B SC Computer Science-course- Outcomes

Course : MPCS and MSCS

SEM	CODE	COURSE TITLE	OUTCOMES
SEM-I	CORE-I	**PROGRAMMING IN C**	**CO-1:** Develops knowledge on basics of computers and Illustrate the flowchart, algorithm, pseudo code for a given problem, build up programs using various data types and operators **CO-2:** Develop conditional and iterative statements for a given problem **CO-3:** Implementing programs using arrays, pointers, dynamic memory management, structures and unions **CO-4:** Develop solution for a given problem using modular approach and perform file handling
SEM-II	CORE-II	**Programming in C++**	**CO-1**: Relate the basic concepts of oops to solve real problems **CO-2:** Demonstrate the creation of objects and access specifiers **CO-3:** Classify the advanced OOPs features like inheritance polymorphism etc. **CO-4**: Demonstrate exception handling, Streams, STL in formulating the solution for a given problem
SEM-III	CORE-III	**DATA STRUCTURES WITH C++**	**CO-1**: Understand basic concepts of data structures and analyse computation complexity **CO-2:** Apply various operations of linear and non-linear data structures **CO-3:** Apply linear data structures to implement stacks ,queues and linked list concepts.

			CO-4: Apply linear data structures to implement various sorting, searching techniques **CO-5**: Apply non-linear data structures to implement Tree traversals ,Graphs Traversals
SEM-IV	CORE-IV	**DATABASE MANAGEMENT SYSTEM**	**CO-1**: Appreciate the underlying concepts of database system architecture and technologies **CO-2**: Develop database schema for a given scenario **CO-3:** Query the database using the relevant programming language CO-4: Design schedules using multiple transactions
SEM-V	CORE-V	**Java Programming**	**CO-1:** Write Java programs using various programming constructs using Java **CO-2:** Solve different mathematical problems using OOP Paradigm **CO-3:** Understand and use Java Collection Framework **CO-4:** Design and analyze the solutions for Thread and database connectivity concepts
	ELECTIVE VII-A ELECTIVE VII-B	**Operating system**	**CO-1:** Identify System calls and evaluate process scheduling criteria of OS **CO-2:** Develop procedures for process synchronization and scheduling services of an OS **CO-3:** Distinguish disk access, file systems supported by an OS **CO-4:** Extend operating systems virtual memory, protection and security aspects

		Software Engineering	**CO-1:** Analyse software engineering framework activities and process models that can be tailored with appropriate methods for developing the projects **CO-2:** Design relevant software system models from the available software requirements and validate desired user model with realistic constraints **CO-3:** Deliver quality software products by applying software testing strategies and product metrics over the entire system life cycle **CO-4:** Specify contemporary issues of handling risk management in Software development
SEM-VI	CORE-VI	**Web technologies**	**CO-1**`Learn Hyper Text Mark-up Language and be able to develop structure and design for web pages. **CO-2:** Learn usage of style sheets in developing the structure and design and fine tuning of web pages. **CO-**3: Learn basic features of JavaScript language and its usage in creating interactive web pages. **CO-4:** Learn JavaScript built-in object features, regular expressions usage, exception handling creating interactive web pages. **CO-5:** Learn the importance of good design and features and concepts relating
	ELECTIVE VIII-A	**Computer Networks**	**CO-1:** Understand modern network architectures from a design and performance perspective **CO-2:** Learn major concepts, principals involved in Data Link Layer and Network Layer **CO-3:** Analyze how to maintain QoS in Network and maintaining of Congestion Control **CO-4:** Get an idea of Application Layer

			functionalities and importance of Security in the Network
	ELECTIVE VII-B	**PHP with My SQL**	**CO-1:.** Create small programs using basic PHP concepts **CO-2:** Apply In-Built and Create User defined functions in PHP programming. **CO-3:.** Design and develop a Web site using form controls for presenting web based content. **CO-4:** Debug the Programmes by applying concepts and error handling techniques of PHP.