DEPARTMENT OF COMPUTER SCIENCE AND DESIGN
Course Outcomes

Year/Sem: II B.Tech I Sem   **A.Y: 2022-23**

Course Name: Mathematics III	
Course Code: CSD2101	
CSD2101.1	State and prove vector Line , Surface and volume integral Theorems. State and prove Stokes and Green's theorems.
CSD2101.2	Derive Laplace transform standard functions. Deduce inverse Laplace transform functions.
CSD2101.3	Explain about Periodic functions , even and odd functions. Explain about Half range sine and cosine series. Explain Fourier transforms. State and prove Fourier integral theorem and problems.
CSD2101.4	Explain Fourier Transforms. State and prove Fourier integral theorem and problems.
CSD2101.5	Explain By eliminating Orbitary constants and Orbitary functions. Derive Legrangies equation and problems.
CSD2101.6	Derive solutions of linear P.D.E with constant coefficients and problems. Explain method of separation of variables and wave & heat equations.

Course Name: Mathematical Foundations of Computer Science	
Course Code: CSD2102	
CSD2102.1	Demonstrate skills in solving mathematical problems
CSD2102.2	Comprehend mathematical principles and logic
CSD2102.3	Demonstrate knowledge of mathematical modelling
CSD2102.4	Proficiency in using mathematical software
CSD2102.5	Manipulate and analyze data numerically and/or graphically using appropriate Software
CSD2102.6	Communicate effectively mathematical ideas/results verbally or in writing

Course Name: Computer Graphics	
Course Code: CSD2103	
CSD2103.1	Use the principles and commonly used paradigms and techniques of computer graphics
CSD2103.2	Write basic graphics application programs including animation.
CSD2103.3	Design programs to display graphic images to given specifications
CSD2103.3	Design for 2D graphics
CSD2103.4	Create 2D animations using C.
CSD2103.5	Create for 3D animation

Course Name: Multimedia and Application Development	
Course Code: CSD2104	
CSD2104.1	Ability to apply different multimedia development tools to produce web based and standalone user interfaces.
CSD2104.2	Students are able to understand Multimedia projects &Applications.
CSD2104.3	Students are able to utilize the multimedia technologies to develop multimedia project.
CSD2104.4	Can deal with all multimedia facts.
CSD2104.5	All multimedia facts for fulfilment of all day to day multimedia requirements.

Course Name: Database Management Systems	
Course Code: CSD2105	
CSD2105.1	Describe a relational database and object-oriented database
CSD2105.2	Create, maintain and manipulate a relational database using SQL
CSD2105.3	Describe ER model and normalization for database design
CSD2105.4	Examine issues in data storage and query processing and can formulate appropriate solutions
CSD2105.5	Outline the role and issues in management of data such as efficiency, privacy, security.
CSD2105.6	Outline the role and issues in management of data such as ethical responsibility, and strategic advantage.

Course Name: Computer Graphics Lab	
Course Code: CSD2106	
CSD2106.1	Design and develop programs for drawing Computer Graphics primitives.
CSD2106.2	Implement different algorithms for line clipping.
CSD2106.3	Create 2D graphical scenes using C.
CSD2106.4	Create 3D graphical scenes using C.
CSD2106.5	Implement image manipulation and enhancement.
CSD2106.6	Create 2D animations using C.

Course Name: Multimedia and Application Development Lab	
Course Code: CSD2107	
CSD2107.1	Solve various Basic Mathematics problems by following different methods
CSD2107.2	Follow strategies in minimizing time consumption in problem solving
CSD2107.3	Apply shortcut methods to solve problems
CSD2107.4	Confidently solve any mathematical problems
CSD2107.5	utilize these mathematical skills both in their professional as well as personal life
CSD2107.6	Analyze, summarize and present information in quantitative forms including table, graphs and formulas

Course Name: Database Management Systems Lab	
Course Code: CSD2108	
CSD2108.1	Utilize SQL to execute queries for creating database.
CSD2108.2	Utilize SQL to execute queries for performing datamanipulation operations.
CSD2108.3	Examine integrity constraints to build efficient databases.
CSD2108.4	Apply Queries using Advanced Concepts of SQL.
CSD2108.5	Build PLprograms including stored procedures, functions.
CSD2108.6	Build SQL programs including cursors and triggers.

Course Name: Mobile App Development	
Course Code: CSD2109	
CSD2109.1	Identify various concepts of mobile programming that make it unique from programming for other platforms
CSD2109.2	Critique mobile applications on their design pros and cons
CSD2109.3	Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces,
CSD2109.4	Program mobile applications for the Android operating system that use basic
CSD2109.5	advanced phone features
CSD2109.6	Deploy applications to the Android marketplace for distribution

Year/Sem: II B.Tech II Sem

Course Name: Probability and Statistics	
Course Code: CSD2201	
CSD2201.1	Explain the concepts of data science and its importance
CSD2201.2	Learn characteristics and through Correlation and regression tools
CSD2201.3	Write the concepts of probability and their applications
CSD2201.4	Apply discrete and continuous probability distributions
CSD2201.5	Explain the components of classical hypothesis test
CSD2201.6	To learn statistical inferential methods based on small and large sampling test

Course Name: Computer Organization	
Course Code: CSD2202	
CSD2202.1	Develop a detailed understanding of computer systems.
CSD2202.2	Cite different number systems, binary addition and subtraction, standard, floating-point, and micro operations.
CSD2202.3	Develop a detailed understanding of architecture.
CSD2202.4	Functionality of central processing unit.
CSD2202.5	Exemplify in a better way the I/O and memory organization.
CSD2202.6	Illustrate concepts of parallel processing, pipelining and inter processor communication.

Course Name: Data Warehousing and Mining	
Course Code: CSD2203	
CSD2203.1	Summarize the architecture of data warehouse
CSD2203.2	Apply different preprocessing methods, Similarity, Dissimilarity measures for any given raw data
CSD2203.3	Construct a decision tree.
CSD2203.4	Construct a decision resolve the problem of model overfitting.
CSD2203.5	Compare Apriori and FP-growth association rule mining algorithms for frequent itemset generation
CSD2203.6	Apply suitable clustering algorithm for the given data set

Course Name: Visual Design and Communication	
Course Code: CSD2204	
CSD2204.1	Students will develop the ability to create visual compositions using basic elements and apply appropriate principles of visual composition to communicate ideas.
CSD2204.2	Students will begin to understand the visual language and develop the ability to perceive, visualize and communicate using visual narratives.
CSD2204.3	Students will develop the ability to apply the visual dynamics of visual language in Typography, Photography and Videography.
CSD2204.4	Students will develop the ability to apply the visual dynamics of visual language in Image and layouts in the design of signage systems
CSD2204.5	Students will begin to understand the visual dynamics that exists in visual design as a visualisation process to evolve mental imageries that represent solutions to simple communication problems.
CSD2204.6	Students will be able to execute design solutions using appropriate software programmes.

Course Name: Managerial Economics and Financial Accountancy	
Course Code: CSD2205	
CSD2205.1	Demonstrate skills in solving mathematical problems
CSD2205.2	Comprehend mathematical principles and logic
CSD2205.3	Demonstrate knowledge of mathematical modelling
CSD2205.4	Proficiency in using mathematical software
CSD2205.5	Manipulate and analyze data numerically and/or graphically using appropriate Software
CSD2205.6	Communicate effectively mathematical ideas/results verbally or in writing

Course Name: Games Development Lab	
Course Code: CSD2206	
CSD2206.1	Learning how to use the various fundamentals of Unity
CSD2206.2	Understanding how everything works in the engine
CSD2206.3	Understanding the basic concepts of game design
CSD2206.4	Creating and building actual sample games
CSD2206.5	Learning how to deploy your projects to the market

Course Name: Data Mining using Python Lab	
Course Code: CSD2207	
CSD2207.1	Apply pre-processing techniques on real world datasets
CSD2207.2	Apply apriori algorithm to generate frequent item sets.
CSD2207.3	Apply Classification and clustering algorithms on different datasets.
CSD2207.4	Choose Model building and evaluation.
CSD2207.5	Make use of association rule mining techniques viz. Apriori and FP Growth algorithms and analyze on frequent itemsets generation.
CSD2207.6	Identify and apply various clustering algorithm (with open source tools), interpret, evaluate and report the result.

Course Name: Web Application Development Lab	
Course Code: CSD2208	
CSD2208.1	Develop Single Page Applications.
CSD2208.2	Develop NodeJS&ReactJS Reusable Service.
CSD2208.3	Store the data in MySQL.
CSD2208.4	Get acquainted with the latest web application development trends in the IT industry.
CSD2208.5	To develop the skill in server side programming using JSP.
CSD2208.6	Developing applications in a team environment.

Course Name: Digital Photography using Adobe Photoshop	
Course Code: CSD2209	
CSD2209.1	Installation of Photoshop
CSD2209.2	Photoshop Workspace and Shortcut Keys
CSD2209.3	Layers in Photoshop
CSD2209.4	Demonstrate how to Remove Background of an Image Using Photoshop.
CSD2209.5	Photoshop Brush Tool and Pen Tool
CSD2209.6	Demonstrate how to change colour in Photoshop