Course Outcomes

BE – 2012Course		
Course Code	**Course Name**	**Course Outcomes**
Semester – I		
414463D	**IT Enabled Services**	CO-1: Describe the importance of IT enabled services and challenges.
		CO-2: Identify strategic IT planning for software development.
		CO-3: Recognize enterprise IT architecture for Information technology and understand indian laws of IT industry.
		CO-4: Use of Information Technology so as to enable to improve skills , knowledge and job perspects.
		CO-5: Demonstrate various IT web services for betterment of knowledge.
		CO-6: Use their skills to find out various current IT trends in ITES.
414462	**Distributed System(DS) & SL-V-Lab**	CO1 Understand the principles and desired properties of distributed systems .
		CO2 Apply Inter-process Communication Remote Invocation methods for communication
		CO3 Use Distributed Objects , Components and Web Services in Middleware system.
		CO4 Understand and apply the basic theoretical concepts and algorithms of distributed systems in problem solving.
		CO5 Recognize the inherent difficulties that arise due to distributed-ness of

			computing resources.
		CO6	Identify the challenges in developing distributed applications.
		CO7	Understand the principles on which the internet and other distributed systems are based and apply the basic theoretical concepts and algorithms of distributed systems in problem solving follow ethical standards and teamwork.
414463A	**MOBILE COMPUTING**	CO1	Understand the concept of Mobile generations and mobility management.
		CO2	Students are able to design of GSM architecture.
		CO3	To describe the international call setup mobile number portability services.
		CO4	Students will be able to describe working of wireless architectures and their applications.
		CO5	Apply the software development process for learning mobile architecture.
		CO6	Students will be able to understand recent trends and emerging technologies.
414456 B	**Usability Engineering(UE)**	CO1	Describe the need to study human-computer-interaction or human-factors while designing software.
		CO2	Discuss the process of designing user-friendly software based on usability engineering guidelines.
		CO3	Apply interaction design and UI design process in enhancing user-experience of an application.
		CO4	Construct usability evaluation of user-interfaces or software applications.
		CO5	Discuss industry standards for designing and evaluating user-interfaces.
		CO6	Discuss current trends in usability engineering.
414462	**Advanced Database &**	CO1	Understand Database Modeling,

	SL-VI		Database Architectures.
		CO2	Execute queries on database using Xquery, XML commands.
		CO3	Analyze NoSQL Databases (Open source) and big data analytics.
		CO4	Understand data mining and analytics, Data Streams mining, Stream data management systems.
		CO5	Understand Web data and mining.
		CO6	Analyze current trends in advanced databases.
		CO7	Develop database oriented applications using NoSQL such as Hbase,Hive,Cassendra,DynamoDB on large Scale Databases and Mini Project with Database Project Life Cycle.
414464 D	**Internet of Things (IoT)**	CO1	Explain internet of things and its protocol.
		CO2	Describe key technologies in Internet of Things.
		CO3	Understand wireless sensor network architecture and its framework along with WSN applications.
		CO4	Explain resource management in the Internet of Things.
		CO5	Understand internet of things privacy, security and governance.
		CO6	Understand business models for the Internet of Things.
414453	**Information and cyber security**	CO1	By the end of the course, students should be able to **Understand and list** the basic security attacks, security architecture its limitations and challenges.
		CO2	**Understand and explain** types of cryptography. Study of cryptographic algorithms.
		CO3	**Explain** the data integrity algorithms and different protocols in network security.
		CO4	**Develop** computer forensics awareness amongst the students.
		CO5	**Definition and origin** of Cybercrime and Classification of

			cybercrimes.
		CO6	Tools and methods used in cybercrime.
		CO7	**Implement** program in C++ or java for cryptography also usage of different open source tools for machine learning.
414456E	**Cloud computing**	CO1	Discuss and Understand with the basic concepts of cloud computing
		CO2	Identify challenges in cloud computing and delve into it to effective solutions.
		CO3	Describe how to build and manage large scale distributed systems and cloud applications.
		CO4	Explain Security Mechanisms and issues in various Cloud Applications
		CO5	Implement effective techniques, environment, platforms and application to program Cloud Systems
		CO6	Describe Ubiquitous Computing and applications
414454	**Machine Learning and Applications**	CO1	To model the learning primitives and learning model.
		CO2	Students should learn and analyzed 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.
414467	**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.
414454	**Software modeling & design**	CO1	Understand the usage of various UML diagrams to build a model .
		CO2	Prepare an object oriented model in business domain of an application.
		CO3	Prepare an object oriented model in solution domain.
		CO4	Apply object oriented principles in the design of software system.
		CO5	Get started on study of GOF design patterns.
		CO6	Understand different types of

			software testing.
		CO7	Students will be able to prepare analysis and design model and implement.