Jawahar Education Society's
Institute of Technology,Management & Research,Nashik
Approved by AICTE and DTE,Goverment of Maharashtra, Affiliated to University of Pune

Department of Computer Engineering

Course Outcomes (CO)

Syllabus Pattern:-2019

Class:-BE Semester:- I

Sr. No	Subject	Course Outcomes (CO)
1	410241: Design and Analysis of Algorithms	CO1: Formulate the problem CO2: Analyze the asymptotic performance of algorithms CO3: Decide and apply algorithmic strategies to solve given problem CO4: Find optimal solution by applying various methods CO5: Analyze and Apply Scheduling and Sorting Algorithms. CO6: Solve problems for multi-core or distributed or concurrent environments
2	410242: Machine Learning	CO1: Identify the needs and challenges of machine learning for real time applications. CO2: Apply various data pre-processing techniques to simplify and speed up machine learning algorithms. CO3: Select and apply appropriately supervised machine learning algorithms for real time applications. CO4: Implement variants of multi-class classifier and measure its performance. CO5 : Compare and contrast different clustering algorithms. CO6: Design a neural network for solving engineering problems.
3	410243: Blockchain Technology	CO1: Interpret the fundamentals and basic concepts in Blockchain CO2: Compare the working of different blockchain platforms CO3: Use Crypto wallet for cryptocurrency based transactions CO4: Analyze the importance of blockchain in finding the solution to the real-world problems. CO5: Illustrate the Ethereum public block chain platform CO6: Identify relative application where block chain technology can be effectively used and implemented.

4	**410244(D): Object oriented Modeling and Design**	**CO1: Describe the concepts of object-oriented and basic class modelling.** **CO2: Draw class diagrams, sequence diagrams and interaction diagrams to solve problems.** **CO3: Choose and apply a befitting design pattern for the given problem** **CO4: To Analyze applications, architectural Styles & software control strategies** **CO5: To develop Class design Models & choose Legacy Systems.** **CO6:To Understand Design Patterns**
5	**410245 (D): Software Testing and Quality Assurance**	**CO1: Describe fundamental concepts in software testing such as manual testing, automation testing and software quality assurance.** **CO2: Design and Develop project test plan, design test cases, test data, and conduct test operations.** **CO3: Apply recent automation tool for various software testing for testing software.** **CO4: Apply different approaches of quality management, assurance, and quality standard to software system.** **CO5: Apply and analyze effectiveness Software Quality Tools.** **CO6: Apply tools necessary for efficient testing framework.**
6	**410248: Project Work Stage I**	• **Solve real life problems by applying knowledge.** • **Analyze alternative approaches, apply and use most appropriate one for feasible solution.** • **Write precise reports and technical documents in a nutshell.** • **Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work** • **Inter-personal relationships, conflict management and leadership quality.**

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Course Outcomes (CO)

Syllabus Pattern:-2019

Class:-BE Semester:- II

Sr. No	Subject	Course Outcomes (CO)
1	410250: High Performance Computing	CO1: Understand various Parallel Paradigm CO2: Design and Develop an efficient parallel algorithm to solve given problem CO3: Illustrate data communication operations on various parallel architecture CO4: Analyze and measure performance of modern parallel computing systems CO5: Apply CUDA architecture for parallel programming CO6: Analyze the performance of HPC applications
2	410251: Deep Learning	CO1: Understand the basics of Deep Learning and apply the tools to implement deep learning applications CO2: Evaluate the performance of deep learning models (e.g., with respect to the bias-variance trade- off, over fitting and under fitting, estimation of test error). CO3: To apply the technique of Convolution (CNN) and Recurrent Neural Network (RNN) for implementing Deep Learning models CO4: To implement and apply deep generative models. CO5: Construct and apply on-policy reinforcement learning algorithms CO6:To Understand Reinforcement Learning Process
3	410252(C): Software Defined Networks	CO1: Interpret the need of Software Defined networking solutions. CO2: Analyze different methodologies for sustainable Software Defined Networking solutions. CO3: Select best practices for design, deploy and troubleshoot of next generation networks. CO4: Develop programmability of network elements. CO5: Demonstrate virtualization and SDN Controllers using Open Flow protocol CO6: Design and develop various applications of SDN
4	410253(C): Business Intelligence	CO1: Differentiate the concepts of Decision Support System & Business Intelligence CO2:Use Data Warehouse & Business Architecture to design a BI system. CO3:Build graphical reports CO4:Apply different data preprocessing techniques on dataset CO5:mplement machine learning algorithms as per business needs CO6:Identify role of BI in marketing, logistics, and finance and telecommunication sector

5	**410256: Project Work Stage II**	**CO1: Show evidence of independent investigation** **CO2: Critically analyze the results and their interpretation.** **CO3: Report and present the original results in an orderly way and placing the open questions in the right perspective.** **CO4: Link techniques and results from literature as well as actual research and future research lines with the research.** **CO5: Appreciate practical implications and constraints of the specialist subject**