



### CO ATTAINMENT ACTION TAKEN REPORT

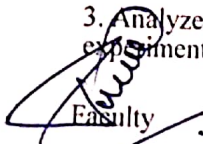
Program : M.Tech.  
 Course Name : Machine Learning Lab  
 Course Code : 2015831  
 Course Coordinator : BANOTHU PRASAD

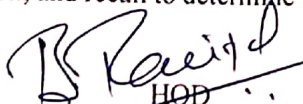
Year / Sem : I-I  
 Academic Year : 2021-2022  
 Regulation : MLRS-R20  
 Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Apply supervised learning algorithms like Find-S, Candidate-Elimination, Linear Regression, Logistic Regression, and Decision Trees to analyze training datasets and evaluate model accuracy	3.00	2.00	2.80	2.10	Attained
2	Implement clustering algorithms including EM and k-Means for analyzing data patterns and evaluating the quality of clustering results.	3.00	3.00	3.00	2.10	Attained
3	Make use of classification techniques including k-NN, Naïve Bayes, and Bayesian Networks for evaluating predictive performance on benchmark datasets.	3.00	2.00	2.80	2.10	Attained
4	Analyze Artificial Neural Networks using Backpropagation for modeling and solving classification problems with real-world datasets.	3.00	3.00	3.00	2.10	Attained
5	Evaluate machine learning models using performance metrics such as accuracy, precision, and recall to determine the suitability of algorithms for practical applications.	3.00	2.00	2.80	2.10	Attained
<b>Final CO</b>				<b>2.88</b>	<b>2.10</b>	<b>Attained</b>

**Action Taken:**

1. Conducted hands-on experiments implementing supervised and classification algorithms (Find-S, Candidate-Elimination, Regression models, Decision Trees, k-NN, Naïve Bayes) using scikit-learn to understand model training and prediction behavior.
2. Performed clustering and pattern analysis using k-Means and EM algorithms, and implemented Artificial Neural Networks with back propagation using Tensor Flow to solve real-world classification problems.
3. Analyzed and compared model outputs using evaluation metrics such as accuracy, precision, and recall to determine the most effective algorithm through experimental validation.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Advanced Data Structures Lab

Course Code : 2015832

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : I-I

Academic Year : 2021-2022

Regulation : MLRS-R20

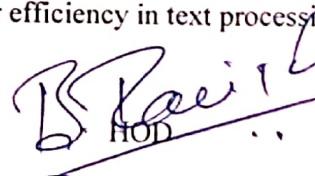
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Implement binary search trees, AVL trees, and Red-Black trees for efficient insertion, deletion, and searching operations in given application.	3.00	3.00	3.00	2.10	Attained
2	Utilize advanced tree and heap structures like B-Trees, Min-Max heaps, Leftist trees and Binomial heaps for effective data organization and retrieval in real-time applications.	3.00	3.00	3.00	2.10	Attained
3	Apply sorting algorithms such as Merge Sort, Quick Sort, and Heap Sort for analyzing time complexity and evaluating their suitability for different datasets.	3.00	2.00	2.80	2.10	Attained
4	Evaluate dictionary operations using hashing techniques for analyzing the performance of search, insert, and delete operations.	3.00	3.00	3.00	2.10	Attained
5	Apply string pattern matching algorithms such as Knuth-Morris-Pratt, Boyer-Moore and Brute Force for evaluating their effectiveness in text processing applications.	3.00	2.00	2.80	2.10	Attained
Final CO				2.92	2.10	Attained

### Action Taken:

1. Implemented BST, AVL, Red-Black trees, B-Trees, and heaps to perform efficient insert, delete, and search operations.
2. Practiced sorting and hashing techniques to analyze performance and select suitable methods for different datasets.
3. Developed string matching algorithms (KMP, Boyer-Moore, Brute Force) and compared their efficiency in text processing tasks.

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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Advanced Data Structures

Course Code : 2015802

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : I-I

Academic Year : 2021-2022

Regulation : MLRS-R20

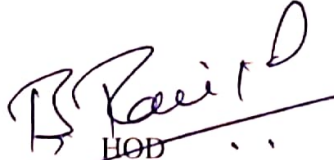
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Identify searching algorithms for efficient data retrieval across different types of datasets.	3.00	2.00	2.80	2.10	Attained
2	Apply the properties and operations of Min-Heap and Max-Heap structures for efficient priority management in scheduling and simulation systems.	3.00	2.00	2.80	2.10	Attained
3	Construct multiway search trees for efficient disk-based data access and file organization in databases.	3.00	2.00	2.80	2.10	Attained
4	Integrate multiple text processing algorithms in designing efficient information retrieval and compression systems for large-scale real time data applications.	3.00	2.00	2.80	2.10	Attained
5	Implement Priority Search Trees and Priority Range Trees for optimized multi -dimensional query processing in data mining and spatial analysis applications.	3.00	2.00	2.80	2.10	Attained
<b>Final CO</b>				<b>2.80</b>	<b>2.10</b>	<b>Attained</b>

### Action Taken:

1. Concepts related to searching algorithms, heaps, and multi way trees were taught through interactive lectures, illustrative examples, and problem-solving sessions, helping students develop a stronger understanding of efficient data handling and retrieval techniques.
2. Priority-based data structures were introduced through simplified explanations and relevant examples, making it easier for students to understand their role in multidimensional data analysis and advanced problem-solving applications.

  
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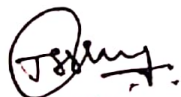
## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.  
Course Name : Cloud Computing  
Course Code : 2015815  
Course Coordinator : DR T S SRINIVAS

Year / Sem : I-I  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Apply the concepts of parallel and distributed computing for enhancing computational efficiency and performance in real time application.	2.70	2.00	2.56	2.10	Attained
2	Differentiate cloud computing definitions and service models that form the foundation of cloud-based systems.	3.00	2.00	2.80	2.10	Attained
3	Make use of cloud architectural principles for deploying and managing cloud-based applications.	3.00	2.00	2.80	2.10	Attained
4	Compare major cloud service providers and their offerings across IaaS, PaaS, and SaaS categories.	3.00	0.00	2.40	2.10	Attained
5	Evaluate performance, cost models, and service capabilities across providers for different workloads.	3.00	2.00	2.80	2.10	Attained
		Final CO		2.67	2.10	Attained

Action Taken: 1. Lectures, demonstrations, and hands-on activities were conducted to apply concepts of parallel and distributed computing, cloud service models, and cloud architectural principles for enhancing computational efficiency and deploying cloud-based applications.  
2. Comparative analysis, case studies, and practical exercises were carried out to evaluate major cloud service providers, analyze IaaS, PaaS, and SaaS offerings, and assess performance, cost models, and service capabilities for different workloads.

  
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# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Information Security

Course Code : 2015811

Course Coordinator : DR. NAGALAKSHMI MALEMPATI

Year / Sem : I-I

Academic Year : 2021-2022

Regulation : MLRS-R20

Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Identify various types of threats and attacks on information systems and propose suitable defense mechanisms.	3.00	3.00	3.00	2.10	Attained
2	Implement an information security plan aligning with organizational goals and regulatory requirements for a specific application.	3.00	2.00	2.80	2.10	Attained
3	Demonstrate the use of honey pots, honey nets, and biometric access control in detecting intrusions and enhancing system authentication in real time application.	2.70	2.00	2.56	2.10	Attained
4	Utilize remote computing security principles for protecting systems, data and communication in distributed environments.	2.70	3.00	2.76	2.10	Attained
5	Make use of appropriate employment policies and practices that support secure workforce behavior and reduce insider threats in real world environment.	3.00	3.00	3.00	2.10	Attained
Final CO				2.82	2.10	Attained

Action Taken:

1. Delivered theoretical concepts on cyber threats, attacks, defense mechanisms, and information security principles.
2. Explained security planning, regulatory compliance, remote computing security, and authentication techniques through classroom discussions.
3. Discussed organizational security policies, ethical workforce practices, and insider threat prevention using real-world examples and case studies.

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## CO ATTAINMENT ACTION TAKEN REPORT


Program : M.Tech.  
Course Name : Machine Learning  
Course Code : 2015801  
Course Coordinator : BANOTHU PRASAD

Year / Sem : I-I  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Apply distance-based and probabilistic classifiers including Nearest Neighbor and Naïve Bayes for real-world data classification and performance in specific application.	3.00	2.00	2.80	2.10	Attained
2	Identify dimensionality reduction techniques for feature extraction, noise reduction, and visualization of high-dimensional data in real time datasets	3.00	2.00	2.80	2.10	Attained
3	Explain evaluation metrics and techniques for machine learning algorithms for assessing and comparing model performance on real-world datasets	2.70	2.00	2.56	2.10	Attained
4	Evaluate deep learning models through hyperparameter tuning for enhancing predictive performance of sequential data for real-world applications.	3.00	2.00	2.80	2.10	Attained
5	Utilize semi-supervised and active learning techniques in improving model performance of Real-World scenarios	3.00	2.00	2.80	2.10	Attained
Final CO				2.75	2.10	Attained

- Action Taken:
1. Implemented and analyzed machine learning and deep learning models on real-world datasets, incorporating dimensionality reduction techniques such as Principal Component Analysis and optimizing performance through hyper parameter tuning using frameworks like Tensor Flow.
  2. Assessed and compared model performance using standard evaluation metrics and validation techniques to ensure accuracy, reliability, and generalization in practical applications.
  3. Improved model effectiveness in real-world scenarios by applying semi-supervised and active learning techniques, minimizing labeled data requirements while maintaining predictive efficiency.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Mini Project With Seminar

Course Code : 2025835

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : I-II

Academic Year : 2021-2022

Regulation : MLRS-R20

Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Apply advanced technical knowledge for identifying and formulating a research problem relevant for given application.	3.00	2.00	2.80	2.10	Attained
2	Analyze existing literature and methodologies for designing an effective solution or prototype addressing the project objectives.	3.00	2.00	2.80	2.10	Attained
3	Implement algorithms, models, or systems using appropriate tools and technologies for solving the identified problem.	3.00	2.00	2.80	2.10	Attained
4	Evaluate the performance and outcomes of the implemented solution through testing, validation and critical assessment.	3.00	2.00	2.80	2.10	Attained
5	Communicate the project findings clearly and effectively through well-structured reports and presentations.	3.00	2.00	2.80	2.10	Attained
		Final CO		2.80	2.10	Attained

Action Taken:

- 1 Guided students to identify and define relevant research problems using domain knowledge.
- 2 Helped students review literature and design suitable solutions or prototypes.
- 3 Supported implementation of models and algorithms using appropriate tools and technologies.
- 4 Conducted testing and evaluation to assess performance of the developed solutions.
- 5 Trained students to present and document project work through reports and presentations.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.  
Course Name : Data Science Lab  
Course Code : 2025834  
Course Coordinator : BANOTHU PRASAD

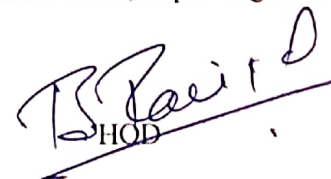
Year / Sem : I-II  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Demonstrate working with operators in R, including arithmetic, relational, logical and assignment operators.	3.00	0.00	2.40	2.10	Attained
2	Implement R programs for checking a given number is prime or not using loops and conditional statements.	3.00	0.00	2.40	2.10	Attained
3	Apply R programming concepts for manipulating and structuring multidimensional data efficiently.	3.00	0.00	2.40	2.10	Attained
4	Develop problem-solving skills in managing and transforming complex datasets in R.	3.00	0.00	2.40	2.10	Attained
5	Analyze the efficiency and correctness of loops and linear model simulations in R programs.	3.00	0.00	2.40	2.10	Attained
Final CO				2.40	2.10	Attained

### Action Taken:

1. Conducted hands-on practice in R to demonstrate operators (arithmetic, relational, logical, and assignment) and implemented basic programs such as prime number checking using loops and conditional statements to strengthen foundational programming skills.
2. Applied R programming concepts for handling and manipulating multidimensional and complex datasets, focusing on data structuring, transformation, and problem-solving techniques.
3. Evaluated program efficiency and correctness through analysis of loops and linear model simulations in R, improving understanding of computational performance in data analysis tasks.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Advanced Algorithms Lab

Course Code : 2025833

Course Coordinator : DR. NAGALAKSHMI MALEMPATI

Year / Sem : I-II

Academic Year : 2021-2022

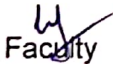
Regulation : MLRS-R20

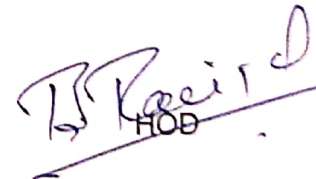
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Apply problem-solving skills for designing, implementing and testing basic data structures in Java programs.	3.00	0.00	2.40	2.10	Attained
2	Make Use of stack and queue data structures for verifying whether a given string is a palindrome or not.	3.00	0.00	2.40	2.10	Attained
3	Implement Binary Search Tree (BST) operations including construction, search, and deletion for organizing and managing hierarchical data efficiently.	3.00	0.00	2.40	2.10	Attained
4	Analyze various sorting algorithms including Bubble Sort, Insertion Sort, Merge Sort, Quick Sort, Heap Sort, Radix Sort, and Binary Tree Sort.	3.00	2.00	2.80	2.10	Attained
5	Implement Kruskal's algorithm for generating a minimum cost spanning tree for a given weighted graph	3.00	2.00	2.80	2.10	Attained
			<b>Final CO</b>	<b>2.56</b>	<b>2.10</b>	<b>Attained</b>

### Action Taken:

1. Lectures, programming exercises, and laboratory sessions were conducted to develop problem-solving skills using Java data structures such as stacks, queues, Binary Search Trees, and sorting algorithms for efficient data organization and processing.
2. Hands-on coding activities and graph-based problem-solving exercises were carried out to implement Kruskal's algorithm and to strengthen understanding of algorithm analysis and minimum spanning tree generation.

  
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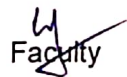
## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.  
Course Name : Advanced Algorithms  
Course Code : 2025804  
Course Coordinator : DR. NAGALAKSHMI MALEMPATI

Year / Sem : I-II  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Analyze the role and importance of algorithms in problem-solving and computational efficiency in real-time applications	3.00	3.00	3.00	2.10	Attained
2	Apply hashing techniques for efficient data retrieval and collision handling in given Datasets.	0.90	3.00	1.32	2.10	Not Attained
3	Compare Dynamic Programming and Greedy solutions for real-world optimization and resource allocation problems.	3.00	3.00	3.00	2.10	Attained
4	Implement Single-Source Shortest Path algorithms for efficient route optimization in applications like GPS navigation and routing systems.	3.00	2.00	2.80	2.10	Attained
5	Evaluate the limitations of exact algorithms and the need for approximation approaches in solving NP-hard problems.	3.00	2.00	2.80	2.10	Attained
Final CO				2.58	2.10	Attained

Action Taken: 1. Additional problem-solving sessions, and hands-on exercises on hashing techniques and collision handling methods were conducted to improve students' understanding and performance in efficient data retrieval concepts.  
2. In future, more sessions, coding practice, and real-time dataset-based assignments will be provided to strengthen conceptual clarity and attain the targeted outcome in hashing applications.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.  
Course Name : Data Science  
Course Code : 2025805  
Course Coordinator : BANOTHU PRASAD

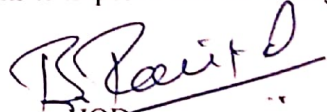
Year / Sem : I-II  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Understand the fundamentals and significance of Data Science in the modern digital era.	1.60	2.00	1.68	2.10	Not Attained
2	Implement fundamental Machine Learning algorithms for data-driven insights in applications like price prediction, recommendation systems, and customer profiling.	1.60	2.00	1.68	2.10	Not Attained
3	Evaluate the role of timestamps and temporal features in financial and behavioral modeling.	0.60	2.00	0.88	2.10	Not Attained
4	Integrate social network mining and visualization techniques for deriving meaningful insights from complex datasets of Fraud Detection.	0.90	2.00	1.12	2.10	Not Attained
5	Analyze the performance and scalability of big data processing systems under different workloads and data models.	2.30	0.00	1.84	2.10	Not Attained
		<b>Final CO</b>		<b>1.44</b>	<b>2.10</b>	<b>Attained</b>

### Action Taken:

1. Include more industry-oriented case studies, guest lectures, and real-world examples to strengthen conceptual understanding of Data Science and Machine Learning applications.
2. Enhance hands-on learning through mini-projects and lab exercises using real datasets, covering ML algorithms, time-series analysis, social network mining, and big data processing with tools like scikit-learn.
3. Introduce performance evaluation and benchmarking activities along with visualization-based tasks to improve understanding of scalability, fraud detection, and predictive modeling in real-world scenarios.

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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.  
Course Name : Parallel and Distributed Algorithms  
Course Code : 2025817  
Course Coordinator : DR. VADTHYA REDYA

Year / Sem : I-II  
Academic Year : 2021-2022  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Understand the fundamental concepts and basic techniques of parallel computing for performance enhancement.	1.60	2.00	1.68	2.10	Not Attained
2	Apply techniques for evaluating the performance of parallel programs and identifying bottlenecks through debugging tools.	0.90	2.00	1.12	2.10	Not Attained
3	Integrate pipelining techniques with parallel computing approaches for enhancing overall system performance.	2.70	2.00	2.56	2.10	Attained
4	Make Use of parallel programs using shared memory constructs and data-sharing models for efficient execution in multi-core processing, concurrent applications and data-intensive computing.	0.90	2.00	1.12	2.10	Not Attained
5	Identify programming primitives and synchronization techniques for developing consistent distributed shared memory programs.	2.30	2.00	2.24	2.10	Attained
			<b>Final CO</b>	<b>1.74</b>	2.10	Attained

**Action Taken:** Remedial classes and additional lectures on the fundamentals of parallel computing and performance evaluation techniques will be conducted to improve students' conceptual understanding and analytical skills.

1. Hands-on laboratory sessions using debugging and performance analysis tools will be arranged to help students identify bottlenecks and optimize parallel program execution effectively.
2. More programming exercises on shared memory constructs, concurrency models, and multi-core processing techniques will be provided to strengthen practical implementation skills in parallel computing environments.
3. In future, mini-projects, tutorial sessions, and real-time application-based assignments will be conducted to enhance understanding of efficient parallel and distributed computing practices.

*B. Baird*



## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Software Architecture and Design Patterns

Course Code : 2025820

Course Coordinator : KANAMALA SURESH

Year / Sem : I-II

Academic Year : 2021-2022

Regulation : MLRS-R20

Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Understand the fundamentals of software architecture and the role of Architecture Business Cycle in system design.	0.90	2.00	1.12	2.10	Not Attained
2	Apply architecture evaluation methods such as ATAM (Architecture Tradeoff Analysis Method) and CBAM (Cost Benefit Analysis Method) for assessing software quality attributes.	1.60	2.00	1.68	2.10	Not Attained
3	select appropriate creational and structural patterns for enhancing system modularity, maintainability and performance.	1.30	2.00	1.44	2.10	Not Attained
4	Make Use of Memento, Observer, and State patterns for managing object state, recovery and real-time updates efficiently.	3.00	2.00	2.80	2.10	Attained
5	Analyze the World Wide Web as a case study in interoperability and scalable distributed architectures.	0.90	2.00	1.12	2.10	Not Attained
<b>Final CO</b>				<b>1.63</b>	<b>2.10</b>	<b>Attained</b>

- Action Taken:
1. Conceptual lectures and guided discussions will be conducted on software architecture and the Architecture Business Cycle to develop a clear understanding of system design principles and their real-world evolution.
  2. Architecture evaluation techniques such as ATAM and CBAM will be applied through structured case studies and analytical exercises to help students assess key quality attributes including performance, reliability, and cost-benefit considerations.
  3. Design patterns, including creational and structural patterns, will be introduced through illustrative examples and practice exercises to enhance system modularity, maintainability, and overall design efficiency.
  4. The World Wide Web will be studied as a real-world case of distributed and scalable architecture, enabling students to understand interoperability, system integration, and large-scale system behavior.

*Suresh*  
Faculty

*B. Paritosh*  
HOD



## CO ATTAINMENT ACTION TAKEN REPORT

Program : M. Tech.  
Course Name : Soft Computing  
Course Code : 2035823  
Course Coordinator : DR T S SRINIVAS


Year / Sem : II-I  
Academic Year : 2022-2023  
Regulation : MLRS-R20  
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Understand the evolution and characteristics of Artificial Neural Networks (ANNs), including learning methods and basic models.	3.00	2.00	2.80	2.10	Attained
2	Apply neural network models for solving real-world problems and evaluate the suitability of different architectures for specific tasks.	3.00	2.00	2.80	2.10	Attained
3	Evaluate fuzzy rule bases and approximate reasoning for decision-making under uncertainty.	0.90	2.00	1.12	2.10	Not Attained
4	Assess recent advances in GA and integrate knowledge for designing hybrid or improved evolutionary algorithms.	3.00	2.00	2.80	2.10	Attained
5	Integrate knowledge of neural networks, fuzzy logic, and genetic algorithms for designing and implement real-world hybrid solutions	1.60	2.00	1.68	2.10	Not Attained
		Final CO		2.24	2.10	Attained

### Action Taken:

1. Additional classes, expert lectures, and problem-solving sessions on fuzzy rule bases, approximate reasoning, and hybrid intelligent systems will be conducted to improve students' understanding of decision-making under uncertainty.
2. In future, additional mini-projects, case studies, and practical implementation exercises integrating neural networks, fuzzy logic, and genetic algorithms will be provided to strengthen real-world problem-solving skills.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Dissertation Work Phase-I

Course Code : 2035836

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : II-I

Academic Year : 2022-2023

Regulation : MLRS-R20

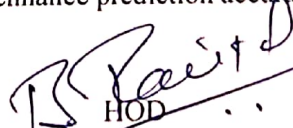
Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Formulate precise research objectives and project scope based on current trends and challenges in the real world applications.	3.00	0.00	2.40	2.40	Attained
2	Conduct a thorough literature survey using scholarly databases for identifying gaps and justify the proposed research problem.	3.00	2.00	2.80	2.40	Attained
3	Apply advanced algorithms, data structures, or software development methodologies relevant for the project domain.	3.00	3.00	3.00	2.40	Attained
4	Demonstrate effective technical communication skills through well-organized project presentations and documentation.	3.00	2.00	2.80	2.40	Attained
5	Evaluate project progress, anticipate potential challenges and propose viable solutions for successful project completion.	3.00	0.00	2.40	2.40	Attained
Final CO				2.68	2.40	Attained

### Action Taken:

1. Additional literature review sessions were conducted for strengthen gap analysis and refine project objectives based on recent research trends. Algorithm optimization and periodic progress reviews were implemented for addressing technical challenges and improve project performance.
2. Advanced machine learning models were integrated and validated using real-time datasets to enhance prediction accuracy and system reliability.

  
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# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Dissertation Viva-Voce

Course Code : 2025838

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : II-II

Academic Year : 2022-2023

Regulation : MLRS-R20

Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Demonstrate in-depth understanding of the subject matter through oral communication.	3.00	2.00	2.80	2.40	Attained
2	Effectively articulate key concepts, theories and practical applications of the specific course.	3.00	3.00	3.00	2.40	Attained
3	Apply critical thinking and problem-solving skills by responding accurately for spontaneous questions.	3.00	2.00	2.80	2.40	Attained
4	Exhibit confidence and clarity in verbal expression and presentation skills.	3.00	0.00	2.40	2.40	Attained
5	Engage in professional and technical discourse, justifying answers with evidence and logical reasoning.	3.00	2.00	2.80	2.40	Attained
			<b>Final CO</b>	<b>2.76</b>	<b>2.40</b>	<b>Attained</b>

### Action Taken:

1. Oral presentations, viva sessions, and group discussions were conducted to strengthen students understanding of subject concepts, communication skills, and the ability to explain theoretical and practical applications effectively.
2. Interactive question-and-answer sessions, seminar activities, and technical presentations were carried out to enhance critical thinking, confidence, logical reasoning, and professional communication skills.

  
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## CO ATTAINMENT ACTION TAKEN REPORT

Program : M.Tech.

Course Name : Dissertation Work Phase-II

Course Code : 2025837

Course Coordinator : DR. SABHAVAT PRATAP SINGH

Year / Sem : II-II

Academic Year : 2022-2023

Regulation : MLRS-R20

Section : A/

Course Outcome	CO-Statement	CIE + SEE(a)	CES (d)	Final CO Attained	Target	Remarks
1	Demonstrate the ability for implementing and integrating advanced techniques and algorithms for developing the core components of the project.	3.00	3.00	3.00	2.40	Attained
2	Analyze and evaluate the performance and effectiveness of the developed solution through rigorous testing and validation.	3.00	2.00	2.80	2.40	Attained
3	Identify and troubleshoot technical issues, applying problem-solving skills for optimizing the project deliverables.	3.00	3.00	3.00	2.40	Attained
4	Prepare comprehensive project documentation, including design details, test results and technical reports.	3.00	2.00	2.80	2.40	Attained
5	Effectively communicate the final project outcomes and defend the research methodology and results during presentations and reviews.	3.00	3.00	3.00	2.40	Attained
<b>Final CO</b>				<b>2.92</b>	<b>2.40</b>	<b>Attained</b>

Action Taken:

1. Project development activities, coding sessions, and validation exercises were conducted to implement advanced techniques, evaluate system performance, and troubleshoot technical issues for optimizing project outcomes.
2. Documentation reviews, report preparation activities, and presentation sessions were carried out to strengthen technical writing, research methodology, and effective communication of project results.

  
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