



JNTUH COLLEGE OF ENGINEERING JAGTIAL
Nachupally, Kondagattu, Jagtial-505501

Department of Computer Science and Engineering

LIST OF COURSE OUTCOMES

2020-21 (II Sem)

B.Tech - III-Year II Sem

C309	C309- Machine Learning
C309.1	Understand the concepts of computational intelligence like machine learning techniques.
C309.2	Apply machine learning techniques to address the real time problems in different areas.
C309.3	Understand the artificial Neural networks and its usage in machine learning application.
C309.4	Apply analytical learning techniques to address the real time problems in different domains.
C309.5	Generate learning set rules by considering sample data sets.
C309.6	Understand and compare different types of machine learning algorithms.

C309	C309- Compiler Design
C309.1	Understand the design of a compiler and the phases of program translation from source code to executable code.
C309.2	Analyze different parsing techniques such as recursive decent parser and LR parser used in parser generator.
C309.3	Apply the formal attributes grammars for specifying the syntax and semantics of programming languages.
C309.4	Understand the code optimization and data flow analysis.
C309.5	Apply and analyze code generation algorithms and generate object code.
C309.6	Design a compiler for an abstract language.

C311	C311 - Design and Analysis of Algorithms
C311.1	Analyze the asymptotic performance of algorithms.
C311.2	Apply divide and conquer to binary search, merge sort, stresses matrix multiplication and analyze their time complexities.
C311.3	Apply greedy method to knapsack problem, job sequencing with deadlines, prim's, kruskal's algorithms and analyze their time complexities.
C311.4	Apply dynamic programming to special binary search trees, 0/1 knapsack problems, all pairs shortest path problem etc., and analyze their time complexities.
C311.5	Demonstrate a familiarity with major algorithms and data structures.
C311.6	Synthesize efficient algorithms in common engineering design situations.

C313	C313-PE-III : Software Testing Methodologies
C313.1	Apply the process of testing and various methodologies in testing for developing software.
C313.2	Write possible test cases for a given software to test it before delivery to the customer.
C313.3	Analyze the program flow graph and design appropriate testing technique.
C313.4	Frame appropriate testing strategy and apply them in software solutions to various complex problems faced by the society.
C313.5	Assess the testability of various software domains and interfaces and also applying appropriate testing technique for testing various domains and interfaces.
C313.6	Select and use appropriate modern testing tools like Win-Runner, J Meter etc. for testing different types software's.

C314	C314- OE-I : Fundamentals of Internet of Things
C314.1	Learn the Characteristics and functional blocks of IoT and the basic protocols in Sensor Networks.
C314.2	Differentiate IoT and M2M and to Program and configure Arduino boards for various designs.
C314.3	Implement Python Programming and interfacing for Raspberry Pi.
C314.4	Understand the importance of Software Defined Networks for IoT and Data Handling and Analytics.
C314.5	Compare Cloud with Sensor Cloud and analyze the applications of IoT in Smart cities, homes, Grids, Connected Vehicles and Industrial IoT with case studies.
C314.6	Apply the knowledge of IoT to design IoT applications in different domains.

C315	C315- Environmental Science
C315.1	To develop technologies considering ecosystem values
C315.2	To recognize immense importance of natural resources, and explore future optional possibilities for development
C315.3	To acquaint the value and appreciation for biodiversity services we receive, in turn will mould development under the frame work of biodiversity management strategies
C315.4	To identify the causes of pollution, will realize global impacts of pollution and move path forward with green development
C315.5	To develop ethically, socially, legally towards sustainable development
C315.6	To understand the method to assess the environmental impact of developmental proposals prior to major decisions being taken and commitments made

C315	C315- Cyber Security
C315.1	Able to unederstand Basic Cyber Security Concepts, layers of security and Internet Governance
C315.2	Able to undersand types of attacks, Cyber Threats and Comprehensive Cyber Security Policy.
C315.3	Able to Undestand Cyber Security Regulations and Cyber forensics
C315.4	Able to Understand about Cybercrime , who are cybercriminals, Classifications of Cyber crimes.

C315.5	Able to understand Organizational Implications and Cyber terrorism
C315.6	Able to understand Basic Data Privacy Concepts

C315	C315- Compiler Design Lab
C315.1	Appreciate the concept of lexical analyzer and able to compose program for a given grammar.
C315.2	Incorporate Regular Expression to identify strings.
C315.3	Learn the fundamentals of parsers and able to implement various parsing techniques.
C315.4	Design and convert BNF rules into YACC form to generate various parsers.
C315.5	Generate machine code from the intermediate code forms
C315.6	Understand the practical approach of how a compiler works.

C315	C315- Software Testing Methodologies Lab
C315.1	Understand the WinRunner testing tool and Perform recording in Context sensitive and Analog modes
C315.2	Implement GUI Checkpoint for a single property, object/window and multiple objects
C315.3	Apply Bitmap checkpoint for object/window and screen area.
C315.4	Use Database checkpoint for default, custom and run-time record checks
C315.5	Perform Data driven testing through flat files, grids, excel and Batch testing with and without parameter passing.
C315.6	Design and develop the best test strategies in accordance to the development model

C315	C315- Machine Learning Lab
C315.1	Understand complexity of Machine Learning algorithms and their limitations
C315.2	Understand modern notions in data analysis-oriented computing
C315.3	Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own;
C315.4	Understand Text Analysis using Back-propagation algorithm
C315.5	Be capable of performing database related experiments in Machine Learning using Python
C315.6	Be capable of performing experiments in Machine Learning using real-world data