



# 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: Bachelor of Technology(AIML)**

**Course Name : Mathematics – III**

**Semester: III**

**Course Code :B109311(014)**

**CO1:** To have a thorough knowledge of PDE which arise in mathematical descriptions of solution in Engineering?

**CO2:** To make the students understand that fourier series analysis is powerful methode where the formulas are integral and to have knowledge of expanding periodic function that explore variety of application of fourier series

**CO3:** To provide knowledge of Laplace transform of elementary function including its properties and applicaton to solve ordinary differential equation.

**CO4:** To study about a quality that may take any of a given range of value that can't be predicted as it is but can be described in terms of their probability.

**CO5:** To study the technique of estimating the value of a function for any intermediate value of the independent variable.



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## **Department of Artificial Intelligence & Machine Learning Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name : Operating System**

**Semester: III**

**Course Code : B109313(022)**

**CO1: To learn what is operating system and how it makes computers work.**

**CO2: To know how operating system manage complexity through appropriate abstraction of CPU, memory, files, semaphores etc.**

**CO3: To get knowledge about different components of operating system like process management, concurrency mechanisms, deadlock handling, memory management techniques, virtual memory, file system and secondary storage management, security & protection etc**

**CO4: To learn how mechanism work in memory management in contemporary**

**CO5: To know concept of working concept of open source OS**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name : Digital Electronics**

**Semester: III**

**Course Code : B109315(022)**

**CO1: Use digital electronics in the present contemporary world.**

**CO2: Design electronics in the present contemporary world.**

**CO3: Do the analysis and design precedures for synchronous and asynchronus sequential circuit.**

**CO4: Use the semiconductor memories and related technology.**

**CO5: Use electronic circuit involve in the design og logic gate.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name : Introduction to Python**

**Semester: III**

**Course Code : B109314(022)**

<b>CO1: Use various data structure available in python.</b>
<b>CO2: Apply the concept of Data Analysis.</b>
<b>CO3: Apply the use of Numpy Library for performing various data processing activities.</b>
<b>CO4: Apply the use of pandas library for data handling activities.</b>
<b>CO5: Apply the use of matplotlib for data visualization activities.</b>



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name : Data Structures and Algorithms**

**Semester: III**

**Course Code :BI09312(022)**

**CO1: Understand the concept of ADT.**

**CO2: Identify Data Structure suitable to solve problems.**

**CO3: Develop and analyze algorithms for stack, and queue.**

**CO4: Develop algorithm for binary tree and graph.**

**CO5: Implement Symbol table using hashing techniques.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML) Course Name: Design & Analysis of Algorithm**

**Semester: IV**

**Course Code :B109411(022)**

**CO1: Calculate the time complexity of insertion sort, heap sort, bubble sort, linear and binary search algorithm.**

**CO2: Apply the algorithms and design techniques to solve problem related to divide and conquer and greedy algorithm.**

**CO3: Analyse dynamic programming problem including matrix chain multiplication, longest common subsequence and knapsack problem.**

**CO4: Understand the implementation of backtracking and recursive back tracking methods.**

**CO5: Understand the basic concept of NP-Hard, NP-complete, branch and bound methods.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)    Course Name: Data base management system**

**Semester: IV**

**Course Code :B109412(022)**

**CO1: Be familiar with basic concept of RDBMS, relational data model and be able to write relational algebra expression for queries.**

**CO2: Be familiar with basics data base storage structure and access techniques: file and page organization, indexing, methods**

**CO3: Explain basic principles of fluid dynamics and analyze related practical problem.**

**CO4: Derive relationships for various flow characteristics of laminar flow, turbulent flow and energy losses in pipe flow and apply to analyze related practical problems.**

**CO5: Apply dimensional analysis to derive a relationship among connected variables and apply model laws to predict the behavior of the prototype in given circumstances.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML) Course Name: Object-oriented programming(with java)**

**Semester: IV**

**Course Code :B109413(022)**

**CO1: Analyze the necessity for object oriented programming paradigm over structured programming and become familiar with the fundamental concept in oops like encapsulation, inheritance and polymorphism.**

**CO2: Design and develop java programs, analyse and interpret object oriented data and report results.**

**CO3: Design and object oriented system, AWT components and multithreaded processes as per needs and specification.**

**CO4: Creating your own window application and you can able to know how to utilize the various available resources without need of other's help.**

**CO5:**





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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name: Computer system architecture**

**Semester: IV**

**Course Code:B109414(022)**

**CO1: Identify the basics hardware components of a computer system and represent system design in appropriate formate: addressing mode, and instruction setsas per the system configuration requirement.**

**CO2: familierize themselves with binary and hexadecimal number system including computer arithmetics.**

**CO3: Basics functionality of system: parallel, pipelined, super scaller and RISC/CISC architecture.**

**CO4: Outline organization of various parts of a system memory hierarchy.**

**CO5: Demonstrate computer architecture concepts related to design of modern processors, memories and I/O.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name: Discrete structure**

**Semester: IV**

**Course Code :B109415(022)**

**CO1: Able to apply mathematical logic and boolean algebra in switching circuits and logic circuits.**

**CO2: Familiar with set theory relation and function.**

**CO3: Familiar with algebraic structure, graph theory and combinatorics.**

**CO4: Able to solve problem in various fields in computer science, networkink.**

**CO5:**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name: Artificial intelligence**

**Semester: V**

**Course Code:C109511( 022)**

**CO1:Apply AI algorithms for solving practical problems.**

**CO2: Describe human intelligence and AI.**

**CO3: Explain how intelligent system works.**

**CO4: Apply basics of Fuzzy logic and neural networks.**

**CO5: Learn About Application and Analysis of planning approaches**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML) Course Name: Introduction to Machine Learning**

**Semester: V**

**Course Code :C109512(022)**

**CO1: Understand a wide variety of learning algorithms.**

**CO2: Understand how to evaluate models generated from data.**

**CO3: Apply the algorithms to a real problem.**

**CO4:Optimize the models learned and report on the expected accuracy**

**CO5: Applying the optimized models.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name: Theory of Computation**

**Semester: V**

**Course Code:C109513(022)**

<b>CO1: Design finite automata to accept a set of strings of a language.</b>
<b>CO2: Determine whether the given language is regular or not. .</b>
<b>CO3: Design context free grammars to generate strings of context free language.</b>
<b>CO4:Design push down automata and the equivalent context free grammars and Design Turing machine.</b>
<b>CO5: Distinguish between computability and noncomputability, Decidability and un-decidability</b>



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML) Course Name: Probability and Statistics for Machine Learning**

**Semester: V**

**Course Code :C109514(022)**

**CO1: Provide very good insight which is essential for industrial applications by learning probability distributions.**

**CO2: Evaluate randomness in certain realistic situation which can be either discrete or continuous type and compute statistical constants of these random variables.**

**CO3: Describe resistance welding, other special type of welding , soldering, brazing and braze welding**

**CO4: Compute Correlation Coefficient to Decide The Linear Relationship that May Exist Between Two Variables of Interest; Find The Equation of Regression Line And Predict The Value of One Variable Based on the Value of the Other Variable..**

**CO5: Analyze and interpret statistical inference using samples of a given size which is taken from a population.**



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## **Department of Artificial Intelligence & Machine Learning**

### **Course Outcomes**

**Programme: Bachelor of Technology(AIML)**

**Course Name: Internet of Things**

**Semester: V**

**Course Code:C109533(022)**

<b>CO1:Understand the basics of IoT.</b>
<b>CO2: Implement the state of the Architecture of an IoT.</b>
<b>CO3: Understand design methodology and hardware platforms involved in IoT.</b>
<b>CO4: Understand how to analyze and organize the data.</b>
<b>CO5: Compare IOT Applications in realworld.</b>