

TE(Information Technology)	
Semester-I	
Course Name	Theory of Computation
Course Code	314441
At the end of this course ,the student will be able to:	
Course Outcome	Course Outcome
CO1	Construct finite automata and its variants to solve computing problems.
CO2	Write regular expressions for the regular languages and finite automata.
CO3	Identify types of grammar, design and simplify Context Free Grammar.
CO4	Construct Pushdown Automata machine for the Context Free Language.
CO5	Design and analyze Turing machines for formal languages.
CO6	Understand decidable and undecidable problems, analyze complexity classes.

Course Name	Operating Systems
Course Code	314442
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Explain the role of Modern Operating Systems.
CO2	Apply the concepts of process and thread scheduling.
CO3	Illustrate the concept of process synchronization, mutual exclusion and the deadlock
CO4	Implement the concepts of various memory management techniques.
CO5	Make use of concept of I/O management and File system.
CO6	Understand Importance of System software.

	Semester-I
Course Name	Machine Learning
Course Code	314443
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Apply basic concepts of machine learning and different types of machine learning algorithms.
CO2	Differentiate various regression techniques and evaluate their performance.
CO3	Compare different types of classification models and their relevant application.
CO4	Illustrate the tree-based and probabilistic machine learning algorithms.
CO5	Identify different unsupervised learning algorithms for the related real-world problems.
CO 6	Apply fundamental concepts of ANN.

Course Name	Human Computer Interaction
Course Code	314444
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Explain importance of HCI study and principles of user-centered design (UCD) approach.
CO2	Develop understanding of human factors in HCI design.
CO3	Develop understanding of models, paradigms, and context of interactions.
CO4	Design effective user-interfaces following a structured and organized UCD process
CO5	Evaluate usability of a user-interface design
CO 6	Apply cognitive models for predicting human-computer-interactions.

Course Name	Elective -I : Internet of Things
Course Code	314445(D)
Attend of this course ,the student will be able to:	
Course Outcome	Course Outcome
CO1	Discuss fundamentals, architecture and framework of IoT.
CO2	Select suitable sensors and actuators for real time scenarios.
CO3	Justify the significance of protocol for wireless communication and IoT challenges
CO4	Understand the Python programming for development of IoT applications.
CO5	Understand the cloud interfacing technologies.
CO6	Design and Implement realtime IoT applications.

TE(Information Technology)	
Semester-II	
Course Name	Computer Network and Security
Course Code	314451
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Explain Responsibilities, services offered and protocol used at application layer of network.
CO2	Apply concepts of wireless network and different wireless standards.
CO3	Recognize the Adhoc Network's MAC layer, routing protocol and Sensor network architecture.
CO4	Implement the principal concepts of network security and Understand network security threats, security services, and countermeasures.
CO5	Apply basic cryptographic techniques in application development.
CO6	Gain a good comprehension of the landscape of cyber security Vulnerabilities & describe typical threats to modern digital systems.

Course Name	Data Science and Big Data Analytics
Course Code	314452
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Understand Big Data primitives.
CO2	Learn and apply different mathematical models for Big Data.
CO3	Demonstrate Big Data learning skills by developing industry or research applications.
CO4	Analyze and apply each learning model comes from a different algorithmic approach and it will perform differently under different datasets.
CO5	Understand, apply and analyze needs, challenges and techniques for big data visualization.
CO6	Learn different programming platforms for big data analytics.

TE(Information Technology)	
Course Name	Web Application Development
Course Code	314453
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Develop Static and Dynamic website using technologies like HTML, CSS, Bootstrap.
CO2	Demonstrate the use of web scripting languages.
CO3	Develop web application with Front End & Back End Technologies.
CO4	Develop mobile website using JQuery Mobile.
CO5	Deploy web application on cloud using AWS.

Course Name	Elective-II- (Cloud Computing)
Course Code	314454 (C)
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO1	Articulate the main concepts, key technologies and fundamentals of cloud computing.
CO2	Understand cloud enabling technologies and virtualization.
CO3	Analyze various cloud programming models and apply them to solve problems on the cloud.
CO4	Explain data storage and major security issues in the cloud.
CO5	Understand trends in ubiquitous cloud and internet of things.
CO6	Explore future trends of cloud computing.