



The COs of 21 Scheme subject wise for the academic Year 2022-2023

III Semester (2021 Batch)

Course Code: BSC
Subject Code 21MAT31

Subject Name Transform Calculus, Fourier Series and Numerical Techniques

Course Outcomes:

- CO1 To have an insight into solving ordinary differential equations by using Laplace transform techniques
- CO2 Learn to use the Fourier series to represent periodical physical phenomena in engineering analysis.
- CO3 To enable the students to study Fourier Transforms and concepts of infinite Fourier Sine and Cosine transforms and to learn the method of solving difference equations by the z-transform method.
- CO4 To develop the proficiency in solving ordinary and partial differential equations arising in engineering applications, using numerical methods
- CO5

Course Code: IPCC
Subject Code 21CS32

Subject Name Data Structures and Applications

Course Outcomes

- CO1 Explain the fundamentals of data structures and their applications essential for implementing solutions to problems.
- CO2 Illustrate representation of data structures: Stack, Queues, Linked Lists, Trees and Graphs.
- CO3 Design and Develop Solutions to problems using Arrays, Structures, Stack, Queues, Linked Lists.
- CO4 Explore usage of Trees and Graph for application development.
- CO5 Apply the Hashing techniques in mapping key value pairs.



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#29, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bengaluru- 560090

Dept. of Information Science & Engineering

Course Code: IPCC
Subject Code 21CS33

Subject Name Analog and Digital Electronics

Course Outcomes

- CO1 Explain the use of photo electronics devices, 555 timer IC, Regulator ICs and uA741
- CO2 Make use of simplifying techniques in the design of combinational circuits.
- CO3 Illustrate combinational and sequential digital circuits
- CO4 Demonstrate the use of flip-flops and apply for registers
- CO5 Design and test counters, Analog-to-Digital and Digital-to-Analog conversion techniques.

Course Code: PCC

Subject Code 21CS34

Subject Name Computer Organization and Architecture

Course Outcomes

- CO1 Understand the organization and architecture of computer systems, their structure and operation
- CO2 Illustrate the concept of machine instructions and programs
- CO3 Demonstrate different ways of communicating with I/O devices
- CO4 Describe different types memory devices and their functions
- CO5 Explain arithmetic and logical operations with different data types



Course Code: PCC

Subject Code 21CSL35

Subject Name Object Oriented Programming with JAVA Laboratory

Course Outcomes

- CO1 Demonstrate the use of Eclipse/Netbeans IDE to create Java Applications.
- CO2 Using java programming to develop programs for solving real-world problems.
- CO3 Reinforce the understanding of basic object-oriented programming concepts.

Course Code: AEC

Subject Code 21CSL381

Subject Name Mastering Office

Course Outcomes

- CO1 Understand the basics of computers and prepare documents and small presentations.
- CO2 Attain the knowledge about spreadsheet/worksheet with various options.
- CO3 Create simple presentations using templates various options available.
- CO4 Demonstrate the ability to apply application software in an office environment.
- CO5 Use MS Office to create projects, applications.



IV Semester (2021 Batch)

Course Code: BSC
Subject Code 21CS41

Subject Name Mathematical Foundations for Computing

Course Outcomes

- CO1 Apply the concepts of logic for effective computation and relating problems in the engineering domain
- CO2 Analyze the concepts of functions and relations to various fields of engineering. Comprehend the concepts of graph theory for various applications of computational sciences
- CO3 Apply discrete and continuous probability distributions in analyzing the probability models arising in the engineering field
- CO4 Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data
- CO5 Construct joint probability distribution and demonstrate the validity of testing and hypothesis

Course Code: IPCC
Subject Code 21CS42

Subject Name Design and Analysis of Algorithms

Course Outcomes

- CO1 Explain the methods of analyzing the algorithms and to analyze performance of algorithms.
- CO2 State algorithm's efficiencies using asymptotic notations.
- CO3 Solve problems using algorithm design methods such as the brute force method, greedy method, divide and conquer, decrease and conquer, transform and conquer, dynamic programming, backtracking and branch and bound
- CO4 Choose the appropriate data structure and algorithm design method for a specified application
- CO5 Introduce P and NP classes.



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Dept. of Information Science & Engineering

Course Code: IPCC
Subject Code 21CS43

Subject Name Microcontroller and Embedded System

Course Outcomes

- CO1 Understand the fundamentals of ARM-based systems, including programming modules with registers and the CPSR.
- CO2 Use the various instructions to program the ARM controller.
- CO3 Program various embedded components using the embedded C program.
- CO4 Identify various components, their purpose, and their application to the embedded system's applicability.
- CO5 Understand the embedded system's real-time operating system and its application in IoT.

Course Code: PCC
Subject Code 21CS44

Subject Name Operating System

Course Outcomes

- CO1 Demonstrate the need for OS and different types of OS
- CO2 Apply suitable techniques for management of different resources
- CO3 Use processor, memory, storage and file system commands
- CO4 Realize the different concepts of OS in platform of usage through case studies



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Dept. of Information Science & Engineering

Course Code: AEC
Subject Code 21BE45

Subject Name Biology For Engineers

Course Outcomes

- CO1 Elucidate the basic biological concepts via relevant industrial applications and case studies
- CO2 Evaluate the principles of design and development, for exploring novel bioengineering projects
- CO3 Corroborate the concepts of biometrics for specific requirements
- CO4 Think critically towards exploring innovative bio based solutions for socially relevant problems

Course Code: PCC
Subject Code 21CSL46

Subject Name Python Programming Laboratory

Course Outcomes

- CO1 Demonstrate the use of IDLE or PyCharm IDE to create Python Applications
- CO2 Using Python programming language to develop programs for solving real-world problems
- CO3 Implement the Object-Oriented Programming concepts in Python.
- CO4 Appraise the need for working with various documents like Excel, PDF, Word and Others
- CO5 Demonstrate regular expression using python programming



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Dept. of Information Science & Engineering

Course Code: AEC
Subject Code 21CSL481

Subject Name Web Programming

Course Outcomes

- CO1 Learn Web tool box and history of web browsers.
- CO2 Learn HTML, XHTML tags with utilizations.
- CO3 Know CSS with dynamic document utilizations.
- CO4 Learn JavaScript with Element access in JavaScript.
- CO5 Logically plan and develop web pages.