



DR. T. THIMMAIAH INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

F.No:DrTTIT/IQAC/2020-21/075L

Semester: 3

Course1: Transform Calculus, Fourier Series and Numerical Techniques Course1 Code:18MAT31

Course Outcomes: After studying this course, the students will be able to:

CO 1	Use laplace transforms and inverse Laplace transforms in solving differential /integral equations arising in network analysis and control systems and other
CO 2	Demonstrate Fourier series to study the behavior of periodic functions and their applications in system communications, digital signal processing and field theory.
CO 3	Make use of Fourier transform and Z-transform to illustrate discrete/ continuous function arising in wave and heat propagation, signals and systems
CO 4	Solve first and second order ordinary differential equations arising in engineering problems using single step and multi-step numerical methods.
CO 5	Determine the extremals of functional using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis

Course Instructor: *Sruiraksha Prakash*

Sruiraksha Prakash
Signature 11/01/2020

Course2: Data Structures and Applications

Course2 Code: 18CS32

Course Outcomes: After studying this course, the students will be able to:

CO 1	Use different types of data structures, operations and algorithms
CO 2	Apply searching and sorting operations on files
CO 3	Use stack, Queue, lists in problem solving
CO 4	Implement a nonlinear data structure like trees in problem solving
CO 5	Implement a nonlinear data structure like graphs and use of hacking in problem solving

Course Instructor: *N. Shanile Kumari*

N. Shanile Kumari
Signature 11/01/2020

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Course3: Analog and Digital Electronics**Course3 Code: 18CS33**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Design and analyze application analog circuits using photodevices, timer IC, power supply and regulator IC and opamp.
CO 2	Explain the basic principles of A/D and D/A conversion circuits and develop the same.
CO 3	Simply Boolean expressions using Karnaugh Map, and Quine-McClusky Methods
CO 4	Design the flipflops, data processing circuits, registers and counters and compare the types
CO5	Develop HDL programs for combinational and sequential circuits.

Dr. A. Bhuvaneshwari
Course Instructor: *Babu*

[Signature]
Signature 11/9/20

Course4: Computer Organization**Course4 Code: 18CS34**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the basic organization of a computer systems
CO 2	Analyze the program as sequence of machine instructions
CO 3	Evaluate performance of memory systems
CO 4	Analyze simple arithmetic's and logical units
CO5	Illustrate hardwired control and microprogrammed control ,pipelining, embedded and other computing

Course Instructor: *[Signature]*

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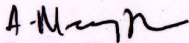
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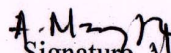
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Course5: Software Engineering**Course5 Code: 18CS35**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Design software/components using software development process
CO 2	Apply appropriate system models in developing the software
CO 3	Analyze software models with appropriate testing methods
CO 4	Comprehend software development approaches using UML notations
CO5	Access professional and ethical responsibility

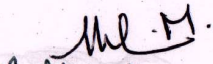

Course Instructor: A. MERCY FLORA

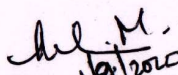

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Course6: Discrete Mathematical Structures**Course6 Code: 18CS36**

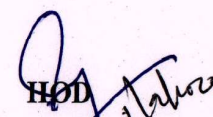
Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the knowledge of propositional, predicate logic in knowledge representation and truth table verification
CO 2	Solve problems using recurrence relations and generating functions
CO 3	Solve problems on Relations and Functions
CO 4	Compare graphs, trees and their applications


Course Instructor: Tharadeni. M


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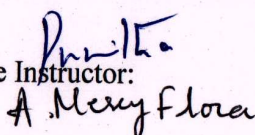

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Course7: Analog and Digital Electronics Laboratory**Course7 Code: 18CSL37**

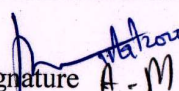
Course Outcomes: After studying this course, the students will be able to:

CO 1	Use appropriate design equations / methods to design the given circuit.
CO 2	Examine and verify the design of both analog and digital circuits using
CO 3	Make us of electronic components, ICs, instruments and tools for design and testing of circuits for the given the appropriate inputs
CO4	Compile a laboratory journal which includes; aim, tool/instruments/software/components used, design equations used and designs, schematics, program listing, procedure followed, relevant theory, results as graphs and tables, interpreting and concluding the findings.

Course Instructor:


A. Mary Flora

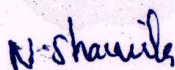
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A. Mary Flora**Course8: Data Structures Laboratory****Course8 Code: 18CSL38**

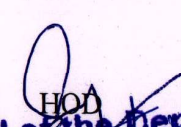
Course Outcomes: After studying this course, the students will be able to:

CO 1	Analyze and compare various linear and non-linear data structures
CO 2	Code, debug and demonstrate the working nature of different types of data structures and their applications
CO 3	Implement, analyze and evaluate the searching and sorting algorithms
CO 4	Choose the appropriate data structure for solving real world problems

Course Instructor:


N. Shanika

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N. Shanika
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Semester: 4

Course1: Complex Analysis, Probability and Statistical Methods

Course1 Code:18MAT41

Course Outcomes: After studying this course, the students will be able to:

CO 1	Use the concept of analytic function and complex potential to solve the problems arising in electromagnetic field theory
CO 2	Utilize conformal transformation and complex integral arising in aerofoil theory
CO 3	Apply discrete and continuous probability distributions arising in engineering fields
CO 4	Make use of correlation regression analysis to fit suitable mathematical module for the statistical data
CO 5	Construct joint probability distribution and demonstrate validity of testing the hypothesis

Course Instructor:

Sriraksha Prakash

Sriraksha Prakash
Signature 19/11/21

Course2: Design and Analysis of Algorithms

Course2 Code: 18CS42

Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe computational solution to well-known problems like searching, sorting etc.
CO 2	Estimate the computational complexity of different algorithms
CO 3	Devise an algorithm using appropriate design strategies for problem solving

Course Instructor:

Apoorva D

Apoorva D
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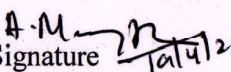
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Course3: Operating Systems**Course3 Code: 18CS43**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Demonstrate need for OS
CO 2	Demonstrate need for different types of OS
CO 3	Apply suitable techniques for management of different resources
CO 4	Use processor, memory, storage and file system commands
CO5	Realize the different concepts of OS in platform of usage through case studies

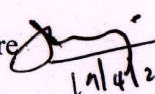
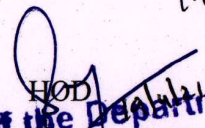
Course Instructor: A. MERCY FLORA

Signature  21/4/21**Course4: Microcontroller and Embedded Systems****Course4 Code: 18CS44**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe the architectural features and instructions of ARM microcontroller
CO 2	Apply the knowledge gained for Programming ARM for different applications.
CO 3	Interpret the basic hardware components and their selection method based on the characteristics and attributes of an embedded system
CO 4	Develop the hardware /software co-design and firmware design approaches
CO 5	Demonstrate the need of real time operating system for embedded system applications

Course Instructor: Hamsalatha. J

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Course5: Object Oriented Concepts**Course5 Code: 18CS45**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the object-oriented concepts and C++
CO 2	Explain the object-oriented concepts and JAVA
CO 3	Develop computer programs to solve real world problems in Java.
CO 4	Develop simple GUI interfaces for a computer program to interact with users
CO5	Understand the event-based GUI handling principles using swings.

N-Shamila Kumari
Course Instructor:

N. S. 19/4/21
Signature

Course6: Data Communication**Course6 Code: 18CS46**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the various components of data communication
CO 2	Explain the fundamentals of digital communication and switching.
CO 3	Compare and contrast data link layer protocols.
CO 4	Summarize IEEE 802.xx standards

Course Instructor:

Leelavathy SR

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SR 19/4/21

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Course7: Design and Analysis of Algorithm Laboratory**Course7 Code: 18CSL47**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Design and implement Various Algorithms in java
CO 2	Employ Various Design Strategies for problem solving
CO 3	Measure and compare the performance of different algorithm

APOORVA D
Course Instructor:
Leelavathy SR

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Course8: Microcontroller and Embedded Systems Laboratory**Course8 Code: 18CSL48**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Develop and test program using ARM7TDMI/LPC2148
CO 2	Conduct the following experiments on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4

Course Instructor: Hamalatha J
Mara Devi M

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Semester: 5

Course1: Management, Entrepreneurship for IT industry

Course1 Code:18CS51

Course Outcomes: After studying this course, the students will be able to:

CO 1	Define Management Organization, Planning, Staffing and Directing
CO 2	Explain the role and important of entrepreneur in economic development
CO 3	Discuss the concepts of project management and ERP
CO 4	Define the importance of small-scale industry and use of IPR's

Course Instructor: *Nisha bai. M*
Sophia

Nisha
Signature *11/4/2020*

Course2: Computer Networks and Security

Course2 Code: 18CS52

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain principles of application layer protocols
CO 2	Recognize transport layer services and infer UDP and TCP protocols
CO 3	Classify routers, IP and Routing Algorithms in network layer
CO 4	Understand the Wireless and Mobile Networks covering IEEE 802.11 Standard
CO 5	Describe Multimedia Networking and Network Management

Course Instructor: *Dr. charan.*

Dr. charan.
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Course3: Database Management System**Course3 Code: 18CS53**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Identify, analyze and define database objects, enforce integrity constraints on a database using \nRDBMS
CO 2	Use Structured Query Language (SQL) for database manipulation
CO 3	Design and build simple database systems
CO 4	Develop application to interact with databases.

Hamsalatha J
Course Instructor:

[Signature] 11/11/2020
Signature

Course4: Automata theory and Computability**Course4 Code: 18CS54**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Introduce core concepts in Automata and Theory of Computation
CO 2	Identify different language classes and their relationships and design Finite automata
CO 3	Design grammars and recognizers for different formal languages and hence design PDA
CO 4	Explain Turing machines and design Turing machines
CO5	Identify different language classes and their relationships

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Course Instructor:

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Course5: Application Development using Python**Course5 Code: 18CS55**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Understand the python syntax and semantics and be fluent in the use of python flow control and function
CO 2	Demonstrate proficiency in handling string and file system
CO 3	Implement python program using core data structure like lists dictionaries and use regular expression
CO 4	Implements the concepts of object-oriented programming as used in python
CO5	Implement exemplary applications related to network programming webservices databases in python

Course Instructor: *Rerathi S*Signature
[Signature]
11/11/2020**Course6: Unix Programming****Course6 Code: 18CS56**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain Unix architecture, file system and use of basic commands
CO 2	Illustrate shell programming and to write shell scripts
CO 3	Categorize, compare and make use of Unix system calls
CO 4	Build an application/service over a UNIX system

Course Instructor: *PREMALATHA D*Signature *[Signature]*
11/11/2020*[Signature]*
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Course7: Computer Network Laboratory**Course7 Code: 18CSL57**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Analyze and compare various networking protocols
CO 2	Demonstrate the working of different concepts of networking and evaluate
CO 3	Implement, analyze protocols in NS2 / NS3 and JAVA programming language

Course Instructor:

Leelavathy SR
Dr. Charan

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11/11/2020**Course8: DBMS Laboratory with mini project****Course8 Code: 18CSL58**

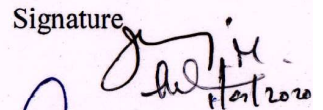
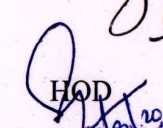
Course Outcomes: After studying this course, the students will be able to:

CO 1	Use structured Query Language (SQL) for database creation and Manipulation
CO 2	Demonstrate the working of different concepts of DBMS
CO 3	Implement and test the project developed for an application

Course Instructor:

Hansabetha J
Thara devi M.

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Semester: 6

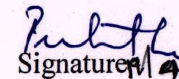
Course1: System Software and Compilers

Course1 Code:18CS61

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain system software
CO 2	Design and develop lexical analyzers, parsers and code generators
CO 3	Utilize lex and yacc tools for implementing different concepts of system software

Course Instructor: **PREMALATHA.D**


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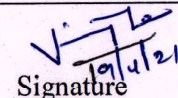
Course2: Computer Graphics and Visualization

Course2 Code: 18CS62

Course Outcomes: After studying this course, the students will be able to:

CO 1	Design and implement algorithms for 2D graphics primitives and attributes
CO 2	Illustrate Geometric transformations on both 2D and 3D objects.
CO 3	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
CO 4	Decide suitable hardware and software for developing graphics packages using OpenGL.

Course Instructor: **B. A. Vinutha**
Sudha.V


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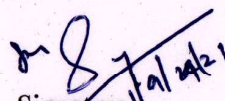
Course3: Web Technology and its applications**Course3 Code: 18CS63**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Adapt HTML and CSS syntax and semantics to build web pages
CO 2	Construct and visually format tables and forms using HTML and CSS
CO 3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
CO 4	Appraise the principles of object-oriented development using PHP
CO5	Inspect JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features.

Course Instructor:

Manjulk Singh.


Signature 11/11/21**Course4: System Modelling and Simulation****Course4 Code: 18CS645**

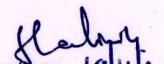
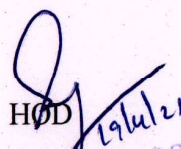
Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the system concepts and apply functional modelling method to model the activities of a static system
CO 2	Describe the behaviors of a dynamic system and create an analogous model for the dynamic system
CO 3	Simulate the operations of a dynamic system and make improvement according the simulation results.

Course Instructor:

SHAUN G.

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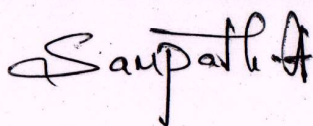

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Course5: Non convention Energy sources**Course5 Code: 18CS651**

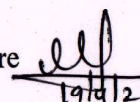
Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe the environmental aspects of non-conventional energy sources
CO 2	To know the concepts of solar radiation geometry, radiation flux on a tilted surface and solar thermal conversion
CO 3	Describe the need and analyses of liquid flat plate collectors and photovoltaic conversion
CO 4	understand the concept of wind, tidal energy, OTEC with their components and applications
CO5	understand the concept of Geothermal energy, Biomass energy, hydrogen energy with their components and applications

Course Instructor:



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19/11/21**Course6: System Software Laboratory****Course6 Code: 18CSL66**

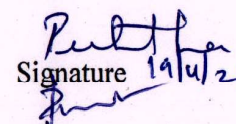
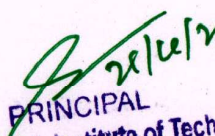
Course Outcomes: After studying this course, the students will be able to:

CO 1	Implement and demonstrate Lexer's and Parser's system.
CO 2	Evaluate different algorithms required for management, scheduling, allocation and communication used in operating

Course Instructor:

PREMALATHA.D
P. Pritha . F

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Course7: Computer Graphics Laboratory with mini project**Course7 Code: 18CSL67**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Apply the concepts of computer graphics
CO 2	Implement computer graphics applications using OpenGL
CO3	Animate real world problems using OpenGL

Course Instructor: B.A. Vinutha
Sudha.VSignature
14/4/21**Course8: Mobile Application Development****Course8 Code: 18CSMP68**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Learn and acquire the art of android programming
CO 2	Configure android studio to run the application Understand and implement Andriod's user interface function

Course Instructor: Revathi.S
Manjunath SinghSignature
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Semester: 7

Course1: Web Technology and its applications

Course1 Code:17CS71

Course Outcomes: After studying this course, the students will be able to:

CO 1	Define HTML and CSS syntax and semantics to build web pages.
CO 2	Understand the concepts of Construct, visually format tables and forms using HTML using CSS
CO 3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
CO 4	List the principles of object-oriented development using PHP
CO 5	Illustrate JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features.

Course Instructor: Manjunath Singh

Signature
11/9/2020

Course2: Advanced Computer Architectures

Course2 Code: 17CS72

Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain Various parallel computing and computer architecture of scalable, pipeline and parallel processors
CO 2	Illustrate concepts of memory organization and hardware technology
CO 3	Analyze evaluate and design various processor functional units and memory units
CO 4	Illustrate parallel programming concepts

Course Instructor:

SANTHOSH KUMARI

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S. I. K. 11/9/2020

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Head of the Department

Dept. of Computer Science
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Course3: Machine Learning**Course3 Code: 17CS73**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Recall the problems for machine learning. And select the either supervised, unsupervised or reinforcement learning.
CO 2	Understand theory of probability and statistics related to machine learning
CO 3	Illustrate concept learning, ANN, Bayes classifier, k nearest neighbor, Q,

Course Instructor: *Sudha V*

Signature *[Signature]*
11/6/2020

Course4: Information and Network Security**Course4 Code: 17CS743**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Students will be able to recognize Cryptographic Algorithms
CO 2	Analyze various cryptographic Protocols
CO 3	Able to Demonstrate Private and Public Key Attacks on the Cryptosystem
CO 4	Analyze Various Cryptographic Applications

Course Instructor: *Leelavathy SR*

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1-9-2020

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21/6/20
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DR.T.THIMMAIAH INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

F.No:DrTTIT/IQAC/2020-21/075L

Semester:8

Course1: Internet of Things and Applications

Course1 Code:17CS81

Course Outcomes: After studying this course, the students will be able to:

CO 1	Interpret the impact and challenges posed by IoT networks leading to new architectural models..
CO 2	Compare and contrast the deployment of smart objects and the technologies to connect them to network
CO 3	Appraise the role of IoT protocols for efficient network communication.
CO 4	Elaborate the need for Data Analytics and Security in IoT.
CO5	Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in Industry

Sudha & Revathi
Course Instructor:

[Signature]
Signature

Course2: Big Data Analytics

Course2 Code:17CS82

Course Outcomes: After studying this course, the students will be able to:

CO 1	Understand and describe the concepts of Hadoop Distributed File System and MapReduce Programming Framework
CO 2	Demonstrate Hadoop Tools for Bigdata Analytics and perform basic Hadoop Administration
CO 3	Understand and recognize the role of Business intelligence, Data Warehousing, Datamining and Visualization in Decision making
CO 4	Demonstrate Distinct Datamining and Data mining and Data Analytics concepts
CO 5	Compare and contrast different text mining concept

Course Instructor: *B.A. Vinutha*

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Course3: System Modeling and Simulation**Course3 Code: 17CS834**


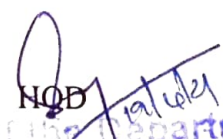
Course Outcomes: After studying this course, the students will be able to:

CO 1	Explain the system concept and apply functional modeling method to model the activities of a static system
CO 2	Describe the behavior of a dynamic system and create an analogous model for a dynamic system
CO 3	Simulate the operation of a dynamic system and make improvement according to the simulation results

Course Instructor:  **Thara den.H**Signature  **19/4/21****Course4: Internship/ Professional Practice****Course4 Code: 17CS84**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Adapt easily to the industry environment
CO 2	Take part in team work
CO 3	Make use of modern tools
CO 4	Decide upon project planning and financing.
CO5	Adapt ethical values and motivate for lifelong learning

Course Instructor:  **Vinutha B.A**
Manjunath SinghSignature  **19/4/21**
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Course5: Project Work-II**Course5 Code: 17CSP85**

Course Outcomes: After studying this course, the students will be able to:

CO 1	Describe the Engineering technical models based on Society environment ethics as a team
CO 2	Describe the problem, write the reports, documentations and presentation
CO 3	Illustrate the management principles through dissertation work
CO 4	Explain the professional ethics in Engineering practice
CO5	Analyze the solution by considering suitable design

Course Instructor:

1) Shalini. G
2) A. Mercy FloraA. Mercy Flora
Signature 14/6/21**Course6: Seminar****Course6 Code: 17CSS86**

Course Outcomes: After studying this course, the students will be able to:

CO 1	To study research papers for understanding of a new field, in the absence of a text book, to Summaries and review them.	
CO 2	To identify promising new directions of various cutting-edge technologies	
CO 3	To impart skills in preparing detailed report describing the project and results	
CO 4	To effectively communicate by making an oral presentation before an evaluation committee.	

Course Instructor:

Punitha. F
Revathi. SSignature
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