

DEPARTMENT OF INFORMATION TECHNOLOGY

SE : III SEM (CBCS)

Subject: Applied Mathematics III (ITC301)

- CO1. Obtain the Laplace Transform and Inverse Laplace transform using standard results and properties. Solve ODE using LT.
- CO2. Perform calculation with operators Gradient, Divergence and Curl.
- CO3. Find the harmonic conjugate, orthogonal trajectory of an analytic function.
- CO4. Expand the periodic function using Fourier series and complex form of Fourier series, understand the concept of half
- CO5. Find the Z transform of standard sequences.
- CO6. Apply the procedure and methods to solve technical problems.

Subject: Logic Design (ITC302)

- CO1. Understand the concepts of various components to design stable analog circuits.
- CO2. Understand different number system and codes and perform arithmetic operations.
- CO3. Minimize the Boolean expression using Boolean algebra and design it using logic gates
- CO4. Analyze and design combinational circuit.
- CO5. Design and develop sequential circuits
- CO6. Examine real world problems into digital logic formulations using VHDL.

Subject: Data structures and Analysis (ITC303)

- CO1. Select appropriate data structures as applied to specified problem definition.
- CO2. Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
- CO3. Students will be able to implement Linear and Non-Linear data structures. 4. Implement appropriate sorting/searching technique for given problem..
- CO4. Implement appropriate sorting/searching technique for given problem.
- CO5. Design advance data structure using Non-Linear data structure.
- CO6. Determine and analyze the complexity of given Algorithms.

Subject: Database Management System (ITC304)

- CO1. Explain the features of database management systems and Relational database.
- CO2. Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra.
- CO3. Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.
- CO4. Retrieve any type of information from a data base by formulating complex queries in SQL.
- CO5. Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.
- CO6. Build indexing mechanisms for efficient retrieval of information from a database.

Subject: Principle of Communications (ITC305)

CO1.Differentiate analog and digital communication systems.

CO2.Identify different types of noise occurred, its minimization and able to apply Fourier analysis in frequency & time domain to quantify bandwidth requirement of variety of analog and digital communication systems.

CO3Design generation & detection AM, DSB, SSB, FM transmitter and receiver.

CO4.Apply sampling theorem to quantify the fundamental relationship between channel bandwidth, digital symbol rate and bit rate

CO5.Explain different types of line coding techniques for generation and detection of signals.

CO6.Describe Electromagnetic Radiation and propagation of waves.

Subject: Digital Design (ITL301)

LO1.Minimize the Boolean algebra and design it using logic gate.

LO2.Analyse and design combinational circuit

LO3.Realise given function using combinational circuit.

LO4.Design and develop sequential circuits

LO5.Implement digital systems using programmable logic devices.

LO6.Translate real world problems into digital logic formulations using VHDL.

Subject: Data Structures and Analysis (ITL302)

LO1. Select appropriate data structures as applied to specified problem definition.

LO2. Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.

LO3. Students will be able to implement Linear and Non-Linear data structures.

LO4. Implement appropriate sorting/searching technique for given problem.

LO5. Design advance data structure using Non-Linear data structure.

LO6. Determine and analyze the complexity of given Algorithms.

Subject: SQL Lab (ITL303)

LO1.Explain the features of database management systems and Relational database.

LO2.To give a good formal foundation on the relational model of data and usage of Relational Algebra.

LO3.To introduce the concepts of basic SQL as a universal Database language.

LO4.To enhance knowledge to advanced SQL topics like embedded SQL, procedures connectivity through JDBC.

LO5.To enable the design of an efficient database using normalization concepts.

LO6.To enable students to be create indexes for databases for efficient retrieval.

Subject: Java Programming Lab (ITL304)

LO1.Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity.

LO2.Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem

LO3.Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.

LO4.Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.

LO5.Identify and describe common abstract user interface components to design GUI in Java using Applet & AWT along with response to events

LO6.Identify, Design & develop complex Graphical user interfaces using principal Java Swing classes based on MVC architecture

SE : IV SEM (CBCS)

Subject: Applied Mathematics IV (ITC401)

- CO1. Apply the Number Theory to different applications using theorem.
- CO2. Apply probability and understand PDF.
- CO3. Understand sampling theory and correlation.
- CO4. Apply the graphs and trees concepts to different applications
- CO5. Understand group's theory.
- CO6. Understand the Lattice theory.

Subject: Computer Network (ITC402)

- CO1. Describe the functions of each layer in OSI and TCP/IP model.
- CO2. Explain the functions of Application layer and Presentation layer paradigms and Protocols.
- CO3. Describe the Session layer design issues and Transport layer services
- CO4. Classify the routing protocols and analyze how to assign the IP addresses for the given network.
- CO5. Describe the functions of data link layer and explain the protocols.
- CO6. Explain the types of transmission media with real time applications.

Subject: Operating System (ITC403)

- CO1. Describe the important computer system resources and the role of operating system in their management policies and algorithms.
- CO2. Understand the process management policies and scheduling of processes by CPU
- CO3. Evaluate the requirement for process synchronization and coordination handled by operating system
- CO4. Describe and analyze the memory management and its allocation policies
- CO5. Identify use and evaluate the storage management policies with respect to different storage management technologies
- CO6. Identify the need to create the special purpose operating system

Subject: Computer Organization and Architecture (ITC404)

- CO1. Describe basic organization of computer and the architecture of 8086 microprocessor.
- CO2. Implement assembly language program for given task for 8086 microprocessor.
- CO3. Demonstrate control unit operations and conceptualize instruction level parallelism.
- CO4. Demonstrate and perform computer arithmetic operations on integer and real numbers.
- CO5. Categorize memory organization and explain the function of each element of a memory hierarchy.
- CO6. Identify and compare different methods for computer I/O mechanisms.

Subject: Automata Theory (ITC405)

CO1.Understand, design, construct, analyze and interpret Regular languages, Expression and Grammars.

CO2.Design different types of Finite Automata and Machines as Acceptor, Verifier and Translator.

CO3. Understand, design, analyze and interpret Context Free languages, Expression and Grammars.

CO4.Design different types of Push down Automata as Simple Parser.

CO5.Design different types of Turing Machines as Acceptor, Verifier, Translator and Basic computing machine

CO6. Compare, understand and analyze different languages, grammars, Automata and Machines and appreciate their power and convert Automata to Programs and Functions

Subject: Networking Lab (ITL401)

LO1.Execute and evaluate network administration commands and demonstrate their use in different network scenarios

LO2.Demonstrate the installation and configuration of network simulator.

LO3.Demonstrate and measure different network scenarios and their performance behavior.

LO4.Analyze the contents the packet contents of different protocols

LO5.Implement the socket programming for client server architecture

LO6.Design and setup a organization network using packet tracer

Subject: Unix Lab (ITL402)

LO1. Identify the basic Unix general purpose commands.

LO2. Apply and change the ownership and file permissions using advance Unix commands.

LO3. Use the awk, grep, perl scripts.

LO4.Implement shell scripts and sed.

LO5. Apply basic of administrative task.

LO6.Apply networking Unix commands.

Subject: Microprocessor programming lab (ITL403)

LO1. Apply the fundamentals of assembly level programming of microprocessors.

LO2.Build a program on a microprocessor using arithmetic & logical instruction set of 8086.

LO3.Develop the assembly level programming using 8086 loop instruction set.

LO4. Write programs based on string and procedure for 8086 microprocessor.

LO5. Analyze abstract problems and apply a combination of hardware and software to address the problem

LO6. Make use of standard test and measurement equipment to evaluate digital interfaces.

Subject: Python Lab (ITL404)

LO1. Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python

LO2. Express different Decision Making statements and Functions

LO3. Interpret Object oriented programming in Python

LO4. Understand and summarize different File handling operations

LO5. Explain how to design GUI Applications in Python and evaluate different database operations

LO6. Design and develop Client Server network applications using Python

DEPARTMENT OF INFORMATION TECHNOLOGY

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CO2. Perform calculation with operators Gradient, Divergence and Curl.

CO3. Find the harmonic conjugate, orthogonal trajectory of an analytic function

CO4. Expand the periodic function using Fourier series and complex form of Fourier series, understand the concept of half range sine and cosine series.

CO5. Find the Z transform of standard sequences

CO6. Apply the procedure and methods to solve technical problems.

Subject: Data structures and algorithms (ITC302)

CO1. Choose appropriate data structure as applied to specified problem definition and analysis the algorithm.

CO2. Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures and algorithm analysis.

CO3. Apply concepts learned in various domains like DBMS, compiler construction etc.

CO4. Use linear and non-linear data structures like stacks, queues, linked list etc.

CO5. Design advance data structure using Non-Linear data structure.

Subject: Object Oriented Programming Methodolgy (ITC303)

CO1. Determine and analyze the complexity of given Algorithms.

CO2. Solve computational problems using basic constructs like if-else, Control structures, array, strings.

CO3. Understand how to model real world scenario using class diagram.

CO4. Exhibit communication between two objects using sequence diagram.

Subject: Analog and Digital Circuits (ITC304)

CO1. Implement relationships between classes.

CO2. Demonstrate various collection classes.

CO3. Demonstrate programs on exceptions, multithreading and applets.

CO4. The student gains clear understanding of various electronic components

CO5. The student understands the design of stable analog circuits and circuit simulation

Subject: Database Management system (ITC305)

CO1. Emphasis is on design of combinational and sequential circuits.

CO2. Student should be able to do binary and hexadecimal calculations and conversions.

CO3. Translate real world problems into digital logic formulations.

CO4. Awareness in Design of digital systems like VHDL and concepts of Microprocessor and Microcontroller systems.

CO5. Use SQL- the standard language of relational database

Subject: Principles of Analog and Digital Communication (ITC306)

CO1. Analyze the functional dependencies

CO2. analyze the design of the database

CO3. Analyze the concept of Transaction and Query Processing

CO4. Create the database using relational model

CO5. Student will be able to calculate and evaluate the results by performing experiment

CO6. Student will be able to study FM receiver and analyze the output

CO7. Student will be able to study communication theorems and evaluate the results.

CO8. Students will be able to study the design of pulse modulation systems,multiplex

CO9. Students will be able to use modern tool like MATLAB.

CO10. Students will be able to study the digital modulation techniques and data modulation techniques.

SE : IV SEM (CBGS)

Subject: Applied Mathematics IV (ITC401)

- CO1. Find Eigen values and eigenvectors of a matrix to diagonalize the Square matrix
- CO2. Evaluate integral using Cauchys theorem, residue theorem.
- CO3. Use Binomial, Poisson and Normal distribution to solve statistical problems.
- CO4. To analyze the problem by using Large and Small Sampling theory.
- CO5. Find the regression lines using method of least squares and correlation coefficients.
- CO6. Optimize the solution of LPP and NLPP

Subject: Computer Network (ITC402)

- CO1. Student will be able to apply and analyze basic mathematics and engineering fundamentals to solve problems
- CO2. Student will be able to explain principles of LAN design such as topology and configuration depending on types of users accessing the network and network industry
- CO3. Student will be able to describe the error detection and correction in datalink layer, design of Routing Protocols, addressing, congestion algorithms in different layers.
- CO4. Students will be able to use modern tools and apply concepts learned and create a network for the windows and linux operating systems.
- CO5. Students will be able to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- CO6. Students will be able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions as team.

Subject: Computer Organization & Architecture (ITC403)

- CO1. To conceptualize the basics of organizational and architectural issues of a digital
- CO2. To solve the integer and floating point computer arithmetic
- CO3. To analyze performance issues in processor and memory design of a digital computer.
- CO4. To study various data transfer techniques in digital computer.
- CO5. To analyze processor performance improvement using instruction level parallelism
- CO6. Identify the need to create the special purpose operating system

Subject: Automata Theory (ITC404)

CO1. Student should be able to Design different types of machines.

CO2. Student should be able to Compare different types of languages and machines

CO3. Student should be able to Use the pumping lemma and closure properties to prove that some problems cannot be solved

CO4. Student should Understand Power and Limitations of theoretical models of Computation.

CO5. Student should be able to Match constraints of a language to power of machines.

CO6. Student should be able to apply different machines in parsing and other applications

Subject: Web Programming (ITC405)

CO1. Creation of web site considering both client- and server-side programming.

CO2. Knowledge of tools and techniques to create web site.

CO3. Understand basics of web development and web architecture

CO4. Design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions

CO5. Design documentation, make effective presentations and give and receive clear instructions.

CO6. Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering

Subject: Information Theory and coding (ITC406)

CO1.To understand true meaning of information and theory and are able to solve engineering problems.

CO2. Students will be able to understand concept of compression.

CO3. Students will be a ble to explain the meaning of error control and security

CO4. Students will be able to apply knowledge of mathematics in cryptography.

CO5. Students will be able to use techniques, skills necessary for compression.

CO6. Students will be able to implement an application on real life dataset as group activity.

Department of Information Technology
TE : V SEM (CBGS)

Subject: Computer Graphics and Virtual Reality (ITC501)

- CO1 Identify and demonstrate display primitives: point, line, circle and curves.**
- CO2 Demonstrate clip portion that are not of immediate interest.**
- CO3 Represent two dimensional objects and projection.**
- CO4 Represent three-dimensional objects and projection.**
- CO5 Illustrate the fundamentals of animations and virtual reality.**
- CO6 Illustrate the various technologies and modeling techniques used in Virtual Reality.**

Subject: Operating system (ITC502)

- CO1 Student will learn important computer system resources and their management policies, algorithms used by operating systems.**
- CO2 Student will understand what makes a computer system function and the primary PC components.**
- CO3 Student will understand the working of an OS as a manager of various resources.**
- CO4 Student will implement some of the functions of OS such as scheduling policies, page**

Subject: Microcontroller & Embedded Systems (ITC503)

- CO1 Explain the concepts and basic structure of embedded systems.**
- CO2 Describe the architecture of 8051 microcontroller and ARM7 processor**
- CO3 Demonstrate the fundamentals of Real time operating system**
- CO4 Program microcontroller and microprocessor in assembly language and embedded C**
- CO5 Analysing various case studies of embedded application and identify various design issues.**
- CO6 Design sustainable embedded system for a given purpose with collaborative efforts**

Subject: Advanced Database Management Systems(ITC504)

- CO1 Design and develop conceptual embedded system.**
- CO2 Student should be able to Construct complex queries using SQL to retrieve and manipulate information in databases**
- CO3 Student should be able to design and implement full-fledged real life applications integrated with database systems**
Student should Clearly understand how databases are actually stored and accessed;How transaction ACID properties are
- CO4 maintained and how a database recovers from failures**
- CO5 Student should Apply security controls to avoid any type of security incidents on vital database systems**
- CO6 Student should be able to design solution by identifying appropriate data structure to solve a problem. (SO-e)**

Subject: Open Source Technologies (ITC505)

Students will be able to Understand the importance of enterprise data and be able to organize data to perform analysis on the

- CO1 data and take strategic decisions
- CO2 Install Linux in a Multiboot Environment and Use of basic Linux commands
- CO3 Install Web Server , FTP server on Linux
- CO4 Securing Servers with firewall
- CO5 Perform Shell Programming
- CO6 Design Interface for Android App
- CO7 Performing hands on on various open source tools

TE : VI SEM (CBGS)

Subject- Software Engineering (ITC601)

- CO1 Student will be able to meet the Information Technology Program Objectives of identifying and solving engineering problems
Student will be able to understand principles, concepts, methods, and techniques of the software engineering approach to
- CO2 produce quality software for large, complex systems.
- CO3 Student will be able to function effectively as a member of a team engaged in technical work.
- CO4 Student will be able to think critically about ethical and social issues in software engineering for different applications.
- CO5 Student will be able to study and compare different testing tools
- CO6 Student will be learn how to communicate with project leader and team member.

Subject- Distributed Systems (ITC602)

The student gains clear understanding of fundamental principles of Distributed Systems,along with design and implementation of key mechanisms, Clock Synchronization,along with design and implementation of key mechanisms, Clock Synchronization,Election

- CO1 Algorithms, Mutual Exclusion, Message Communication, Process and ResourceScheduling etc.
The student understands the message communication, remote procedure call and Remote method invocation (RPC and RMI)
- CO2 along with group communication
- CO3 Emphasis is on developing applications using current distributed computing technologies like EJB, CORBA and .NET
- CO4 Student should be able to develop/design distributed system/applications for an enterprise using SOA
apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex
- CO5 engineering activities with an understanding of the limitations.
- CO6 Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

Subject- Software and Web Security (ITC603)

- CO1 To understand the fundamentals of secret and public cryptography
Apply knowledge of mathematics, science, engineering fundamentals to develop a security model to prevent, detect and recover from attacks .**
- CO2**
- CO3 To use different tools to understand the issues and give solutions to program and web security**
- CO4 To apply ethical principles and commit to professional ethics and responsibilities as system security professional.**
- CO5 To be familiar with network security designs using available secure solutions (such as PGP, SSL, IPSec, etc),**
- CO6 To present some security solution for the current vulnerabilities in the web world**

Subject- Data Mining and Business Intelligence (ITC604)

- CO1 Demonstrate an understanding of the importance of data mining and the principles of business intelligence
Able to prepare the data needed for data mining algorithms in terms of attributes and class inputs, training, validating, and testing files.**
- CO2**
- CO3 Implement the appropriate data mining methods like classification, clustering or association mining on large data sets.**
- CO4 Define and apply metrics to measure the performance of various data mining algorithms.**
- CO5 Apply BI to solve practical problems : Analyze the problem domain, use the data collected in enterprise apply the appropriate data mining technique, interpret and Visualize the results and provide decision support.**
- CO6**

Subject- Advanced Internet Technology (ITC605)

- CO1 Use the google Analytics for tracking their website.**
- CO2 Design Website using HTML5**
- CO3 Develop Keyword Generation Tool**
- CO4 To demonstrate Responsive Web Design**
- CO5 To demonstrate Amazon/Google or yahoo mashup**
- CO6 Design Website using CSS3**

Department of Information Technology
BE : VII SEM (CBGS)

Subject: Software Project Management (ITC701)

- CO1 Articulate similarities and differences between IT projects and other types of projects.**
- CO2 Justify an IT project by establishing a business case, project charter**
- CO3 Construct and analyze network diagram.**
- CO4 Identify IT project risk and develop risk mitigation strategies.**
- CO5 Ensure the quality of the project using various standards.**
- CO6 Demonstrate team work and team spirit and how to overcome the conflicts.**

Subject: Cloud Computing (ITC702)

- CO1 Differentiate different computing techniques.**
- CO2 Compare various cloud computing providers/ Software.**
- CO3 Handle Open Source Cloud Implementation and Administration.**
- CO4 Recognise risks involved in cloud computing.**
- CO5 Understand Cloud Computing supporting environment**
- CO6 Classify architecture for Cloud Application**

Subject: Intelligent system (ITC703)

- CO1 students will be able to solve different issues involved in trying to define and simulate intelligence.
students will be able to familiar with specific, well known Artificial Intelligence methods, algorithms and knowledge representation schemes**
- CO2 representation schemes**
- CO3 students will be able to study different techniques which will help them build simple intelligent systems based on AI/IA concepts**
- CO4 Students will be able to choose an appropriate problem-solving method and knowledge-representation scheme.**
- CO5 Students will develop a basic understanding of the building blocks of AI as presented in terms of intelligent agents.**
- CO6 Students will be able to develop simple intelligent systems using different AI techniques as group activity**

Subject: Image Processing - Elective(ITC7051)

- CO1 Define the fundamental concepts of a digital image processing system**
- CO2 Make extensive use of these concepts in implementing processing techniques such as noise removal, enhancement**
- CO3 Learn compression for efficient storage and transmission**
- CO4 Use of segmentation techniques for object extraction**

- CO5 Implementation of image representation and description for recognition or building computer vision**
- CO6 Knowledge of image processing applications in detail**

Subject: Wireless Technology (ITC704)

- CO1 Use MATLAB Image Processing Toolbox.**
- CO2 The students will be acquainted with modern wireless communication networks,**
- CO3 The students will be familiar with the evolution of cellular networks.**
The students will have an exposure of basic framework of various protocols, standards used to develop wireless personal and
- CO4 wide area networks.**
- CO5 The students will be able to analyze the characteristics and trends of mobile/wireless communication channels.**
- CO6 The students will be able to compare the different multiple radio access techniques and multiuser detection techniques.**

Subject: Project -A (ITC706)

- CO1 The students will be able to analyze various wireless networks and their technologies.**
- CO2 The students will be able to know about the need of securities and economies in wireless systems.**
Student should be able to carry out literature survey/visit industry/analyse current trends and identify and finalize the problem
- CO3 for project.**
Student should be able to define the problem which will relate theory with real time application for the benefit of society and
- CO4 environment.**
- CO5 To formulate the problem to certain domain Like Image Processing, machine learning, Data mining ,networking using suitable tools.**
- CO6 Student should be able to clearly define objective and investigate the scope of identified problems**
- CO7 Student should be able to position their problem based on identification of gap based on literature survey.**
Student should be able to work effectively as an individual or in a team by managing the finance, timeline and produce the
- CO8 documents.**

BE : VIII SEM (CBGS)

Subject- Storage Network Management and Retrieval (ITC801)

- CO1 Evaluate storage architectures.**
- CO2 Evaluate storage subsystems, SAN, NAS, and IP-SAN,**
- CO3 Define Backup & Recovery**
- CO4 Examine emerging technologies including IP-SAN.**
- CO5 Define information retrieval in storage network**
- CO6 Identify different storage virtualization technologies.**

Subject- Big Data Analytics (ITC802)

- CO1** Students will be able to understand the key issues in big data management and its associated applications in intelligent
- CO2** Students will be able to acquire fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce
Students will be able to interpret business models and scientific computing paradigms, and apply software tools for big data
- CO3** analytics.
Students will be able to achieve adequate perspectives of big data analytics in various applications like recommender systems,
- CO4** social media applications etc.
- CO5** Students will be able to analyze datasets by using different tools available such as R, weka.
- CO6** Students will be able to implement an application on real life large dataset as a group activity

Subject- Computer Simulation and Modeling (ITC803)

- CO1** Student will be able to identify the common applications of discrete-event system simulation.
Student will be able to practice formulation and modeling skills as well as analyze events and inter-arrival time, arrival process,
- CO2** queuing strategies, resources.
- CO3** Student will be able to perform a simulation using spreadsheets as well as simulation language/package
- CO4** Students will be able to generate and test pseudorandom numbers using different Methods
- CO5** Students will be able to analyze and fit the collected data to different distributions
- CO6** Students will be able to create simulation of complex real world system and present.

Subject- Elective-II, Software Testing & Quality Assurance (ITC8046)

- CO1** Identify the reasons for bugs and analyze the principles in software testing to prevent and remove bugs.
- CO2** Implement various test processes for quality improvement
- CO3** Apply the software testing techniques in commercial environments
Provides practical knowledge of a variety of ways to test software and an understanding of some of the trade-offs between testing
- CO4** techniques.
- CO5** Familiar with the open source testing tools
- CO6** familiar with different software quality standards that will be useful for their future project testing

Subject- Project B (ITC805)

- Student should be able to apply knowledge of mathematics, science, engineering fundamentals and analyze complex engineering
- CO1** problems reaching substantiated conclusions
Student should be able to conduct investigations and design the solution of the problem for the benefit of society and
- CO2** environment.

- CO3** Students should be able to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues in their project specialization.
- CO4** Student should be able to apply and commit to professional ethics for various engineering practices to maintain sustainability. Student will be able to experience the issues involved in creation ,design and demonstration of simple products and prepare them
- CO5** to engage in independent and life- long learning
- CO6** Student should be able to work effectively as an individual or in a team by managing the finance, timeline and produce the documents.