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 Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application Course Name : C++ and Data Structure

Semester: I **Course Code**5021171(021)

CO1: Explain the concepts of object oriented programming.
CO2: Write simple application using C++
CO3: Discuss different methods of organizing large amounts of data.
CO4: Assess the applicability of dynamic programming and backtracking algorithms to real-world problems.
CO5: Design and implement dynamic programming and backtracking algorithms and compare their formulations and solutions.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   Course Name: Advance Database Management System

Semester: I   **Course :** 5021172(021)

CO1: Students will be able to design a database based on the given requirements..
CO2: Students will be able to make projects with knowledge of subjects provided to them.
CO3: Students will be able to write Standard Query Language statements.
CO4: Students are expected to apply normalization techniques on a given database.
CO5: Extend normalization for the development of application software.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application

Course Name: Software   Engineering and Project Management

Course Code:5021173(021)

Semester: I

CO1: The student will have a fair idea about the importance of using software engineering principles in real life projects.
CO2: The student will be able to prepare a software requirement sheet for a real life project, keeping in mind the properties of an SRS document.
CO3: The student will be able to use mathematical models for calculating the size, cost and duration of real life projects
CO4: The student will be able to develop quality planning either through procedural as well as quantitative approach.
CO5: The student will be able to develop project manufactured documents (i.e., artifacts) for all phases of development to minimize risk and improvement of quality..

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :**Fundamentals of Computer Science

Semester: I   **Course Code 5021175(021)**

CO1: Students will be familiar with fundamentals of computers and organization of computers.
CO2: Student will be familiar with basic concepts of computer programming languages
CO3: Students will be familiar with different digital components used in Computers and the organization and design of digital computers.
CO4: Students will learn about the Combinational Circuit.
CO5: Students will learn about the basic concepts of Principles of Computer Design

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :** Mathematical Foundations of Computer Science

Semester: I   **Course Code** 5021175(021)5021174(021)

CO1: Students will be able to analyze the logical structure of statements symbolically including the proper use of logical connectives, applications of Boolean algebra in circuits and karnaugh maps.
CO2: Students will be able to determine whether a relation is reflective, symmetric and transitive. They will be able to apply the different types of functions and Hash diagrams.
CO3: Students will be able to construct inductively defined sets and recursive functions. Also they will construct the grammars.
CO4: Student will be able to understand the basics of Graph Theory and trees
CO5: Students will be able to understand the basics of Group Theory and coding.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :**Programming with Java

Semester: II   **Course Code** 5021271(021)

CO1: Students will be able to write core Java programmes, able to handle runtime error, able to create multi threads.
CO2: Students will be able to handle files through Java APIs.
CO3: Students will obtain skill to network programming by using Java network APIs, TCP/IP Socket and distributed application development using RMI
CO4: Students will be able to create I/O interface using swing APIs and event handling through AWT APIs.
CO5: Students will obtain skill to develop web through APPLET and server side coding using Servlet

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :** Computer Network

Semester: II   **Course Code** 5021272(021)

CO1: The students will be able to understand the structure and organization of computer networks; including the division into layers, role of each layer, and relationships between the layers
CO2: The students will have a basic understanding of Communication techniques and functioning of the physical layer.
CO3: The students will be able to understand the basic concepts of data link layer properties; including the flow control mechanisms.
CO4: The students will be able to understand the basic concepts of application layer protocol design i.e.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :**Artificial Intelligence

Semester: II   **Course Code** 5021273(021)

CO1: Students will have the ability to understand and define different AI problems and apply suitable problem solving techniques.
CO2: Students will have the ability to define the heuristics and apply them for solving complex problems with understanding of different heuristic based search techniques.
CO3: Students will develop an understanding of game playing techniques.
CO4: Students will have understanding of different knowledge structures and inference mechanisms with ability to apply them in intelligent solutions of complex problems .
CO5: - Student will have understanding of the latest developments in Knowledge systems and Tools

Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :**Operating System with Unix

Semester: II   **Course Code** 5021274(021)

CO1: The students will be able to understand concepts relating to operating systems, such as types of operating system, file system organization.
CO2: The students will be able to understand concepts and problem solutions related with CPU Scheduling, virtual memory and deadlocks.
CO3: The students will be able to understand Operating system concepts in the context of Unix Operating systems.
CO4: The students will be able to work with UNIX basic as well as advance command and various System calls.
CO5: The students will be able to write shell scripts and understand Unix process structure.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name :** Enterprise Resource Planning (Elective -I)

Semester: II   **Course Code** 5021284(076)

CO1: Students will acquire an understanding of business process, organizational functional areas, need of reengineering, business process efficiency.
CO2: Students will be aware of advantages of an enterprise, how technology acts as a business process enabler.
CO3: 3. Students will be able to select the best ERP vendor, Contracts with vendors, consultants and employees.
CO4: Students will get acquainted with different ERP implementation Strategies. know the reasons for the growth of ERP market ,top companies of ERP market and understanding of TQM
CO5: Students will have an understanding of ERP modules. ERP project management and monitoring, Pitfalls of ERP packages, ERP implementation lifecycle, Implementation methodology, organizing the implementation

Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name:** Computer Graphics and Image Processing

Semester: III   **Course Code:** 5021371(021)

CO1: Students will be able to implement the logic of drawing basic output primitive while developing graphical package
CO2: Student will have ability to apply various 2D and 3D transformation concept on objects
CO3: Students will be able develop clipping operation and generate curves
CO4: Students will have the concept of basic compression techniques for images
CO5: Students will be equipped with techniques used in image processing

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   Course Name: Cryptography and Network Security

Semester: III   **Course Code:** 5021372(021)

CO1: The students will be able to understand cyber security fundamentals.
CO2: The students will have a basic understanding of cryptography techniques and function.
CO3: The students will have an in -depth understanding of network security algorithms including Firewall.
CO4: The students will be able to know various advanced attacking techniques.
CO5: The students will be able to know various cyber security policies.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   **Course Name:** Data Science

Semester: III   **Course Code:** 5021373(021)

CO1: Students should be familiar with data science tools
CO2: Students should be able to build a data science model using DS concept
CO3: Students will apply statistical and computational tools to applied problems, and clearly communicate the results in both written reports and oral presentations.
CO4: Students should be able to visualize data and understand the data semantics.
CO5: Build data science applications using Python based toolkits.

Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application Course Name: Mobile Computing (Professional Elective-II)

Semester: III   **Course Code:** 5021382(021)

CO1: Students will learn wireless technologies, tools and frameworks.
CO2: Students will have to understand mobile and other wireless communications.
CO3: Students will understand the architecture of mobile systems.
CO4: Students will have an understanding of architecture.
CO5: Students will develop understanding of TCP over mobile networks.

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Department of Computer Science & Engineering

Course Outcomes

Programme: Master of Computer Application   Course Name: Cloud Computing

Semester: IV   **Course Code:** 5021392(021)

CO1: Students will be able to perform cloud oriented analysis.
CO2: Students will be able to model cloud candidate derived from existing business documentation
CO3: Students will be able to design the composition of cloud services.
CO4: Students will be able to design application services for technology abstraction.
CO5: Analyze various cloud programming models and apply them to solve problems on the cloud.

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Course Outcomes

Programme: Master of Computer Application   Course Name: Big Data Analytics

Semester: IV   **Course Code:** 5021472(021)

CO1: The students will be able to understand the Big Data Analytics fundamental concepts and visualization techniques.
CO2: The students will be able to understand various techniques used for mining data streams.
CO3: The students will be able to understand Hadoop Concepts
CO4: The students will be able to Know Hadoop frameworks and big data enabling Technologies.
CO5: The students will be able to understand concepts of Open Source databases such as NOSQL, HBase etc.