JNTUH COLLEGE OF ENGINEERINGJAGTIAL
Nachupally, Kondagattu, Jagtial-505501

Department of Computer Science and Engineering

LIST OF COURSE OUTCOMES
2020-21
M.Tech - I-Year II Sem

CO#	Subject Name -CO Statemetns
CPG10	**CPG10 - Advanced Algorithms**
CPG10.1	Analyze the complexity/performance of different algorithms
CPG10.2	Determine the appropriate data structure for solving a particular set of problems.
CPG10.3	Categorize the different problems in various classes according to their complexity.
CPG10.4	Student should have an insight of recent activities in the field of the advanced data structure.
CPG10.5	Understand the concepts of P, NP, NP-complete problems and reducibility

CPG11	CPG11- Advanced Computer Architecture
CPG11.1	Gain knowledge of computational models and Computer Architectures
CPG11.2	Understand the knowledge of concepts of parallel computer models.
CPG11.3	Gain knowledge of scalable architectures, pipelining, super scalar processors and multiprocessors.
CPG11.4	Identify and apply parallel processing computation for various real-world problems.
CPG11.5	Design scalable and multithreaded architectures.
CPG11.6	Design Instruction, arithmetic and superscalar pipelines.

CPG12	CPG12 - Internet of Things
CPG12.1	Understand the concepts and application areas of Internet of Things.
CPG12.2	Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
CPG12.3	Understand IoT System Management Protocols.
CPG12.4	Design a Software that serves as an interface between components of IOT
CPG12.5	Implement basic IoT applications on Raspberry PI platform
CPG12.6	Implement the web based services on IOT devices

CPG13	CPG13 -Advanced Computer Networks
CPG13.1	Summarize the basic concepts of Computer Networks, Devices, Internet and Networking Protocols.
CPG13.2	Interpret the use of Multiplexers, Modems, Devices and their interconnections and also

	Perform Error detection and Correction.
CPG13.3	Make use of data link layer protocols and services to provide well defined interface and also explain the concepts of Networks and Internetworking.
CPG13.4	Analyze the functions of Transport and Application Layer Protocols and working of different Routing protocols.
CPG13.5	Illustrate the File transmission using Application layer protocols like FTP, E-Mail, P2P over the web and create simulated networks using network monitoring tools.
CPG13.6	Apply Advanced Networking concepts for the design and simulation of Networking protocols.

CPG14	CPG12 - Advanced Algorithms Lab
CPG12.1	Implement and Know the application of pattern matching algorithms
CPG12.2	Choose appropriate data Structures and algorithm design methods for a specified application
CPG12.3	Analyze the complexity/performance of algorithms
CPG12.4	Implement the programs to solve problems using algorithm design techniques such as Divide and Conquer, Greedy.
CPG12.5	Implement the applications using faster, simpler and optimized the searches of substrings.
CPG12.6	Ability to understand how the choice of data structures and the algorithm design methods impact the performance of programs.

CPG15	CPG13 - Data Science Lab
CPG13.1	Discuss concepts of Principles of computer communications & networks
CPG13.2	Apply Essential terms & concepts of computer networks, analog& digital communication concepts to find solutions to broad range of queries.
CPG13.3	Analyze Physical & data link layer concepts, network hardware components
CPG13.4	Design networking models, analog& digital communication systems, data transmission modes for a given scenario.
CPG13.5	Investigate various computer communication networks for a given scenario.
CPG13.6	Conduct experiments on Computer networks using ns2 tool etc.

CPG14	CPG14 - Audit Course-II : Value Education
CPG14.1	Acquire Knowledge of self-development and Moral Values.
CPG14.2	Learn the importance of Human values and cultivate them.
CPG14.3	Developing the overall personality and Behavior.
CPG14.4	Avoid fault thinking and imbibe the dignity of labor.
CPG14.5	Learn the importance of harmony, faith and self-management.
CPG14.6	Obtain complete knowledge on self-development, human values, importance of character and behavior development and will be able acquire value education skills.