

KNOWLEDGE INSTITUTE OF TECHNOLOGY, SALEM - 637 504

Approved by AICTE, Affiliated to Anna University, Accredited by NAACand NBA (B.E: Mech., ECE, EEE & CSE)

Kakapalayam(PO), Salem - 637 504

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List of COs for UG courses under Anna University Regulation 2017

| Department of Computer Science and Engineering | |
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| Semester | : I |
| Course Code & | Name : HS8151 & Communicative English |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C101.1 | To Speak clearly, confidently, comprehensibly, and communicate with one or many listeners using appropriate communicative strategies. |
| C101.2 | To Write cohesively, coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic. |
| C101.3 | To Listen /view and comprehend different spoken discourses/excerpts in different accents. |
| C101.4 | To learn the electronic media and adopt various learning materials used in the classroom. |
| C101.5 | To understand different rhetorical functions of technical English. |
| Semester | : I |
| Course Code & Name : MA8151 & Engineering Mathematics I | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C102.1 | Apply the mathematical knowledge of rules of differentiation to differentiate one variable function. |
| C102.2 | Apply differentiation to solve maxima and minima problems |
| C102.3 | Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts |
| C102.4 | Interpret integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables |
| C102.5 | Apply various techniques in solving differential equations |

| Semester | : I | |
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| Course Code & | Name : PH8151 & Engineering Physics | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C103.1 | Analyse the various behaviour of materials | |
| C103.2 | Classify the different types of lasers and optical fibres and its power losses | |
| C103.3 | Explain the different thermal properties of materials | |
| C103.4 | Illustrate the time dependent and time independent wave equations. | |
| C103.5 | Understand the structures and properties of crystals | |
| Semester | : I | |
| Course Code & | Course Code & Name : CY8151 & Engineering Chemistry | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C104.1 | To know about the water parameters, Requirements of Boiler feed water and different water treatment techniques. | |
| C104.2 | Understanding the basic concept of adsorption, Theories and its mechanism. | |
| C104.3 | To gain the knowledge of phase rule and the different eutectic mixture of suitable alloys. | |
| C104.4 | Acquiring the knowledge about the manufacture of solid, liquid and gaseous fuel to meet environmental sustainability. | |
| C104.5 | To explain the principle and generation of energy in battery, Nuclear reactor, Solar cells, Wind mill and fuel cell for Future | |
| Semester | : I | |
| Course Code & | Name : GE8151 & Problem Solving and Python Programming | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C105.1 | To explain the logical solutions of the problems through algorithm, flowchart and pseudo code | |

| C105.2 | To explain the syntax of basic constructs in python |
|---------------|---|
| C105.3 | To examine the working of control flow and functions to derive the solution |
| C105.4 | To examine the concepts of sequential data types(lists, Tuples, dictionaries) in python |
| C105.5 | To perform read/write date from/ to files using python |
| Semester | : I |
| Course Code & | Name : GE8152 & Engineering Graphics |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C106.1 | Illustrate various geometrical constructions used to construct and understand the importance of conical curves and orthographical projections in engineering applications. |
| C106.2 | Sketch multiple views from pictorial views of three dimensional objects to draw the basic views related to projections of Points, Lines and Planes. |
| C106.3 | Sketch orthographic projections of points, lines, planes and solids Students will be able to draw the projections of solids. |
| C106.4 | Illustrate the sectional views of the various solids Sectioned and develop the surface of geometrical objects. |
| C106.5 | Illustrate the lateral surfaces of the various sectioned solids Interpret Isometric and Perspective views of object. |
| Semester | : I |
| Course Code & | Name : GE8161 & Problem Solving and Python Programming Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C107.1 | Write, test, and debug simple Python programs |
| C107.2 | Implement Python programs with conditionals and loops |
| C107.3 | Develop Python programs step-wise by defining functions and calling them |
| C107.4 | Use Python lists, tuples, dictionaries for representing compound data |
| C107.5 | Read and write data from/to files in Python |

| Semester | : I |
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| Course Code & | Name : BS8161& Physics and Chemistry Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C108.1 | To determine the moment of inertia of the disc and rigidity modulus of the material by torsional pendulum |
| C108.2 | Ability to apply laser principles of optics to calculate laser parameters |
| C108.3 | To know the thickness of a thin wire by forming interference fringes using air wedge method |
| C108.4 | To determine amount of DO in the water content and analyse the pollutant level in the water |
| C108.5 | Acquiring the knowledge of qualitative analysis of chloride by argentometric method to control chloride ion pollution |
| Semester | : II |
| Course Code & | Name : HS8251& Technical English |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
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| COs No. | Course Outcome |
| COs No. C109.1 | Course Outcome To Read articles of a general kind in newspapers and magazines |
| COs No. C109.1 C109.2 | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English |
| COs No. C109.1 C109.2 C109.3 | Course OutcomeTo Read articles of a general kind in newspapers and magazinesTo participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in EnglishTo comprehend different written and spoken discourses in different accents. |
| COs No. C109.1 C109.2 C109.3 C109.4 | Course OutcomeTo Read articles of a general kind in newspapers and magazinesTo participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in EnglishTo comprehend different written and spoken discourses in different accents.Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 | Course OutcomeTo Read articles of a general kind in newspapers and magazinesTo participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in EnglishTo comprehend different written and spoken discourses in different accents.Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes.To understand different rhetorical functions of technical English. |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 Semester | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English To comprehend different written and spoken discourses in different accents. Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. To understand different rhetorical functions of technical English. : II |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 Semester Course Code & | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English To comprehend different written and spoken discourses in different accents. Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. To understand different rhetorical functions of technical English. : II Name : MA8251 & Engineering Mathematics – II |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 Semester Course Code & Year of Study | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English To comprehend different written and spoken discourses in different accents. Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. To understand different rhetorical functions of technical English. : II Name : MA8251 & Engineering Mathematics – II : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 Semester Course Code & Year of Study COs No. | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English To comprehend different written and spoken discourses in different accents. Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. To understand different rhetorical functions of technical English. : II Name : MA8251 & Engineering Mathematics – II : 2018-2019, 2019-2020, 2020-2021, 2021-2022 Course Outcome |
| COs No. C109.1 C109.2 C109.3 C109.4 C109.5 Semester Course Code & Year of Study COs No. C110.1 | Course Outcome To Read articles of a general kind in newspapers and magazines To participate effectively in informal conversation and to introduce themselves and their friends and to express opinions in English To comprehend different written and spoken discourses in different accents. Able to write personal letters and send e-mails in English and to speak reasonable English without grammatical mistakes. To understand different rhetorical functions of technical English. : II Name : MA8251 & Engineering Mathematics – II : 2018-2019, 2019-2020, 2020-2021, 2021-2022 Course Outcome Diagonalizable symmetric matrices and similar matrices using Eigen values and Eigen vectors. |

| C110.3 | Apply the concept of Cauchy - Riemann equations. |
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| C110.4 | Extend the concept of contour integrals in evaluating Real integrals. |
| C110.5 | Discuss Laplace Transform methods to solve initial value problems for constant coefficient linear ODEs |
| Semester | : II |
| Course Code & | Name : PH8252 & Physics for Information Science |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C111.1 | It gives better idea about energy levels and conductivity. |
| C111.2 | It provides basic knowledge about semiconductors. |
| C111.3 | Have basic knowledge about magnetic materials. |
| C111.4 | It gives knowledge about optical material and LED. |
| C111.5 | Have basic and depth knowledge about Nano material. |
| Semester | : II |
| Course Code & | Name BE8255 & Basic Electrical and Electronics and Measurement Engineering |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C112.1 | Analyse the electric circuits and discuss the essentials of electric circuit |
| C112.2 | Classify the types of rotating machines, speed control methods, and discuss the operation of transformers |
| C112.3 | Analyse the operation of domestic loads and discuss the Renewable energy sources. |
| C112.4 | Illustrate the operation of analog, digital devices and analyse its applications |
| C112.5 | Interpret the metering for electric circuits, transducers and analyse the importance of measurements |

| Semester | : II | |
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| Course Code & | Name BE8255 & Basic Electrical and Electronics and Measurement Engineering | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C112.1 | Analyse the electric circuits and discuss the essentials of electric circuit | |
| C112.2 | Classify the types of rotating machines, speed control methods, and discuss the operation of transformers | |
| C112.3 | Analyse the operation of domestic loads and discuss the Renewable energy sources. | |
| C112.4 | Illustrate the operation of analog, digital devices and analyse its applications | |
| C112.5 | Interpret the metering for electric circuits, transducers and analyse the importance of measurements | |
| Semester | : II | |
| Course Code & | Course Code & Name : GE8291 & Environmental Science and Engineering | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C113.1 | To study the nature, facts about environment and the interrelationship between living organism and environment. | |
| C113.2 | To finding and implementing scientific, technological, economic and political solutions to environmental pollutions | |
| C113.3 | To study the integrated themes of biodiversity, natural resources and waste management. | |
| C113.4 | To study the dynamic processes and understand the features of the earths interior and surface. | |
| C113.5 | To aware about population growth, family welfare, human health and value education | |
| Semester | : II | |
| Course Code & | Name : CS8251 & Programming in C | |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 | |
| COs No. | Course Outcome | |
| C114.1 | Develop simple applications in C using basic constructs | |

| C114.2 | Design and implement applications using arrays and strings |
|---------------|--|
| C114.3 | Develop and implement applications in C using functions and pointers |
| C114.4 | Develop applications in C using structures |
| C114.5 | Design applications using sequential and random access file processing |
| Semester | : II |
| Course Code & | Name : GE8261 & Engineering Practices Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C115.1 | Students can fabricate carpentry components and pipe connections including plumbing works |
| C115.2 | Students can use welding equipment's to join the structures |
| C115.3 | Students can Carry out the basic machining operations |
| C115.4 | Ability to Make the models using sheet metal works |
| C115.5 | Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings |
| Semester | : II |
| Course Code & | Name : CS8261 & C Programming Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C116.1 | Develop programs in C using basic constructs |
| C116.2 | Develop programs in C using arrays |
| C116.3 | Develop applications in C using strings, pointers, functions |
| C116.4 | Develop applications in C using structures |
| C116.5 | Develop applications in C using file processing |

| Semester | : III |
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| Course Code & | Name : MA8351 & Discrete Mathematics |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C201.1 | Understand the concept of set theory, relations, mathematical logics, reasoning and study the validity of the arguments |
| C201.2 | Analyze the relationship between combination and permutation |
| C201.3 | Identify the different kind of graphs with examples |
| C201.4 | Analyze the types of group theory with proofs |
| C201.5 | Specify the concept of Lattices and Boolean algebra |
| Semester | : III |
| Course Code & | Name : CS8351 & Digital Principals and System Design |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| | Course outcome |
| C202.1 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates |
| C202.1 C202.2 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL |
| C202.1 C202.2 C202.3 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL |
| C202.1 C202.2 C202.3 C202.4 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits |
| C202.1 C202.2 C202.3 C202.4 C202.5 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices |
| C202.1 C202.2 C202.3 C202.4 C202.5 Semester | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices : III |
| C202.1 C202.2 C202.3 C202.4 C202.5 Semester Course Code & | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices : III Name : CS8391 & Data Structures |
| C202.1 C202.2 C202.3 C202.4 C202.5 Semester Course Code & Year of Study | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices : III Name : CS8391 & Data Structures : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| C202.1 C202.2 C202.3 C202.4 C202.4 C202.5 Semester Course Code & Year of Study COs No. | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices : III Name : CS8391 & Data Structures : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| C202.1 C202.2 C202.3 C202.4 C202.4 C202.5 Semester Course Code & Year of Study COs No. C203.1 | Understand the different methods used for simplification of boolean expressions and the concept of logic gates Design and implement combinational logic circuits using logic gates and HDL Design and analyze the sequential circuits using flipflops and HDL Design and analyze an asynchronous sequential circuits and Hazard free circuits Understand the operation of memory devices and implement the combinational logic circuits using programmable logic devices : III Name : CS8391 & Data Structures : 2018-2019, 2019-2020, 2020-2021, 2021-2022 Course Outcome Explain the fundamental data structures concepts and ADT |

| C203.3 | Discuss about Tree operations and applications |
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| C203.4 | Discuss about Graphs operations and applications |
| C203.5 | Demonstrate the sorting, searching and hashing techniques in data structures |
| Semester | : III |
| Course Code & | Name : CS8392 & Object Oriented Programming |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C204.1 | Develop java programs using OOP principles |
| C204.2 | To Develop java programs with the concepts inheritance and interfaces |
| C204.3 | Build java applications using exception handling and I/O Streams |
| C204.4 | Use the concept of multithreading and generics classes in Java |
| C204.5 | Apply the AWT and Swing concepts to build GUI application |
| Semester | : III |
| Course Code & | Name : EC8395 & Communication Engineering |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C205.1 | Understand the concept of modulation and classify various analog modulation techniques |
| C205.2 | Relate the concept of sampling and quantization to various pulse modulation |
| C205.3 | Interpret the concept of digital modulation techniques |
| C205.4 | Apply the concept of source and error coding schemes |
| C205.5 | Discuss the various types of spread spectrum and multiple access technique |
| Semester | : III |
| Course Code & | Name : CS8381 & Data Structures Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |

| COs No. | Course Outcome |
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| C206.1 | Apply good programming design methods for program development. |
| C206.2 | Develop recursive programs using trees and graphs. |
| C206.3 | Design and Implement C programs for manipulating stacks, queues, linked lists, trees, and graphs |
| C206.4 | Apply the different data structures to problem solutions. |
| C206.5 | Implement and analyze various searching and sorting algorithms |
| Semester | : III |
| Course Code & | Name : CS8383 & Object Oriented Programming Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C207.1 | To understand and apply the concepts of classes, Packages, interface & inheritance |
| C207.2 | To develop java program for practicing exception handling of files |
| C207.3 | To develop application using generic programming and event handling |
| C207.4 | To build software development skills in java |
| C207.5 | To develop a java program for real world application |
| Semester | : III |
| Course Code & | Name : CS8382 & Digital Systems Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C208.1 | Implement simplified combinational circuits using basic logic gates |
| C208.2 | Implement combinational circuits using MSI devices |
| C208.3 | Implement sequential circuits like registers and counters |
| C208.4 | Simulate combinational circuits using HDL |
| C208.5 | Simulate sequential circuits using HDL |

| Semester | : III |
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| Course Code & | Name : HS8381 & Interpersonal Skills/Listening & Speaking |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C209.1 | To Enhance Understanding of listening to the study of interpersonal and personal relationship. |
| C209.2 | To participate in Group discussion . |
| C209.3 | To Analyse the given topic and develop conversation. |
| C209.4 | To Make effective presentation in a group. |
| C209.5 | To Apply contextual strategies for presentation and business interactive communication. |
| Semester | : IV |
| Course Code & | Name : MA8402 & Probability and Queuing Theory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C210.1 | Discuss the concepts of the fundamental Probability Theory, Baye's theorem |
| C210.2 | Summarize the concepts of covariance, correlation and regression, central limit theorem |
| C210.3 | Explain the concept of Markov chain in terms of a transition probability matrix and transition diagram. |
| C210.4 | Extend birth and death processes which evolve with respect to time in a probabilistic manner |
| C210.5 | Interpret the Queuing models. |
| Semester | : IV |
| Course Code & | Name : CS8491 & Computer Architecture |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C211.1 | Understand the basic structure of computers, operations and instructions |

| C211.2 | Design arithmetic and logic unit |
|---------------|--|
| C211.3 | Understand pipelined execution and design control unit |
| C211.4 | Understand parallel processing architectures |
| C211.5 | Understand the various memory systems and I/O communication |
| Semester | : IV |
| Course Code & | Name : CS8492 & Database Management Systems |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C212.1 | Summarize fundamentals of Database design |
| C212.2 | Map ER model to relational model and normalization criteria to perform database design effectively |
| C212.3 | Apply concurrency control and recovery mechanism for practical problems |
| C212.4 | Compare and contrast various indexing strategies in different database system |
| C212.5 | Classify advanced database concepts |
| Semester | : IV |
| Course Code & | Name : CS8451 & Design and Analysis of Algorithm |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C213.1 | Understand the fundamental concepts of algorithmic problem solving and analyze the time and space complexities of algorithms. |
| C213.2 | Apply the brute force and divide and conquer strategies to design algorithms for computational problems. |
| C213.3 | Apply the dynamic programming and greedy techniques to design algorithms for computational problems. |
| C213.4 | Understand how scientific problems can be solved using iterative method. |
| C213.5 | Apply the approximation algorithms and design of Branch and Bound and Back Tracking techniques for the given real time problems. |

| Semester | : IV |
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| Course Code & | Name : CS8493 & Operating systems |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C214.1 | Explain the overall view of the computer system and operating system |
| C214.2 | Identify various scheduling algorithm and deadlock prevention and avoidance algorithm |
| C214.3 | Compare and contrast various memory management schemes and file system functionalities |
| C214.4 | Discuss the performance of the various page replacement algorithms and interpret the file system implementation, sharing and protection mechanisms |
| C214.5 | Demonstrate administrative tasks on Linux servers and to be familiar with the basics of Mobile OS. |
| Semester | : IV |
| Course Code & | Name : CS8494 & Software Engineering |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
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| COs No. | Course Outcome |
| COs No. C215.1 | Course Outcome To compare and classify various SDLC models. |
| COs No. C215.1 C215.2 | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. |
| COs No. C215.1 C215.2 C215.3 | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. To apply systematic procedure for software design and deployment. |
| COs No. C215.1 C215.2 C215.3 C215.4 | Course OutcomeTo compare and classify various SDLC models.To explain the Concepts of requirements engineering and Analysis Modeling.To apply systematic procedure for software design and deployment.To compare and contrast the various testing and maintenance. |
| COs No. C215.1 C215.2 C215.3 C215.4 C215.5 | Course OutcomeTo compare and classify various SDLC models.To explain the Concepts of requirements engineering and Analysis Modeling.To apply systematic procedure for software design and deployment.To compare and contrast the various testing and maintenance.To evaluate and manage project schedule, project cost and effort required. |
| COs No. C215.1 C215.2 C215.3 C215.4 C215.5 Semester | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. To apply systematic procedure for software design and deployment. To compare and contrast the various testing and maintenance. To evaluate and manage project schedule, project cost and effort required. : IV |
| COs No. C215.1 C215.2 C215.2 C215.3 C215.4 C215.5 Semester Course Code & | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. To apply systematic procedure for software design and deployment. To compare and contrast the various testing and maintenance. To evaluate and manage project schedule, project cost and effort required. : IV Name : CS8481 & Database Management Systems Laboratory |
| COs No. C215.1 C215.2 C215.2 C215.3 C215.4 C215.5 Semester Course Code & Year of Study | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. To apply systematic procedure for software design and deployment. To compare and contrast the various testing and maintenance. To evaluate and manage project schedule, project cost and effort required. : IV Name : CS8481 & Database Management Systems Laboratory : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. C215.1 C215.2 C215.2 C215.3 C215.4 C215.5 Semester Course Code & Year of Study COs No. | Course Outcome To compare and classify various SDLC models. To explain the Concepts of requirements engineering and Analysis Modeling. To apply systematic procedure for software design and deployment. To compare and contrast the various testing and maintenance. To evaluate and manage project schedule, project cost and effort required. : IV Name : CS8481 & Database Management Systems Laboratory : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |

| C216.2 | Design applications to test Nested and Join Queries |
|---------------|---|
| C216.3 | Implement simple applications that use Views |
| C216.4 | Implement applications that require a Front-end Tool |
| C216.5 | Analyze the use of Tables, Views, Functions and Procedures |
| Semester | : IV |
| Course Code & | Name : CS8461 & Operating systems Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C217.1 | Illustrate the various CPU scheduling algorithms and Implement deadlock avoidance and detection algorithms. |
| C217.2 | Implement semaphore concepts and Create processes and implement IPC |
| C217.3 | Analyze the performance of the various page replacement algorithms and Implement file organization and file allocation strategies. |
| C217.4 | Exhibit ethical principles in engineering practices and Perform task as an individual and / or team member to manage the task in time |
| C217.5 | Express the Engineering activities with effective presentation report and Interpret the findings with appropriate technological / research citation. |
| Semester | : IV |
| Course Code & | Name : HS8461 & Advanced Reading and Writing |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C218.1 | Able to write different types of essays |
| C218.2 | To draft job application and resume effectively |
| C218.3 | To read and evaluate the given text critically |
| C218.4 | To Make effective report on various occasion. |
| C218.5 | To Apply contextual strategies for presentation and business communication. |

| Semester | : V |
|---------------|---|
| Course Code & | Name : MA8551& Algebra and Number Theory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C301.1 | Able to write different types of essays |
| C301.2 | To draft job application and resume effectively |
| C301.3 | To read and evaluate the given text critically |
| C301.4 | To Make effective report on various occasion. |
| C301.5 | To Apply contextual strategies for presentation and business communication. |
| Semester | : V |
| Course Code & | Name : CS8591 & Computer Networks |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C302.1 | Understand the basic layers and its functions in computer networks. |
| C302.2 | Evaluate the performance of a network. |
| C302.3 | Analyze and design routing algorithms. |
| C302.4 | Design protocols for various functions in the network. |
| C302.5 | Understand the working of various application layer protocols. |
| Semester | : V |
| Course Code & | Name : EC8691 & Microprocessors and Microcontrollers |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C303.1 | Understand and execute programs based on 8086 |
| | |

| C303.3 | Design and interface IO devices |
|---------------|--|
| C303.4 | Design and implement 8051 based systems |
| C303.5 | Understand the evolution of microprocessor |
| Semester | : V |
| Course Code & | Name : CS8501 & Theory of Computation |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C304.1 | Students will be able to define the mathematical model behind theoretical computer science |
| C304.2 | Students will be able to differentiate and construct the automata(Finite Automata/PDA/Turing Machine) for the specified problem |
| C304.3 | Students will be able to relate several forms of automata to real word issues |
| C304.4 | Students will be able to select and create appropriate automata for various theoretical computer science requirements. |
| C304.5 | Students will be able to recognise various computational problems and their levels of difficulty. |
| Semester | : V |
| Course Code & | Name : CS8592 & Object Oriented Analysis and Design |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C305.1 | To express software design with UML diagrams. |
| C305.2 | To design software applications using OO Concepts. |
| C305.3 | To identify various scenarios based on software requirements. |
| C305.4 | To transform UML based software design into pattern based design using design patterns. |
| C305.5 | To understand the various testing methodologies for OO Software. |
| Semester | : V |
| Course Code & | Name : OCE552 & Geographic Information System |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |

| COs No. | Course Outcome |
|---------------|--|
| C306.1 | Explain the fundamental concepts about Geographic Information System |
| C306.2 | Summarize the different types of data models |
| C306.3 | Explain about data input and topology |
| C306.4 | Illustrate the different data analysis tools for data quality and standards |
| C306.5 | Demonstrate the different application areas of Geographic Information System with case studies |
| Semester | : V |
| Course Code & | Name : EC8681 & Microprocessors and Microcontrollers Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C307.1 | Develop ALP for fixed and Floating Point and Arithmetic operations using 8086 Microprocessor. |
| C307.2 | Make use of different I/O interfacing with 8086 microprocessor |
| C307.3 | Construct different waveforms using 8086 microprocessor |
| C307.4 | Model serial and parallel interfacing of 8086 microprocessor |
| C307.5 | Develop assembly language programs for various applications using 8051 microcontroller |
| Semester | : V |
| Course Code & | Name : CS8582 & Object Oriented Analysis and Design Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C308.1 | Perform OOAD analysis and design for a given problem specification. |
| C308.2 | Identify and map basic software requirements in UML mapping. |
| C308.3 | Improve the software quality using design patterns and to explain the rationale behind applying specific design patterns. |
| C308.4 | Test the compliance of the software with the SRS. |

| C308.5 | To improve the design by applying appropriate design patterns. |
|---------------|---|
| Semester | : V |
| Course Code & | Name : CS8581 & Networks Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C309.1 | Implement various protocol using TCP and UDP |
| C309.2 | Compare the performance of different transport layer protocols |
| C309.3 | Use simulation tools to analyze the performance of various network protocols |
| C309.4 | Analyze various routing algorithms |
| C309.5 | Implement error correction codes |
| Semester | : VI |
| Course Code & | Name : CS8651 & Internet Programming |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C310.1 | Construct a basic website using HTML and Cascading Style Sheets |
| C310.2 | Design and implement dynamic web page with validation using JavaScript objects |
| C310.3 | Develop Server side programs using Servlets and JSP |
| C310.4 | Design and implement simple web page in PHP, and to present data in XML format |
| C310.5 | Design AJAX and web services to develop interactive web applications |
| Semester | : VI |
| Course Code & | Name : CS8691 & Artificial Intelligence |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C311.1 | Use appropriate search algorithms for any AI problem |

| C311.2 | Represent a problem using first order and predicate logic |
|---------------|---|
| C311.3 | Provide the apt agent strategy to solve a given problem |
| C311.4 | Design software agents to solve a problem |
| C311.5 | Design applications for NLP that use Artificial Intelligence |
| Semester | : VI |
| Course Code & | Name : CS8601 & Mobile Computing |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C312.1 | Summarize the basics of mobile telecommunication systems |
| C312.2 | Illustrate the generations of telecommunication systems in wireless networks |
| C312.3 | Apply the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network |
| C312.4 | Explain the functionality of Transport and Application layers |
| C312.5 | Develop a mobile application using android/blackberry/ios/Windows SDK |
| Semester | : VI |
| Course Code & | Name : CS8602 & Compiler Design |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C313.1 | Students will able to explain the different phases of compilation, use regular expression, finite automata to represent tokens and design lexical analyzer |
| C313.2 | Students will able to compare top-down and bottom-up parsers and create an appropriate parser that produces the parse tree of the input |
| C313.3 | Student will able to produce intermediate code for high level statements |
| C313.4 | Students will able to understand the issues in code generation and design a simple code generator |
| C313.5 | Students will able to apply the optimization techniques for the generated code and produce the optimized code for high level statements |
| Semester | : VI |
| Course Code & | Name : CS8603 & Distributed Systems |

| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
|---------------|---|
| COs No. | Course Outcome |
| C314.1 | Illuminate the foundations and issues of distributed systems |
| C314.2 | Recognize the various synchronization issues and global state for distributed systems |
| C314.3 | Apprehend the Mutual Exclusion and Deadlock detection algorithms in distributed systems |
| C314.4 | Define the agreement protocols and fault tolerance mechanisms in distributed systems |
| C314.5 | Describe the features of peer-to-peer and distributed shared memory systems |
| Semester | : VI |
| Course Code & | Name : IT8076 & Software Testing |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C315.1 | Demonstrate the test process and identify Testers' role and construct defect repository by classifying the defects |
| C315.2 | Design Test cases for various problems and select testing strategies and methods for solving problems |
| C315.3 | Apply various levels of testing for a software project |
| C315.4 | Develop and validate a test plan and generate test report |
| C315.5 | Identify the skills needed for automation and use of automatic testing tools |
| Semester | : VI |
| Course Code & | Name : CS8661 & Internet Programming Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C316.1 | Develop a basic website using HTML and Cascading Style Sheets |
| C316.2 | Build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms. |
| C316.3 | Explain servlets with database connectivity for server side programming |
| C316.4 | Build a simple web page in PHP with XML data format |

| C316.5 | Construct web applications using AJAX and web services. |
|---------------|---|
| Semester | : VI |
| Course Code & | Name : CS8662 & Mobile Application Development Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C317.1 | Build a native application using GUI components and Mobile application development frame work. |
| C317.2 | Develop an application using basic graphical primitives and databases. |
| C317.3 | Construct an application using multi threading and RSS feed. |
| C317.4 | Make use of location identification using GPS in an application. |
| C317.5 | Analyze and discover own mobile app for simple needs. |
| Semester | : VI |
| Course Code & | Name : CS8611 & Mini Project |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C318.1 | Choose problems with technical importance and societal contribution. |
| C318.2 | Identify and survey the relevant literature for getting exposed to related solutions. |
| C318.3 | Build project plans with feasible requirements. |
| C318.4 | Analyze, design and develop adaptable and reusable solutions. |
| C318.5 | Implement and test solutions to trace against the user requirements. |
| Semester | : VI |
| Course Code & | Name : HS8581 & Professional Communication |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |

| C319.1 | Understand to make effective presentation |
|---------------|--|
| C319.2 | Apply to draft job application and resume effectively |
| C319.3 | Apply to participate in GD effectively |
| C319.4 | Understand to attend job interview with confidence |
| C319.5 | Remember to develop adequate soft skills required for the work place. |
| Semester | : VII |
| Course Code & | Name : MG8591 & Principles of Management |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C401.1 | Discuss and communicate the management evolution, the principles, various approaches and how it will affect future managers |
| C401.2 | Explain how organizations adapt to an uncertain environment and recognize various planning tools managers use to strategize and make decisions considering both internal and external environmental factors |
| C401.3 | Identify the process of delegating authority, different types of organization, its structure, charts and explain about the various human resource activities like staffing, recruitment, selection, training and performance management |
| C401.4 | Explain the numerous motivational and leadership theories and describe the role of effective communication in an organization |
| C401.5 | Illustrate the several control techniques used to overcome the productivity problems and the use of computers and IT in management control |
| Semester | : VII |
| Course Code & | Name : CS8792 & Cryptography and Network Security |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C402.1 | Understand the fundamentals of network security, security architecture, threats and vulnerabilities |
| C402.2 | Apply the different cryptographic operations of symmetric cryptographic algorithms |
| C402.3 | Apply the different cryptographic operations of public key cryptography |
| C402.4 | Apply the various Authentication schemes to stimulate different applications |
| C402.5 | Understand various Security practices and System security standards |

| Semester | : VII |
|--|---|
| Course Code & | Name : CS8791 & Cloud Computing |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C403.1 | Summarize the main concepts, enabling technologies that help in developing cloud, strengths, and limitations of cloud computing. |
| C403.2 | Implement the NIST cloud computing architecture to solve architecture design challenges |
| C403.3 | Relate the core issues of cloud computing like resource management and security. |
| C403.4 | Apply and use knowledge of current cloud technologies for Installation |
| C403.5 | Illustrate and choose the appropriate technologies, algorithms, and approaches for implementation and use of the cloud. |
| Semester | : VII |
| Course Code & | Name : OCH752 & Energy Technology |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| | |
| COs No. | Course Outcome |
| COs No. C404.1 | Course Outcome Identify the various energy sources and its representable forms |
| COs No. C404.1 C404.2 | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods |
| COs No. C404.1 C404.2 C404.3 | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods Understand the Non-conventional energy sources and its power generation methods |
| COs No. C404.1 C404.2 C404.3 C404.4 | Course OutcomeIdentify the various energy sources and its representable formsUnderstand the conventional energy sources and its power generation methodsUnderstand the Non-conventional energy sources and its power generation methodsExplain biomass sources and develop design parameters for equipment to be used in Chemical process industries |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 | Course OutcomeIdentify the various energy sources and its representable formsUnderstand the conventional energy sources and its power generation methodsUnderstand the Non-conventional energy sources and its power generation methodsExplain biomass sources and develop design parameters for equipment to be used in Chemical process industriesUnderstand energy conservation in process industries |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 Semester | Course OutcomeIdentify the various energy sources and its representable formsUnderstand the conventional energy sources and its power generation methodsUnderstand the Non-conventional energy sources and its power generation methodsExplain biomass sources and develop design parameters for equipment to be used in Chemical process industriesUnderstand energy conservation in process industries:VII |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 Semester Course Code & | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods Understand the Non-conventional energy sources and its power generation methods Explain biomass sources and develop design parameters for equipment to be used in Chemical process industries Understand energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries Image: Source of the energy conservation in process industries |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 Semester Course Code & Year of Study | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods Understand the Non-conventional energy sources and its power generation methods Explain biomass sources and develop design parameters for equipment to be used in Chemical process industries Understand energy conservation in process industries Image: Source in the image: Source in the project Management in the project |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 Semester Course Code & Year of Study COs No. | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods Understand the Non-conventional energy sources and its power generation methods Explain biomass sources and develop design parameters for equipment to be used in Chemical process industries Understand energy conservation in process industries Image: Source in the image in the im |
| COs No. C404.1 C404.2 C404.3 C404.4 C404.5 Semester Course Code & Year of Study COs No. C405.1 | Course Outcome Identify the various energy sources and its representable forms Understand the conventional energy sources and its power generation methods Understand the Non-conventional energy sources and its power generation methods Explain biomass sources and develop design parameters for equipment to be used in Chemical process industries Understand energy conservation in process industries Understand energy conservation in process industries Same : VII Name : 2018-2019, 2019-2020, 2020-2021, 2021-2022 Course Outcome To determine the importance of evaluation and planning a project. |

| C405.3 | To determine the various techniques of project scheduling. |
|---------------|---|
| C405.4 | To estimate the overall duration of the project by analyzing the risk involved in it. |
| C405.5 | To explain the various strategies of managing and controlling the project. |
| Semester | : VII |
| Course Code & | Name : CS8079 & Human Computer Interaction |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C406.1 | Design effective dialog for HCI |
| C406.2 | Design effective HCI for individuals and persons with disabilities |
| C406.3 | Assess the importance of user feedback |
| C406.4 | Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Web sites |
| C406.5 | Develop meaningful user interface. |
| Semester | : VII |
| Course Code & | Name : IT8761 & Security Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C407.1 | Develop code for Classical Encryption Techniques to solve the problems. |
| C407.2 | Build cryptosystems by applying symmetric and public key encryption algorithms. |
| C407.3 | Construct code for authentication algorithms. |
| C407.4 | Develop a signature scheme using Digital Signature Standard. |
| C407.5 | Demonstrate the network security system using open source tools. |
| Semester | : VII |
| Course Code & | Name : CS8711 & Cloud Computing Laboratory |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |

| COs No. | Course Outcome |
|---------------|--|
| C408.1 | Demonstrate various virtualization tools such as Virtual Box, VMware workstation. |
| C408.2 | Implement a web application in a PaaS environment. |
| C408.3 | Develop a new schedulers and learn how to simulate in cloud environment. |
| C408.4 | Install and use a generic cloud environment that can be used as a private cloud. |
| C408.5 | Manipulate large data sets in a parallel environment. |
| Semester | : VIII |
| Course Code & | Name : Professional Ethics in Engineering |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C409.1 | Understand the core values that shape an engineer's ethical behaviour and raised knowledge of professional ethics and human values. |
| C409.2 | Understand the principles of profession, professional ethics, numerous moral issues, and ethical theories' applications |
| C409.3 | Understand various social issues, industrial standards, code of ethics and role of professional ethics in engineering field |
| C409.4 | Creating awareness of an engineer's responsibilities for safety and risk benefit analysis, professional rights, and responsibilities |
| C409.5 | Acquire knowledge of various engineering roles in different global issues and be able to apply ethical principles to issues arising in their professional lives |
| Semester | : VIII |
| Course Code & | Name : Informational Retrieval Techniques |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C410.1 | Summarize the concepts of IR system, search interfaces and practical issues of Information Retrieval |
| C410.2 | Interpret an open source search engine framework and explore its capabilities |
| C410.3 | Apply appropriate method of classification or clustering |
| C410.4 | Implement innovative features in a search engine |
| C410.5 | Demonstrate a recommender system for information filtering systems |

| Semester | : VIII |
|---------------|---|
| Course Code & | Name : Project Work |
| Year of Study | : 2018-2019, 2019-2020, 2020-2021, 2021-2022 |
| COs No. | Course Outcome |
| C411.1 | Identify technically and economically feasible problems of social relevance |
| C411.2 | Plan and build the project team with assigned responsibilities |
| C411.3 | Identify and survey the relevant literature for getting exposed to related solutions |
| C411.4 | Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools |
| C411.5 | Implement and test solutions to trace against the user requirements and Deploy and support the solutions for better manageability of the solutions |