AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Information Technology

Course Outcomes

B.E. I.T – 2015 Course			
Course Code	**Course Name**	**Course Outcomes**	
Semester – I			
414464C	**Multimedia Technologies**	CO1	Demonstrate knowledge and understanding of the concepts, principles and theories of Multimedia Applications.
		CO2	Identify different file formats for image media and apply the different techniques.
		CO3	Identify different file formats for audio media Understand how to store and manage the data that can provide efficient access
		CO4	Identify different file formats for video media and apply the different techniques.
		CO5	Demonstrate their computing, technical and theoretical skills by developing a substantial Multimedia application.
		CO6	Analyse and solve problems related to their expertise in Multimedia Applications and Virtual Environments.
414462	**Distributed Computing System(DCS) &Computer library-IX-Lab**	CO1	Understand the fundamentals and knowledge of the architectures of distributed systems.
		CO2	Understand and apply the basic theoretical concepts and algorithms of distributed systems in problem solving.
		CO3	Recognize knowledge of working

			components and fault tolerance of distributed systems
		CO4	Analyze distributed files and multimedia system.
		CO5	Understand the knowledge of architecture of web-based systems and web application & Remember about security issues and protection mechanism of distributed system
		CO6	Demonstrate knowledge of the core concepts and techniques in distributed systems. And learn how to apply principles of state-of-the-Art Distributed systems in practical application, follow ethical standards and teamwork.
414457E	**Gamification**	CO1	Understand the gamification and its attributes
		CO2	Analyze Development rethinking and player motivation
		CO3	Interpret opponent moves in gamification
		CO4	Design game mechanics
		CO5	Develop advanced tool and techniques in gamification
		CO6	Application of gamification
414457C	**SOFTWARE TESTING & QUALITY ASSURANCE**	CO1	Test the software by applying testing techniques to deliver a product free from bugs.
		CO2	Investigate the scenario and select the proper testing technique.
		CO3	Judge the test automation concepts and tools and estimation of cost, schedule based on standard metrics.
		CO4	Understand how to detect, classify, prevent and remove defects.
		CO5	Select appropriate quality assurance models and develop quality.
		CO6	Conduct formal inspections, record and evaluate results of inspections.
414456A	**Wireless**	CO1	Understand the basics of

	communication		propagation of radio signals, basic Cellular System and the design requirements.
		CO2	Have an Interpretation of the basic principles behind radio resource management techniques such as power control, channel allocation and handoffs.
		CO3	Gain insights into various mobile radio propagation models and how the diversity can be exploited to improve performance.
		CO4	Analyze how to effectively share spectrum through multiple access techniques i.e. TDMA, CDMA, FDMA etc.
		CO5	Compare of the design consideration and architecture for different Wireless Systems like GSM, CDMA, GPRS etc.
		CO6	Understanding of the emerging trends in Wireless communication like WiFi, WiMAX, Software Defined Radio (SDR) and related issues and challenges.
414464A	**Internet of Things (IoT)**	CO1	Explain internet of things and its protocol
		CO2	Design architecture of IoT and compare between IOT and M2M
		CO3	Describe the objects of IOT and its access technology
		CO4	Understand the underlying Technologies of addressing and protocol
		CO5	Understand operating systems for platforms such as Raspberry-Pi/Beagle board/Arduino
		CO6	Show cloud environment for IoT application
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414456C	**Elective-I Usability Engineering**	CO1	Compare and evaluate strengths and weaknesses of various approaches, methods and techniques for evaluating usability.
		CO2	Discuss usability design guidelines, their foundations, assumptions, advantages, and weaknesses.
		CO3	Select appropriate approaches, methods and techniques to evaluate the usability of a specified interactive system and make system easy to understand.
		CO4	Discuss and implement a usability test plan, based on modelling or requirements specification.
		CO5	Implement appropriate standards for easy understanding of usability among different group of community.
		CO6	Describe the usability using future innovative techniques over a long period of technological change.
414454	**Machine Learning and Applications**	CO1	To model the learning primitives and learning model.
		CO2	Students should learn and analysed the classification task.
		CO3	Describe why a particular model of regression is appropriate in a given situations, Formulate the model and use it appropriately.
		CO4	To analytically demonstrate how different distance based models and algorithms are Related to one another.
		CO5	Select an appropriate probabilistic algorithm from a given model, and

			demonstrate the use of that algorithm.
		CO6	Design and compare machine learning methods, and discuss how different methods relate to one another and will be able to develop new and appropriate machine learning methods appropriate for particular problems.
		CO7	implement programming in C,C++ for Cryptography and usage of open source tools of Machine Learning.
414460	**Project Phase – I**	CO1	To show preparedness to study independently in chosen domain of Information Technology and programming languages and apply their acquired knowledge to variety of real time problem scenarios.
		CO2	To function effectively as a team to accomplish a desired goal and understanding of professional, ethical, legal, security and social issues and responsibilities related to Information Technology Project.
414468	**Project Work**	CO1	Learn teamwork & will be well aware about implementation phase.
		CO2	Get exposure of various types of testing methods and tools and to describe the importance of documentation.
414464A	**Rural Technology and community development**	CO1	**Describe and learn** rural development model.
		CO2	**Define and explain** measures in rural development and its impact on overall economy.
		CO3	**Recognize and identify** importance of technologies in

			rural and community development.
		CO4	**Identify** challenges and opportunities in community development.
		CO5	S**tudy, classify and describe** Different forms of Rural Entrepreneurship.
		CO6	Visit to model villages in nearby region and study its functioning and its role in development and **write or design** the report on same.
414464D	**Elective – IV (Social Media Analytics)**	CO1	Understand the basics of Social Media Analytics.
		CO2	Explain the significance of Data mining in Social media.
		CO3	Demonstrate the algorithms used for text mining.
		CO4	Apply network measures for social media data.
		CO5	Explain Behavior Analytics techniques used for social media data.
		CO6	Apply social media analytics for Face book and Twitter kind of applications.
414455	**Software design and modelling**	CO1	Understand object oriented methodologies, basics of Unified Modelling Language (UML).
		CO2	Understand analysis process, use case modelling, domain/class modelling .
		CO3	Understand interaction and behaviour modelling.
		CO4	Understand design process and business, access and view layer class design
		CO5	Get started on study of GRASP principles and GoF design patterns.
		CO6	Get started on study of architectural design principles and guidelines in the various type of application development.

		CO7	Draw, discuss different UML 2.0 diagrams, their concepts, notation, advanced notation & Develop Use Case , Analysis,Design,Interaction & Behavior Model.
414463	**Ubiquitous Computing**	CO1	Demonstrate the knowledge of design of Ubicomp and its applications.
		CO2	Explain smart devices and services used Ubicomp.
		CO3	Describe the significance of actuators and controllers in real time application design.
		CO4	Use the concept of HCI to understand the design of automation applications.
		CO5	Classify Ubicomp privacy and explain the challenges associated with Ubicomp privacy.
		CO6	Get the knowledge of ubiquitous and service oriented networks along with Ubicomp management.
		CO7	Set up the Android environment & Create the smart android applications