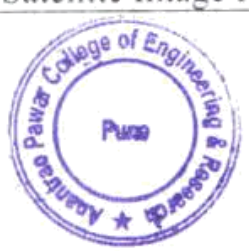
	CO5: Creating network and social circle, and developing relationships with industry people. CO6: To analyze various career opportunities and decide carrier goals.

Final Year Computer Engineering

Course Outcome	
Sr. No	Name of Subject
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	**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
7	**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, overfitting 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
8	**410252 (B): Image Processing**
	CO1: Apply Relevant Mathematics Required for Digital Image Processing. CO2: Apply Special and Frequency Domain Method for Image Enhancement. CO3: Apply algorithmic approaches for Image segmentation. CO4: Summarize the Concept of Image Compression and Object Recognition. CO5: Explore the Image Restoration Techniques. CO6: Explore the Medical and Satellite Image Processing Applications.



9	**410253A: Elective-VI 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

Head of the Department

Computer Engineering .

APCOER, Pune

Principal