RSR RUNGTA COLLEGE OF ENGINEERING & TECHNOLOGY

Rungta Knowledge City
Kohka – Kurud Road, Bhilai (C.G.)-490024
Recognized by AICTE, New Delhi and Affiliated to CSVTU, Bhilai.

Department of Artificial Intelligence & Machine Learning

Course Outcomes

Programme: Master of Technology(AIML) **Course Name: Mathematical Foundation for AI & ML**

Semester: I **Course Code: 5109111(014)**

CO1: Gain knowledge about basic concepts of Machine Learning.

CO2: Use different machine learning techniques to design AI machines.

CO3: Define basic terms and concepts of matrices, vectors and complex numbers.

CO4: Study about recurrence relations, generating function and operations on them.

CO5: Acquire a fundamental understanding of the core concepts in automata theory and formal languages.

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Course Outcomes

Programme: Master of Technology(AIML)   **Course Name   :Advance Python and R Programming for AI & ML**

Semester: I   **Course Code : : 5109112(022)**

CO1: Apply basic concept of Python language for solving problems

CO2: Understand the use of Python data structure concepts for problem solving.

CO3: Implement object-oriented concepts.

CO4: Understand and Implement NumPy and Pandas for data analysis.

CO5: Understand and apply the R concepts for analyzing data.

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Course Outcomes

Programme: Master of Technology(AIML)   **Course Name :** Advanced Data Structures & Algorithms

Semester: I   **Course Code :** 5109113(022)

CO1: Identify suitable data structures and develop algorithms for Multidimensional Searching.

CO2: Develop and analyze algorithms for various variations of Heaps.

CO3: Develop and analyze algorithms for various variations of Hashing Techniques.

CO4: Able to select a proper pattern matching algorithm for given problem.

CO5: Apply Genetic Algorithms in different problem domains.

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Course Outcomes

Programme: Master of Technology (AIML)   **Course Name: Data Preparation and Analysis**

Semester: I   **Course Code : 5109114(022)**

CO1: Implement the Web APIs and Data APIs.

CO2: Able to understand the various steps of data cleaning.

CO3: Implement the sample data set for Exploratory Analysis.

CO4: Able to understand the uses of Geo-location data.

Co5: Able to solve mean, variance problem.

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Course Outcomes

Programme: Master of Technology

Course Name: Introduction to Machine Learning

Semester: I

Course Code :5109131(022)

CO1: Implement and apply machine learning algorithms.

CO2: Select appropriate algorithms for solving a particular group of real-world Problems

CO3: Implement regression models.

CO4: Design and implement machine learning solutions to classification related problems.

CO5: Evaluate and interpret the results of the algorithms.

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Course Outcomes

Programme: Master of Technology   **Course Name:: Knowledge Discovery.**

Semester: I   **Course Code :5109132(022)**

CO1: Understand the key theories, concepts, and models of Knowledge Management

CO2: Learn how to lead knowledge workers in a knowledge-based organization.

CO3: Identifying the best practices of primary and secondary activities in KM processes

CO4: Implement XML-Based Tools

CO5: Implement classification Tools.

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Course Outcomes

Programme: Master of Technology   **Course Name: Distributed Systems**

Semester: I   **Course Code :5109133(022)**

CO1: Identify the advantages and challenges in designing distributed algorithms for different primitives like mutual exclusion.

CO2: Analyze the working principle of centralized and decentralized algorithms.

CO3: Differentiate between different types of faults and fault handling techniques in order to implement fault tolerant systems.

CO4: Analyze different algorithms and techniques for the design and development of distributed systems subject to specific design

CO5: Understand the importance of security in distributed systems

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Course Outcomes

Programme: Master of Technology   **Course Name: Artificial Intelligence**

Semester: II   **Course Code :5109211(022)**

CO1: Design, build, and implement an expert system and to provide solutions to real world problems

CO2: Demonstrate fundamental understanding of artificial intelligence (AI) and expert systems

CO3: Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning

CO4: Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.

 CO5: Demonstrate proficiency in applying scientific method to models of machine learning

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Course Outcomes

Programme: Master of Technology

Course Name: Advanced Machine Learning

Semester: II

Course Code :5109212(022)

CO1: Apply ensemble techniques on real-world applications.

CO2: Apply and select appropriate clustering algorithms for solving real-world problems.

CO3: Implement Market basket Models for Recommendation system.

CO4: Able to select appropriate Page Rank algorithms for solving a particular group of real-world problems.

CO5: Able to develop models for real-world problems.

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Department of Artificial Intelligence & Machine Learning

Course Outcomes

Programme: Master of Technology   **Course Name:** Deep Learning

Semester: II   **Course Code :** 5109213(022)

CO1: Gain knowledge about basic concepts of Deep Learning.

CO2: Identify the deep learning algorithms which are more appropriate for various types of learning tasks in various domains.

CO3: Understand the concepts of cross-validation and regularization; be able to use them for estimation of algorithm parameters.

CO4: Recognize the characteristics of Deep Learning that make it useful to real-world problems.

CO5: Design application using Deep Learning techniques.

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Course Outcomes

Programme: Master of Technology   **Course Name:** Big Data Analytics

Semester: II   **Course Code :**5109214(022)

CO1: Design efficient algorithms for mining the data from large volumes.

CO2: Analyze the HADOOP and Map Reduce technologies associated with big data analytics.

CO3: Understand the fundamentals of various big data analytics techniques

CO4: Explore Big Data applications Using Pig and Hive.

CO5: Build a complete business data analytics solution.

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Course Outcomes

Programme: Master of Technology   **Course Name:** Principle of Soft Computing

Semester: II   **Course Code :**5109231(022)

CO1: Learn about soft computing techniques and their applications
CO2: Understand and analyze various AI algorithms
CO3: Understand perceptron and counter propagation networks
CO4: Define the fuzzy based systems
CO5: Analyze the genetic algorithms and their applications

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Course Outcomes

Programme: Master of Technology(AIML)   **Course Name:**Recommended System

Semester: II   **Course Code** 5109232(022)

CO1: To learn major concepts of and techniques for building and evaluating recommender systems.
CO2: To learn the variety of typical recommendation approaches including collaborative filtering.
CO3: To learn the uses of matrix factorization in recommended systems.
CO4: Build recommended systems

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Course Outcomes

Programme: Master of Technology(AIML)   **Course Name:** Web Intelligence & Analytics

Semester: II   **Course Code :** 5109233(022)

CO1: Describe the various web analytics processes

CO2: Identify the challenges faced by businesses in getting the right data

CO3: Implement Web Analytics in IT industry

CO4: Analyze the Geo-Social data and their applications