NEHRU MEMORIAL COLLEGE
(AUTONOMOUS)

NATIONALLY ACCREDITED WITH "A" GRADE BY NAAC

PUTHANAMPATTI,TRICHY – 621007

DEPARTMENT OF COMPUTER SCIENCE

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COURSE OUTCOME (COS)

Name of the Course	Course outcomes
CC-I GRAPH AND AUTOMATA THEORY	CO1: Understand different types of graphs with applications. CO2: Know strong background of graph theory which has diverse applications in many areas of computer science, engineering, etc., CO3: Mastering in regular languages and finite automata, push down automata CO4: Mastering in context free languages. CO5: Think analytically and develop the problem solving skills in theory of computer science
CC-II DESIGN AND ANALYSIS OF ALGORITHMS	CO1: Define the various steps in algorithm. CO2: Apply various techniques to real life problem. CO3: Analyze complexity of the algorithm.
CC-III DATABASE SYSTEMS	CO1: Understand the fundamentals of database system. CO2: Design and create tables in database and develop Ueries. CO3: Design a database based on a data models using normalization. CO4: Explain database system architecture, distributed database

CC-IV OPEN SOURCE TECHNOLOGIES	CO1: Develop applications in different platforms. CO2: Create interactive web pages using Perl and PHP. CO3: Develop simple web applications. CO4: Select suitable platform for real life problem.
CC-V LAB-I-OPEN SOURCE TECHNOLOGIES	Co1: Understand unix commands. Co2: Create interactive web pages. Co3: Develop simple applications in php and mysql.
CC-VI PROGRAMMING IN JAVA AND J2EE	Co1: Design socket programming and tcp/ip protocol Co2: Identify distributed hardware and software architecture and distributed environment Co3: Identify rmi architecture and java servlets, apply the same to develop applications Co4: Develop real time web based applications using jsp Co5: Build applications in j2ee server using java servlets and java server pages
CC-VII SOFT COMPUTING	Co1: Apply fuzzy set theory to real life problem Co2: Develop neural networks and nero fuzzy model Co3: Apply computational intelligence
CC-VIII DATA MINING & DATA WARE HOUSING	Co1: Preprocess the data using various preprocessing techniques Co2: Generate association rules using apriori and fp-growth algorithms Co3: Predict the class label of a given tuple using the classification techniques co4: Group the data using the basic clustering techniques co5: Summarize the concepts of warehouse, its architecture and multidimensional data models

CC-IX LAB II-JAVA & J2EE	Co1: Write code on socket programming using tcp/ip and udp Co2: Design various real time applications using rmi Co3: Develop various real time web based distributed applications using java servlets, jsp
CEC-I PRINCIPLES OF WIRELESS AND MOBILE NETWORK	Co1: Understand the basic concepts of personal communication services (pcs) by wireless network fundamentals and topology. Co2: Exposed to the required operations mobility management and handoff Co3: Design of the wireless wan for gsm ,gprs and cdma. Co4: Conversant with broadband and adhoc networks functionalities by ieee wireless projects. Co5: Apply cognize the wireless geolocation system by e-911
CEC-I DIGITAL IMAGE PROCESSING	Co1: Describe digital image fundamentals and image enhancement co2: Apply knowledge on image restoration and segmentation co3: Use image compression techniques to real life models
CEC-I ADVANCED OPERATING SYSTEM	Co1: Identify the services provided by operating systems Co2: Solve problems involving process description and control. Co3: Resolve mutual exclusion, deadlock detection Co4: Apply the memory management techniques Co5: Manage i/o devices, disk scheduling and file sharing.

OEC-I R PROGRAMMING	Co1: User for statistical programming, computation, graphics, and modeling co2: User programming for research and scientific applications Co3: Apply statistical tests for various research problems using r. Co4: Identify and fit some basic types of statistical models
OEC-I WEB TECHNOLOGY	Co1: Identify web browsers and network protocols Co2: Design a web pages using html tags Co3: Create a dynamic webpage using php and mysql
OEC-FUNCTIONAL PROGRAMMING USING HASKELL	Co1: Understand the simple functions Co2: Develop functional programming in integrated deployment Co3: Write haskell program using various built in functio Co4: Apply various concept in pattern matching Co5: Analyze concept of data structure
CC-X -AI AND MACHINE LEARNING	CO1: Solve the real life problems using AI techniques. CO2: Identify appropriate AI methods to develop knowledge based solution. CO3: Identify problems, through the concept of learning methods. CO4: Apply various neural networks algorithms to real life problems. CO5: Apply genetic algorithms for research problems.

CC-XI PRINCIPLES OF COMPILER DESIGN	Co1: Understand various types of translators and its functions k1 Co2: Identify phases of compiler Co3: Design lexical analyzer and identify the similarities and differences among different parsing techniques Co4: Formulate the different representation of intermediate code Co5: Evaluate the optimized code to generate code.
CC-XII IOT-INTERNET OF THINGS	CO1: Design a portable iot using Arduino equivalent boards and relevant protocols CO3: Deploy an iot application and connect to the cloud CO4: Analyze applications of iot in real time applications.
CC-XIII-RAPID APPLICATION DEVELOPMENT USING PYTHON	Co1: Install of python and its fundamentals Co2: Apply various data structures Co3: Compile the functions of files and exceptions Co4: Develop oop based programs Co5: Using numpy functions for developing applications
CC-XIV-LAB-III -MACHINE LEARNING	CO1: Solve the real life problems using machine learning algorithms CO2: Apply machine learning algorithms to datasets in different domains CO3: Classify the datasets as training data and test data
CC-II CLOUD COMPUTING	Co1: Apply the various types of clouds service and deployment models Co2: Describe cloud computing architecture Co3: Identify the basic cloud collaborating applications Co4: Apply cloud security to real time applications

CEC-II SERVICE ORIENTED ARCHITECTURE	Co1: Understand the software architecture, enterprise wide soa, soa patterns and soa programming models. Co2: Critique the benefits of soa Co3: Implement the soa. Co4: Demonstrate the meta data management and web services security. Co5: Analyze the transaction processing and web services security. K4
CEC-II GRAPHICS AND HUMAN COMPUTER INTERACTION	Co1: Design effective dialog for hci. Co2: Design effective hci for individual persons with disabilities. Co3: Assess the importance of user feedback. Co4: Explain the hci implications for designing web sites. Co5: Develop meaningful user interface.
CEC-III BIG DATA ANALYTICS	Co1: Analyze evolution and technologies requirement of big data k4 Co2: Predict mining data from data sets Co3: Outline components of hadoop and mapreduce functions and its environment Co4: Explain different working principles of map reduce Co5: Formulate hadoop cluster and select appropriate tool

CEC-III NETWORK SECURITY	CO1: Identify major issues in network security CO2: Identify and classify different types of attacks CO3: Explain vulnerability, threats and attack CO4: Compare symmetric and asymmetric encryption Systems and their vulnerability to attack.
CEC-III WEB APPLICATION ARCHITECTURE	Co1: Analyze the architecture of web applications Co2: Design web pages using html and css Co3: Identify appropriate programming languages to develop the application logic in both client and server.
CEC-IV SOFTWARE PROJECT MANAGEMENT	Co1: Explain conventional software project management and software economical Co2: Evaluate project management framework
CEC-IV SOFTWARE FORENSICS	CO1: Identify hackers and normal users. CO2: Apply the principles of computer forensics for Security CO3: Manage threats and the tactics
CEC-IV SOFTWARE TESTING	Co1: Describe the testing process and its methodology Co2: Identify and apply the various types of testing in real time problem Co3: Design test cases Co4: Design architecture for automation using tools.