

B. Sc. COMPUTER SCIENCE BATCH 2021-2024

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PO5	Modern tool usage: Use contemporary techniques, skills and digital tools necessary for integrated solutions.
PO6	Design Development Solution: Ability to formulate, to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate
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PO10	Decision Making : Ability to apply decision making methodologies to evaluate solution for efficiency, effectiveness, and sustainability

21UCS517 Core XI: Linux and Shell Programming

CO Number	CO Statement
CO1	Remember the history of Linux, Linux architecture, GNU, Free software foundation and Distributions.
CO2	Understand about shell scripts, files, directories, system calls and library functions.
CO3	Apply the concept of threads for managing the processes in Linux.
CO4	Analyze various mechanisms provided by Linux to allow the processes to manage shared data.
CO5	Understand socket programming and socket communication.

21UCS518 Core XII: Kotlin Programming

Course Outcomes (CO)

CO1	To remember the coding conventions used for kotlin programming.
CO2	To get an idea about classes, objects, properties, fields and interfaces of kotlin.
CO3	To deploy multi-platform mobile and web based applications.
CO4	To analyze the composition of suspending functions.
CO5	To validate the execution of applications on various platforms.

21UCS519 Core XIII: Cyber Security

CO Number	CO Statement
CO1	Evaluate the computer network and information security needs of an organization.
CO2	Assess cyber security risk management policies in order to adequately protect an organization's critical information and assets.
CO3	Troubleshoot, maintain and update an enterprise-level information security system.
CO4	Implement continuous network monitoring and provide real-time security solutions.

CO5	Formulate, update and communicate short- and long-term organizational cyber security strategies and policies.
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21UCS5E1 Core Elective II : Data mining and Warehousing

CO Number	CO Statement
CO1	To remember the basics of data mining and data warehousing
CO2	To understand the methodology of data mining and its best practices
CO3	To analyze how data mining fits in with data warehousing, OLAP as well as architecture of data warehousing.
CO4	To apply data for data mining
CO5	To evaluate different kinds of patterns with many data mining algorithms

21UCS5E6 Core Elective-I: Data Engineering with Google Cloud

CO1	To remember the concepts of Data and storage.
CO2	To understand the idea of designing data models
CO3	To Apply Data Engineering Concepts in building Data Processing Systems
CO4	To Analyze the Operationalizing of Data Processing Systems.
CO5	To evaluate the Data Processing System.

21UCS5E3 Core Elective I: Mobile Application Development

CO Number	CO Statement
CO1	Understand the fundamentals and characteristics of mobile application and apply the right user interface for designing mobile application
CO2	Implement mobile application using UI toolkits and frameworks and also implement android application with multimedia support
CO3	Design a mobile application that is aware of the resource constraints of mobile devices.
CO4	Develop web based mobile application that accesses internet and location data
CO5	Implement android application to use telephony for SMS communication

21UCS520 Core Lab VII: Linux and Shell Programming Lab

CO Number	CO Statement
CO1	Develop shell scripts for simple applications.
CO2	Develop programs to create and manage processes.
CO3	Develop programs for TCP and UDP socket communication.

21UCS521 Core Lab VIII: ProgrammingLab using Kotlin

CO1	To Recall programming basics with coding conventions in kotlin programming
CO2	To Categorize classes,objects,Functions and lamdas in IntelliJidea
CO3	To Integrate views with different collections and grouping
CO4	To Design and develop User interface functions in kotlin
CO3	To Apply Java programming concepts to Android application development.

21UCS5S1 Skill Based Elective -I:Word Press

CO Number	CO Statement
CO1	To apply the available templates for creating blogs or dynamic websites.
CO2	To analyze the various plugins and apply them appropriately
CO3	To validate the available content in the blog or website

21UCS5S2 Skill Based Elective -I: Dream Weaver

CO Number	CO Statement
CO1	To apply the different controls in dreamweaver for creating a webpage
CO2	To analyze the markup languages and using them based on the requirements
CO3	To validate the webpage using javascript and create page layouts with CSS

21UCS622 Core XIV: RProgramming

CO Number	CO Statement
CO1	To remember the basic mathematics and its functions.
CO2	To understand the various problems in the real worldrelated to shapes, purchase, sales, interest.
CO3	To apply the skills required for various problems.
CO4	To analyze the illustration and steps involved in problemsolving approach.
CO5	To build the quantitative aptitude skills for solvingvarious mathematical and application.

21UCS5E4 Core Elective-I: Artificial Intelligence and Machine learning

CO1	To recall the basic logical searches, learning algorithms and improve decision making systems.
CO2	To Summarize the idea about knowledge representation and reasoning
CO3	To illustrate new knowledge with probabilistic reasoning solutions
CO4	To Analyze Decision making system and its different process
CO5	To evaluate the learning skills with many observations and machine learning algorithms

21UCS5E5 Core Elective-II:Front-end web development with React

CO1	To remember the concepts of front end design.
CO2	To understand the idea of designing and scripting web pages
CO3	To Applyessential hacks and simple techniques to solve React application development challenges.
CO4	To Analyze the to wield complex topics such as Webpack and server-side rendering..
CO5	To Learn to maximize the performance of React applications

21UCS5E6 Core elective II:MongoDB

CO Number	CO Statement
CO1	Understand NoSQL database Design multiple tables, and using group queries.
CO2	Design a database based on a data model normalization to a specified level
CO3	Understand and apply various operators and queries in Mongo DB
CO4	Develop a text processing skill set and able to apply in creation of
CO5	Design a secure database and analyze with security protocols

21UCS6E7 Core Elective-I: Information Retrieval

CO1	To remember the concepts of artificial intelligence and Information retrieval systems.
CO2	To understand the idea of retrieval models with similarity measures and ranking
CO3	To Apply Queries using categorization and clustering
CO4	To Analyze the filtering techniques using web search.
CO5	To evaluate the extraction and integration of data with many applications.

21UCS5E8 Core Elective-II : HTML, JavaScript and JQuery for web designing

CO1	To remember the concepts of basic web designing languages.
CO2	To understand the idea of designing and scripting web pages
CO3	To Apply Queries using categorization and clustering
CO4	To Analyze the validation and querying techniques using Javascript and jQuery.
CO5	To evaluate the web forms for different applications.

21UCS6E9 Core Elective III: Angular and Node JS

CO Number	CO Statement
CO1	Understand Client Side MVC and SPA
CO2	Explore AngularJS Component and develop an Angular JS
CO3	Develop an AngularJS Single Page Application from scratch
CO4	Demonstrate an Understanding of the use of and Node.js core modules
CO5	Apply MongoDB ,Middleware and make connectivity with front end tools

21UCS623 Core Lab IX:R ProgrammingLab

CO1	To implement Vector R operations
CO2	To review and analyze data frames and objects
CO3	To validate how Bar charts and Pie charts are implemented

21UCS624 Core Lab X:Advanced Applications in MS ExcelLab

CO1	To implement, Interpret data using MS Excel.
CO2	To review and analyze the mathematical functions, data analytics using MS Excel
CO3	To validate the macros and manipulation for objects and data using MS Excel

21UCS6S4 Skill Based Elective -II:Joomla

CO1	To apply the basic concepts to solve real world problems using Joomla
CO2	To analyze design issues in developing various applications
CO3	To validate Web based applications

21UCS6S5 Skill Based Elective -II:Macromedia Director

CO1	To apply the basic tools of macromedia director.
CO2	To analyze specialized tools and implement it in animation.
CO3	To validate website designing using the scripts.

21UCS6S6 Skill Based Elective -II:Soft Skills

CO1	To remember the basics of communication skills
CO2	To understand the relationship between leadership networking and team work
CO3	To apply the skills required for a good leadership
CO4	To analyze the causes of stress and its impact
CO5	To build the interpersonal skills for being an effective goal oriented team player.

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21UCS307 Core V: VB.NET Programming

CO Number	CO Statement
CO1	To remember the basic concepts and applications of database systems and SQL.
CO2	To understand the relational database theory, and be able to write relational algebra expressions for queries
CO3	To apply design principles using the E-R method and normalization approach
CO4	To interpret SQL interface of a relational DBMS package to create, secure, populate, maintain, and query a database and PL/SQL programming using Triggers and Cursors.
CO5	To attain a good practical skill of managing and retrieving of data using Data Manipulation Language (DML)

21UCS308 Core VI: Relational Database Management System

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CO1	To remember the basic concepts and applications of databasesystems and SQL.
CO2	To understand the relational database theory, and be able to writere relational algebra expressions for queries
CO3	To apply design principles using the E-R method andnormalization approach
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21UCS309 Core VII: System softwareand Operating System

CO Number	CO Statement
CO1	Know the program generation and program executionactivities in detail
CO2	Understand the concepts of Macro Expansions and Gain the knowledge of Editing processes
CO3	Remember the basic concepts of operating system
CO4	Understand the concepts like interrupts, deadlock , memory management and file management
CO5	Analyze the need for scheduling algorithms andimplement different algorithms used for representation, scheduling, and allocation in DOS and UNIX operatingsystem.

21UCS3A3 Allied-3: Computer BasedOptimization Techniques

CO Number	CO Statement
CO1	Remember and recall terms and concepts of relations
CO2	Understand the concept of transportation, networking, replacement, etc.,
CO3	Apply the appropriate optimization techniques to solve the computer basedbusiness problems
CO4	Become familiar with, LPP, Hungarian method, Game theory, Replacementproblem.
CO5	Analyze the ability of critical thinking, to find shortest time duration

21UCS310 Core Lab III:.NetProgramming Lab

CO Number	CO Statement
CO1	Create user interactive web pages using ASP.Net.
CO2	Create simple data binding applications using ADO.Netconnectivity
CO3	Performing Database operations for Windows Form and webapplications

21UCS311 Core IV: Programming lab in RDBMS

K3	CO1	To apply the normalization techniques for development of application software to realistic problems and ability to formulate queries using SQL DML/DDDL/DCL commands
K4	CO2	To interpret SQL interface of a relational DBMS package to create, secure, populate, maintain, and query a database and PL/SQL programming using Triggers and Cursors.
K5	CO3	To access data stored in an Oracle Relational DBMS using Oracle SQL, PL/SQL

21UCS3N1 Non-Major Elective Paper-I: Photoshop Lab

K3	CO1	To apply the different type of tools available in Photoshop to create simple applications.
K4	CO2	To interpret programs using various filters in Photoshop
K1	CO3	To access the new tools for designing multi-layered applications.
K2	CO4	Create simple shapes by applying shape tweens and motion tweens.
K5	CO5	Identify the basic tools and components of multimedia components.

21UCS3N2 Non-Major Elective Paper-I: Advanced Applications in MSExcel Lab

CO Number	CO Statement
CO1	To apply the basic concepts of Excel such as mathematical function, Data function, text function
CO2	To analyze the data using charts
CO3	To validate the data using if statements.

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22UCS101 C Programming

CO Number	CO Statement
CO1	To keep in mind the fundamentals of C programming
CO2	To understand the loops and decision making statements to solve the problem
CO3	To implement different operations on arrays and use functions to solve thegiven problem.
CO4	To review the C program that uses pointers, structures and files
CO5	To understand and evaluate File Concept

22UCS102 Core II: Digital Computer Fundamentals and Organization

CO Number	CO Statement
CO1	To recollect the fundamental concepts and techniques used in digital electronics.
CO2	To get the idea of basic postulates of Boolean Algebra and to apply themethods of simplifying Boolean expressions
CO3	To apply knowledge about internal circuitry and logic behind any digitalsystem and to design various synchronous and asynchronous circuits.
CO4	To identify the concept of memories, and to introduce microcontroller casestudy.
	To analyze the usage of different kinds of Memory Management and mapping techniques

22UCS1A1 Allied-1: Mathematics (Statistical Methods & Linear Algebra)

CO Number	CO Statement
CO1	Understand the definition of matrix and determinants and apply various operations on it
CO2	Understand the statistical formula and apply them in various data analysis
CO3	Understand the concept of most powerful test and analyze the samples based on most powerful test like 't' and 'F' distributions
CO4	Understand the concepts of probability and apply to solve real life situations
CO5	Obtain numerical solutions of algebraic equations and compute the integrals by using the appropriate technique

21UCS1A2 Allied-1: Advanced Mathematics and applied Statistics

CO Number	CO Statement
CO1	Understand and analyze the statistical formula and apply them in various data analysis problems and Measure and interpret the degree of relationship between variables.
CO2	Apply the distributions to infer the behavior of observation in the sample space and also learn its moment generating function
CO3	Analyze the concept of most powerful test and analyze the samples based on most powerful test like 't', 'F' and chi-square
CO4	Understand the concepts of probability and apply to solve real life situations
CO5	Evaluate numerical solutions of algebraic equations and compute the integrals by using the appropriate technique

22UCS103 Core Lab III: Programming Lab in C

CO1	To implement different operations on arrays and use functions to solve the given problems.
CO2	To evaluate the C program that uses pointers, structures and files
CO3	To validate programs with pointers and arrays, perform pointer arithmetic, and use the pre processor

22UCS204 Core III: C++ Programming

CO1	To remember the basic OOPs concepts such as Class, Inheritance, Abstraction, Polymorphism etc.
CO2	To understand how C++ differentiates between object oriented programming and Procedural programming and the use of function, operator overloading.
CO3	To apply constructor & Destructors in performing and Built programme using virtual Functions.
CO4	To implement programs using more advanced features such as composition of Objects, Operator overloads, Inheritance, Polymorphism, Dynamic memory allocation etc.
CO5	To evaluate C++ programs using File I/O, Command line Arguments and Exception Handling.

22UCS205 Core IV: Data and File Structure

CO Number	CO Statement
CO1	To keep in mind the basic static and dynamic data structures and relevant standard algorithms for them.
CO2	To get the idea about advantages and disadvantages of specific algorithms and data structures.
CO3	To implement new solutions for programming problems or improve existing code using learned algorithms and data structures.
CO4	To evaluate algorithms and data structures in terms of time and memory complexity of basic operations.
CO5	To analyze storage device types and indexing techniques

22UCS2A1 Allied-2: Discrete Mathematics Level-I

CO1	To keep in mind about the fundamental ideas and notation of discrete mathematics with examples
CO2	To Understand and evaluate the concepts of Relations
CO3	To get the idea of relations and its types and fuzzy sets and its operations
CO4	To analyze the formal language such as formation of words with examples, groups and monoids
CO5	To Understand and apply basic properties of graphs and types of graphs, and be able to relate these to practical examples

22UCS2A2 Allied-2: Discrete Mathematical Structure Level-II

CO1	To understand and analyze Algebraic Laws and Set theory Concepts.
CO2	To keep in mind about the fundamental ideas and notation of discrete mathematics with examples
CO3	To get the idea of relations, types of relations and functions, types of functions

CO4	To analyze the formal language such as formation of words and monoids with examples
CO5	To understand basic properties of graphs, compare the types of graphs and evaluate these with practical examples

22UCS206 Core Lab II: Programming Lab in C++

CO1	To apply the basic concepts of C++ such as function, friend functions and array of objects to solve a particular problem.
CO2	To analyze programs using more advanced OOPs concepts such as Constructor/Destructor, Operator overloading, Inheritance, and Polymorphism.
CO3	To validate programs using Dynamic memory allocation and Virtual functions.



Principal

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