

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
Department of Information Technology
Course Outcomes

B.E. I.T – 2019 Course			
Course Code	Course Name	Course Outcomes	
C414441	Information Storage and Retrieval	CO1	Understand the concept of Information retrieval and to apply clustering in information retrieval.
		CO2	Use an indexing approach for retrieval of text and multimedia data.
		CO3	Evaluate performance of information retrieval systems.
		CO4	Apply the concepts of multimedia and distributed information retrieval.
		CO5	Use appropriate tools in analyzing the web information
		CO6	Simulate the working of a search engine and recommender system.
414442	Software Project Management	CO1	Apply the practices and methods for successful Software Project Management
		CO2	Create Design and Evaluate Project
		CO3	Analyze Project Schedule and calculate Risk Management with help of tools.
		CO4	Demonstrate different tools used for Project Tracking, Monitoring & Control.
		CO5	Identify Staff Selection Process and the issues related to Staff Management.
		CO6	Discuss and use modern tools for Software Project Management.
414443	Deep Learning	CO1	Understand the theoretical foundations, algorithms, and methodologies of Deep Learning.
		CO2	Apply the concepts of Convolution Neural Networks and use of popular CNN architectures.
		CO3	Compare Feed Forward Neural Network and Recurrent Neural Network and learn modeling the time dimension using RNN and LSTM.
		CO4	Elaborate unsupervised deep learning algorithms like Auto encoders.
		CO5	Explore Representation Learning and Transfer Learning techniques using variants of CNN architecture.
		CO6	Evaluate the performance of deep learning algorithms and to provide solution for various real-world applications.
414444	Elective – III (Mobile Computing)	CO1	Understand the basic concepts of mobile computing, MAC and different multiplexing technics.

		CO2	Understand Protocols, Connection Establishment, Frequency Allocation, Routing of mobile telecommunication system like GSM, GPRS, UMTS.
		CO3	Understand the Generations of Mobile Communication Technologies
		CO4	Learn mobile IP , Adhoc – Network, Reactive Routing protocols, Multicast Routing.
		CO5	Obtaining knowledge of transport layer protocol TCP, File System, and different application layer protocols.
		CO6	Gain knowledge about different mobile platforms, operating Systems, Software Development Kit, Security Issues.
414445	Elective – IV (Wireless Communication)	CO1	Articulate the fundamental concept of cellular system.
		CO2	Analyse the fundamentals of cellular systems.
		CO3	Illustrate multiple access technique for effective utilization of spectrum.
		CO4	Design and analyse the WAP Programming Model in networking environment.
		CO5	Learn and understand security issues, challenges and tools in wireless communication.
		CO6	Explore the emerging trends and applications in wireless communication.
14446	Lab Practice III	CO1	Understand the concept of Information retrieval and to apply clustering in information retrieval.
		CO2	Use appropriate indexing approach for retrieval of text and multimedia data. Evaluate performance of information retrieval systems.
		CO3	Apply appropriate tools in analyzing the web information.
		CO4	Map the concepts of the subject on recent developments in the Information retrieval field.
414447	Lab Practice IV	CO1	Learn and Use various Deep Learning tools and packages.
		CO2	Build and train a deep Neural Network models for use in various applications.
		CO3	Apply Deep Learning techniques like CNN, RNN Auto encoders to solve real word Problems.
		CO4	Evaluate the performance of the model build using Deep Learning.
414448	Project Stage I	CO1	To apply knowledge of mathematics, science, and engineering to formulate the Problem statement.
		CO2	To design and conduct experiments, as well as to analyze and interpret data.
		CO3	Understand the professional and ethical responsibility.
		CO4	To communicate effectively.

		CO5	Get broad education which is necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
		CO6	Recognition of the need for, and an ability to engage in life-long learning.
		CO7	To use the techniques, skills, and modern engineering tools necessary for engineering practices.
		CO8	awTo design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
414449A	Audit Course 7 Copyrights and Patents	CO1	Understand the concepts of Intellectual Property Rights.
		CO2	Understand the knowledge about Copyrights and Trademark.
		CO3	Understand the knowledge how to protect trade secrets.
414450	Distributed Systems	CO1	Demonstrate the core concepts of distributed systems.
		CO2	Understand the concept of middleware of distributed systems.
		CO3	Understand Inter-process communication methods and analyze different coordination algorithms.
		CO4	Comprehend the importance of replication to achieve fault tolerance in distributed systems.
		CO5	Analyze the design and functioning of existing distributed file systems, distributed multimedia, and distributed web-based systems.
		CO6	Understand various Recent Trends in distributed systems.
414451	Elective- V (Social Computing)	CO1	Understand basics of Social Media Analytics
		CO2	Correlate Network Measures for Social Media Data
		CO3	Visualize mining in social media data
		CO4	Discuss the Social Similarities
		CO5	Interpret social media behavior
		CO6	Apply Social Media Computations for Google+
414452	Elective-VI (Blockchain Technology)	CO1	Understand the concept of cryptography and decentralization.
		CO2	Acquire fundamental knowledge of blockchain with issues associated with it.
		CO3	Acquire knowledge of Ethereum blockchain platform.
		CO4	Understand hyper ledger fabric platform.
		CO5	Acquire the knowledge regarding working of tokenization.
		CO6	Describe the applications and risk involved

414453	Startup and Entrepreneurship	CO1	Able to understand key concepts and framework of innovation and start-up ecosystem.
		CO2	Gain knowledge of how to develop start up ecosystem, its key components and how to influence and manage dynamics between them and increase the productivity of ecosystem.
		CO3	Understand the role of different stakeholders in ecosystem in building and supporting growth of start-ups.
		CO4	Have insight into global trend in start-up ecosystem and product development.
		CO5	Mapping different start-up ecosystems and developing performance indicators.
414454	Lab Practice - V	CO1	Demonstrate knowledge of the core concepts and techniques in distributed systems.
		CO2	Learn how to apply principles of state-of-the-Art Distributed systems in practical application.
		CO3	Design, build and test application programs on distributed systems
414455)	Lab Practice VI (Blockchain Technology)	CO1	To implement small blockchain experimentations.
		CO2	Identify Consensus mechanism for Blockchain Application
414456	Project-II	CO1	Apply engineering and mathematical knowledge to investigate / select proper technology / Algorithm suitable to solve the problem in hand.
		CO2	Apply knowledge of statistics for analysis of results and express conclusion and justification for the same.
		CO3	Design and conduct experiments, as well as to analyze and interpret data or develop prototype model of the application.
		CO4	Communicate effectively.
		CO5	Get broad education which is necessary to understand the impact of engineering solutions in a global, economic, environmental, ethically and societal context.
		CO6	Recognition of the need for, and an ability to engage in life-long learning.