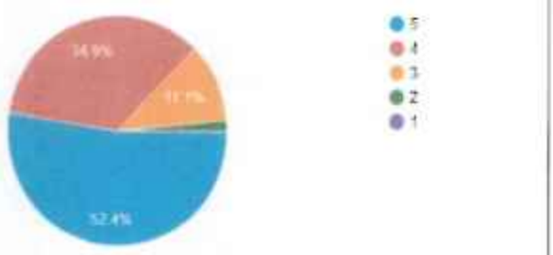
63 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	9	14.3
4-Mostly	21	33.3
5-Definitely	33	52.4
Total	63	100

CO6 : To Interpret business models and scientific computing paradigms, and apply software tools for big data analytics.

63 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	1	1.6
3-Moderately	7	11.1
4-Mostly	22	34.9
5-Definitely	33	52.4
Total	63	100



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Kharghar, Navi Mumbai - 410 210

Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: BDA LAB

CO1: To provide an overview of the big data platforms, its use cases and Hadoop ecosystem.

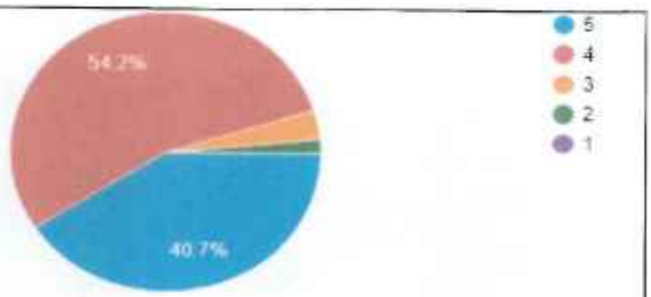
59 responses

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	0	0.00
3-Moderate	3	5.10
4-Mostly	23	39.00
5-Definitely	33	55.90
Total	59	100.00

CO2 : To introduce programming skills to build simple solutions using big data technologies such as MapReduce, Scripting for No SQL and R

59 responses

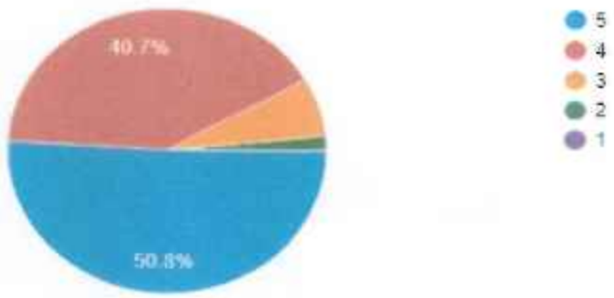
Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	1	1.70
3-Moderate	2	3.40
4-Mostly	32	54.20
5-Definitely	24	40.70
Total	59	100.00



CO3 : To learn the fundamental techniques and principles in achieving big data analytics with scalability and streaming capability.

59 responses

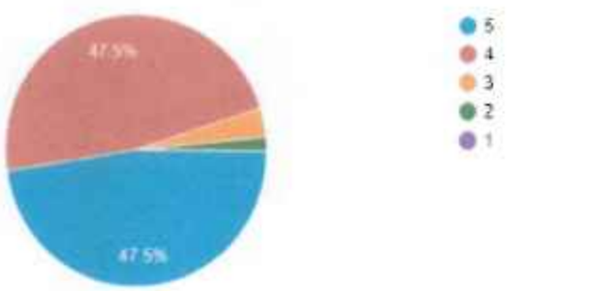
Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	1	1.70
3-Moderate	4	6.80
4-Mostly	24	40.70
5-Definitely	30	50.80
Total	59	100.00



CO4 : To enable students to have skills that will help them to solve complex real-world problems

59 responses

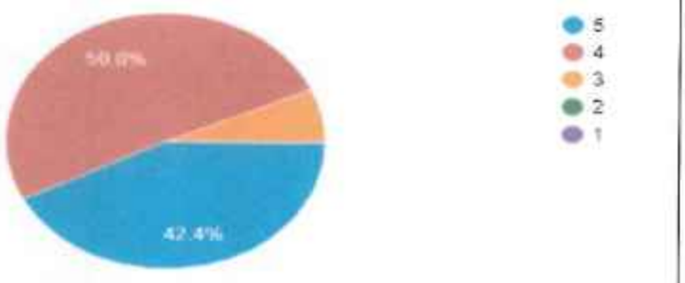
Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	1	1.70
3-Moderate	2	3.40
4-Mostly	28	47.50
5-Definitely	28	47.50
Total	59	100.00



CO5 : To provide an indication of the current research approaches

59 responses

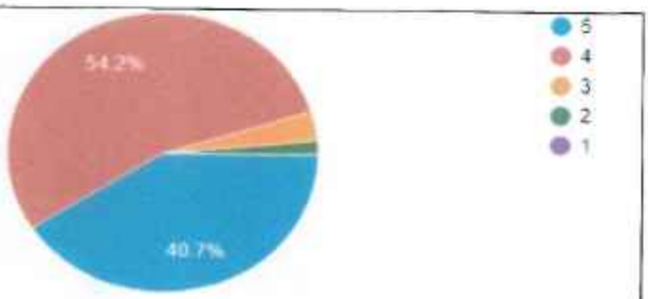
Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	0	0.00
3-Moderate	4	6.80
4-Mostly	30	50.80
5-Definitely	25	42.40
Total	59	100.00



CO6 : To Interpret business models and scientific computing paradigms, and apply software tools for big data analytics.

59 responses

Score	No. of St	Percentage
1-Can't say	0	0.00
2-Hardly	1	1.70
3-Moderate	2	3.40
4-Mostly	32	54.20
5-Definitely	24	40.70
Total	59	100.00



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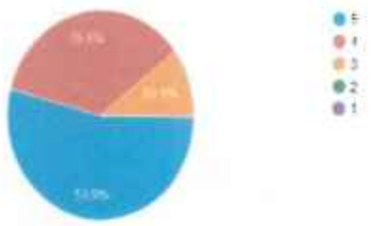
Department of computer Engineering
Academic Year: 2023-24 (ODD)
Course Exit Analysis Report (SEM VII)
Subject: MAJOR Project

CO1:To identify societal, health and legal issues and apply practical knowledge within the chosen area of technology for project development.

76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	2	10.6
4-Mostly	29	35.5
5-Definitely	45	53.9
Total	76	100



CO2:To identify, analyze and formulate problem within programming projects in a comprehensive and systematic approach.

76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	11.9
4-Mostly	29	34.2
5-Definitely	43	53.9
Total	76	100

CO3 :To design and develop Engineering solutions to complex problem utilizing a systematic approach.

76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	5	11.9
4-Mostly	30	36.8
5-Definitely	41	51.3
Total	76	100

CO4 : To work effectively as an individual or in a team in development of technical projects.

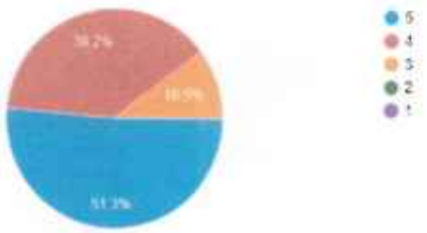
76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	11.9
4-Mostly	29	34.2
5-Definitely	43	53.9
Total	76	100

CO5 : To communicate effectively with profession by presenting project related activities.

76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	5	11.9
4-Mostly	30	36.8
5-Definitely	41	51.3
Total	76	100



CO6 : To demonstrate knowledge, skills and attitude of a professional engineers and community at large.

76 responses

Score	No.of Stude	Percentage
1-Can't say	0	0
2-Hardly	0	0
3-Moderately	4	11.9
4-Mostly	29	34.2
5-Definitely	43	53.9
Total	76	100

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