



PALLAVI ENGINEERING COLLEGE

(Formerly Nagole Institute of Technology & Science)
Abdullapurmet(M), Near Hayathanagar

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

COURSE OUTCOMES

I YEAR CSE SEMESTER-I (REGULATION –R18)

ACADEMIC YEAR: 2019-2020

Course Code & Name: MA101BS Mathematics-I

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C111 [1]	Write the matrix representation of a set of linear equations and to analyse the solution of the system of equations
C111 [2]	Find the Eigen values and Eigen vectors
C111[3]	Reduce the quadratic form to canonical form using orthogonal transformations.
C111[4]	Analyse the nature of sequence and series.
C111[5]	Solve the applications on the mean value theorems.
C111[6]	Evaluate the improper integrals using Beta and Gamma functions
C111[7]	Find the extreme values of functions of two variables with/ without constraints.

Course Code & Name: CH102BS: Chemistry

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C112 [1]	The knowledge of atomic, molecular and electronic changes, band theory related to conductivity.
C112 [2]	The required principles and concepts of electrochemistry, corrosion and in understanding the problem of water and its treatments.
C112 [3]	The required skills to get clear concepts on basic spectroscopy and application to medical and other fields.

C112 [4]	The knowledge of configurationally and conformational analysis of molecules and reaction mechanisms.

Course Code & Name: EE103ES: Basic Electrical Engineering

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C113 [1]	To analyze and solve electrical circuits using network laws and theorems.
C113 [2]	To understand and analyze basic Electric and Magnetic circuits
C113 [3]	To study the working principles of Electrical Machines
C113 [4]	To introduce components of Low Voltage Electrical Installations

Course Code & Name: ME105ES: Engineering Workshop

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C114 [1]	Study and practice on machine tools and their operations
C114 [2]	Practice on manufacturing of components using workshop trades including plumbing, fitting, carpentry, foundry, house wiring and welding.
C114 [3]	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.
C114[4]	Apply basic electrical engineering knowledge for house wiring practice.

Course Code & Name: EN105HS: English

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C115 [1]	Use English Language effectively in spoken and written forms
C115 [2]	Comprehend the given texts and respond appropriately.
C115 [3]	Communicate confidently in various contexts and different cultures.

C115 [4]	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.
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Course Code & Name: CH106BS: Engineering Chemistry Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C116 [1]	Determination of parameters like hardness and chloride content in water.
C116 [2]	Estimation of rate constant of a reaction from concentration – time relationships.
C116 [3]	Determination of physical properties like adsorption and viscosity.
C116 [4]	Calculation of R_f values of some organic molecules by TLC technique

Course Code & Name: EN107HS: English Language And Communication Skills Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C117 [1]	Better understanding of nuances of English language through audio- visual experience and group activities
C117[2]	Neutralization of accent for intelligibility
C117 [3]	Speaking skills with clarity and confidence which in turn enhances their employability skills

Course Code & Name: EE108ES: Basic Electrical Engineering Lab

Upon The Completion Of The Course, Students Will Be Able To:

Course Name	Course outcomes
C118 [1]	Get an exposure to basic electrical laws.
C118 [2]	Understand the response of different types of electrical circuits to different excitations
C118 [3]	Understand the measurement, calculation and relation between the basic electrical parameters

C118 [4]	Understand the basic characteristics of transformers and electrical machines
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I YEAR CSE SEMESTER-II (REGULATION –R18)

ACADEMIC YEAR: 2019-2020

Course Code & Name: MA201BS: Mathematics - II

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C121 [1]	Identify whether the given differential equation of first order is exact or not
C121 [2]	Solve higher differential equation and apply the concept of differential equation to real world problems
C121 [3]	Evaluate the multiple integrals and apply the concept to find areas, volumes, centre of mass and Gravity for cubes, sphere and rectangular parallelepiped

Course Code & Name: AP202BS: Applied Physics

Upon completion of the course, Students will be able to:

Course Name	Course outcomes
C122 [1]	The student would be able to learn the fundamental concepts on Quantum behaviour of matter in its micro state.
C122 [2]	The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre optics enable the students to apply to various systems like communications, solar cell, photo cells and so on. .
C122[3]	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
C122[4]	The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.

Course Code & Name: CS203ES: Programming For Problem Solving

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C123 [1]	To write algorithms and to draw flowcharts for solving problems
C123 [2]	To convert the algorithms/flowcharts to C programs.
C123 [3]	To code and test a given logic in C programming language.

C123 [4]	To decompose a problem into functions and to develop modular reusable code.
C123 [5]	To use arrays, pointers, strings and structures to write C programs.
C123 [6]	Searching and sorting problems.

Course Code & Name: ME204ES: Engineering Graphics

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C124 [1]	Preparing working drawings to communicate the ideas and information.
C124 [2]	Read, understand and interpret engineering drawings.

Course Code & Name: AP205BS: Applied Physics Lab

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C125 [1]	Analyze the characteristics of Semi conductor Devices
C125 [2]	Understand the properties of material help the students to prepare new materials for various engineering applications.

Course Code & Name: CH206BS: Engineering Chemistry Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C126 [1]	Determination of parameters like hardness and chloride content in water.
C126 [2]	Estimation of rate constant of a reaction from concentration – time relationships.
C126 [3]	Determination of physical properties like adsorption and viscosity.
C126 [4]	Calculation of R _f values of some organic molecules by TLC technique

Course Code & Name: CS206ES: Programming For Problem Solving Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
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C127 [1]	Formulate the algorithms for simple problems
C127 [2]	Translate given algorithms to a working and correct program
C127 [3]	Correct syntax errors as reported by the compilers
C127 [4]	Identify and correct logical errors encountered during execution
C127 [5]	Represent and manipulate data with arrays, strings and structures
C127 [6]	Use pointers of different types
C127 [7]	Create, read and write to and from simple text and binary files
C127 [8]	Create, read and write to and from simple text and binary files

Course Code & Name: *MC109ES: Environmental Science

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C128 [1]	Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development

II YEAR CSE SEMESTER-I (REGULATION –R18)

ACADEMIC YEAR: 2019-2020

Course Code & Name: CS301ES: Analog and Digital Electronics

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C211 [1]	Know the characteristics of various components.
C211 [2]	Understand the utilization of components.
C211 [3]	Design and analyze small signal amplifier circuits.
C211 [4]	Learn Postulates of Boolean algebra and to minimize combinational functions

C211 [5]	Design and analyze combinational and sequential circuits
C211 [6]	Know about the logic families and realization of logic gates.

Course Code & Name: CS302ES: Data Structures

Upon completion of the course, Students will be able to:

Course Name	Course outcomes
C212 [1]	Ability to select the data structures that efficiently model the information in a problem.
C212 [2]	Ability to assess efficiency trade-offs among different data structure implementations or combinations.
C212 [3]	Implement and know the application of algorithms for sorting and pattern matching.
C212 [4]	Design programs using a variety of data structures, including hash tables, binary and general tree structures, search trees, tries, heaps, graphs, and AVL-trees.

Course Code & Name: MA303BS: Computer Oriented Statistical Methods

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C213 [1]	Apply the concepts of probability and distributions to some case studies
C213 [2]	Correlate the material of one unit to the material in other units
C213 [3]	Resolve the potential misconceptions and hazards in each topic of study.

Course Code & Name: CS304PC: Computer Organization And Architecture

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C214 [1]	Understand the basics of instructions sets and their impact on processor design.
C214 [2]	Demonstrate an understanding of the design of the functional units of a digital computer system.
C214 [3]	Evaluate cost performance and design trade-offs in designing and constructing a computer processor including memory.
C214 [4]	Design a pipeline for consistent execution of instructions with minimum hazards.

C214 [5]	Recognize and manipulate representations of numbers stored in digital computers
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Course Code & Name: CS305PC: Object Oriented Programming Using C++

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C215 [1]	Able to develop programs with reusability
C215 [2]	Develop programs for file handling
C215 [3]	Handle exceptions in programming
C215 [4]	Develop applications for a range of problems using object-oriented programming techniques

Course Code & Name: CS306ES: Analog And Digital Electronics Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C216 [1]	Know the characteristics of various components.
C216 [2]	Understand the utilization of components.
C216 [3]	Design and analyze small signal amplifier circuits.
C216 [4]	Postulates of Boolean algebra and to minimize combinational functions
C216 [5]	Design and analyze combinational and sequential circuits
C216 [6]	Known about the logic families and realization of logic gates.

Course Code & Name: CS307PC: Data Structures Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C217 [1]	Ability to develop C programs for computing and real-life applications using basic elements like control statements, arrays, functions, pointers and strings, and data structures like stacks, queues and linked lists.
C217 [2]	Ability to Implement searching and sorting algorithms

Course Code & Name: CS308PC: IT Workshop Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C218[1]	Ability to install the OS, Latex, Linux and applications.

Course Code & Name: CS309PC: C++ Programming Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C219 [1]	Ability to develop applications for a range of problems using object-oriented programming techniques

Course Code & Name: *MC309/*MC409: Gender Sensitization Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C2110 [1]	Students will have developed a better understanding of important issues related to gender in contemporary India.
C2110 [2]	Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
C2110 [3]	Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
C2110 [4]	Students will acquire insight into the gendered division of labour and its relation to politics and economics.
C2110 [5]	Men and women students and professionals will be better equipped to work and live together as equals.
C2110 [6]	Students will develop a sense of appreciation of women in all walks of life.
C2110 [7]	Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

II YEAR CSE SEMESTER-II (REGULATION –R18)

ACADEMIC YEAR: 2019-2020

Course Code & Name: CS401PC: Discrete Mathematics

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C221 [1]	Ability to understand and construct precise mathematical proofs
C221 [2]	Ability to use logic and set theory to formulate precise statements
C221 [3]	Ability to analyze and solve counting problems on finite and discrete structures
C221 [4]	Ability to describe and manipulate sequences
C221 [5]	Ability to apply graph theory in solving computing problems

Course Code & Name: SM402MS/SM305MS: Business Economics And Financial Analysis

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C222 [1]	The students will understand the various Forms of Business and the impact of economic variables on the Business. The Demand, Supply, Production, Cost, Market Structure, Pricing aspects are learnt. The Students can study the firm's financial position by analysing the Financial Statements of a Company.

Course Code & Name: CS403PC: Operating Systems

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C223 [1]	Provide an introduction to operating system concepts (i.e., processes, threads, scheduling, synchronization, deadlocks, memory management, file and I/O subsystems and protection)
C223 [2]	Introduce the issues to be considered in the design and development of operating system
C223 [3]	Introduce basic Unix commands, system call interface for process management, interprocess communication and I/O in Unix

Course Code & Name: CS404PC: Database Management Systems

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C224 [1]	Gain knowledge of fundamentals of DBMS, database design and normal forms
C224 [2]	Master the basics of SQL for retrieval and management of data.
C224 [3]	Be acquainted with the basics of transaction processing and concurrency control.
C224 [4]	Familiarity with database storage structures and access techniques

Course Code & Name: CS405PC: JAVA Programming

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C225 [1]	Able to solve real world problems using OOP techniques.
C225 [2]	Able to understand the use of abstract classes.
C225 [3]	Able to solve problems using java collection framework and I/o classes.
C225 [4]	Able to develop multithreaded applications with synchronization.
C225 [5]	Able to develop applets for web applications.
C225 [6]	Able to design GUI based applications

Course Code & Name: CS406PC: Operating Systems Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C226 [1]	Simulate and implement operating system concepts such as scheduling, deadlock management, file management and memory management.
C226 [2]	Able to implement C programs using Unix system calls

Course Code & Name: CS407PC: Database Management Systems Lab

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
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C227 [1]	Design database schema for a given application and apply normalization
C227 [2]	Acquire skills in using SQL commands for data definition and data manipulation.
C227 [3]	Develop solutions for database applications using procedures, cursors and triggers

Course Code & Name: CS408PC: JAVA Programming LAB

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C228 [1]	Able to write programs for solving real world problems using java collection frame work.
C228 [2]	Able to write programs using abstract classes.
C228 [3]	Able to write multithreaded programs.
C228 [3]	Able to write GUI programs using swing controls in Java.

III YEAR CSE SEMESTER-I (REGULATION –R16)

ACADEMIC YEAR: 2019-2020

Course Code & Name: CS501PC & Design and Analysis of Algorithms

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C311 [1]	Ability to analyze the performance of algorithms.
C311 [2]	Ability to choose appropriate algorithm design techniques for solving problems.
C311 [3]	Ability to understand how the choice of data structures and the algorithm design methods impact the performance of programs.

Course Code & Name: CS502PC & Data Communication and Computer Networks

Upon completion of the course, students will be able to:

Course Name	Course outcomes
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C312 [1]	Students should be understand and explore the basics of Computer Networks and Various Protocols. He/She will be in a position to understand the World Wide Web concepts.
C312[2]	Students will be in a position to administrate a network and flow of information further he/she can understand easily the concepts of network security, Mobile and ad hoc networks..

Course Code & Name: CS503PC & Software Engineering

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C513 [1]	Ability to identify the minimum requirements for the development of application.
C513 [2]	Ability to develop, maintain, efficient, reliable and cost effective software solutions
C513[3]	Ability to critically thinking and evaluate assumptions and arguments.

Course Code & Name: SM504MS Fundamentals Of Management

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C314 [1]	To understand the Management Concepts in their Profession.
C314 [2]	The students can learn various Management Functions like planning, organizing, staffing, leading, Motivation and control.
C314 [3]	The students can explore the Mangement Practices in their domain area.

Course Code & Name: CE511OE: Disaster Management (Open Elective I)

Upon Completion of the course, the students will be able to:

Course Name	Course outcomes
C315[1]	Understanding Disasters, man-made Hazards and Vulnerabilities
C315 [2]	Understanding disaster management mechanism
C315 [3]	Understanding capacity building concepts and planning of disaster managements

Course Code & Name: CS505PC : Design And Analysis Of Algorithms Lab Upon the completion of the course, students will be able to:

Course Name	Course outcomes
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C316 [1]	Ability to write programs in java to solve problems using algorithm design techniques such as Divide and Conquer, Greedy, Dynamic programming, and Backtracking.
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Course Code & Name: CS506PC & Computer Networks Lab

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C317 [1]	Ability to understand the encryption and decryption concepts in Linux environment
C317 [2]	Ability to apply appropriate algorithm for the finding of shortest route.
C317 [3]	Ability to configure the routing table

Course Code & Name: CS507PC & Software Engineering Lab

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C318 [1]	Ability to analyze and design of software problem. Graphical modeling language used to express the designs.

Course Code & Name: MC500HS Professional Ethics (Open Elective I)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C319 [1]	The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

III YEAR CSE SEMESTER-II (REGULATION –R16)

ACADEMIC YEAR: 2019-2020

Course Code & Name: CS601PC & Compiler Design

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
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C321[1]	Ability to design, develops, and implement a compiler for any language.
C321[2]	Able to use lex and yacc tools for developing a scanner and a parser.
C321[3]	Able to design and implement LL and LR parsers.
C321[4]	Able to design algorithms to perform code optimization in order to improve the performance of a program in terms of space and time complexity.
C321[5]	Ability to design algorithms to generate machine code

Course Code & Name: CS602PC & Web Technologies

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C322[1]	Gain knowledge of client side scripting, validation of forms and AJAX programming
C322 [2]	Have understanding of server side scripting with PHP language
C322 [3]	Have understanding of what is XML and how to parse and use XML Data with Java
C322 [4]	To introduce Server side programming with Java Servlets and JSP

Course Code & Name: CS603PC & Cryptography And Network Security

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C323 [1]	Student will be able to understand basic cryptographic algorithms, message and web authentication and security issues.
C323[2]	Ability to identify information system requirements for both of them such as client and server
C323[3]	Ability to understand the current legal issues towards information security.

Course Code & Name: EC511OE: Principles of Electronic Communications (OPEN ELECTIVE –II)

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C324 [1]	Work on various types of modulations.

C324[2]	Should be able to use these communication modules in implementation.
C324[3]	Will have a basic understanding of various wireless and cellular, mobile and telephone communication systems.

Course Code & Name: CS611PE : Mobile Computing(Professional Elective- I)

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C325 [1]	Able to think and develop new mobile application.
C325[2]	Able to take any new technical issue related to this new paradigm and come up with a solution(s).
C325[3]	Able to develop new ad hoc network applications and/or algorithms/protocols.
C325[4]	Able to understand & develop any existing or new protocol related to mobile environment

Course Code & Name: CS604PC & Cryptography And Network Security Lab

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C326 [1]	Gain knowledge of client side scripting, validation of forms and AJAX programming
C326 [2]	Have understanding of server side scripting with PHP language
C326[3]	Have understanding of what is XML and how to parse and use XMLData with Java
C326 [4]	To introduce Server side programming with Java Servlets and JS

Course Code & Name: CS605PC & Web Technologies Lab

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C327 [1]	Use LAMP Stack for web applications

C327 [2]	Use Tomcat Server for Servlets and JSPs
C327[3]	Write simple applications with Technologies like HTML, Javascript, AJAX, PHP, Servlets and JSPs
C327 [4]	Connect to Database and get results
C327 [5]	Parse XML files using Java (DOM and SAX parsers)

Course Code & Name: EN606HS & Advanced English Communication Skills Lab

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C328 [1]	Acquire vocabulary and use it contextually
C328 [2]	Listen and speak effectively
C328[3]	Develop proficiency in academic reading and writing
C328[4]	Increase possibilities of job prospects
C328[5]	Communicate confidently in formal and informal contexts

IV YEAR CSE SEMESTER-I (REGULATION –R16)

ACADEMIC YEAR: 2019-2020

Course Code & Name: CS701PC & Data Mining

Upon completion of the course, students will be able to:

Course Name	Course outcomes
C411 [1]	Ability to perform the pre-processing of data and apply mining techniques on it.
C411 [2]	Ability to identify the association rules, classification and clusters in large data sets.
C411 [3]	Ability to solve real world problems in business and scientific information using data mining
C411 [4]	Ability to classify web pages, extracting knowledge from the web

Course Code & Name: CS702PC & Principles of Programming Languages

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C412[1]	Ability to express syntax and semantics in formal notation.
C412 [2]	Ability to apply suitable programming paradigm for the application.
C412 [3]	Ability to compare the features of various programming languages.
C412[4]	Able to understand the programming paradigms of modern programming languages.
C412 [5]	Able to understand the concepts of ADT and OOP.
C412 [6]	Ability to program in different language paradigms and evaluate their relative benefits.

Course Code & Name: CS721PE & PYTHON PROGRAMMING (P.E-II)

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C413[1]	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
C413 [2]	Demonstrate proficiency in handling Strings and File Systems.
C413 [3]	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
C413 [4]	Interpret the concepts of Object-Oriented Programming as used in Python.
C413 [5]	Implement exemplary applications related to Network Programming, Web Services and Databases in Python.

Course Code & Name: CS731PE & Graph Theory (P.E-III)

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C414 [1]	Know some important classes of graph theoretic problems;
C414 [2]	Be able to formulate and prove central theorems about trees, matching, connectivity, colouring and planar graphs;
C414 [3]	Be able to describe and apply some basic algorithms for graphs;

C414 [4]	Be able to use graph theory as a modelling tool.
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Course Code & Name: CS742PE & Cloud Computing (P.E-IV)

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C415 [1]	This course provides an insight into cloud computing
C415 [2]	Topics covered include- distributed system models, different cloud service models, service-oriented architectures, cloud programming and software environments, resource management.

Course Code & Name: CS703PC & Data Mining Lab

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C416 [1]	Ability to add mining algorithms as a component to the exiting tools
C416 [2]	Ability to apply mining techniques for realistic data.

Course Code & Name: CS751PC & Python Programming Lab

Upon the completion of the course, students will be able to:

Course Name	Course outcomes
C417 [1]	Student should be able to understand the basic concepts scripting and the contributions of scripting language
C417 [2]	Ability to explore python especially the object oriented concepts, and the built in objects of Python.
C417 [3]	Ability to create practical and contemporary applications such as TCP/IP network programming, Web applications, discrete event simulations

ACADEMIC YEAR: 2019-2020

Course Code & Name: EC831OE: Electronic Measuring Instruments (Open Elective – III)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C421 [1]	Identify the various electronic instruments based on their specifications for carrying out a particular task of measurement.
C421 [2]	Measure various physical parameters by appropriately selecting the transducers.
C421 [3]	Use various types of signal generators, signal analyzers for generating and analyzing various real-time signals.

Course Code & Name: CS853PE & Data Analytics (Professional Elective–V)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C422 [1]	Understand the impact of data analytics for business decisions and strategy
C422 [2]	Carry out data analysis/statistical analysis
C422 [3]	To carry out standard data visualization and formal inference procedures
C422 [4]	Design Data Architecture
C422 [5]	Understand various Data Sources

Course Code & Name: CS863PE: Computer Forensics (Professional Elective – VI)

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C423 [1]	Students will understand the usage of computers in forensic, and how to use various forensic tools for a wide variety of investigations.
C423 [2]	It gives an opportunity to students to continue their zeal in research in computer forensics

Course Code & Name: CS801PC MAJOR PROJECT

Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C424 [1]	Apply the relevant knowledge and skills, which are acquired to a given problem
C424 [2]	Independently analyze and discuss inquiries/problems and solve larger problems
C424 [3]	Evaluate, and critically assess others scientific results as survey
C424 [4]	Document and present the work with requirements on structure, format, and language usage.
C424 [5]	Make use of the technical and engineering knowledge continuously which meets the expected outcome.