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SARASWATI College of Engineering

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 Kharwar Poon Mumbai - 410 210
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

Course – Social Media Analytics(TH)

Course In-charge - Prof.Snehal Gavale

CO1: Are you able to understand the concept of Social media ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 2 |
| 2-Hardly | 0 | 2 |
| 3-Moderately | 2 | 15 |
| 4-Mostly | 12 | 36 |
| 5-Definitely | 20 | 45 |
| Total | 34 | 52 |

CO1

- 3-Moderately
- 4-Mostly
- 5-Definitely

CO2: Are you able to Understand the concept of social media Analytics and its significance ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 6 |
| 4-Mostly | 8 | 12 |
| 5-Definitely | 22 | 33 |
| Total | 34 | 52 |

CO2

- 3-Moderately
- 4-Mostly
- 5-Definitely



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO3: Are you able to analyse the effectiveness of social media ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 6 |
| 4-Mostly | 7 | 11 |
| 5-Definitely | 23 | 35 |
| Total | 34 | 52 |

CO3

- 3-Moderately
- 4-Mostly
- 5-Definitely

CO4: Are you able to use different Social media analytics tools effectively and efficiently ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 2 | 3 |
| 4-Mostly | 13 | 20 |
| 5-Definitely | 19 | 29 |
| Total | 34 | 52 |

CO4

- 3-Moderately
- 4-Mostly
- 5-Definitely



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO5: are you able to use different effective Visualization techniques to represent social media analytics?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 1 | 2 |
| 4-Mostly | 10 | 15 |
| 5-Definitely | 21 | 32 |
| Total | 34 | 52 |

CO5

- 3-Moderately
- 4-Mostly
- 5-Definitely

CO6: Are you able to acquire the fundamental perspectives and hands-on skills needed to work with social media data?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 5 |
| 4-Mostly | 12 | 18 |
| 5-Definitely | 19 | 29 |
| Total | 34 | 52 |

CO6

- 3-Moderately
- 4-Mostly
- 5-Definitely

for Chawale
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ACADEMIC YEAR 2023-24

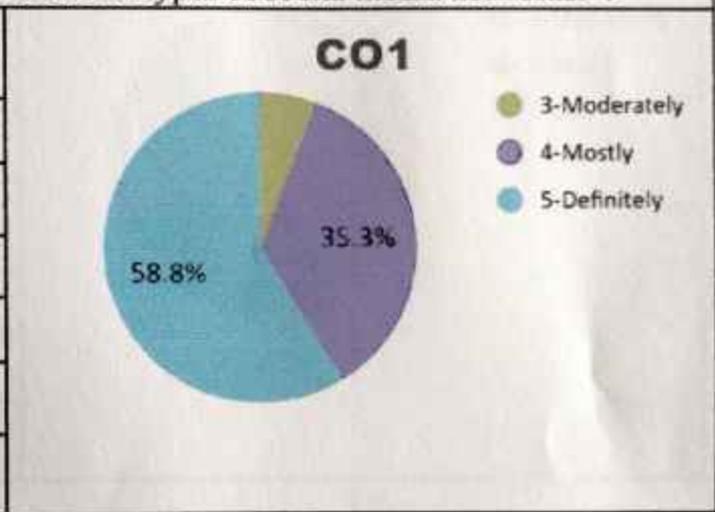
Course Exit Analysis Report (SEM VIII)

Course – Social Media Analytics(PR)

Course In-charge - Prof. Snehal Gavale

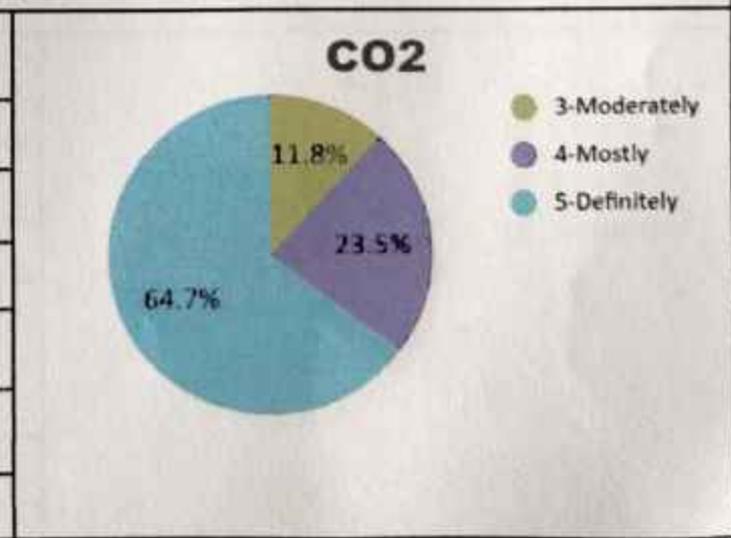
CO1: Are you able to understand characteristics and types of social media networks. ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 2 | 6 |
| 4-Mostly | 12 | 35 |
| 5-Definitely | 20 | 59 |
| Total | 34 | 100 |



CO2: Are you able to Use social media analytics tools for business ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 12 |
| 4-Mostly | 8 | 24 |
| 5-Definitely | 22 | 65 |
| Total | 34 | 100 |





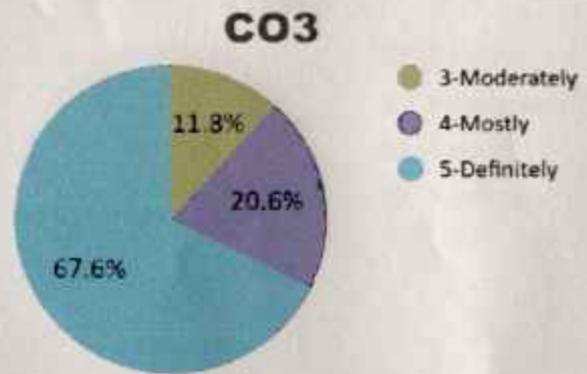
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

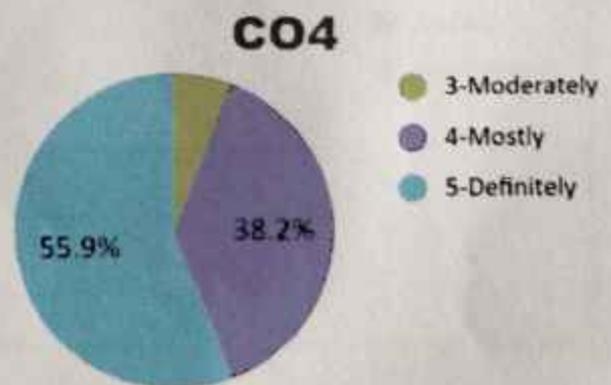
CO3: Are you able to Collect, monitor, store and track social media data?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 12 |
| 4-Mostly | 7 | 21 |
| 5-Definitely | 23 | 68 |
| Total | 34 | 100 |



CO4: Are you able to Analyze and visualize social media data from multiple platforms?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 2 | 6 |
| 4-Mostly | 13 | 38 |
| 5-Definitely | 19 | 56 |
| Total | 34 | 100 |





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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO5: Are you able to use Design and develop content and structure based social media analytics models ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 2 | 6 |
| 3-Moderately | 1 | 3 |
| 4-Mostly | 10 | 29 |
| 5-Definitely | 21 | 62 |
| Total | 34 | 100 |

CO5

- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

CO6: Are you able to design and implement social media analytics applications for business.?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 9 |
| 4-Mostly | 12 | 35 |
| 5-Definitely | 19 | 56 |
| Total | 34 | 100 |

CO6

- 3-Moderately
- 4-Mostly
- 5-Definitely

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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

Course- Recommendation system (TH)

Course Incharge - Prof. Rashmi Saratkar

CO1: Are you able to be understanding of the field of Recommendation Systems.

| Score | No. of Students | Percentage |
|--------------|-----------------|-------------|
| 1-Can't say | 1 | 2.564102564 |
| 2-Hardly | 2 | 5 |
| 3-Moderately | 3 | 8 |
| 4-Mostly | 15 | 38 |
| 5-Definitely | 18 | 46 |
| Total | 39 | 100 |

CO2: Are you able to gain In-depth Knowledge of the architecture and models for Collaborative Filtering.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 3 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 1 | 3 |
| 4-Mostly | 16 | 41 |
| 5-Definitely | 20 | 51 |
| Total | 39 | 100 |



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO3: Are you able to Understand the architecture and working of Content based recommendation systems

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2.56 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 2 | 5 |
| 4-Mostly | 12 | 31 |
| 5-Definitely | 23 | 59 |
| Total | 39 | 100 |

Legend for CO3:

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

CO4: Are you able to Understand the architecture and basics of Knowledge based recommendation systems.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 3 | 8 |
| 4-Mostly | 16 | 41 |
| 5-Definitely | 17 | 44 |
| Total | 39 | 100 |

Legend for CO4:

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



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO5: Are you able to be Analyzing hybrid and ensembles recommendation systems.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 3 | 8 |
| 4-Mostly | 11 | 28 |
| 5-Definitely | 22 | 56 |
| Total | 39 | 100 |

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

CO6: Are you able to understand evaluation of recommendation systems by selecting right evaluation parameter.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 5 | 13 |
| 4-Mostly | 10 | 26 |
| 5-Definitely | 21 | 54 |
| Total | 39 | 100 |

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

for *Chawale*

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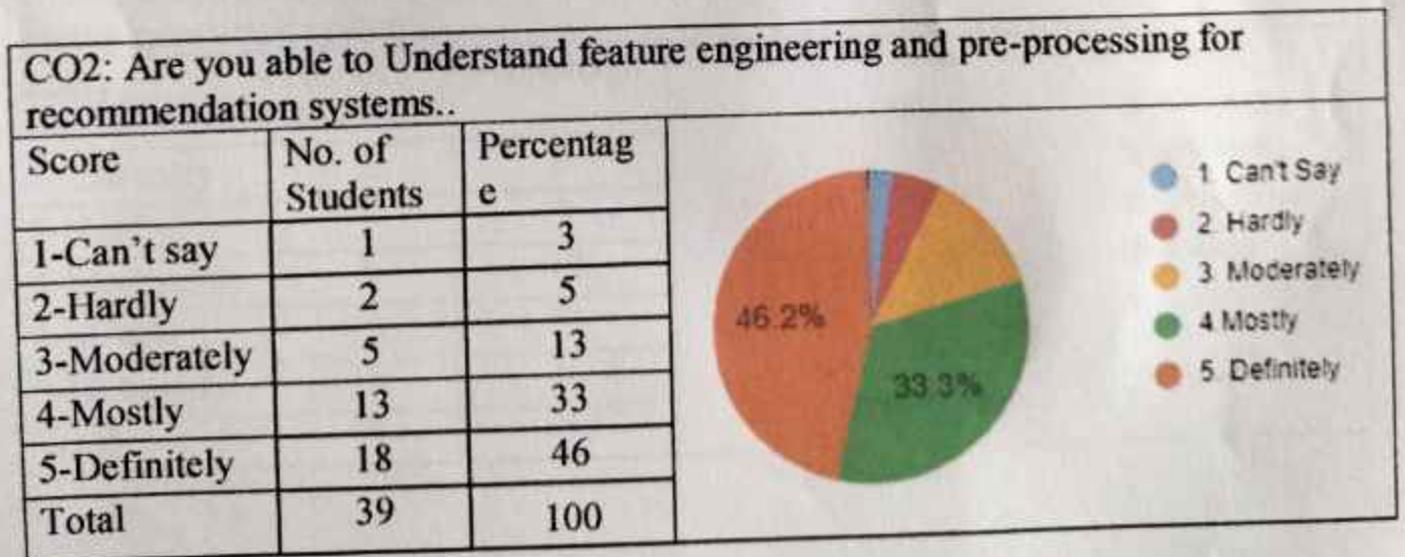
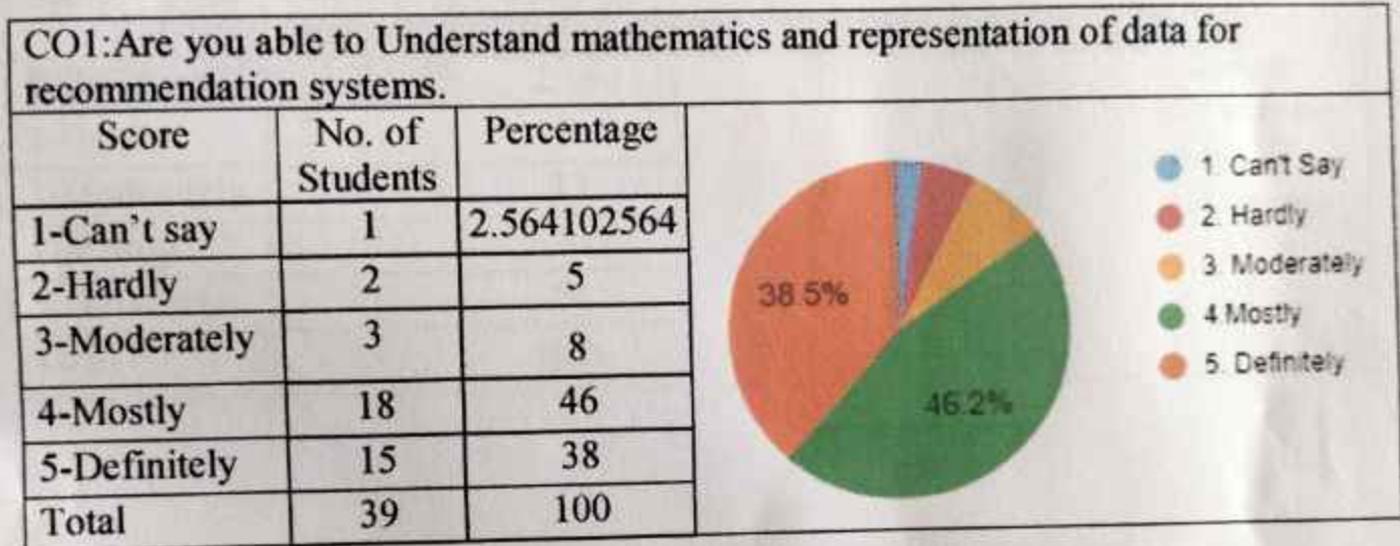
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

Course- Recommendation system (PR)

Course Incharge - Prof. Rashmi Saratkar





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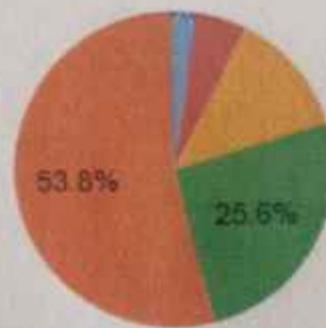
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO3: Are you able to Design, implement and analyze Collaborative filtering based for recommendation systems.

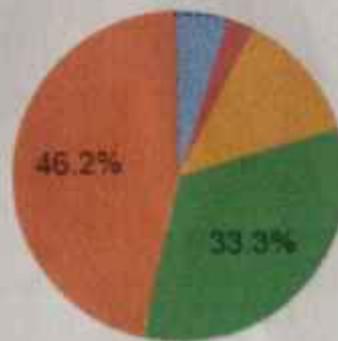
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2.56 |
| 2-Hardly | 2 | 5 |
| 3-Moderately | 5 | 13 |
| 4-Mostly | 10 | 26 |
| 5-Definitely | 21 | 54 |
| Total | 39 | 100 |



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

CO4: Are you able to Design, implement and analyze Content-based recommendation systems.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 5 | 13 |
| 4-Mostly | 13 | 33 |
| 5-Definitely | 18 | 46 |
| Total | 39 | 100 |



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



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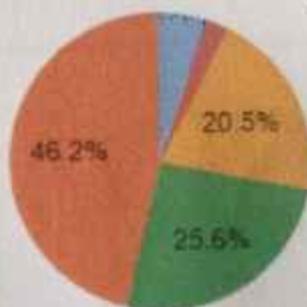
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO5: Are you able to Design, implement and analyze Regression based recommendation systems

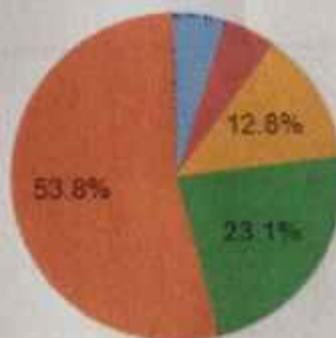
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 1 | 3 |
| 3-Moderately | 8 | 21 |
| 4-Mostly | 10 | 26 |
| 5-Definitely | 18 | 46 |
| Total | 39 | 100 |



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

CO6: Are you able to solve real world problems (project) using recommendation systems.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 5 |
| 2-Hardly | 2 | 5 |
| 3-Moderately | 5 | 13 |
| 4-Mostly | 9 | 23 |
| 5-Definitely | 21 | 54 |
| Total | 39 | 100 |



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

for *O. Kausale*

**HOD
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

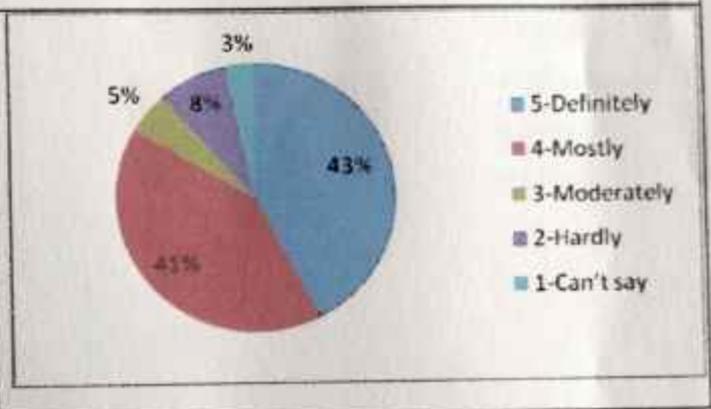
Course Exit Analysis Report (SEM VIII)

Course- - Reinforcement Engineering

Course Incharge - Prof. Umesh Pinjarkar

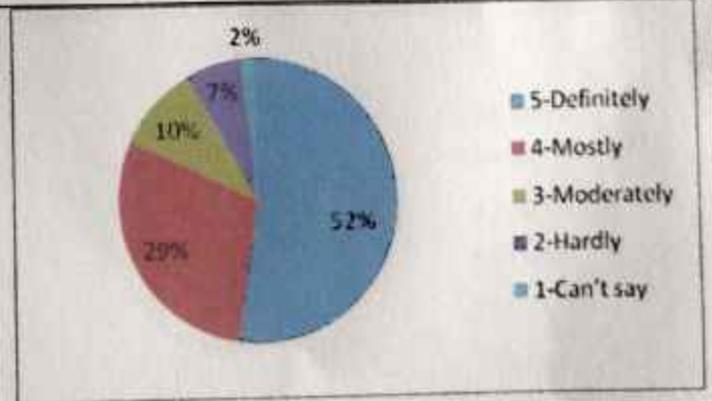
CO1: Are you able to identify RL tasks and the core principles behind the RL, including policies, value functions deriving bellman equation.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 5-Definitely | 42.62 | 26 |
| 4-Mostly | 40.98 | 25 |
| 3-Moderately | 4.92 | 3 |
| 2-Hardly | 8.20 | 5 |
| 1-Can't say | 3.28 | 2 |
| Total | 100% | 61 |



CO2: Are you able to evaluate the work with tabular methods to solve classical control problems.

| Score | Percentage | No. of Students |
|--------------|-------------|-----------------|
| 5-Definitely | 52.46 | 32 |
| 4-Mostly | 29.51 | 18 |
| 3-Moderately | 9.84 | 6 |
| 2-Hardly | 6.56 | 4 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 61 |





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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO3: Are you able to apply the Markov decision processes to solve real-world problem.

| Score | Percentage | No. of Students |
|--------------|-------------|-----------------|
| 5-Definitely | 52.46 | 32 |
| 4-Mostly | 29.51 | 18 |
| 3-Moderately | 8.20 | 5 |
| 2-Hardly | 6.56 | 4 |
| 1-Can't say | 3.28 | 2 |
| Total | 100% | 61 |

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

CO4: Are you able to understand the dynamic programming for policy evaluation

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 45.90 | 28 |
| 4-Mostly | 39.34 | 24 |
| 3-Moderately | 8.20 | 5 |
| 2-Hardly | 11.48 | 7 |
| 1-Can't say | 1.64 | 1 |
| Total | 68 | 100 |

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



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO5: Are you able to implement reinforcement learning problems based on averaging sample returns using Monte Carlo method.

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 45.90 | 28 |
| 4-Mostly | 39.34 | 24 |
| 3-Moderately | 8.20 | 5 |
| 2-Hardly | 11.48 | 7 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 61 |

A pie chart illustrating the distribution of student responses for CO5. The chart is divided into five segments: 43% for '5-Definitely' (blue), 37% for '4-Mostly' (red), 11% for '2-Hardly' (purple), 8% for '3-Moderately' (green), and 1% for '1-Can't say' (light blue). A legend on the right side of the chart identifies each score category.

CO6 : Are you able to recognize current advance technique and application in RL

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 44.26 | 27 |
| 4-Mostly | 42.62 | 26 |
| 3-Moderately | 8.20 | 5 |
| 2-Hardly | 11.48 | 7 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 61 |

A pie chart illustrating the distribution of student responses for CO6. The chart is divided into five segments: 41% for '5-Definitely' (blue), 39% for '4-Mostly' (red), 11% for '2-Hardly' (purple), 8% for '3-Moderately' (green), and 1% for '1-Can't say' (light blue). A legend on the right side of the chart identifies each score category.

for *Opawate*
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ACADEMIC YEAR 2023-24

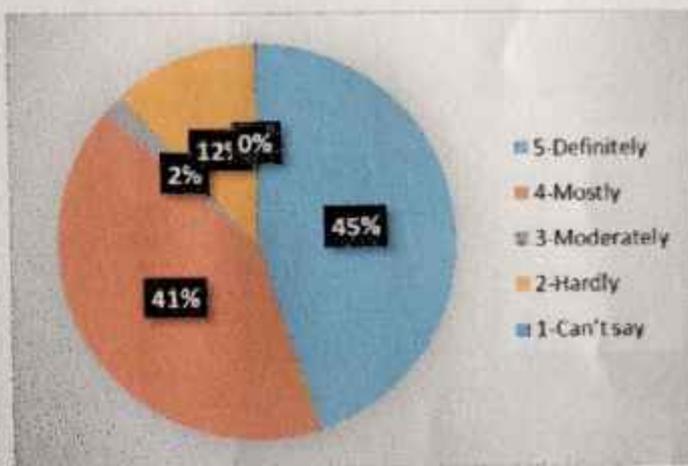
Course Exit Analysis Report (SEM VIII)

Course- Reinforcement Engineering Lab

Course Incharge - Prof. Umesh Pinjarkar

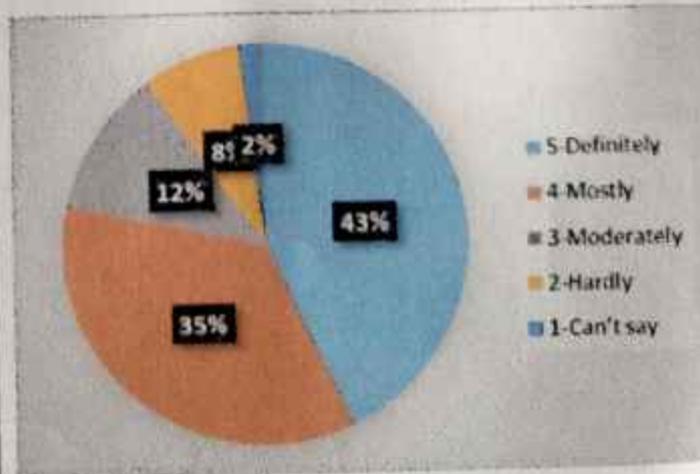
CO1: Are you able to gain a solid understanding of reinforcement learning concepts and problem formulation.

| Score | Percentage | No. of Students |
|--------------|-------------|-----------------|
| 5-Definitely | 45.10 | 23 |
| 4-Mostly | 41.18 | 21 |
| 3-Moderately | 1.96 | 1 |
| 2-Hardly | 11.76 | 6 |
| 1-Can't say | 0 | 0 |
| Total | 100% | 51 |



CO2: Are you able to evaluate and compare exploration strategies in online learning scenarios.

| Score | Percentage | No. of Students |
|--------------|-------------|-----------------|
| 5-Definitely | 43.14 | 22 |
| 4-Mostly | 35.29 | 18 |
| 3-Moderately | 11.76 | 6 |
| 2-Hardly | 7.84 | 4 |
| 1-Can't say | 1.96 | 1 |
| Total | 100% | 51 |





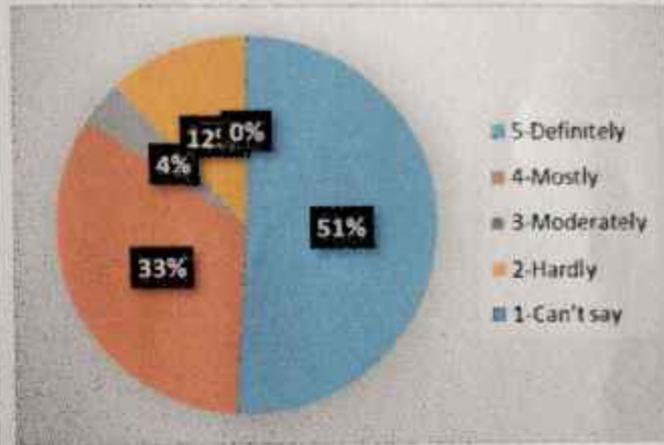
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Course Exit Analysis Report (SEM VIII)

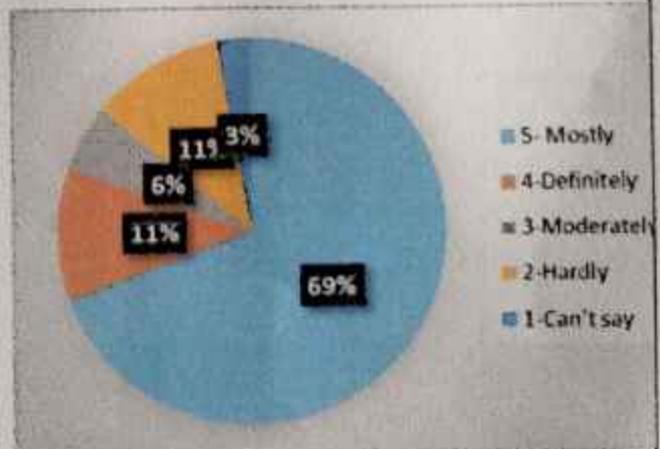
CO3: Can you solve Markov Decision Processes using dynamic programming algorithms.

| Score | Percentage | No. of Students |
|---------------|-------------|-----------------|
| 5- Definitely | 50.98 | 26 |
| 4- Mostly | 33.33 | 17 |
| 3-Moderately | 3.92 | 2 |
| 2-Hardly | 11.76 | 6 |
| 1-Can't say | 0.00 | 0 |
| Total | 100% | 51 |



CO4: Are you able to apply dynamic programming techniques to solve small-scale MDP problems.

| Score | Percentage | No. of Students |
|---------------|-------------|-----------------|
| 5- Definitely | 69.02 | 25 |
| 4- Mostly | 10.84 | 4 |
| 3-Moderately | 9.92 | 2 |
| 2-Hardly | 5.84 | 4 |
| 1-Can't say | 2.96 | 1 |
| Total | 100% | 51 |





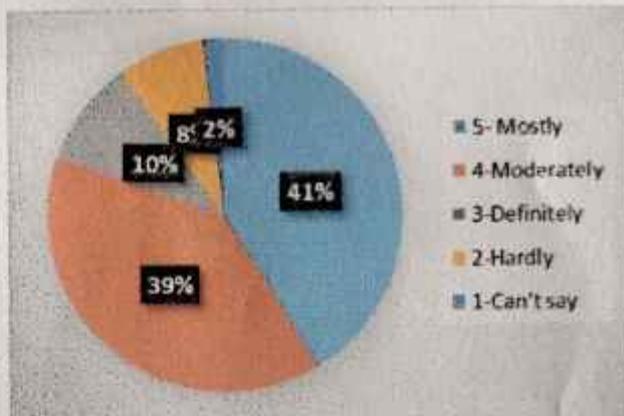
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

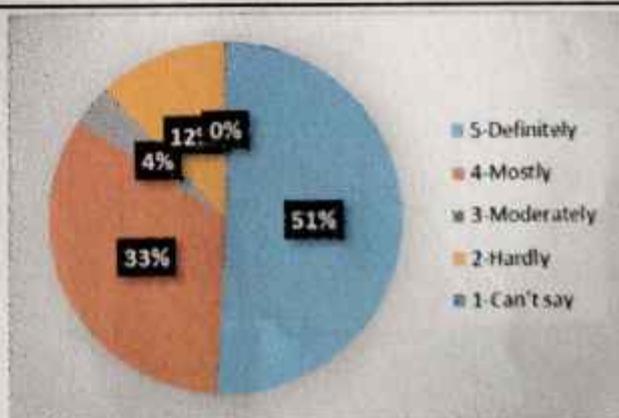
CO5: Are you able to Implement and analyze Monte Carlo methods and Temporal-Difference learning algorithms.

| Score | Percentage | No. of Students |
|---------------|------------|-----------------|
| 5- Definitely | 41.18 | 21 |
| 4- Mostly | 39.22 | 20 |
| 3-Moderately | 9.80 | 5 |
| 2-Hardly | 7.84 | 4 |
| 1-Can't say | 1.96 | 1 |
| Total | 100% | 51 |



CO6: Are you able to explore practical applications of reinforcement learning in real-world domains.

| Score | Percentage | No. of Students |
|---------------|------------|-----------------|
| 5- Definitely | 50.98 | 26 |
| 4- Mostly | 33.33 | 17 |
| 3-Moderately | 3.92 | 2 |
| 2-Hardly | 11.76 | 6 |
| 1-Can't say | 0.00 | 0 |
| Total | 100% | 51 |



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HOD

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Department of CSE - AIML

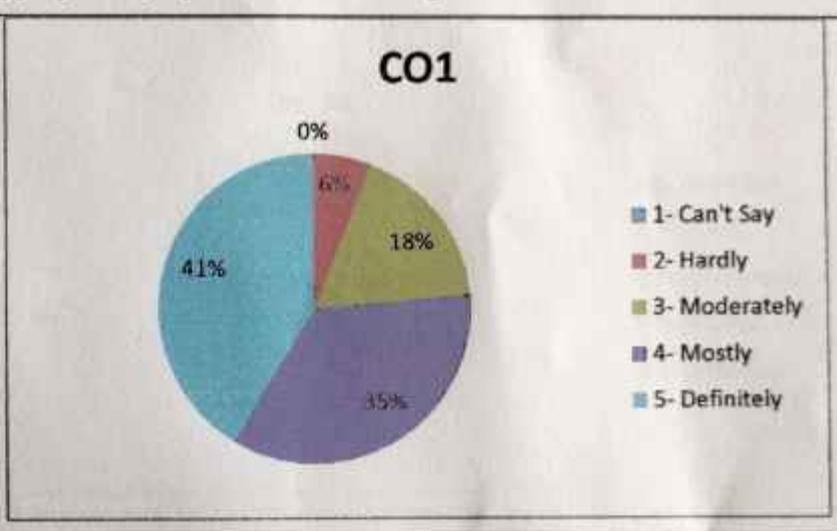
Academic Year: 2023-24 (Even)

Course Exit Analysis Report (SEM VIII)

Subject –Project Management (ILOC-2)

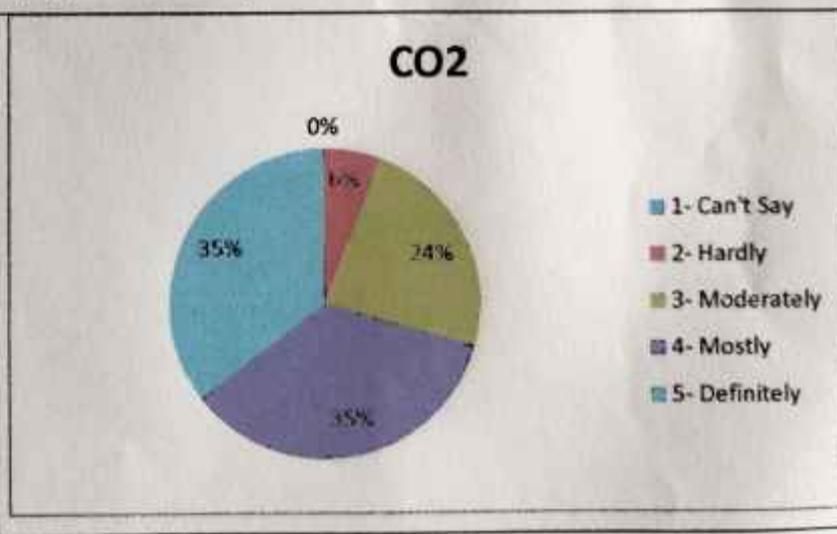
CO1: Apply selection criteria and select an appropriate project from different options.

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 0 | 0 |
| 3- Moderately | 5 | 17 |
| 4- Mostly | 12 | 40 |
| 5- Definitely | 13 | 43 |
| Total | 30 | 100 |



CO2: Write work breakdown structure for a project and develop a schedule based on it.

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 1 | 3 |
| 3- Moderately | 5 | 17 |
| 4- Mostly | 11 | 37 |
| 5- Definitely | 13 | 43 |
| Total | 30 | 100 |





Department of CSE - AIML

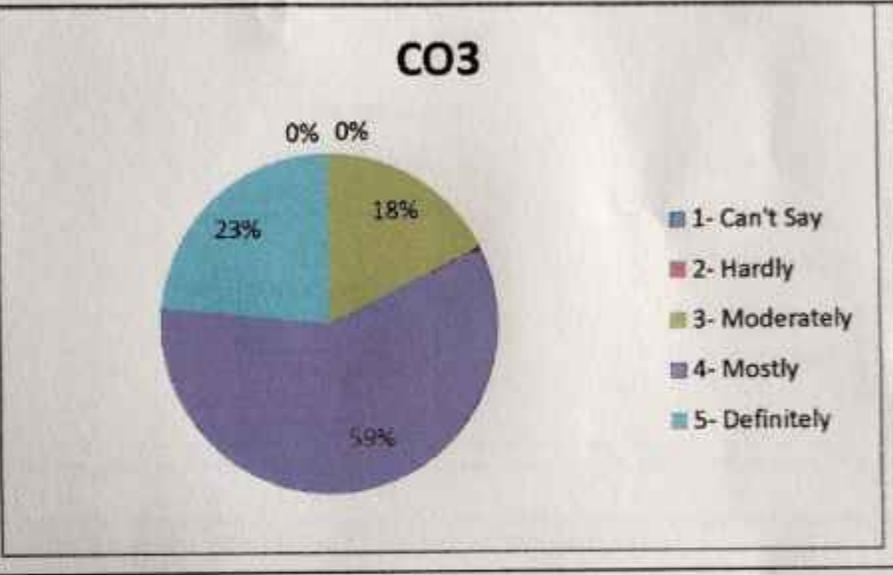
Academic Year: 2023-24 (Even)

Course Exit Analysis Report (SEM VIII)

Subject –Project Management (ILOC-2)

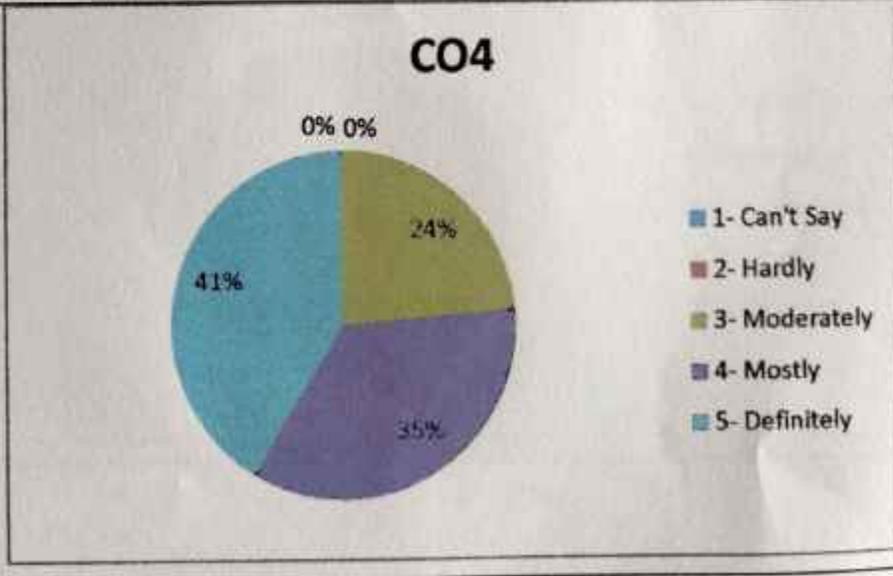
CO3: Identify opportunities and threats to the project and decide an approach to deal with them strategically

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 0 | 0 |
| 3- Moderately | 6 | 20 |
| 4- Mostly | 12 | 40 |
| 5- Definitely | 12 | 40 |
| Total | 30 | 100 |



CO4: Use Earned value technique and determine & predict status of the project.

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 1 | 3 |
| 3- Moderately | 8 | 27 |
| 4- Mostly | 10 | 33 |
| 5- Definitely | 11 | 37 |
| Total | 30 | 100 |





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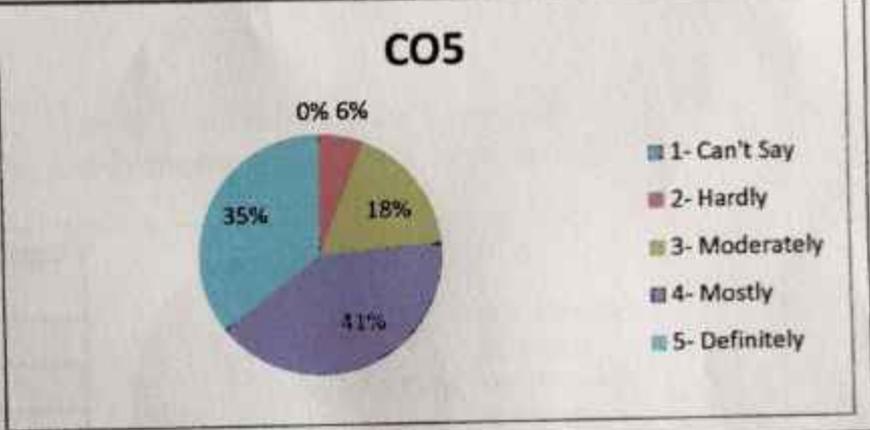
Academic Year: 2023-24 (Even)

Course Exit Analysis Report (SEM VIII)

Subject –Project Management (ILOC-2)

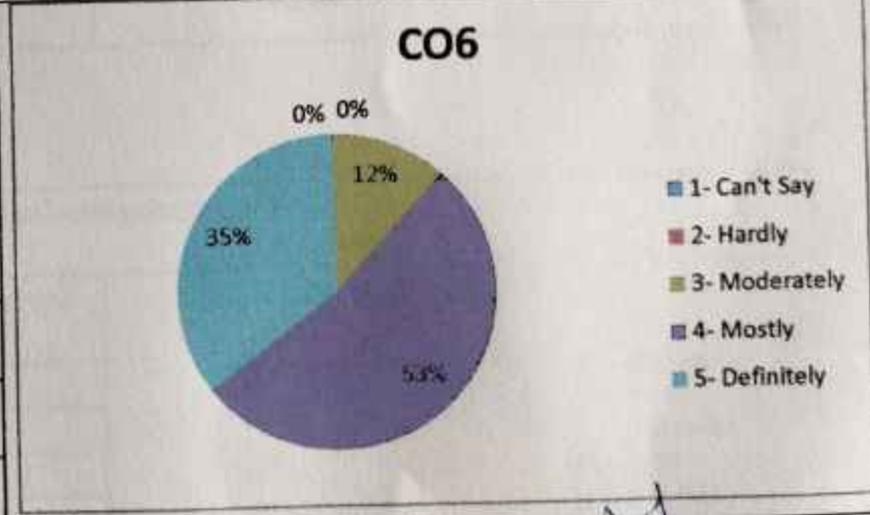
CO5: Capture lessons learned during project phases and document them for future reference.

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 0 | 0 |
| 3- Moderately | 7 | 23 |
| 4- Mostly | 11 | 37 |
| 5- Definitely | 12 | 40 |
| Total | 30 | 100 |



CO6: Learn project termination types and acknowledge the success and failures of the project.

| Score | No. of students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2- Hardly | 1 | 3 |
| 3- Moderately | 6 | 20 |
| 4- Mostly | 11 | 37 |
| 5- Definitely | 12 | 40 |
| Total | 30 | 100 |



for *Wavale*

HOD

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Saraswati College of Engineering
Kharghar, Navi Mumbai-410210

Principal
Principal (SCOPE)
PRINCIPAL

Saraswati College of Engineering
Kharghar, Navi Mumbai-410210



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

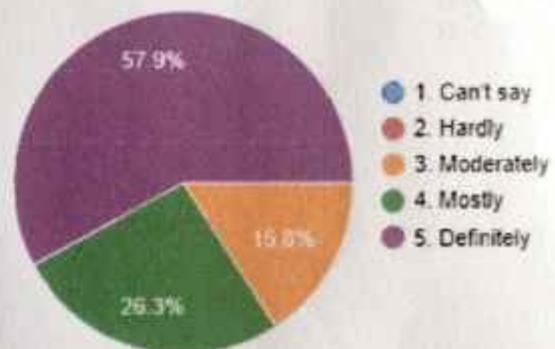
Course Exit Analysis Report (SEM VIII)

Course- Environmental Management

Course Incharge – Dr. Saumya Singh

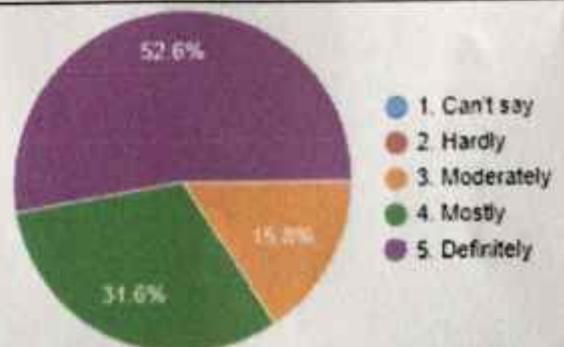
CO1: Are you able to understand the concept of environmental management, sustainable development and identify Environmental issues relevant to India..

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 15.8 |
| 4-Mostly | 5 | 26.3 |
| 5-Definitely | 11 | 57.9 |
| Total | 19 | 100 |



CO2: Are you able to describe global environmental concerns.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 15.8 |
| 4-Mostly | 6 | 31.6 |
| 5-Definitely | 10 | 52.6 |
| Total | 19 | 100 |





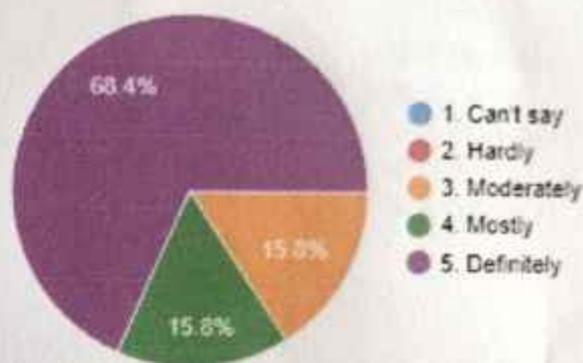
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VIII)

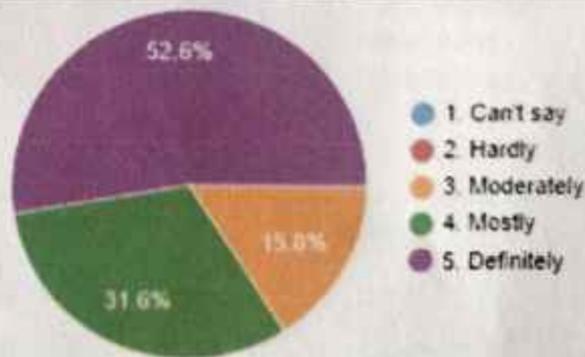
CO3: Are you able to evaluate ecosystem and interdependence, food chain etc.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 15.8 |
| 4-Mostly | 3 | 15.8 |
| 5-Definitely | 13 | 68.4 |
| Total | 19 | 100 |



CO4: Are you able to understand Environment Quality Management and Corporate Environmental Responsibility.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 15.8 |
| 4-Mostly | 6 | 31.6 |
| 5-Definitely | 10 | 52.6 |
| Total | 19 | 100 |





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VIII)

CO5: Are you able to describe Total Quality Environmental Management, ISO-14000, EMS.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 3 | 15.8 |
| 4-Mostly | 5 | 26.3 |
| 5-Definitely | 11 | 57.9 |
| Total | 19 | 100 |

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

CO6: Are you able to compare and interpret environment related legislation.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 5.3 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 2 | 10.5 |
| 4-Mostly | 4 | 21.1 |
| 5-Definitely | 12 | 63.2 |
| Total | 19 | 100 |

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

for Khawale

HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

Course – Major Project-2

Course In-charge - Prof.Snehal Gavale

| CO1: Are you able to Identify problems based on societal /research needs? | | |
|---|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 12 | 16 |
| 4-Mostly | 23 | 32 |
| 5-Definitely | 37 | 51 |
| Total | 73 | 100 |

CO1

- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

| CO2: Are you able to Apply Knowledge and skill to solve societal problems in a group ? | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 0 | 0 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 8 | 11 |
| 4-Mostly | 30 | 41 |
| 5-Definitely | 33 | 45 |
| Total | 73 | 100 |

CO2

- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)

CO3: Are you able to draw the proper inferences from available results through theoretical/ experimental/simulations?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 8 | 11 |
| 4-Mostly | 26 | 36 |
| 5-Definitely | 38 | 52 |
| Total | 73 | 100 |

CO3

- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

CO4: Are you able to analyze the impact of solutions in societal and environmental context for sustainable development. ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 9 | 12 |
| 4-Mostly | 24 | 33 |
| 5-Definitely | 39 | 53 |
| Total | 73 | 100 |

CO4

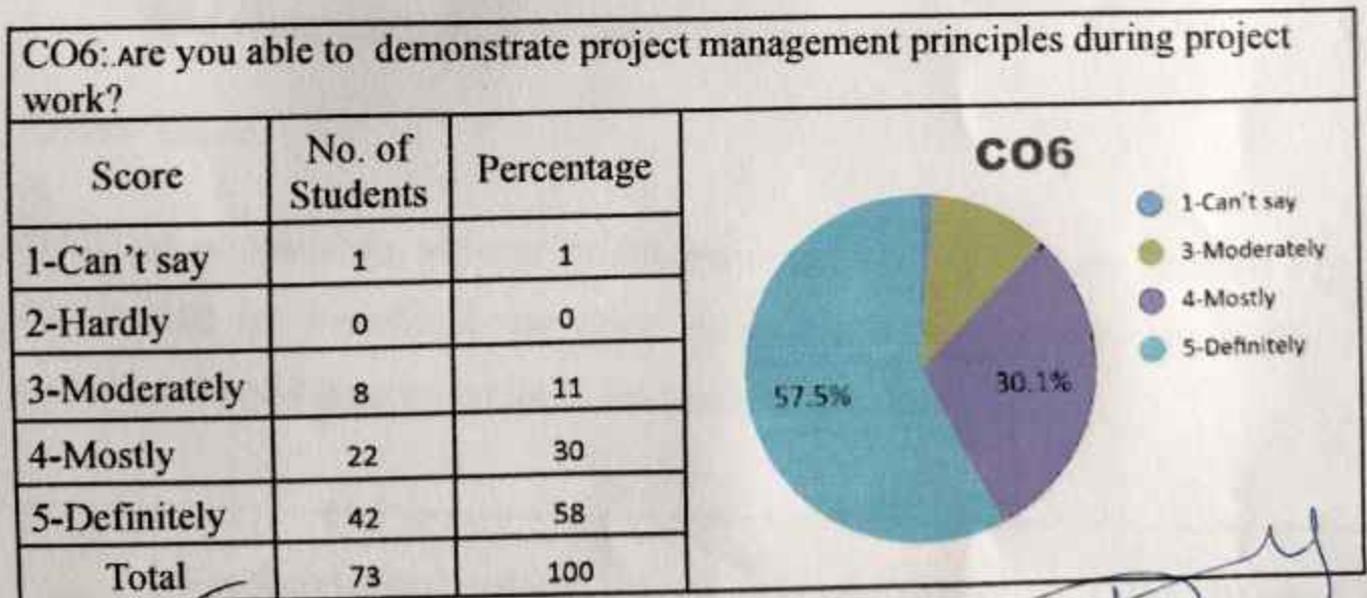
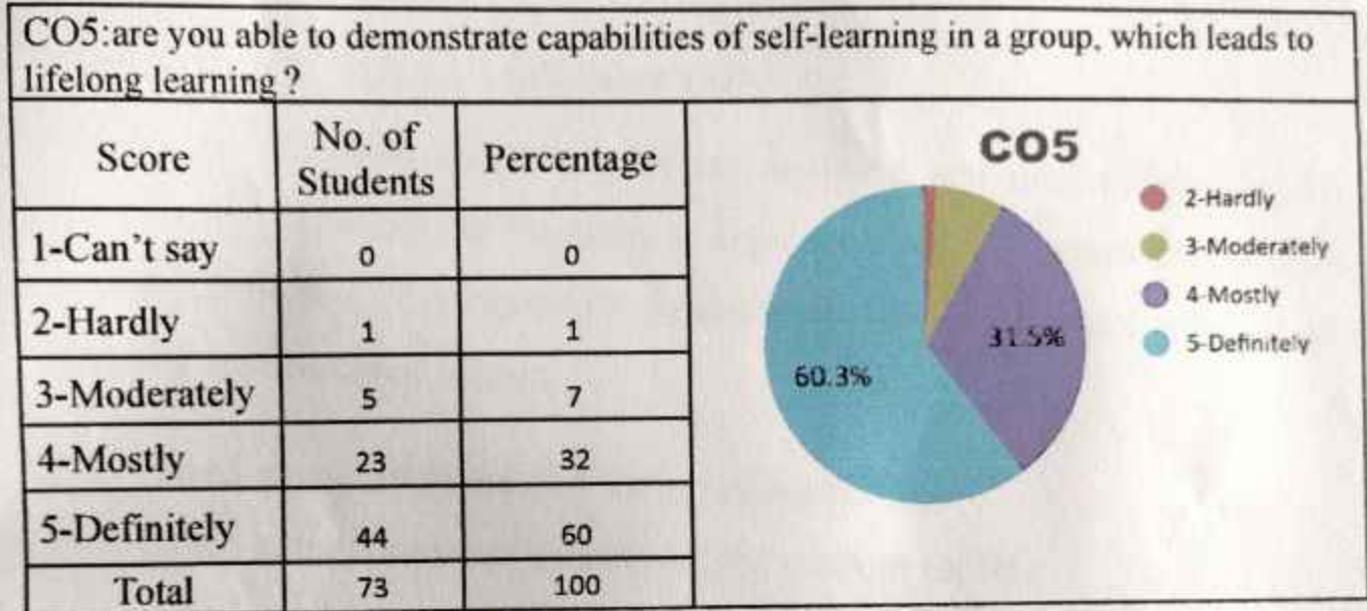
- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VIII)



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

Action taken based on feedback from students

Academic Year 2023-24(EVEN)

Summary of feedback – Semester VIII

Feedbacks collected from students are analyzed and implemented necessary actions for preparing the students to cope up with the present requirement in industry. Abstract of suggestions obtained to enhance the employability of the students are discussed below:

- Need animated videos for better understanding.
- Need extra content to understand the concept for RL
- Need more exposure to the latest technologies and practices in industry.
- Need some exposure to research and development.

Action Taken:

Based on suggestions, various events are organized. Events are selected such that it will be beneficial for their career. Details of events organized at Institutional and Department level are mentioned below.

| Sr. No. | Feedback/Suggestions | Actions Taken | Date |
|---------|---|--|------------|
| 1. | Latest technologies and practices in industry | Expert Seminar on "Navigating the Realm of Data Analytics, Data Science and Machine Learning". | 22/02/2024 |
| 2. | Research and Development | Process of Innovation Development and Technology | 28/02/2024 |



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| | | Readiness Level | |
|----|--------------------------|--|------------|
| 3. | Research and Development | Seminar on "Innovation and Entrepreneurship" | 28/06/2024 |

for Jawale

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

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**Principal
(SCOE)**

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

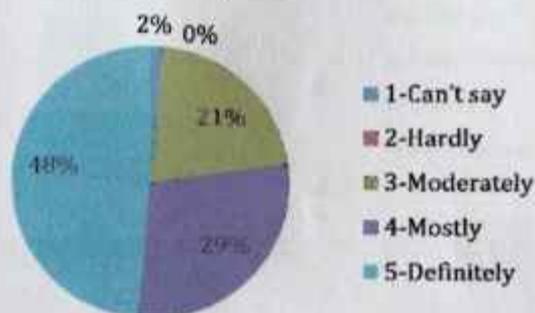
Course – Microprocessor (TH)

Course In-charge - Prof. Rajashri Narwade

CO1: Are you able to describe the core concepts of Intel 8086 microprocessor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 14 | 21 |
| 4-Mostly | 19 | 29 |
| 5-Definitely | 32 | 48 |
| Total | 66 | 100 |

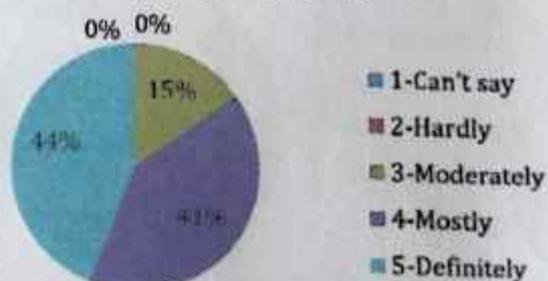
CO1: Are you able to describe the core concepts of Intel 8086 microprocessor?



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 0 |
| 3-Moderately | 9 | 15 |
| 4-Mostly | 26 | 41 |
| 5-Definitely | 30 | 44 |
| Total | 66 | 100 |

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





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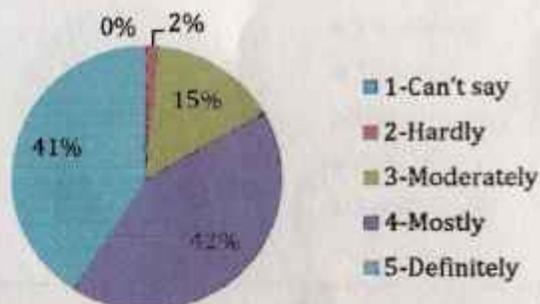
ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

CO3: Are you able to design 8086 based system using memory and peripheral chips?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 10 | 15 |
| 4-Mostly | 28 | 42 |
| 5-Definitely | 27 | 41 |
| Total | 66 | 100 |

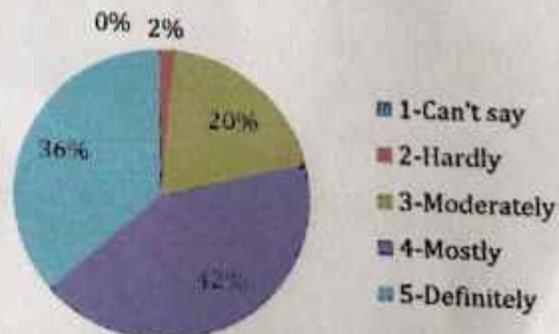
CO3: Are you able to design 8086 based system using memory and peripheral chips?



CO4: Are you able to describe the Intel 80386DX processor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 13 | 20 |
| 4-Mostly | 28 | 42 |
| 5-Definitely | 24 | 36 |
| Total | 66 | 100 |

CO4: Are you able to describe the Intel 80386DX processor?



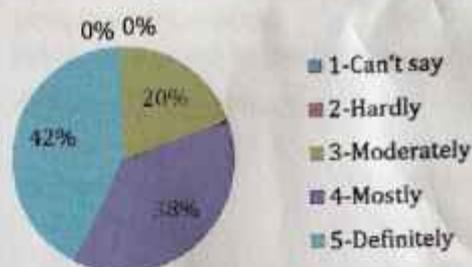


Course Exit Analysis Report (SEM IV)

CO5: Are you able to appraise the architecture of Pentium processor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 13 | 20 |
| 4-Mostly | 25 | 38 |
| 5-Definitely | 28 | 42 |
| Total | 66 | 100 |

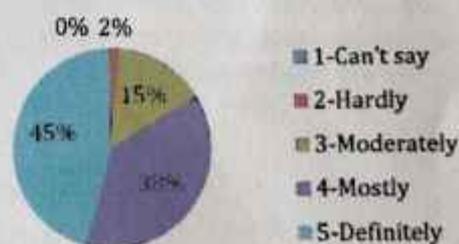
CO5: Are you able to appraise the architecture of Pentium processor?



CO6: Are you able to understand the concepts related to hyper threading technology of Pentium 4?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 10 | 15 |
| 4-Mostly | 25 | 38 |
| 5-Definitely | 30 | 45 |
| Total | 66 | 100 |

CO6: Are you able to understand the concepts related to hyper threading technology of Pentium 4?



For Yasale

HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

Course – Microprocessor (PR)

Course In-charge - Prof. Rajashri Narwade

| CO1: Are you able to use appropriate instructions to program Intel 8086 microprocessor to perform basic Arithmetic operations? | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 11 | 17 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 27 | 41 |
| Total | 66 | 100 |

CO1: Are you able to use appropriate instructions to program Intel 8086 microprocessor to perform basic Arithmetic operations ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0% |
| 2-Hardly | 1 | 2% |
| 3-Moderately | 11 | 17% |
| 4-Mostly | 27 | 41% |
| 5-Definitely | 27 | 41% |

| CO2: Are you able to develop the program in assembly language based on string instructions for Intel 8086 microprocessor? | | |
|---|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 10 | 15 |
| 4-Mostly | 29 | 44 |
| 5-Definitely | 26 | 39 |
| Total | 66 | 100 |

CO2: Are you able to develop the program in assembly language based on string instructions for Intel 8086 microprocessor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0% |
| 2-Hardly | 1 | 2% |
| 3-Moderately | 10 | 15% |
| 4-Mostly | 29 | 44% |
| 5-Definitely | 26 | 39% |

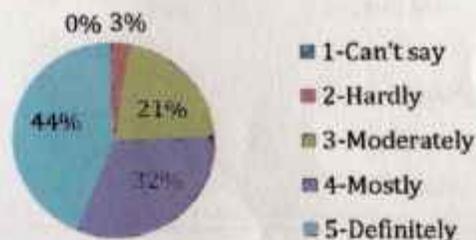


Course Exit Analysis Report (SEM IV)

CO3: Are you able to develop the program in assembly language to display the contents of the flag register Intel 8086 microprocessor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 14 | 21 |
| 4-Mostly | 21 | 32 |
| 5-Definitely | 29 | 44 |
| Total | 66 | 100 |

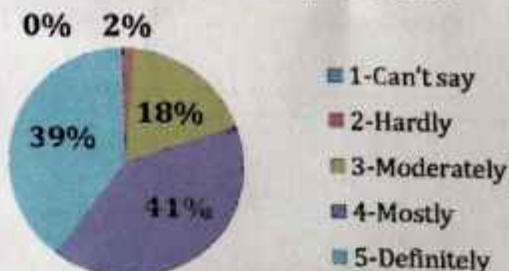
CO3: Are you able to develop the program in assembly language to display the contents of the flag register Intel 8086 microprocessor ?



CO4: Are you able to develop the program in assembly language in mixed language for Intel 8086 microprocessor?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 12 | 18 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 26 | 39 |
| Total | 66 | 100 |

CO4: Are you able to develop the program in assembly language in mixed language for Intel 8086 microprocessor?





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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

| CO5: Are you able to develop the program in assembly language to find minimum/maximum number from a given array for Intel 8086 microprocessor? | | | |
|--|-----------------|------------|--|
| Score | No. of Students | Percentage | |
| 1-Can't say | 0 | 0 | CO5: Are you able to develop the program in assembly language to find minimum/maximum number from a given array for Intel 8086 microprocessor? <ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely |
| 2-Hardly | 1 | 2 | |
| 3-Moderately | 10 | 15 | |
| 4-Mostly | 25 | 38 | |
| 5-Definitely | 30 | 45 | |
| Total | 66 | 100 | |

| CO6: Are you able to write program and interfacing of Stepper Motor? | | | |
|--|-----------------|------------|---|
| Score | No. of Students | Percentage | |
| 1-Can't say | 1 | 2 | CO6: Are you able to write program and interfacing of Stepper Motor ? <ul style="list-style-type: none">1-Can't say2-Hardly3-Moderately4-Mostly5-Definitely |
| 2-Hardly | 1 | 2 | |
| 3-Moderately | 9 | 14 | |
| 4-Mostly | 26 | 39 | |
| 5-Definitely | 29 | 44 | |
| Total | | | |

Dr. Yashale

HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

Course – Analysis of Algorithm (TH)

Course In-charge - Prof. Varsha Nawale

CO1: Are you able to analyze the running time and space complexity of algorithms ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 11 | 17 |
| 4-Mostly | 28 | 42 |
| 5-Definitely | 26 | 39 |
| Total | 66 | 100 |

CO1: Are you able to analyze the running time and space complexity of algorithms?

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

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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 9 | 14 |
| 4-Mostly | 26 | 39 |
| 5-Definitely | 30 | 45 |
| Total | 66 | 100 |

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

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

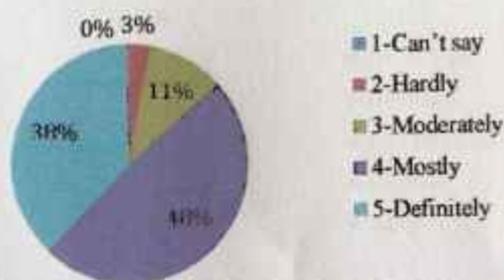


Course Exit Analysis Report (SEM IV)

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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 32 | 48 |
| 5-Definitely | 25 | 38 |
| Total | 66 | 100 |

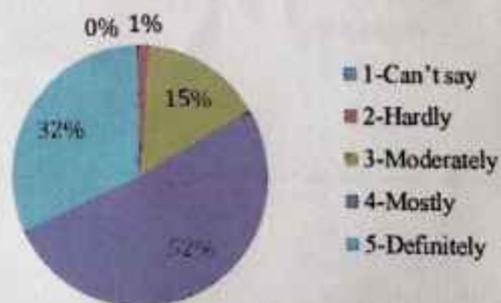
CO3: Are you able to describe, apply and analyze the complexity of greedy strategy?



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 10 | 15 |
| 4-Mostly | 34 | 52 |
| 5-Definitely | 21 | 32 |
| Total | 66 | 100 |

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





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

| CO5: Are you able to explain and apply backtracking, branch and bound? | | | |
|--|-----------------|------------|---|
| Score | No. of Students | Percentage | <p>CO5: Are you able to explain and apply backtracking, branch and bound?</p> <ul style="list-style-type: none"> ■ 1-Can't say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely |
| 1-Can't say | 0 | 0 | |
| 2-Hardly | 2 | 3 | |
| 3-Moderately | 9 | 14 | |
| 4-Mostly | 30 | 45 | |
| 5-Definitely | 25 | 38 | |
| Total | 66 | 100 | |

| CO6: are you able to explain and apply string matching techniques? | | | |
|--|-----------------|------------|---|
| Score | No. of Students | Percentage | <p>CO6: are you able to explain and apply string matching techniques?</p> <ul style="list-style-type: none"> ■ 1-Can't say ■ 2-Hardly ■ 3-Moderately ■ 4-Mostly ■ 5-Definitely |
| 1-Can't say | 1 | 2 | |
| 2-Hardly | 1 | 2 | |
| 3-Moderately | 9 | 14 | |
| 4-Mostly | 24 | 36 | |
| 5-Definitely | 31 | 47 | |
| Total | 66 | 100 | |

Dr. Chavale

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Course Exit Analysis Report (SEM IV)

Course – Analysis of Algorithm (PR)

Course In-charge - Prof. Varsha Nawale

| CO1: Are you able to analyze the running time and space complexity of algorithms? | | |
|---|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 2 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 10 | 15 |
| 4-Mostly | 24 | 36 |
| 5-Definitely | 30 | 45 |
| Total | 66 | 100 |

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

| CO2: Are you able to implement, analyze and compare the complexity of divide and conquer strategy? | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 2 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 6 | 9 |
| 4-Mostly | 28 | 42 |
| 5-Definitely | 30 | 47 |
| Total | 66 | 100 |

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



Course Exit Analysis Report (SEM IV)

CO3: Are you able to implement, analyze and compare the complexity of greedy strategy?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 6 | 9 |
| 4-Mostly | 30 | 45 |
| 5-Definitely | 27 | 41 |
| Total | 66 | 100 |

CO3: Are you able to implement, analyze and compare the complexity of greedy strategy?

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

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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 21 | 44 |
| Total | 66 | 100 |

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

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



Course Exit Analysis Report (SEM IV)

CO5: Are you able to implement, analyze and compare the complexity of backtracking, branch and bound?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 26 | 39 |
| 5-Definitely | 30 | 45 |
| Total | 66 | 100 |

CO5: Are you able to implement, analyze and compare the complexity of backtracking, branch and bound?

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

CO6: Are you able to implement, analyze and compare the complexity of string-matching techniques?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 31 | 44 |
| Total | 66 | 100 |

CO6: Are you able to implement, analyze and compare the complexity of string-matching techniques?

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

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Academic Year: 2023-24 (Even SEM)

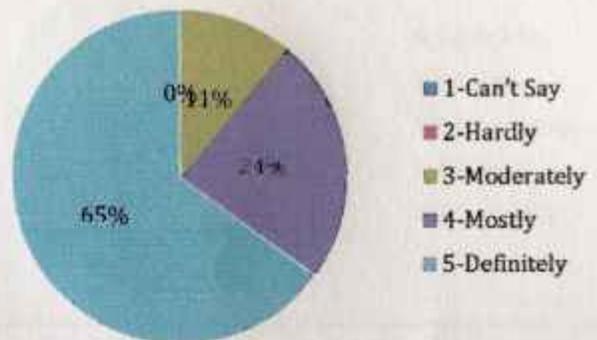
Course Exit Analysis Report (Sem - IV)

[Subject- Engineering Mathematics - 4

Subject Teacher - Prof. Abhishek Chauhan

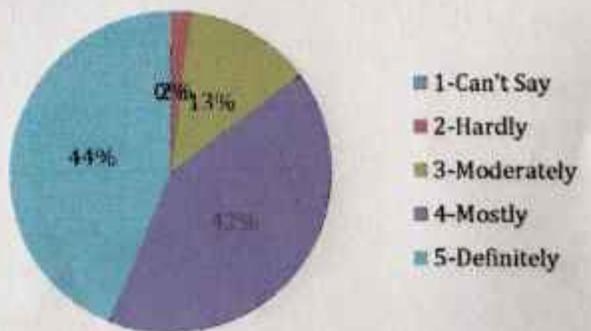
CO1: Are you able to apply the concepts of Eigenvalues and Eigenvectors in engineering problems ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 15 | 24 |
| 5-Definitely | 40 | 65 |
| Total | 62 | 100 |



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 8 | 13 |
| 4-Mostly | 26 | 42 |
| 5-Definitely | 27 | 44 |
| Total | 62 | 100 |





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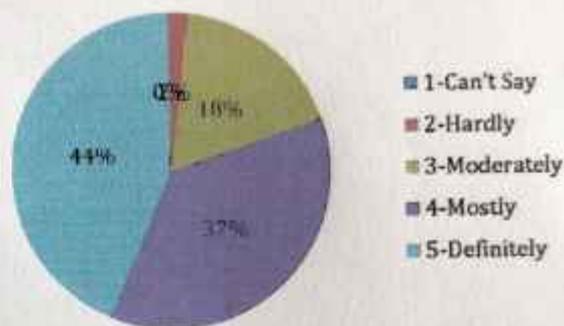
Department of Computer Science & Engineering AIML

Academic Year: 2023-24 (Even SEM)

Course Exit Analysis Report (Sem - IV)

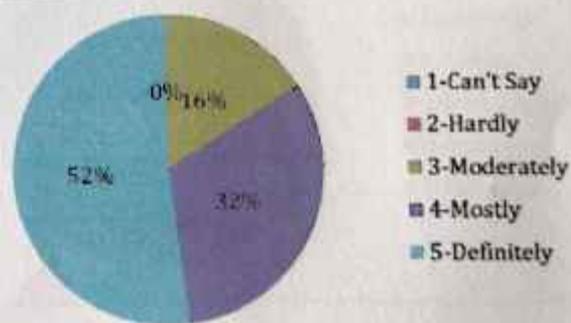
CO3: Are you able to apply the concept of Z- transformation and inverse in engineering problems.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0.00 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 11 | 18 |
| 4-Mostly | 23 | 37 |
| 5-Definitely | 27 | 44 |
| Total | 62 | 100 |



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 10 | 16 |
| 4-Mostly | 20 | 32 |
| 5-Definitely | 32 | 52 |
| Total | 62 | 100 |





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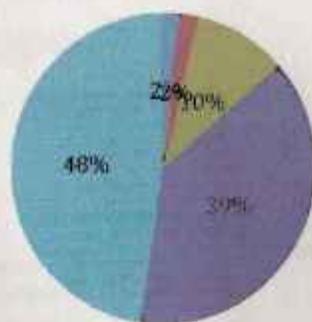
Department of Computer Science & Engineering AIML

Academic Year: 2023-24 (Even SEM)

Course Exit Analysis Report (Sem – IV)

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

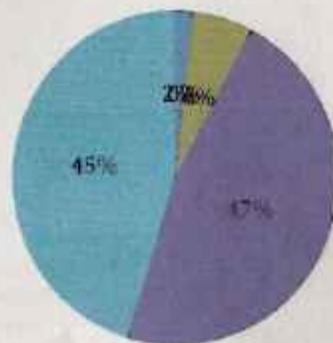
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 1 | 2 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 6 | 10 |
| 4-Mostly | 24 | 39 |
| 5-Definitely | 30 | 48 |
| Total | 62 | 100 |



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

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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 1 | 2 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 6 |
| 4-Mostly | 29 | 47 |
| 5-Definitely | 28 | 45 |
| Total | 62 | 100 |



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

Ar. Yawale

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Academic Year: 2023-2024 (EVEN SEM)

Course Exit Analysis Report (Sem IV)

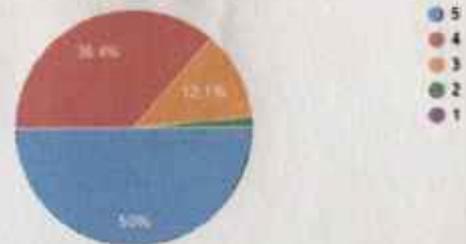
Subject: DBMS

Subject In-charge: Prof. Neha Mahajan

| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2 - Hardly | 1 | 1.5 |
| 3- Moderately | 8 | 12.1 |
| 4- Mostly | 24 | 36.4 |
| 5- Definitely | 33 | 50 |
| Total | 66 | 100 |

At the end of the course are you able to understand the basics of core components and architecture of DBMS

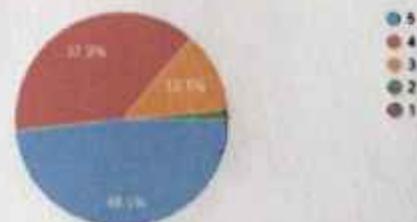
66 responses



| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2 - Hardly | 1 | 1.5 |
| 3- Moderately | 8 | 12.1 |
| 4- Mostly | 25 | 37.9 |
| 5- Definitely | 32 | 48.5 |
| Total | 66 | 100 |

At the end of the course are you able to understand the design of database schema and ER model.

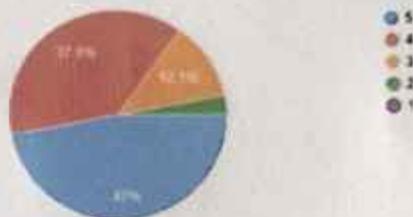
66 responses



| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2 - Hardly | 2 | 3 |
| 3- Moderately | 8 | 12.1 |
| 4- Mostly | 25 | 37.9 |
| 5- Definitely | 31 | 47 |
| Total | 66 | 100 |

At the end of the course are you able to understand the concept of different keys, constraints

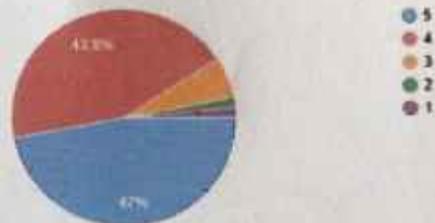
66 responses



| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2 - Hardly | 1 | 1.5 |
| 3- Moderately | 12 | 18.2 |
| 4- Mostly | 22 | 33.3 |
| 5- Definitely | 31 | 47 |
| Total | 66 | 100 |

At the end of the course are you able to understand characteristics of SQL, Operators and different types of SQL commands?

66 responses



| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 0 | 0 |
| 2 - Hardly | 1 | 1.5 |
| 3- Moderately | 12 | 18.2 |
| 4- Mostly | 22 | 33.3 |
| 5- Definitely | 31 | 47 |
| Total | 66 | 100 |

At the end of the course are you able to understand different forms of Normalization.

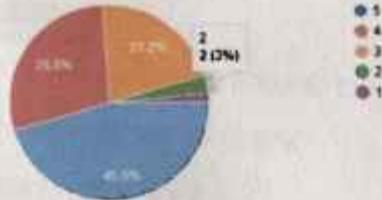
66 responses



| Score | No. of Students | Percentage (%) |
|---------------|-----------------|----------------|
| 1- Can't Say | 1 | 1.5 |
| 2 - Hardly | 2 | 3 |
| 3- Moderately | 14 | 21.2 |
| 4- Mostly | 19 | 28.8 |
| 5- Definitely | 30 | 45.5 |
| Total | 66 | 100 |

At the end of the course are you able to understand the transaction ACID properties and serializability ? *

66 responses



Dr. Yashve

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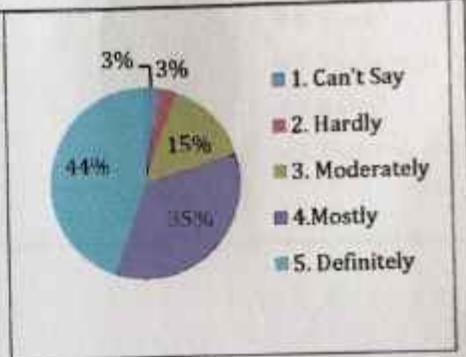
Course Exit Analysis Report (SEM IV)

Course Name- Database Management System Lab (CSL 402)

Course In-charge - Prof. Amita Raman

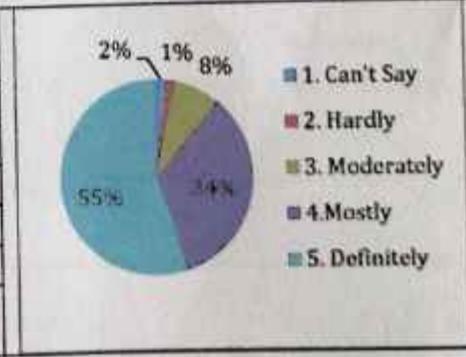
CO1: Are you able to design ER/EER diagram and convert to relational model for the real-world applications?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 3 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 6 | 15 |
| 4-Mostly | 25 | 35 |
| 5-Definitely | 32 | 44 |
| Total | 66 | 100 |



CO2: Are you able to apply DDL commands?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 2 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 5 | 8 |
| 4-Mostly | 22 | 34 |
| 5-Definitely | 36 | 55 |
| Total | 66 | 100 |





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Course Exit Analysis Report (SEM IV)

| CO3: Are you able to apply DML commands? | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 1 |
| 2-Hardly | 3 | 5 |
| 3-Moderately | 5 | 8 |
| 4-Mostly | 21 | 32 |
| 5-Definitely | 36 | 54 |
| Total | 66 | 100 |

| CO4: Are you able to apply DCL and TCL commands? | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 2 | 3 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 7 | 11 |
| 4-Mostly | 22 | 33 |
| 5-Definitely | 35 | 53 |
| Total | 66 | 100 |



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Course Exit Analysis Report (SEM IV)

CO5: Are you able to write simple and complex queries?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 12 | 18 |
| 4-Mostly | 19 | 29 |
| 5-Definitely | 33 | 50 |
| Total | 66 | 100 |

Legend for CO5:

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

CO6: Are you able to use PL/SQL constructs?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 11 | 17 |
| 4-Mostly | 21 | 32 |
| 5-Definitely | 32 | 48 |
| Total | 66 | 100 |

Legend for CO6:

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

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ACADEMIC YEAR 2023-24

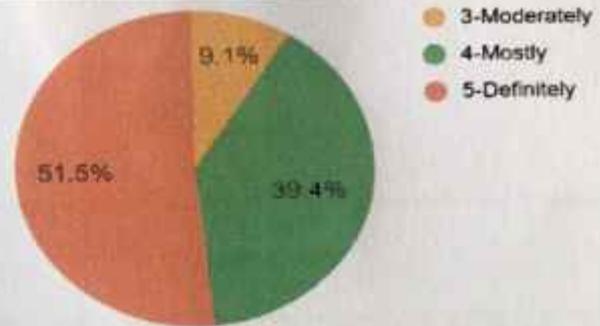
Course Exit Analysis Report (SEM IV)

Course - Python -IV

Course Incharge - Prof. Yugandhara Gaware

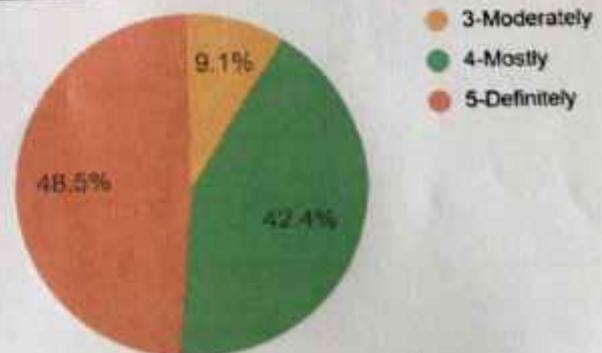
CO1: Are you able to understand the basic concepts of Python?

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 0 | 0.0 |
| 3-Moderately | 6 | 9.1 |
| 4-Mostly | 26 | 39.4 |
| 5-Definitely | 34 | 51.5 |
| Total | 66 | 100.0 |



CO2: Are you able to explore the contents of files, directories, and text processing with python?.

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 0 | 0.0 |
| 3-Moderately | 6 | 9.1 |
| 4-Mostly | 28 | 42.4 |
| 5-Definitely | 32 | 48.5 |
| Total | 66 | 100.0 |

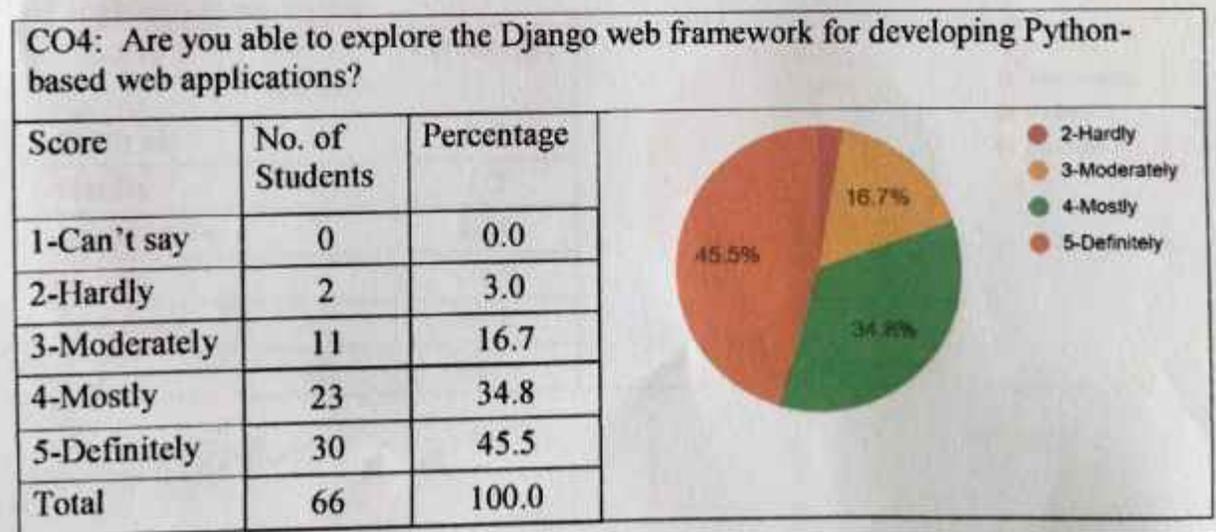
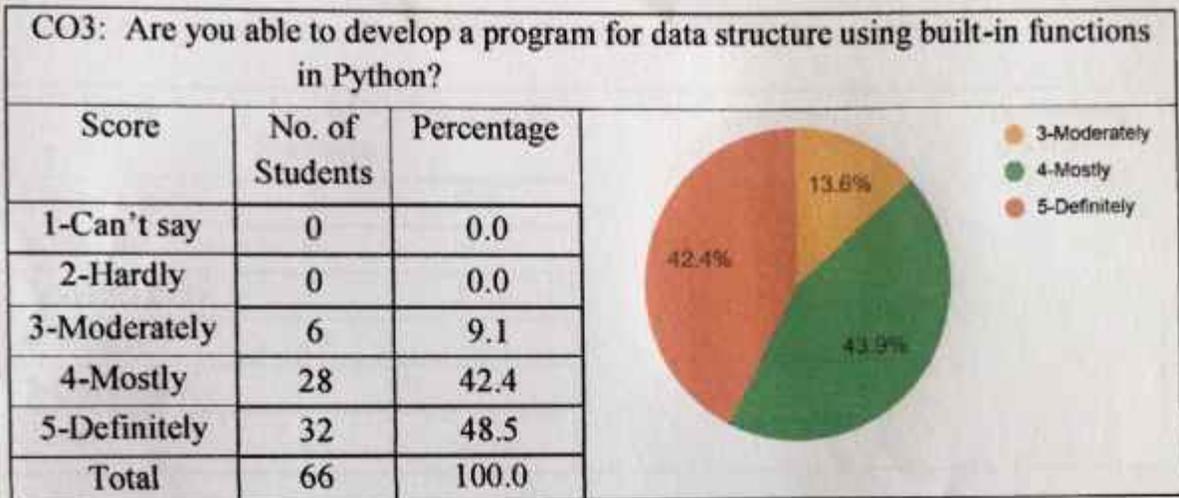




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Course Exit Analysis Report (SEM IV)





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Course Exit Analysis Report (SEM IV)

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

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 0 | 0.0 |
| 3-Moderately | 9 | 13.6 |
| 4-Mostly | 24 | 36.4 |
| 5-Definitely | 33 | 50.0 |
| Total | 66 | 100.0 |

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

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.5 |
| 3-Moderately | 7 | 10.6 |
| 4-Mostly | 25 | 37.9 |
| 5-Definitely | 33 | 50.0 |
| Total | 66 | 100.0 |

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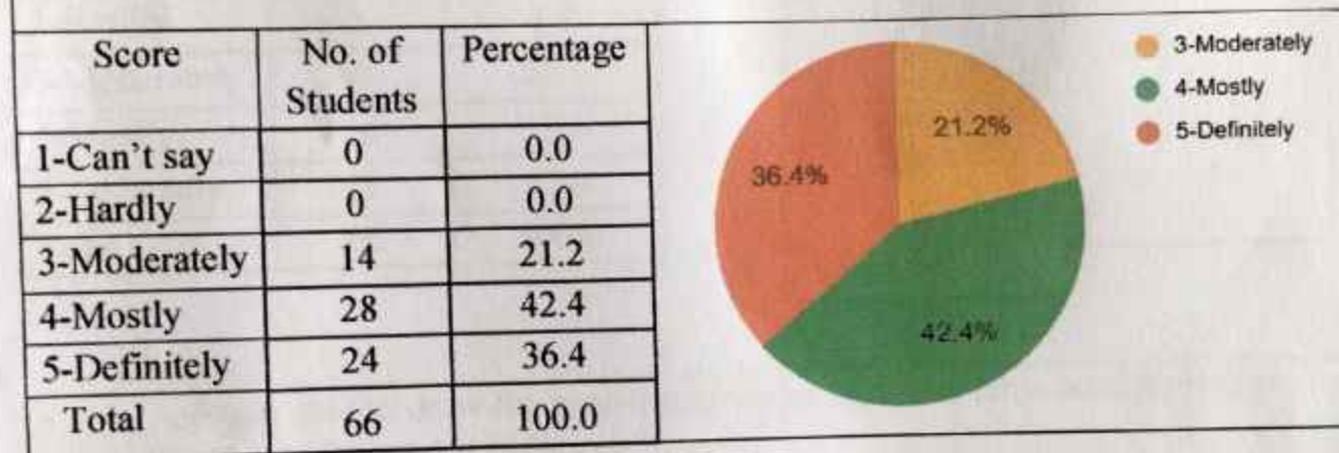
ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

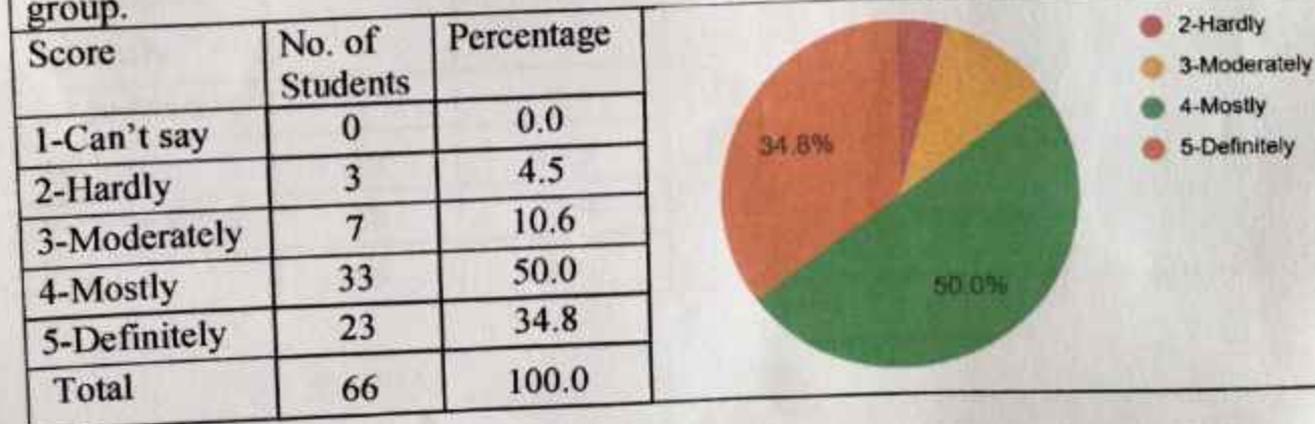
Course - Mini Project(1B) -IV

Course Incharge - Prof. Yugandhara Gaware

CO1: Are you able to identify problems based on societal /research needs?



CO2: Are you able to apply Knowledge and skill to solve societal problems in a group.





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Course Exit Analysis Report (SEM IV)

CO3: Are you able to develop interpersonal skills to work as member of a group or leader?

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.5 |
| 3-Moderately | 8 | 12.1 |
| 4-Mostly | 26 | 39.4 |
| 5-Definitely | 31 | 47.0 |
| Total | 66 | 100.0 |

CO4: Are you able to draw the proper inferences from available results through theoretical/ experimental/simulations?

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.5 |
| 3-Moderately | 7 | 10.6 |
| 4-Mostly | 30 | 45.5 |
| 5-Definitely | 28 | 42.4 |
| Total | 66 | 100.0 |



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Course Exit Analysis Report (SEM IV)

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

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 1 | 1.5 |
| 2-Hardly | 0 | 0.0 |
| 3-Moderately | 10 | 15.2 |
| 4-Mostly | 27 | 40.9 |
| 5-Definitely | 28 | 42.4 |
| Total | 66 | 100.0 |

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

| Score | No. of Students | Percentage |
|--------------|-----------------|--------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 2 | 3.0 |
| 3-Moderately | 10 | 15.2 |
| 4-Mostly | 27 | 40.9 |
| 5-Definitely | 27 | 40.9 |
| Total | 66 | 100.0 |

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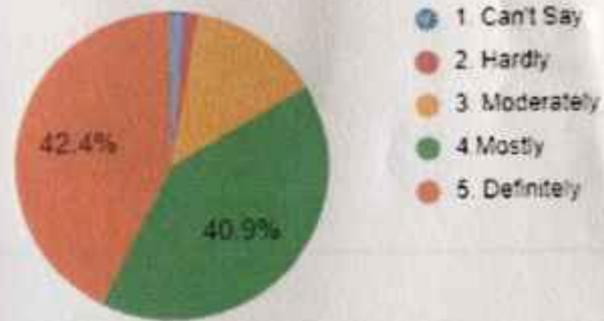
Course Exit Analysis Report (SEM IV)

Course - Operating System Lab

Course Incharge - Prof. Samidha Tandel

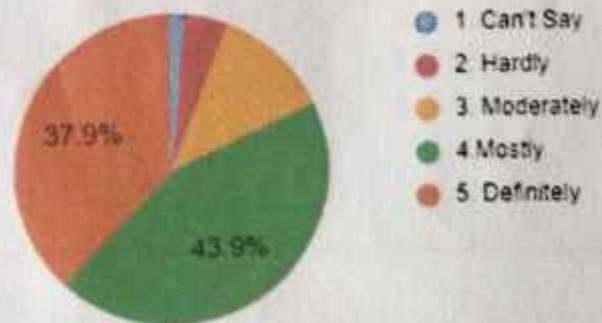
CO1: Are you able to demonstrate basic OS commands, shell scripts, system calls with respect to LINUX ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.5 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 9 | 14 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 28 | 42 |
| Total | 66 | 100 |



CO2: Are you able to implement various process scheduling algorithms and evaluate their performance ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 3 | 5 |
| 3-Moderately | 8 | 12 |
| 4-Mostly | 29 | 44 |
| 5-Definitely | 25 | 38 |
| Total | 66 | 100 |





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Course Exit Analysis Report (SEM IV)

CO3: Are you able to implement and analyze the concepts of synchronization and deadlocks ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.52 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 14 | 21 |
| 4-Mostly | 25 | 38 |
| 5-Definitely | 24 | 36 |
| Total | 66 | 100 |

Legend for CO3:

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

CO4: Are you able to implement various memory management techniques and evaluate their performance ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 1 | 2 |
| 3-Moderately | 12 | 18 |
| 4-Mostly | 27 | 41 |
| 5-Definitely | 24 | 36 |
| Total | 66 | 100 |

Legend for CO4:

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



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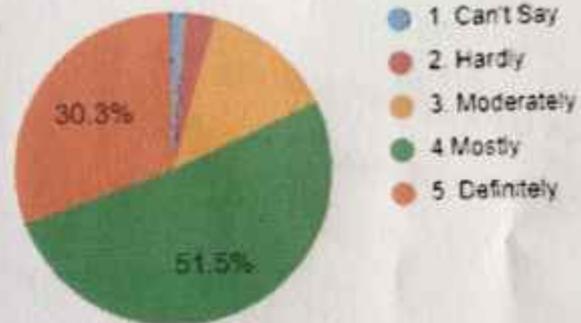
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM IV)

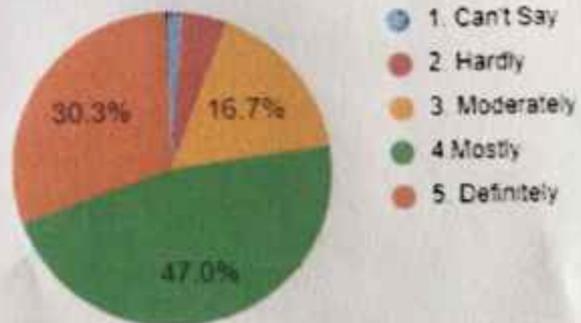
CO5: Are you able to implement and analyze concepts of virtual memory ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 9 | 14 |
| 4-Mostly | 34 | 52 |
| 5-Definitely | 20 | 30 |
| Total | 66 | 100 |



CO6: Are you able to demonstrate the concepts of file management and I/O management techniques ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 2 |
| 2-Hardly | 3 | 5 |
| 3-Moderately | 11 | 17 |
| 4-Mostly | 31 | 47 |
| 5-Definitely | 20 | 30 |
| Total | 66 | 100 |



for *Gawale*

HOD

Prof. Shraddha Subhedar

Department of CSE in AIML

Saraswati College of Engineering

Kharghar, Navi Mumbai-410210

Dr. Manjusha Deshmukh

Principal

Dr. Manjusha Deshmukh

PRINCIPAL

Saraswati College of Engineering

Kharghar, Navi Mumbai-410210



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

Action taken based on feedback from students

Academic Year 2023-24(EVEN)

Summary of feedback – Semester IV

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

- More practice for Engineering Mathematics IV
- Exposure of software related to the core subjects like python IDE's, MySQL, dbdiagram for ER diagrams in curriculum.
- Need animated videos for better understanding.
- Need awareness about the latest technologies and practices in industry.

Action Taken:

Based on suggestions, various events are organized. Events are selected such that it will be beneficial for their career. Details of events organized at Institutional and Department level are mentioned below.

| Sr. No. | Feedback/Suggestions | Actions Taken | Date |
|---------|----------------------------------|------------------------------------|-------------|
| 1 | More practice problems for EM-IV | Extra classes were taken for EM-IV | As Required |



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| | | | |
|----|---|--|-------------|
| 2. | Required more numerical on CPU Scheduling algorithms. | <u>CPU Scheduling Practice Problems Numericals Gate Vidyalay</u> | As Required |
| 3. | Latest technologies and practices in industry | Seminar on "SQL and relational database management systems". | 22/03/2024 |
| 4. | Latest technologies and practices in industry | Expert Seminar on "Cryptography systems and security". | 9/02/2024 |

For Clause

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

Department of CSE in AIML
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210

**Principal
(SCOE)**

PRINCIPAL

Saraswati College of Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)

Course- SEPM

Course Incharge -Dr.Chanchal Sharma

CO1: Are you able to understand the knowledge of software engineering discipline?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 5 | 6 |
| 2-Hardly | 6 | 8 |
| 3-Moderately | 7 | 10 |
| 4-Mostly | 32 | 44 |
| 5-Definitely | 23 | 32 |
| Total | 73 | 100 |

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

CO2: : Are you able to understand the Requirements of software development?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 8 | 11 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 42 | 57 |
| Total | 73 | 100 |

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



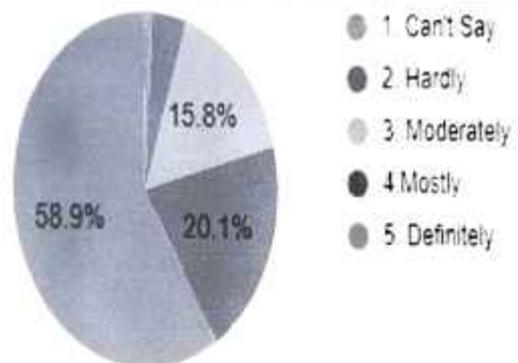
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)

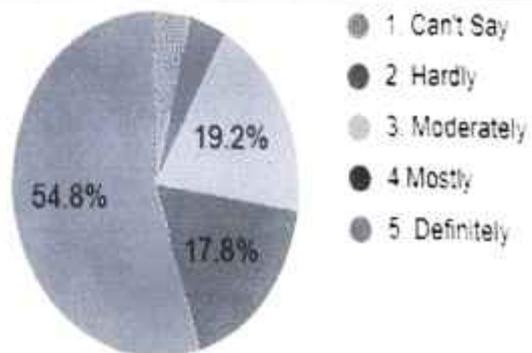
CO3: Are you able to plan, schedule and track the progress of the projects.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 4 | 5 |
| 3-Moderately | 11 | 15 |
| 4-Mostly | 14 | 19 |
| 5-Definitely | 41 | 56 |
| Total | 73 | 100 |



CO4: Are you able to To Design & develop the software solutions for the growth of society

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 14 | 19 |
| 4-Mostly | 13 | 18 |
| 5-Definitely | 40 | 55 |
| Total | 73 | 100 |





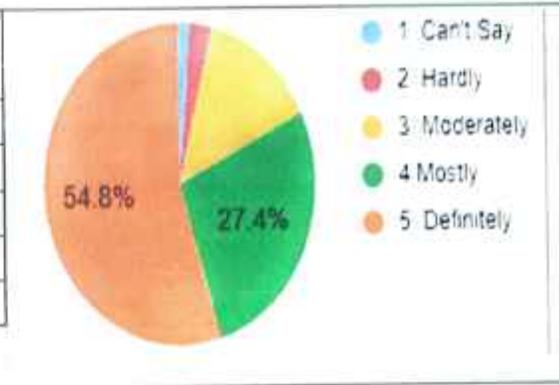
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)

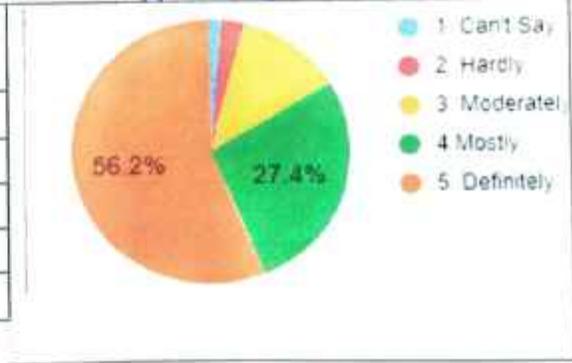
CO5: Are you able to Apply understand the Apply testing and assure quality in software solutions

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 10 | 14 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 40 | 55 |
| Total | 73 | 100 |



CO6: Are you able to understand Generate project schedule and can construct, design and develop network diagram for different type of Projects.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 9 | 12 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 41 | 56 |
| Total | 73 | 100 |



for A. Pawale

HOD

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Program Exit Analysis Report

PO1: Apply the knowledge of Mathematics, Science and engineering fundamentals to solve complex Artificial Intelligence problems.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 4 | 5 |
| 3- Moderately Relevant | 11 | 15 |
| 4- Relevant | 21 | 29 |
| 5-Very Relevant | 36 | 49 |
| Total | 73 | 100 |

PO1

■ 1-Can't say
■ 2- Least Relevant
■ 3- Moderately Relevant
■ 4- Relevant
■ 5-Very Relevant

PO2: Identify, formulate and analyze data analysis problems and derive conclusion using first principle of mathematics, engineering science and computer science.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 3 | 4 |
| 3- Moderately Relevant | 14 | 19 |
| 4- Relevant | 24 | 33 |
| 5-Very Relevant | 31 | 42 |
| Total | 73 | 100 |

PO2

■ 1-Can't say
■ 2- Least Relevant
■ 3- Moderately Relevant
■ 4- Relevant
■ 5-Very Relevant



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML
ACADEMIC YEAR 2023-24

Program Exit Analysis Report

PO3: Investigate complex Artificial Intelligence problems to find appropriate solutions leading to valid conclusions.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 2 | 3 |
| 3- Moderately Relevant | 15 | 21 |
| 4- Relevant | 27 | 37 |
| 5-Very Relevant | 28 | 38 |
| Total | 73 | 100 |

PO3

- 1-Can't say
- 2- Least Relevant
- 3- Moderately Relevant
- 4- Relevant
- 5-Very Relevant

PO4: Design an Artificial Intelligence model, process to meet specified needs with appropriate attention to health and safety standards, environmental and societal consideration.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 5 | 7 |
| 3- Moderately Relevant | 12 | 16 |
| 4- Relevant | 27 | 37 |
| 5-Very Relevant | 28 | 38 |
| Total | 73 | 100 |

PO4

- 1-Can't say
- 2- Least Relevant
- 3- Moderately Relevant
- 4- Relevant
- 5-Very Relevant



Program Exit Analysis Report

PO5: Create, select and apply appropriate techniques, resources and advance engineering software to analyze tools and design for Artificial Intelligence problems.

| Score | No. of Students | Percentage | PO5 <ul style="list-style-type: none">■ 1-Can't say■ 2-Least Relevant■ 3-Moderately Relevant■ 4-Relevant■ 5-Very Relevant |
|-----------------------|-----------------|------------|---|
| 1-Can't say | 1 | 1 | |
| 2-Least Relevant | 3 | 4 | |
| 3-Moderately Relevant | 10 | 14 | |
| 4-Relevant | 32 | 44 | |
| 5-Very Relevant | 27 | 37 | |
| Total | 73 | 100 | |

PO6: Understand the impact of artificial intelligence solutions on society and the environment for sustainable development.

| Score | No. of Students | Percentage | PO6 <ul style="list-style-type: none">■ 1-Can't say■ 2-Least Relevant■ 3-Moderately Relevant■ 4-Relevant■ 5-Very Relevant |
|-----------------------|-----------------|------------|---|
| 1-Can't say | 1 | 1 | |
| 2-Least Relevant | 5 | 7 | |
| 3-Moderately Relevant | 14 | 19 | |
| 4-Relevant | 21 | 29 | |
| 5-Very Relevant | 32 | 44 | |
| Total | 73 | 100 | |



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Program Exit Analysis Report

| PO7: Understand social, health, safety, cultural, legal issues and responsibilities relevant to engineering profession. | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 5 | 7 |
| 3- Moderately Relevant | 11 | 15 |
| 4- Relevant | 26 | 36 |
| 5-Very Relevant | 30 | 41 |
| Total | 73 | 100 |

PO7

- 1-Can't say
- 2- Least Relevant
- 3- Moderately Relevant
- 4- Relevant

| PO8: Apply professional ethics, accountability and equity in the engineering profession. | | |
|---|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 2 | 3 |
| 3- Moderately Relevant | 12 | 16 |
| 4- Relevant | 29 | 40 |
| 5-Very Relevant | 29 | 40 |
| Total | 73 | 100 |

PO8

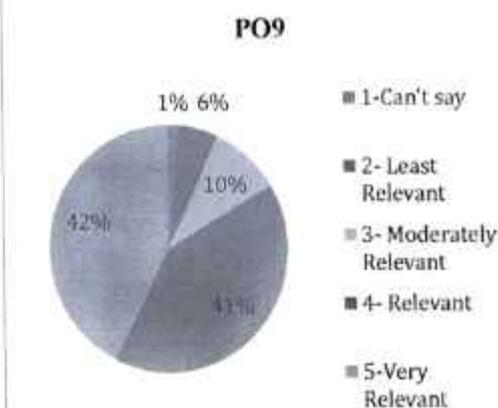
- 1-Can't say
- 2- Least Relevant
- 3- Moderately Relevant
- 4- Relevant
- 5-Very Relevant



Program Exit Analysis Report

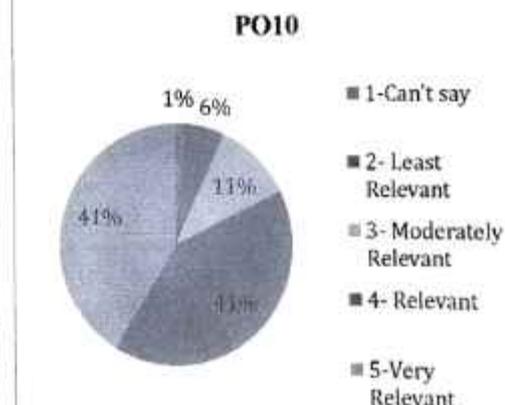
PO9: Work effectively as a member and leader in a multidisciplinary team for a common goal.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 4 | 5 |
| 3- Moderately Relevant | 7 | 10 |
| 4- Relevant | 30 | 41 |
| 5-Very Relevant | 31 | 42 |
| Total | 73 | 100 |



PO10: Communicate effectively within a profession and society at large.

| Score | No. of Students | Percentage |
|------------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2- Least Relevant | 4 | 5 |
| 3- Moderately Relevant | 8 | 11 |
| 4- Relevant | 30 | 41 |
| 5-Very Relevant | 30 | 41 |
| Total | 73 | 100 |





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ACADEMIC YEAR 2023-24

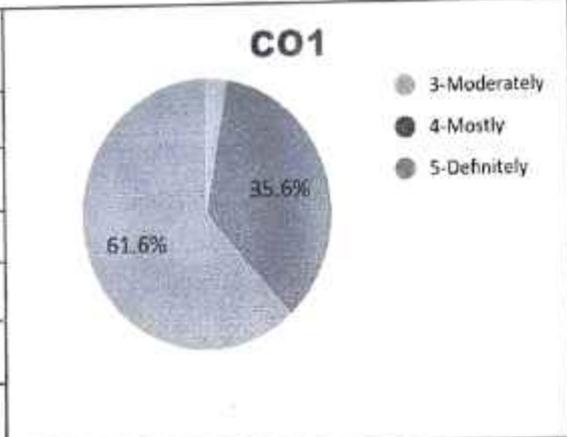
Course Exit Analysis Report (SEM VI)

Course – Software Engineering Project Management(PR)

Course In-charge - Prof.Snehal Gavale

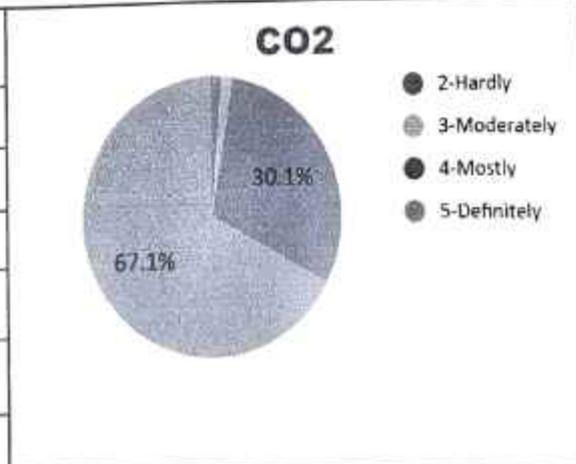
CO1: Are you able to understand the fundamentals of DevOps engineering and be fully proficient with DevOps

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 2 | 3 |
| 4-Mostly | 26 | 36 |
| 5-Definitely | 45 | 62 |
| Total | 73 | 100 |



CO2: Are you able to obtain complete knowledge of the version control system to effectively track changes

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 1 | 1 |
| 4-Mostly | 22 | 30 |
| 5-Definitely | 49 | 67 |
| Total | 73 | 100 |





Course Exit Analysis Report (SEM VI)

CO3: Are you able to Understand the importance of Selenium and Jenkins to test Software Applications?

| Score | No. of Students | Percentage | CO3 <ul style="list-style-type: none">3-Moderately4-Mostly5-Definitely |
|--------------|-----------------|------------|--|
| 1-Can't say | 0 | 0 | |
| 2-Hardly | 0 | 0 | |
| 3-Moderately | 3 | 4 | |
| 4-Mostly | 18 | 25 | |
| 5-Definitely | 52 | 71 | |
| Total | 73 | 100 | |

CO4: Are you able to understand the importance of Jenkins to Build and deploy Software Applications on server environments?

| Score | No. of Students | Percentage | CO4 <ul style="list-style-type: none">3-Moderately4-Mostly5-Definitely |
|--------------|-----------------|------------|--|
| 1-Can't say | 0 | 0 | |
| 2-Hardly | 0 | 0 | |
| 3-Moderately | 3 | 4 | |
| 4-Mostly | 25 | 34 | |
| 5-Definitely | 45 | 62 | |
| Total | 73 | 100 | |



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

CO5: Are you able to learn Dockerfile instructions, build an image for a sample Java application using Dockerfile?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 5 | 7 |
| 4-Mostly | 19 | 26 |
| 5-Definitely | 49 | 67 |
| Total | 73 | 100 |

CO5

- 3-Moderately
- 4-Mostly
- 5-Definitely

CO6: Are you able to understand Configuration Management & to study various Configuration Management tools ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 4 | 5 |
| 4-Mostly | 23 | 32 |
| 5-Definitely | 46 | 63 |
| Total | 73 | 100 |

CO6

- 3-Moderately
- 4-Mostly
- 5-Definitely

for [Signature]

HOD

Department of CSE in AIML
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210

[Signature]

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

Course – Machine Learning

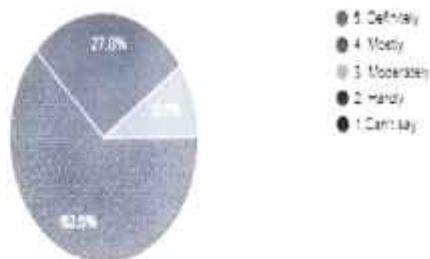
Course In-charge - Prof. Shraddha Subhedar

CO1: Are you able to elaborate Steps of developing a Machine Learning Application?

| Levels | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 7 | 9.7 |
| 4-Mostly | 20 | 27.8 |
| 5-Definitely | 45 | 62.5 |
| Total | 72 | 100 |

1. Are you able to elaborate Steps of developing a Machine Learning Application?

72 responses

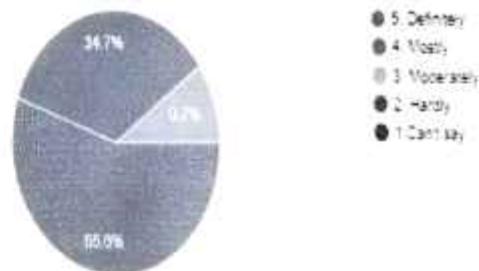


CO2: On what scale, have you understood diagonalization technique?

| Levels | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 7 | 9.7 |
| 4-Mostly | 25 | 34.7 |
| 5-Definitely | 40 | 55.6 |
| Total | 72 | 100 |

2. On what scale, have you understood diagonalization technique?

72 responses





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

CO3: Are you able to apply the least-squares method to interpret the least square regression line ?

| Levels | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 8 | 11.1 |
| 4-Mostly | 24 | 33.3 |
| 5-Definitely | 39 | 54.2 |
| Total | 72 | 100 |

3. Are you able to apply the least-squares method to interpret the least square regression line ?

72 responses

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

CO4: To what extent have you understood the Expectation -Maximization algorithm for clustering ?

| Levels | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0 |
| 2-Hardly | 0 | 0 |
| 3-Moderately | 9 | 12.5 |
| 4-Mostly | 22 | 30.6 |
| 5-Definitely | 41 | 56.9 |
| Total | 72 | 100 |

4. To what extent you have understood Expectation -Maximization algorithm for clustering ?

72 responses

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



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

CO5: Do you understand the working of McCulloch-Pitts Model(MP model) ?

| Levels | No. of Students | Percentage | 5. Do you understand the working of McCulloch-Pitts Model(MP model) ? |
|--------------|-----------------|------------|--|
| 1-Can't say | 0 | 0 | 72 responses  |
| 2-Hardly | 1 | 1.4 | |
| 3-Moderately | 11 | 15.3 | |
| 4-Mostly | 21 | 29.2 | |
| 5-Definitely | 39 | 54.2 | |
| Total | 72 | 100 | |

CO6: What extent have you understood Feature Selection and Feature Extraction in Dimensionality Reduction?

| Score | No. of Students | Percentage | 6. What extent you have understood Feature Selection and Feature Extraction in Dimensionality Reduction? |
|--------------|-----------------|------------|--|
| 1-Can't say | 0 | 0 | 72 responses  |
| 2-Hardly | 0 | 0 | |
| 3-Moderately | 7 | 9.7 | |
| 4-Mostly | 20 | 27.8 | |
| 5-Definitely | 45 | 62.5 | |
| Total | 72 | 100 | |

for
Opawale

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Course Exit Analysis Report (SEM VI)

Course - Machine Learning Lab

Course Incharge - Prof. Samidha Tandel

CO1: Are you able to understand the basic concepts and platforms related to machine learning ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.36 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 7 | 10 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 44 | 60 |
| Total | 73 | 100 |

Legend for CO1:

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

CO2: Are you able to understand various machine learning models ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 9 | 12 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 38 | 52 |
| Total | 73 | 100 |

Legend for CO2:

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



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

CO3: Are you able to apply suitable machine learning techniques for a given problem ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.37 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 13 | 18 |
| 4-Mostly | 22 | 30 |
| 5-Definitely | 35 | 48 |
| Total | 73 | 100 |

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

CO4: Are you able to implement the neural network based models ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 6 | 8 |
| 4-Mostly | 23 | 32 |
| 5-Definitely | 40 | 55 |
| Total | 73 | 100 |

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



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

| CO5: Are you able to apply dimensionality reduction techniques ? | | | |
|--|-----------------|------------|---|
| Score | No. of Students | Percentage | |
| 1-Can't say | 2 | 3 | <ul style="list-style-type: none">1-Can't Say2-Hardly3-Moderately4-Mostly5-Definitely |
| 2-Hardly | 2 | 3 | |
| 3-Moderately | 11 | 15 | |
| 4-Mostly | 18 | 25 | |
| 5-Definitely | 40 | 55 | |
| Total | 73 | 100 | |

| CO6 : Are you able to understand the basic concepts of deep neural network models ? | | | |
|---|-----------------|------------|---|
| Score | No. of Students | Percentage | |
| 1-Can't say | 1 | 1 | <ul style="list-style-type: none">1-Can't Say2-Hardly3-Moderately4-Mostly5-Definitely |
| 2-Hardly | 4 | 5 | |
| 3-Moderately | 8 | 11 | |
| 4-Mostly | 23 | 32 | |
| 5-Definitely | 37 | 51 | |
| Total | 73 | 100 | |

For *Chavale*

HOD

Prof. Shradha Subhedar

Department of CSE in AIML
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Kharghar, Navi Mumbai-410210

Dr. Manjusha
Principal

Dr. Manjusha Deshmukh

Saraswati College of Engineering
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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

Course- Distributed Computing (TH)

Course Incharge - Prof. Maya Bangar

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

| Score | No. of Students | Percentage |
|------------------|-----------------|------------|
| 1-Can't say | 1 | 1.3698 |
| 2-Hardly | 1 | 1 |
| 3-Moderatel y | 7 | 10 |
| 4-Mostly | 26 | 36 |
| 5-Definitely | 38 | 52 |
| Total | 73 | 100 |

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

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

| Score | No. of Students | Percentage |
|------------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 2 | 3 |
| 3-Moderatel y | 10 | 14 |
| 4-Mostly | 29 | 40 |
| 5-Definitely | 31 | 42 |
| Total | 73 | 100 |

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



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Course Exit Analysis Report (SEM VI)

| CO3: Are you able to analyze the various techniques used for clock synchronization and mutual exclusion | | |
|---|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 1 | 1.37 |
| 2-Hardly | 1 | 1 |
| 3-Moderately | 11 | 15 |
| 4-Mostly | 27 | 37 |
| 5-Definitely | 33 | 45 |
| Total | 73 | 100 |

| CO4: Are you able to Demonstrate the concepts of Resource and Process management and synchronization algorithms. | | |
|--|-----------------|------------|
| Score | No. of Students | Percentage |
| 1-Can't say | 2 | 3 |
| 2-Hardly | 5 | 7 |
| 3-Moderately | 5 | 7 |
| 4-Mostly | 25 | 34 |
| 5-Definitely | 36 | 49 |
| Total | 73 | 100 |



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ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

CO5: Are you able to Demonstrate the concepts of Consistency and Replication Management.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 9 | 12 |
| 4-Mostly | 18 | 25 |
| 5-Definitely | 42 | 58 |
| Total | 73 | 100 |

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

CO6: Are you able to Apply the knowledge of Distributed File System to analyze various file systems like NFS, AFS and the experience in building large-scale distributed applications.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 4 | 5 |
| 3-Moderately | 14 | 19 |
| 4-Mostly | 15 | 21 |
| 5-Definitely | 38 | 52 |
| Total | 73 | 100 |

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

Prof. *[Signature]*
HOD

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Academic Year: 2023-24 (EVEN SEM)

Course Exit Analysis Report (Sem - VI)

Subject- Data analytics and visualization

Subject Teacher - Prof. Abhishek Chauhan

CO1: Are you able to comprehend basics of data analytics and visualization?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 0 | 0% |
| 3-Moderately | 7 | 10% |
| 4-Mostly | 18 | 25% |
| 5-Definitely | 48 | 66% |
| Total | 73 | 100% |

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

CO2: Are you able to apply various regression models on given data set and perform prediction?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 0 | 0% |
| 3-Moderately | 6 | 8% |
| 4-Mostly | 23 | 32% |
| 5-Definitely | 44 | 60% |
| Total | 73 | 100% |

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



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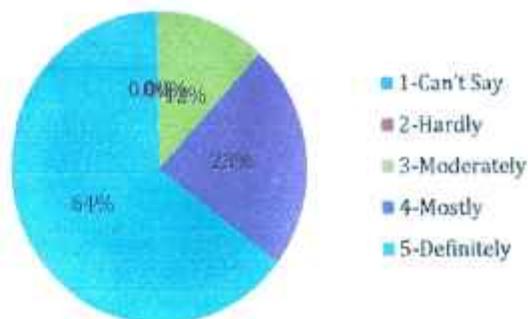
Department of Computer Science & Engineering AIML

Academic Year: 2023-24 (EVEN SEM)

Course Exit Analysis Report (Sem - VI)

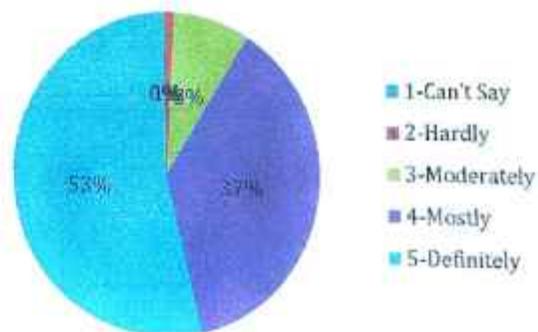
CO3: Are you able to demonstrate advance understanding of time series concepts and analysis of data using various time series models?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0.00% |
| 2-Hardly | 0 | 0% |
| 3-Moderately | 9 | 12% |
| 4-Mostly | 17 | 23% |
| 5-Definitely | 47 | 64% |
| Total | 73 | 100% |



CO4: Are you able to analyze Text data and gain insights ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 6 | 8% |
| 4-Mostly | 27 | 37% |
| 5-Definitely | 39 | 53% |
| Total | 73 | 100% |





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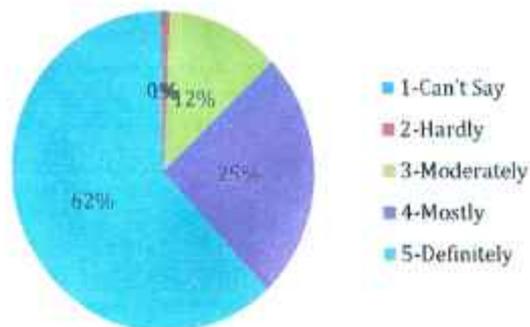
Department of Computer Science & Engineering AIML

Academic Year: 2023-24 (EVEN SEM)

Course Exit Analysis Report (Sem – VI)

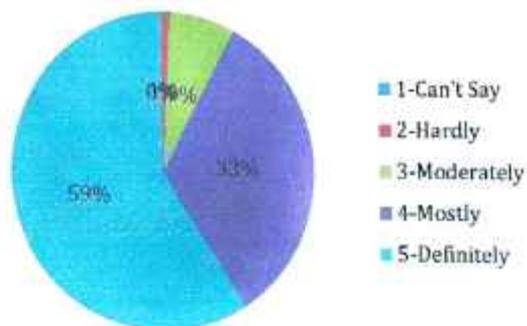
CO5: Are you able to experiment with different analytics techniques and visualization using R ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 9 | 12% |
| 4-Mostly | 18 | 25% |
| 5-Definitely | 45 | 62% |
| Total | 73 | 100% |



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 5 | 7% |
| 4-Mostly | 24 | 33% |
| 5-Definitely | 43 | 59% |
| Total | 73 | 100% |



For @Javale

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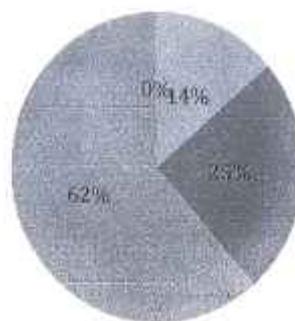
Course Exit Analysis Report (Sem – VI)

Subject- Data analytics and visualization (Practical)

Subject Teacher - Prof. Abhishek Chauhan

CO1: Are you able to explore various data analytics Libraries in R and Python ?

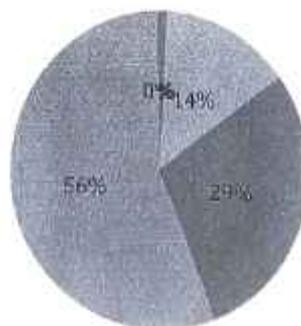
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 0 | 0% |
| 3-Moderately | 10 | 14% |
| 4-Mostly | 18 | 25% |
| 5-Definitely | 45 | 62% |
| Total | 73 | 100% |



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

CO2: Are you able to implement various Regression techniques for prediction ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 10 | 14% |
| 4-Mostly | 21 | 29% |
| 5-Definitely | 41 | 56% |
| Total | 73 | 100% |



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



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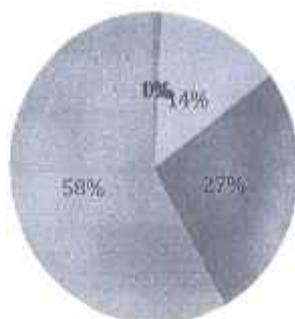
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Course Exit Analysis Report (Sem – VI)

CO3: Are you able to build various time series models on a given data set ?

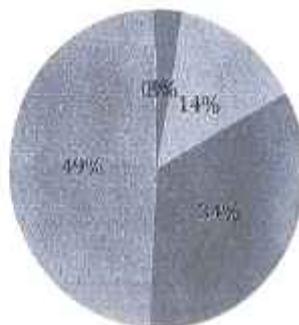
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 1 | 1% |
| 2-Hardly | 0 | 0% |
| 3-Moderately | 10 | 14% |
| 4-Mostly | 20 | 27% |
| 5-Definitely | 42 | 58% |
| Total | 73 | 100% |



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

CO4: Are you able to build design Text Analytics Application on a given data set ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 2 | 3% |
| 3-Moderately | 10 | 14% |
| 4-Mostly | 25 | 34% |
| 5-Definitely | 36 | 49% |
| Total | 73 | 100% |



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



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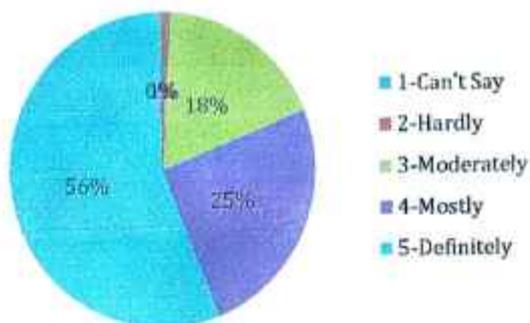
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Course Exit Analysis Report (Sem – VI)

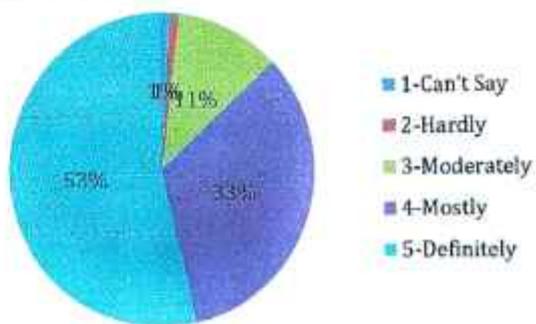
CO5: Are you able to implement visualization techniques to given data sets using R ?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 0 | 0% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 13 | 18% |
| 4-Mostly | 18 | 25% |
| 5-Definitely | 41 | 56% |
| Total | 73 | 100% |



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't Say | 1 | 1% |
| 2-Hardly | 1 | 1% |
| 3-Moderately | 8 | 11% |
| 4-Mostly | 24 | 33% |
| 5-Definitely | 39 | 53% |
| Total | 73 | 100% |



for
Yaswale

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML
ACADEMIC YEAR 2023-24**

**Course Exit Analysis Report (SEM VI)
Course - - Cryptography and System Security
Course Incharge - Prof. Umesh Pinjarkar**

CO1: Are you able to identify information security goals, classical encryption techniques and acquire fundamental knowledge concepts.

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 40.98 | 25 |
| 4-Mostly | 32.79 | 20 |
| 3-Moderately | 13.11 | 8 |
| 2-Hardly | 3.28 | 2 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 56 |

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

CO2: Are you able to understand, compare and apply encryption and decryption techniques?

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 42.62 | 26 |
| 4-Mostly | 34.43 | 21 |
| 3-Moderately | 9.84 | 6 |
| 2-Hardly | 3.28 | 2 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 56 |

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



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ACADEMIC YEAR 2023-24**

Course Exit Analysis Report (SEM VI)

CO3: Are you able to apply the knowledge of Cryptographic checksum and evaluate performance.

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 42.62 | 26 |
| 4-Mostly | 39.34 | 24 |
| 3-Moderately | 6.56 | 4 |
| 2-Hardly | 1.64 | 1 |
| 1-Can't say | 0.00 | 0 |
| Total | 100% | 56 |

A pie chart illustrating the distribution of student responses for CO3. The chart is divided into five segments corresponding to the scores: 5-Definitely (42.62%), 4-Mostly (39.34%), 3-Moderately (6.56%), 2-Hardly (1.64%), and 1-Can't say (0.00%). A legend on the right side of the chart identifies each score level with a corresponding shaded square.

CO4: Are you able to understand the dynamic programming for policy evaluation

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 45.90 | 28 |
| 4-Mostly | 29.51 | 18 |
| 3-Moderately | 13.11 | 8 |
| 2-Hardly | 1.64 | 1 |
| 1-Can't say | 0.00 | 0 |
| Total | 100 | 56 |

A pie chart illustrating the distribution of student responses for CO4. The chart is divided into five segments corresponding to the scores: 5-Definitely (45.90%), 4-Mostly (29.51%), 3-Moderately (13.11%), 2-Hardly (1.64%), and 1-Can't say (0.00%). A legend on the right side of the chart identifies each score level with a corresponding shaded square.



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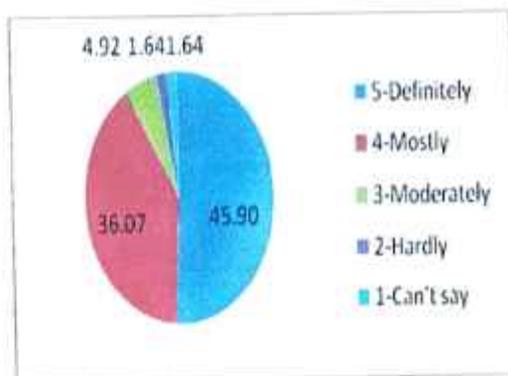
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ACADEMIC YEAR 2023-24
Course Exit Analysis Report (SEM VI)

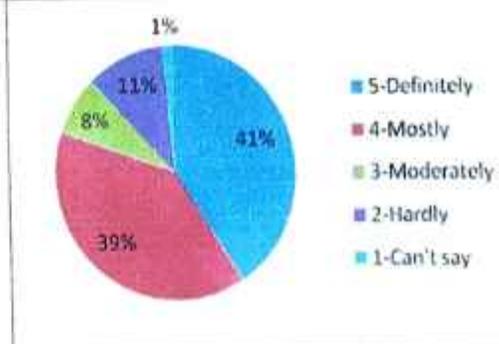
CO5: Are you able to implement reinforcement learning problems based on averaging sample returns using Monte Carlo method.

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 45.90 | 28 |
| 4-Mostly | 36.07 | 22 |
| 3-Moderately | 4.92 | 3 |
| 2-Hardly | 1.64 | 1 |
| 1-Can't say | 1.64 | 1 |
| Total | 100% | 56 |



CO6 : Are you able to recognize current advance technique and application in RL

| Score | Percentage | No. of Students |
|--------------|------------|-----------------|
| 5-Definitely | 49.09 | 27 |
| 4-Mostly | 38.18 | 26 |
| 3-Moderately | 9.09 | 5 |
| 2-Hardly | 1.82 | 7 |
| 1-Can't say | 1.82 | 1 |
| Total | 100% | 56 |



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ACADEMIC YEAR 2022-23

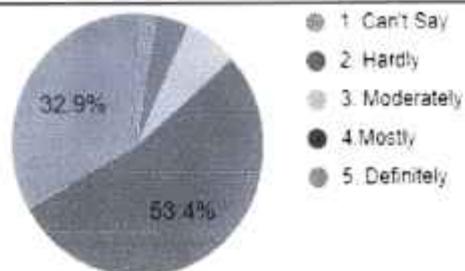
Course Exit Analysis Report (SEM VI)

Course- CSS lab

Course Incharge -Dr.Chanchal Sharma

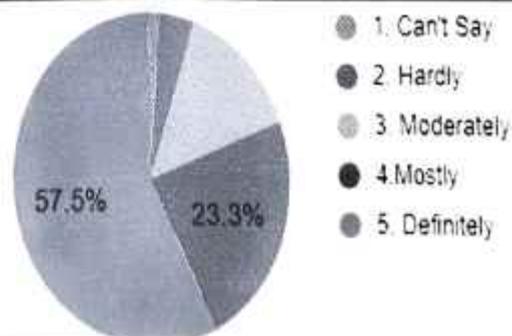
CO1: Are you able to apply the knowledge of symmetric cryptography to implement simple ciphers

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 2 | 3 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 5 | 7 |
| 4-Mostly | 39 | 53 |
| 5-Definitely | 24 | 33 |
| Total | 73 | 100 |



CO2: Are you able to analyze and implement public key algorithms like RSA

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 10 | 14 |
| 4-Mostly | 17 | 23 |
| 5-Definitely | 42 | 58 |
| Total | 73 | 100 |





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ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)

CO3: Are you able to analyze and evaluate performance of DHKE algorithms.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 4 | 5 |
| 3-Moderately | 11 | 15 |
| 4-Mostly | 14 | 19 |
| 5-Definitely | 41 | 56 |
| Total | 73 | 100 |

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

CO4: Are you able to explore the different network reconnaissance tools to gather information about networks

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 3 | 4 |
| 3-Moderately | 14 | 19 |
| 4-Mostly | 13 | 18 |
| 5-Definitely | 40 | 55 |
| Total | 73 | 100 |

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



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ACADEMIC YEAR 2022-23

Course Exit Analysis Report (SEM VI)

CO5: Are you able to understand tools like sniffers, port scanners and other related tools for analyzing packets in a network.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1 |
| 2-Hardly | 2 | 3 |
| 3-Moderately | 10 | 14 |
| 4-Mostly | 20 | 27 |
| 5-Definitely | 40 | 55 |
| Total | 73 | 100 |

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

CO6: Are you able to apply and set up firewalls and intrusion detection systems using open source technologies and to explore email security.

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 3 | 4 |
| 2-Hardly | 4 | 5 |
| 3-Moderately | 11 | 15 |
| 4-Mostly | 14 | 19 |
| 5-Definitely | 41 | 56 |
| Total | 73 | 100 |

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

For Youale

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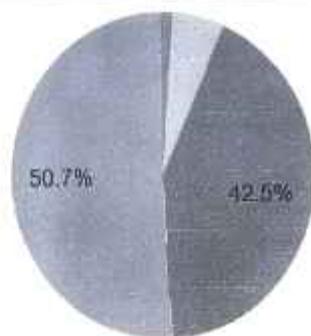
Course Exit Analysis Report (SEM VI)

Course - CC - VI

Course Incharge - Prof. Yugandhara Gaware

CO1: Are you able to implement different types of virtualization techniques?

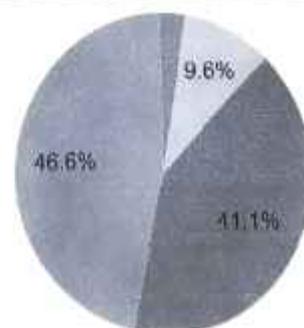
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 4 | 5.5 |
| 4-Mostly | 31 | 42.5 |
| 5-Definitely | 37 | 50.7 |
| Total | 73 | 100.0 |



- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

CO2: Are you able to analyze various cloud computing service models and implement them to solve the given problems?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 2 | 2.7 |
| 3-Moderately | 7 | 9.6 |
| 4-Mostly | 30 | 41.1 |
| 5-Definitely | 34 | 46.6 |
| Total | 73 | 100.0 |



- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely



Course Exit Analysis Report (SEM VI)

CO3: Are you able to design and develop real world web applications and deploy them on commercial cloud(s).

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.4 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 8 | 11.0 |
| 4-Mostly | 24 | 32.9 |
| 5-Definitely | 39 | 53.4 |
| Total | 73 | 100.0 |

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

CO4: Are you able to explain major security issues in the cloud and mechanisms to address them?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.4 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 7 | 9.6 |
| 4-Mostly | 25 | 34.2 |
| 5-Definitely | 39 | 53.4 |
| Total | 73 | 100.0 |

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



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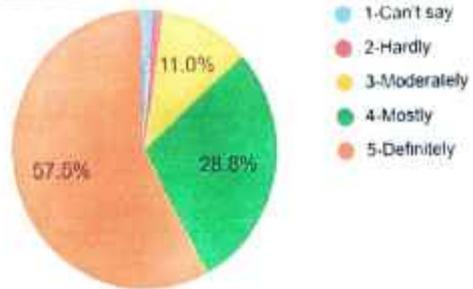
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

Course Exit Analysis Report (SEM VI)

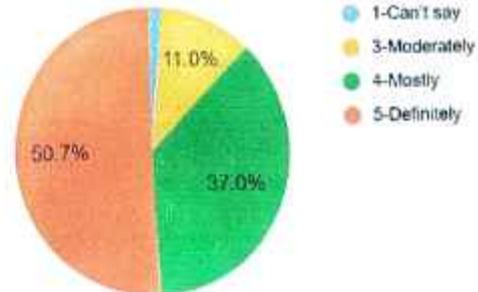
CO5: Are you able to explore various commercially available cloud services and recommend the appropriate one for the given application?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.4 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 8 | 11.0 |
| 4-Mostly | 21 | 28.8 |
| 5-Definitely | 42 | 57.5 |
| Total | 73 | 100.0 |



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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 1 | 1.4 |
| 2-Hardly | 0 | 0.0 |
| 3-Moderately | 8 | 11.0 |
| 4-Mostly | 27 | 37.0 |
| 5-Definitely | 37 | 50.7 |
| Total | 73 | 100.0 |



Dr. Kavale

HOD
HOD

Department of CSE in AIML
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Kharghar, Navi Mumbai-410210

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN AIML

ACADEMIC YEAR 2023-24

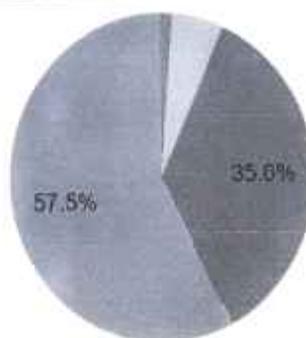
Course Exit Analysis Report (SEM VI)

Course - Mini Project(2B) - VI

Course Incharge - Prof. Yugandhara Gaware

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

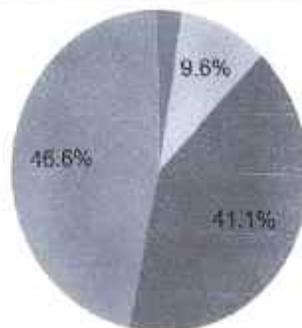
| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 4 | 5.5 |
| 4-Mostly | 26 | 35.6 |
| 5-Definitely | 42 | 57.5 |
| Total | 73 | 100.0 |



- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely

CO2: Are you able to analyze various cloud computing service models and implement them to solve the given problems?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 2 | 2.7 |
| 3-Moderately | 7 | 9.6 |
| 4-Mostly | 30 | 41.1 |
| 5-Definitely | 34 | 46.6 |
| Total | 73 | 100.0 |



- 2-Hardly
- 3-Moderately
- 4-Mostly
- 5-Definitely



Course Exit Analysis Report (SEM VI)

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

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 9 | 12.3 |
| 4-Mostly | 22 | 30.1 |
| 5-Definitely | 41 | 56.2 |
| Total | 73 | 100.0 |

Legend: 2-Hardly (Red), 3-Moderately (Yellow), 4-Mostly (Green), 5-Definitely (Orange)

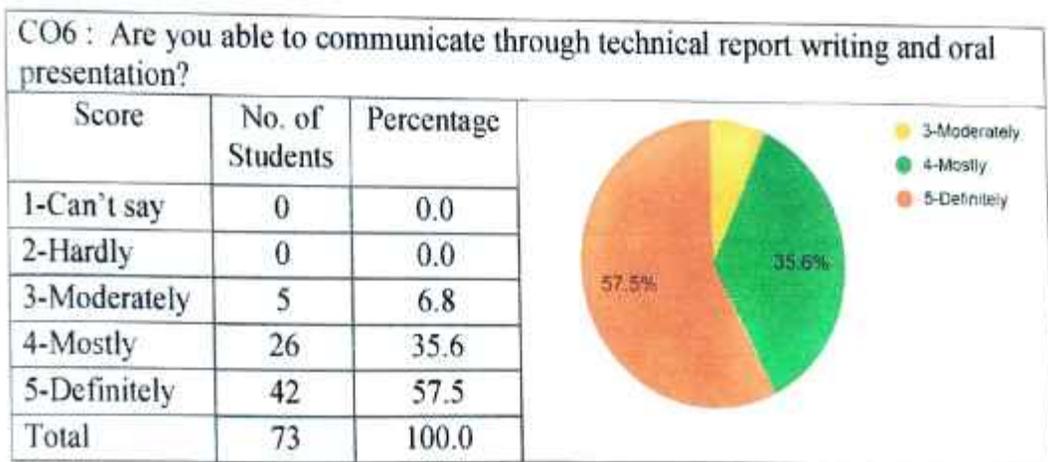
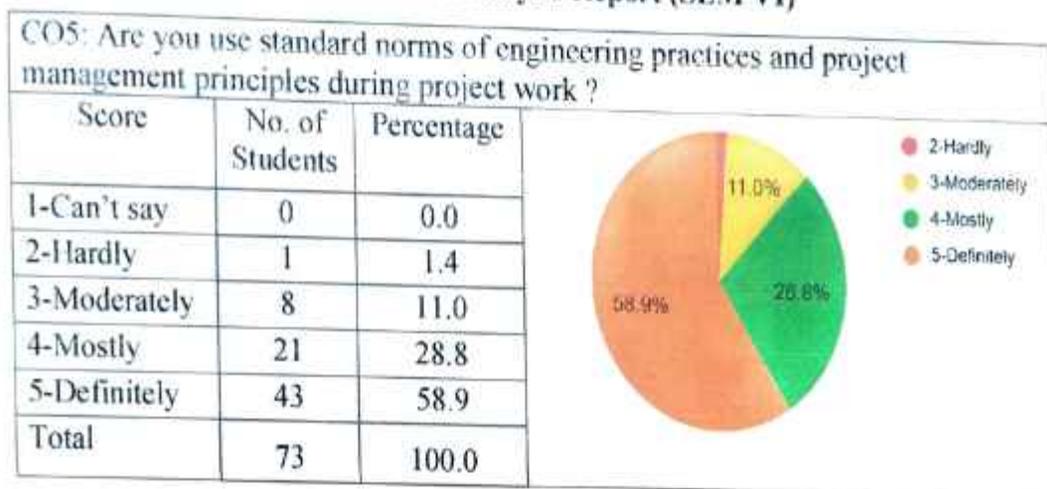
CO4: Are you able to Analyze and evaluate the impact solution/ product/ research/ innovation/entrepreneurship towards societal/environmental/sustainable development?

| Score | No. of Students | Percentage |
|--------------|-----------------|------------|
| 1-Can't say | 0 | 0.0 |
| 2-Hardly | 1 | 1.4 |
| 3-Moderately | 6 | 8.2 |
| 4-Mostly | 25 | 34.2 |
| 5-Definitely | 41 | 56.2 |
| Total | 73 | 100.0 |

Legend: 2-Hardly (Red), 3-Moderately (Yellow), 4-Mostly (Green), 5-Definitely (Orange)



Course Exit Analysis Report (SEM VI)



for *Chavak*

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

Action taken based on feedback from students

Academic Year 2023-24(EVEN)

Summary of feedback – Semester VI

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

- Need awareness about the latest technologies and practices in industry.
- More practice for DAV course.

Action Taken:

Based on student suggestions, Expert Seminars are organized. Which are selected such that it will be beneficial for their academics as well as career. Details of events organized at Institutional and Department level are mentioned below.

| Sr. No. | Feedback/Suggestions | Actions Taken | Date |
|----------------|---|---|-------------|
| 1 | More practice problems for DAV | Extra practice problems were taken for DAV | As Required |
| 2. | latest technologies and practices in industry | Expert Seminar on “ Cryptography systems and security”. | 9/02/2024 |



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| | | | |
|---|---|--|------------|
| 3 | Latest technologies and practices in industry | Expert Seminar on "Navigating the Realm of Data Analytics, Data Science and Machine Learning". | 22/02/2024 |
|---|---|--|------------|

for
Chavale

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

HOD
Department of CSE in AIML
Saraswati College of Engineering
Kharghar, Navi Mumbai-410210

[Signature]
**Principal
(SCOE)**

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