



New Prince Shri Bhavani

College of Engineering and Technology



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Department of Computer Science and Engineering

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C101

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: HS8151-COMMUNICATIVE ENGLISH

CO	STATEMENT
C101.1	Apply various Question types and Parts of Speech
C101.2	Write Paragraphs and Short Narrative Descriptions
C101.3	Write Coherent Paragraph with wide range of Vocabulary
C101.4	Write Personal Letter /Email without Grammatical Errors
C101.5	Write Short Essays and Dialogues

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C102

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: MA8151-ENGINEERING MATHEMATICS 1

CO	STATEMENT
C102.1	Analyze the types of functions and differentiation rules for real life Engineering problems.
C102.2	Apply the concepts of partial derivatives and total derivatives in Taylor's series, Jacobians and maxima and minima of functions
C102.3	Apply the rule of integration in various functions
C102.4	Evaluate the double and triple integrals for finding area and volume of different plane surfaces
C102.5	Solve the higher order differential equations of different types for engineering applications.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C103

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: PH8151-ENGINEERING PHYSICS

CO	STATEMENT
C103.1	Summarize the basic properties of matter and its application
C103.2	Explain the concept of waves, LASERs and Fiber opt
C103.3	Describe the thermal properties of materials and device application
C103.4	Apply the concepts of Physics in Quantum theory and its application in electron microscopes
C103.5	Explain the types of crystal structures and crystal growth techniques

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C104

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: CY8151 ENGINEERING CHEMISTRY

CO	STATEMENT
C104.1	Describe the type of factors present in boilers and the method used to treat hard water
C104.2	Explain the factors affecting the rate of adsorption and catalytic activity
C104.3	Apply the concept of phase rule, its various phase diagrams and able to predict the low melting alloy
C104.4	Summarize the various solid, liquid and gaseous fuels manufacturing methods and basic reactions involved in combustion reaction
C104.5	Describe the types of batteries their reactions and the significance of storage renewable energy resource



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C105

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: GE8151-PROBLEM SOLVING AND PYTHON PROGRAMMING

CO	STATEMENT
C105.1	Solve simple computational problems.
C105.2	Write python programs using statements and expressions.
C105.3	Apply control flow and function concepts in user defined problems.
C105.4	Apply python data structure – list, tuples, and dictionaries for compound data.
C105.5	Describe file handling in python for solving problems.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C106

YEAR OF STUDY: 2018-19

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: GE8152-ENGINEERING GRAPHICS

CO	STATEMENT
C106.1	Draw the various curves used in Engineering practices.
C106.2	Draw the Projections of straight lines which are inclined to both horizontal and vertical planes
C106.3	Draw the Projection of solids inclined to one plane and parallel to other plane.
C106.4	Draw the projection of sectioned solids and draw the development of lateral surfaces of a solid
C106.5	Draw the isometric and perspective projection of simple solids



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C107

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: GE8161-PROBLEM SOLVING AND PYTHON PROGRAMMING LAB

CO	STATEMENT
C107.1	Write a python program for simple computational problems.
C107.2	Write a python program with conditionals and loops.
C107.3	Write a python program stepwise by defining functions and calling them.
C107.4	Write a python program using lists, tuples, and dictionaries for representing compound data.
C107.5	Write a python program for read and write data from to files in python

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C108

YEAR OF STUDY: 2019-20

SEMESTER: I

SUBJECT CODE & SUBJECT NAME: BS8161-PHYSICS & CHEMISTRY LABORATORY

CO	STATEMENT
C108.1	Calculate the young's and rigidity modules of various objects by uniform, non-uniform bending and torsional oscillation and cantilever method.
C108.2	Calculate the wavelength of laser, particle size and acceptance angle, groove width of optical fiber and velocity of sound in liquids using grating and ultrasonic interferometer.
C108.3	Calculate the bandgap of a semiconductor by post office box, thickness of wire by air wedge and thermal conductivity of a bad conductor by Lee's disc method.
C108.4	Determination of total, temporary and permanent hardness, DO content, Chloride, alkalinity, sodium and potassium in water.
C108.5	Estimation of iron content using potentiometer, strength of acid and mixture of acids using conductivity meter, strength of acid by pH meter, molecular weight and polyvinyl alcohol using Ostwald viscometer.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C109

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: HS8251-TECHNICAL ENGLISH

CO	STATEMENT
C109.1	Write Checklist & Recommendations technically.
C109.2	Write letters & Emails and Interpretation of Charts & Graphs.
C109.3	Describe any process both in general and technical way.
C109.4	Write the job application with Resume & Cover Letter and different kinds of Essays.
C109.5	Write the Minutes & Reports of event.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C110

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: MA8251-ENGINEERING MATHEMATICS II

CO	STATEMENT
C110.1	Apply Cayley- Hamilton theorem and orthogonal transformation for different process of matrices.
C110.2	Solve line, surface and volume integrals using various theorems.
C110.3	Analyze the properties and mappings for constructing analytic functions.
C110.4	Evaluate the complex and contour integral using Cauchy's theorem.
C110.5	Solve differential equations of different order using the concepts of Laplace transforms.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C111

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: PH8252-PHYSICS FOR INFORMATION SCIENCE

CO	STATEMENT
C111.1	Explain the significance of free electron theories and energy band structures.
C111.2	Apply the basics of semiconductor physics and its applications in various devices
C111.3	Comprehend the different magnetic properties of materials and their applications in data storage
C111.4	Summarize the functioning of optical materials for opto-electronic device
C111.5	Describe the basics of quantum structures and their applications in nano electronics.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C115

YEAR OF STUDY: 2019-2020

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: GE8291 ENVIRONMENTAL SCIENCE AND ENGINEERING

CO	STATEMENT
C115.1	Describe about the environment, ecosystem and the importance of biodiversity.
C115.2	Summarize environmental pollution and importance of public participation in environmental protection.
C115.3	Create awareness on the natural resources and its benefits.
C115.4	Analyze the impact of engineering solution in environmental problem, social issues and need for sustainable development.
C115.5	Analyze the standard of living and realize the serious environmental disasters.



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COURSE OUTCOMES

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COURSE NAME: C116

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: CS8251-PROGRAMMING IN C

CO	STATEMENT
C116.1	Describe the basic construct and syntax of C programming.
C116.2	Write Programs using arrays and strings.
C116.3	Write Programs using functions and pointers.
C116.4	Apply the concept of union and structure for user defined problems.
C116.5	Describe the file handling in C.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C118

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: BE8255-BASIC ELECTRICAL ELECTRONICS AND MEASUREMENT ENGINEERING

CO	STATEMENT
C118.1	Describe linear data structures using array and linked list
C118.2	Explain Stack, Queue ADT's operations and its applications
C118.3	Apply non-linear data structures tree and its application.
C118.4	Apply various algorithms in graph
C118.5	Analyze searching, sorting and hashing techniques in data structures



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C127

YEAR OF STUDY: 2018-19

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: GE8261-ENGINEERING PRACTICES LABORATORY

CO	STATEMENT
C127.1	Summarize the Plumbing and carpentry of Residential and Industrial buildings.
C127.2	Design of Different joints using Welding work.
C127.3	Demonstrate of foundry operations and fitting models.
C127.4	Design of Residential house wiring soldering practice of component.
C127.5	Estimate the measurement of electrical quantities of energy resistance, ripple factor for HWR and IWR.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C128

YEAR OF STUDY: 2019-20

SEMESTER: II

SUBJECT CODE & SUBJECT NAME: CS8261-C PROGRAMMING LAB

CO	STATEMENT
C128.1	Write Programs using basic constructs.
C128.2	Write Programs using arrays and strings.
C128.3	Write Programs using function and recursive function.
C128.4	Write Programs using union and structure for user defined problems.
C128.5	Write Programs using file handling methodologies in C.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C201

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: MA8351-DISCRETE MATHEMATICS

CO	STATEMENT
C201.1	Apply the concepts of logic theory to construct the truth tables, mathematical arguments and different methods of proof.
C201.2	Apply the basic counting techniques to solve the combinatorial problems.
C201.3	Analyze the definition and different types of graph.
C201.4	Analyze the notations and properties of algebraic structures such as graph, rings, and fields.
C201.5	Analyze the algebraic properties of lattices and Boolean algebra.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C202

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8351 DIGITAL PRINCIPLES AND SYSTEM

CO	STATEMENT
C202.1	Apply Boolean algebra and simplification procedures relevant to digital logic.
C202.2	Design various combinational digital circuits using logic gates
C202.3	Design synchronous sequential circuits.
C202.4	Design asynchronous sequential circuits.
C202.5	Design programmable devices using logic gates.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 203

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8391 DATA STRUCTURES

CO	STATEMENT
C203.1	Describe linear data structures using array and linked list
C203.2	Explain Stack, Queue ADT's operations and its applications
C203.3	Apply non-linear data structures tree and its application.
C203.4	Apply various algorithms in graph
C203.5	Analyze searching, sorting and hashing techniques in data structures

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 204

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8392-OBJECT ORIENTED PROGRAMMING

CO	STATEMENT
C204.1	Summarize the basics and concepts of OBJECT ORIENTED PROGRAMMING
C204.2	Explain the various classifications of inheritance, Strings and interfaces
C204.3	Write JAVA programs with exceptions and streams
C204.4	Analyze multithread and generic classes in JAVA programs
C204.5	Apply graphics and event handlers in JAVA program



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 205

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: EC8395 COMMUNICATION ENGINEERING

CO	STATEMENT
C205.1	Explain about the analog modulation techniques.
C205.2	Comprehend the pulse modulation techniques in communication.
C205.3	Summarize digital communication techniques.
C205.4	Apply source and error control coding schemes in communication.
C205.5	Comprehend the concepts of spread spectrum and multiple access techniques.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 206

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8381 DATA STRUCTURES LABORATORY

CO	STATEMENT
C206.1	Apply Stack, Queue and List ADT's operations for solving a given problem
C206.2	Solve various operations like traversal, insertion, deletion on tree data structure.
C206.3	Solve various applications using graph algorithms.
C206.4	Analyze various kinds of searching and sorting techniques
C206.5	Apply appropriate hashing techniques for the given problem



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C207

YEAR OF STUDY:2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8383 OBJECT ORIENTED PROGRAMMING LAB

CO	STATEMENT
C207.1	Write Java applications using classes and interfaces.
C207.2	Write Java programs to perform string operations using array list and abstract classes.
C207.3	Write Java programs using exception handling ,file and multithreading
C207.4	Write Java programs using generic functions and event driven program paradigm.
C207.5	Create application using Java.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 208

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: CS8382-DIGITAL SYSTEMS LABORATORY

CO	STATEMENT
C208.1	Design of combinational circuits using basic gates for arbitrary functions, code converters.
C208.2	Design of half/full adder and half/full subtractor.
C208.3	Design of combinational circuits using MSI devices.
C208.4	Design of shift registers and counters.
C208.5	Design of combinational and sequential circuits using HDL.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 209

YEAR OF STUDY: 2020-21

SEMESTER: III

SUBJECT CODE & SUBJECT NAME: HS8381-INTERPERSONAL SKILLS/LISTENING
& SPEAKING

CO	STATEMENT
C209.1	Comprehend information through listening to give appropriate response
C209.2	Apply speaking techniques with correct pronunciation on stress and intonation.
C209.3	Apply informal talk accurately and fluently using lexical chunks.
C209.4	Analyze group discussion in a professional context.
C209.5	Analyze formal and informal talk through presentations in the form of business and academic contexts.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 210

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: MA8402-PROBABILITY & QUEUEING THEORY

CO	STATEMENT
C210.1	Apply the concept of probability and standard distributions in real life problems.
C210.2	Analyze the concepts of two dimensional random variables.
C210.3	Apply the concepts of random processor in engineering discipline.
C210.4	Analyze the various queue models.
C210.5	Apply the concepts of series queues and open Jackson networks in real life problems.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C211

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8491 COMPUTER ARCHITECTURE

CO	STATEMENT
C211.1	Summarize the basic structure of computers ,instructions, and MIPS addressing
C211.2	Apply arithmetic and Logic unit
C211.3	Describe pipelined execution and various hazards in processor and control unit
C211.4	Comprehend different parallel processing Architectures and Multicore processors
C211.5	Describe various Memory technologies and Input and Output devices

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C212

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8492 DATABASE MANAGEMENT SYSTEMS

CO	STATEMENT
C212.1	Describe the fundamental concepts of relational database and SQL
C212.2	Apply Relational model from ER model to perform database design effectively and optimize queries using normalization criteria.
C212.3	Summarize the properties of transactions and concurrency control mechanisms.
C212.4	Apply the various indexing strategies in different database systems, various storage and optimization techniques.
C212.5	Explain the advanced databases like Distributed Databases, Object-based Databases and XML Databases



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C213

YEAR OF STUDY: 2019-2020

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8451 DESIGN AND ANALYSIS OF ALGORITHMS

CO	STATEMENT
C213.1	Describe the fundamental concept of problem solving and analysis technique of an algorithm.
C213.2	Design an algorithm for various computing problems.
C213.3	Analyze the efficiency of alternative algorithmic solutions for the same problems.
C213.4	Analyze the different algorithm design techniques for given problem.
C213.5	Summarize the limitations of algorithmic power to improve efficiency.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C214

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8493 OPERATING SYSTEM

CO	STATEMENT
C214.1	Comprehend the basic concepts and functions of Operating Systems.
C214.2	Apply various CPU scheduling algorithms, synchronization primitives and deadlock, handling methods.
C214.3	Apply the various memory management schemes and page replacement algorithms.
C214.4	Apply the various disk scheduling algorithms, file system implementation, protection and security mechanisms.
C214.5	Describe the basics of Linux system and Mobile OS like iOS and Android.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C215

YEAR OF STUDY:2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8494 SOFTWARE ENGINEERING

CO	STATEMENT
C215.1	Summarize the Software process and Agile Development
C215.2	Describe the Requirement process and their specifications,
C215.3	Apply systematic procedure for software design.
C215.4	Apply systematic procedure for software Testing, Deployment and Maintenance.
C215.5	Describe the Project Planning and Management process.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 216

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8481 DATABASE MANAGEMENT SYSTEMS

LABORATORY

CO	STATEMENT
C216.1	Apply typical data definitions and manipulation commands, implementation of nested and join queries
C216.2	Write simple application using views, sequences, and synonyms.
C216.3	Write database programming using implicit and explicit cursors.
C216.4	Analyze Tables, views, functions, procedures, triggers and exception handling.
C216.5	Write an applications that require front-end tools



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C217

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: CS8461 OPERATING SYSTEMS LABORATORY

CO	STATEMENT
C217.1	Write the Linux commands, shell programs, implement system calls and simulate Linux commands, implementation of processes and IPC
C217.2	Write C programs to implement various scheduling algorithms
C217.3	Write C program using Bankers Algorithm for Deadlock detection and Avoidance.
C217.4	Write C program for the implementation of memory allocation, memory management and page replacement algorithms.
C217.5	Write C program to implement various file organization and allocation strategies

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C218

YEAR OF STUDY: 2020-21

SEMESTER: IV

SUBJECT CODE & SUBJECT NAME: HS8461 ADVANCED READING AND WRITING

CO	STATEMENT
C218.1	Write a descriptive paragraph in different types.
C218.2	Analyse reasons and supporting ideas through paragraph writing
C218.3	Write different types of essays.
C218.4	Write email, job application with resume, project and proposals.
C218.5	Apply critical thinking in various professional contexts.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 301

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: MA8551-ALGEBRA & NUMBER THEORY

CO	STATEMENT
C301.1	Analyse the notation and properties of algebraic structure such as rings, groups and fields.
C301.2	Analyse the polynomial rings and irreducible polynomial over finite fields.
C301.3	Apply the division algorithm and fundamental theorem on prime numbers.
C301.4	Apply the consequence relation in number theory to solve the real life problems.
C301.5	Analyse the concept of multiplicative functions and classical theorems.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C302

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: CS8591 COMPUTER NETWORKS

CO	STATEMENT
C302.1	Comprehend the protocol layers and physical level communication
C302.2	Explain the Concepts of data link layer and media access protocols
C302.3	Apply various components of network to measure its performance.
C302.4	Apply various protocols of transport layer to check the transmission performance.
C302.5	Comprehend the protocols of application layer.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 303

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: EC8691-MICROPROCESSOR AND MICROCONTROLLER

CO	STATEMENT
C303.1	Explain the internal architecture of 8086 microprocessor.
C303.2	Explain the system bus structure of 8086 microprocessor.
C303.3	Apply the memory and input/output interfacing concepts to 8086 microprocessor based systems.
C303.4	Comprehend the architecture of 8051 microcontroller.
C303.5	Apply the interfacing concepts to 8051 microcontroller based systems.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 304

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: CS8501 THEORY OF COMPUTATION

CO	STATEMENT
C304.1	Explain the concept related to formal proof and finite automata
C304.2	Apply regular expression and finite automata to generate and manipulate regular language
C304.3	Describe the parsing techniques, ambiguity resolution and capabilities of pushdown automata
C304.4	Analyze context free grammar characteristics and typical usage then look at Turing machine behaviour
C304.5	Analyze RE language and undecidable problems understand the significance of post correspondence problem and explore complexity of P and NP



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C305

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: CS8592 OBJECT ORIENTED ANALYSIS AND DESIGN

CO	STATEMENT
C305.1	Summarize the fundamentals of object oriented model with UML diagram
C305.2	Analyze various software requirements to design static UML
C305.3	Evaluate UML dynamic and implementation diagrams
C305.4	Apply UML based software design to pattern based design
C305.5	Analyze the various testing methodologies for object oriented

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C313

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: OCE552 GEOGRAPHIC INFORMATION SYSTEM

CO	STATEMENT
C313.1	Summarize the fundamentals of GIS
C313.2	Explain the information categories of data models
C313.3	Describe the kinds of data input and topologies
C313.4	Analyze the GIS data by using data analytical tools
C313.5	Design the application and case studies of GIS



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 331

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: EC8681MICROPROCESSORS AND MICROCONTROLLERS LABORATORY

CO	STATEMENT
C331.1	Write ALP to perform arithmetic and logical operations with 8086 processor.
C331.2	Analyze the interfacing of input/output with 8086 processor.
C331.3	Write ALP to perform Arithmetic and logical operations with 8051.
C331.4	Analyze the interfacing of input/output with 8051 microcontroller.
C331.5	Write a program to perform arithmetic and logical operations using MASM.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C332

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: CS8582 OBJECT ORIENTED ANALYSIS AND DESIGN LAB

CO	STATEMENT
C332.1	Explain Object Oriented analysis and design concepts for a given problem specification
C332.2	Describe the basic software requirements in UML mapping
C332.3	Analyze the interactions between objects and represent them using UML, sequence and collaboration diagram for the given scenario
C332.4	Evaluate software quality using design patterns
C332.5	Evaluate the modified system and test it for various scenario



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C333

YEAR OF STUDY: 2021-22

SEMESTER: V

SUBJECT CODE & SUBJECT NAME: CS8581 NETWORK LABORATORY

CO	STATEMENT
C333.1	Write C program using various protocols such as TCP and UDP
C333.2	Design application using TCP socket and DNS Simulation by UDP socket.
C333.3	Write C program using protocols ARP and Network simulator for congestion control algorithm
C333.4	Write C program to measure performance of TCP/UDP and DVR algorithm.
C333.5	Write C program to measure performance of Routing protocols and error correction code

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C334

YEAR OF STUDY: 2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8651 INTERNET PROGRAMMING

CO	STATEMENT
C334.1	Describe the concept of world wide web and the requirement of effective web design
C334.2	Design Dynamic web page with validation using JavaScript and Event handling mechanism
C334.3	Write Server Side program using servlet and JSP
C334.4	Create simple web pages in PHP and XML
C334.5	Design interactive web application using AJAX and Web services



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 335

YEAR OF STUDY: 2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8691 ARTIFICIAL INTELLIGENCE

CO	STATEMENT
C335.1	Summarize aspects of AI its definition, future prospects and fundamental concept related to intelligent
C335.2	Apply problem solving approaches to typical AI problem
C335.3	Comprehend first order predicate logic as a formal language for knowledge representation and reasoning
C335.4	Describe different negotiation strategies and technique used in multi agent system
C335.5	Apply the learned concepts and techniques to real world scenario

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 336

YEAR OF STUDY:2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8601 MOBILE COMPUTING

CO	STATEMENT
C336.1	Comprehend the basic concept of Mobile Computing.
C336.2	Explain the basics of Mobile Telecommunication Systems.
C336.3	Summarize the Mobile Network Layer Protocols and Adhoc networks.
C336.4	Describe the basics of Mobile Transport and Applications.
C336.5	Summarize the various Mobile OS and its Application.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 337

YEAR OF STUDY: 2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8602 COMPILER DESIGN

CO	STATEMENT
C337.1	Describe the techniques in Lexical, Syntax, Semantic, Intermediate code generation and Code optimization of a compiler.
C337.2	Design a lexical analyzer for a sample language and for Error Handling Recovering in Syntax Analyze and YACC.
C337.3	Summarize the Syntax Directed Definitions, Syntax tree, Three Address codes types and declarations.
C337.4	Design a simple Code generator with Storage organization, Stack Allocation. Heap Management and issues in Code generator.
C337.5	Apply the Code Optimization techniques with the basic blocks, DAG and Peep Hole Optimization.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 338

YEAR OF STUDY: 2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8603 DISTRIBUTED SYSTEMS

CO	STATEMENT
C338.1	Summarize the foundations of distributed systems, design issues and challenges and the need for global state in distributed systems.
C338.2	Explain the issues related to clock Synchronization, various message ordering, group communication and snapshots recording algorithms.
C338.3	Describe the distributed mutual exclusion and deadlock detection algorithms.
C338.4	Explain the significance of agreement, fault tolerance and recovery protocols in Distributed Systems.
C338.5	Summarize the characteristics of peer-to-peer and distributed shared memory Systems.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C340

YEAR OF STUDY: 2021-22

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: IT8076 SOFTWARE TESTING

CO	STATEMENT
C340.1	Summarize the basic concepts of software testing principles and Defects
C340.2	Comprehend various test case design strategies
C340.3	Analyze different levels of Testing
C340.4	Describe the test plan and test management techniques
C340.5	Summarize test automation technique

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C346

YEAR OF STUDY:2021-22

SEMESTER:VI

SUBJECT CODE & SUBJECT NAME: CS8661 INTERNET PROGRAMMING LABORATORY

CO	STATEMENT
C346.1	Create web page using HTML and Style Sheets
C346.2	Design dynamic web pages with validation using Java script
C346.3	Design dynamic webpages using server side programs (JSP, Java Servlet)
C346.4	Create web applications using XML and PHP
C346.5	Design web application using AJAX



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C347

YEAR OF STUDY: 2020-2021

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: CS8662-MOBILE APPLICATION DEVELOPMENT LAB

CO	STATEMENT
C347.1	Create Mobile Application using GUI, Event Listeners, Layouts and Graphical Primitives.
C347 .2	Create Mobile Application using Database and notification.
C347.3	Create Mobile Application using multithreading, GPS and Internal/External Storage.
C347.4	Create Mobile Application using SMS, RSS feed and Email.
C347.5	Create own Mobile Application for Simple needs.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C349

YEAR OF STUDY: 2020-2021

SEMESTER: VI

SUBJECT CODE & SUBJECT NAME: HS8581 PROFESSIONAL COMMUNICATION

CO	STATEMENT
C349.1	Analyse skills to be a professional in all context.
C349.2	Describe oral presentation efficiently.
C349.3	Analyse group discussion in a professional context.
C349.4	Analyse personal interview skills and different types of interview.
C349.5	Analyse time and stress management with respect to career.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C401

YEAR OF STUDY: 2022-23 **SEMESTER:** VII

SUBJECT CODE & SUBJECT NAME: MG8591 PRINCIPLES OF MANAGEMENT

CO	STATEMENT
C401.1	Explain the basics of management and organizations.
C401.2	Describe the concept of planning and setting objectives with their types and process.
C401.3	Comprehend the organization types and structure, Human resource management and departmentalization.
C401.4	Summarize the concept of directing with motivational and leadership theories, process of communication and IT.
C401.5	Describe the basics of controlling process & IT management control.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 402

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: CS8792- CRYPTOGRAPHY AND NETWORK SECURITY

CO	STATEMENT
C402.1	Summarize the fundamentals of networks security, security Architecture, threats and vulnerabilities.
C402.2	Apply the different cryptographic operations of DES , SDES , AES and RC4 symmetric cryptographic algorithms
C402.3	Apply the different cryptographic operations by using Chinese Remainder Theorem, Eulers totient and Fermats theorem for RSA algorithm and Key distributions in public key cryptography
C402.4	Apply the various Authentication schemes MAC , HASH , HMAC , CMAC , SHA and Digital Signature to simulate different applications
C402.5	Describe the various Security practices and Stds of Email, IP, PGP , S/MIME and Firewalls



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C403

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: CS8791 CLOUD COMPUTING

CO	STATEMENT
C403.1	Describe the basic concept of Cloud Computing.
C403.2	Comprehend the Cloud Existing Technology.
C403.3	Summarize the various Cloud Architecture.
C403.4	Comprehend the cloud Resource Management and Security.
C403.5	Describe Cloud advanced technologies.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C415

YEAR OF STUDY: 2022-23 **SEMESTER:** VII

SUBJECT CODE & SUBJECT NAME: OBM752 HOSPITAL MANAGEMENT

CO	STATEMENT
C415.1	Explain the principles of hospital administration.
C415.2	Describe the importance of human resource management.
C415.3	Explain various requirement and training session in hospital.
C415.4	Comprehend the various relative supportive services.
C415.5	Describe the safety procedure followed in hospitals.



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REGULATION 2017

COURSE NAME: C431

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: CS8082-MACHINE LEARNING TECHNIQUES

CO	STATEMENT
C431.1	Explain the basics of learning problems with hypothesis and version spaces
C431.2	Apply the concept of neural networks and Genetic Algorithm for the given problems
C431.3	Apply the Bayesian concepts to machine learning problems
C431.4	Apply appropriate machine learning algorithms for instance based learning problems
C431.5	Summarize the concepts of advanced machine learning algorithms such as rule based learning ,explanation based learning and reinforcement learning

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C437

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: CS8083 MULTICORE ARCHITECTURE AND PROGRAMMING

CO	STATEMENT
C437.1	Summarize the concepts of multi-core processors and their architecture
C437.2	Describe the challenges and concepts in parallel program
C437.3	Comprehend the concepts of shared memory programming
C437.4	Describe the concepts of distributed memory programming
C437.5	Summarize the case studies of parallel program



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 445

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: CS 8711 CLOUD COMPUTING LAB

CO	STATEMENT
C445.1	Write a 'C' program by installing C compiler in Virtual Machine.
C445.2	Create Web Application and launch using Google App Engine.
C445.3	Write a program using Scheduling Algorithm in CloudSim.
C445.4	Write a Program to transfer files from one to another Virtual Machine.
C445.5	Create an Application using Hadoop Single Mode Cluster.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: 446

YEAR OF STUDY: 2022-23

SEMESTER: VII

SUBJECT CODE & SUBJECT NAME: IT8761 SECURITY LABORATORY

CO	STATEMENT
C446.1	Write encryption and decryption programs using substitution and transposition Techniques
C446.2	Apply AES and DES algorithm for key generation and encryption.
C446.3	Write programs for authentication algorithms.
C446.4	Write programs for signature scheme using digital signature standard.
C446.5	Create network security system using open source tools.



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COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C453

YEAR OF STUDY:2022-23

SEMESTER: VIII

SUBJECT CODE & SUBJECT NAME: GE8076 PROFESSIONAL ETHICS IN ENGINEERING

CO	STATEMENT
C453.1	Summarize the values a human need to follow in life.
C453.2	Describe the concept of Ethics in Engineering.
C453.3	Comprehend the role of Engineers as social Experimenters.
C453.4	Summarize the responsibilities, right of engineers to access safety and risk.
C453.5	Explain the ethical issues globally.

COURSE OUTCOMES

REGULATION 2017

COURSE NAME: C454

YEAR OF STUDY: 2022-23

SEMESTER: VIII

SUBJECT CODE & SUBJECT NAME: CS8080 INFORMATION RETRIEVAL TECHNIQUES

CO	STATEMENT
C454.1	Summarize the concepts of Information Retrieval.
C454.2	Explain Information Retrieval Models and Evaluation methods
C454.3	Apply appropriate Algorithm for text classification and clustering
C454.4	Analyse an open source search engine framework and explore its capabilities
C454.5	Describe different techniques of recommender system