Department of Computer Science & Engineering

Course Outcomes of all courses of B Tech 3rd semester CSE

On successful completion of this course, students should be able to

Course		COURSE OUTCOMES
C201 Mathematics-III	C201.1	**Define** Fourier series including half range series, **analyze** Harmonic analysis and variety of its applications. (L**evel. 1,4**)
	C201.2	**Describe** Unit step, Unit impulse, Laplace transforms, its properties, Inverse and applications to **illustrate** ordinary differential equations.**(Level 2)**
	C201.3	**Solve** difficult problems using theorems of complex analysis and **apply** Residue theorem to evaluate real integrals**. (Level 3,6)**
	C201.4	**Formulate** and **solve** by direct integration method Linear equation of first order including Homogeneous and Non-homogeneous Linear equations and also method of separation of variables. (**Level 3,6**)
	C201.5	Hands on these Mathematical topics will make them equipped to **simplify** for higher studies through competitive examinations. (**Level 4**)

On successful completion of this course, students should be able to

Course		COURSE OUTCOMES
C202 Data Structure & Algorithms	C202.1	**Construct** knowledge of the data structures and algorithms on which file structures and data bases are based. (**Level 3**)
	C202.2	**Understand** the importance of data and able to identify the data requirements for an application. (**Level 2**)
	C202.3	**Understand** the practical experience of algorithmic design and their implementations. (**Level 2**)
	C202.4	**Develop** the applications that utilize for the databases. (**Level 6**)
	C202.5	**Understand** the complexity of algorithm and performance (**Level 2**)

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Course		COURSE OUTCOMES
C203 Principles of Programming Languages	C203.1	**Understand** the role of computer science, fundamental software design concepts and notations. **(Level 2)**
	C203.2	**Analyze** various programming language paradigm, processors and software simulation types. **(Level 4)**
	C203.3	**Understand** key concepts in the implementation of common features of programming languages. **(Level 2)**
	C203.4	**Analyze** and Evaluate to use concept of inheritance, polymorphism, template, exception handling, file handling in C++ environment. **(Level 4)**
	C203.5	**Describe** different features of C++ such as composition of objects, Operator overloading, inheritance, Polymorphism etc. **(Level 2)**

On successful completion of this course, students should be able to

Course		COURSE OUTCOMES
C204 Digital Electronics & Logic Design	C204.1	**Apply** digital coding concepts to simplify circuit design. **(Level 3)**
	C204.2	**Analyze** the operation of various logic families and different semiconductors memories. **(Level 4)**
	C204.3	**Design** and **implement** various combinational circuits. **(Level 3,6)**
	C204.4	**Classify** and **relate** digital circuits like RTL, TTL, DTL, MOS and CMOS. **(Level 2, 4)**
	C204.5	**Design** and **demonstrate** finite state machine and semiconductor memories. **(Level 3, 6)**

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Course	COURSE OUTCOMES	
C205 Operating System	C205.1	**Identify** the role of operating system in making computers execute data-processing jobs. **(Level 2)**
	C205.2	**Recognize** managing computers resource complexity during concurrent process execution through OS layers. **(Level 2)**
	C205.3	**Analyze** the reason of resource bottlenecks-concurrency, deadlock and various synchronization mechanism available. **(Level 4)**
	C205.4	**Understand** the function of operating system components in memory management techniques, virtual memory management. **(Level 2)**
	C205.5	**Understand** disk organization, file system structure, secondary storage management functions of OS. **(Level 2)**

On successful completion of this course, students should be able to

Course	COURSE OUTCOMES	
C206 Data Structure & Algorithms Lab	C206.1	**Understand** the importance of abstract data types, structure types and their usability in different applications through different programming platforms. **(Level 2)**
	C206.2	**Implement** various data structure operations on stacks, linked lists, queues, trees and graphs. **(Level 3)**
	C206.3	**Design** and **analyse** the time efficiency of implemented data structures. **(Level 5,6)**
	C206.4	**Identify** the selection of appropriate data structure for given problem solution. **(Level 2)**
	C206.5	**Implement** various kinds of sorting and searching techniques. **(Level 3)**

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Course		COURSE OUTCOMES
C207 Digital Electronics & Logic Design Lab	C207.1	**Classify** about the fundamentals of digital circuit design. **(Level 2)**
	C207.2	**Understand** the concepts of logic families. **(Level 2)**
	C207.3	**Design** and **develop** ICs in VLSI industries. **(Level 6)**
	C207.4	**Understand** the operations of latch circuits, flip flops, counters & semiconductors memories. **(Level 2)**
	C207.5	**Understand** and design and combinational circuit. **(Level 2)**

On successful completion of this course, students should be able to

Course		COURSE OUTCOMES
C208 Operating System (UNIX) Lab	C208.1	**Understand** the concept of Unix and shell programming. **(Level 2)**
	C208.2	**Evaluate** the working of Linux OS Kernel. **(Level 5)**
	C208.3	**Analyze** the differences between features provided in windows and Linux operating system. **(Level 4)**
	C208.4	**Evaluate** the concept of loops and decision making statement. **(Level 5)**
	C208.5	**Analyze** the logic & procedure of problem solving through Scripts. **(Level 4)**

On successful completion of this course, students should be able to

Course	COURSE OUTCOMES	
C209 Software Lab (Sci lab/MATLAB)	C209.1	**Understand** the main features of the MATLAB/SCILAB program development environment to enable their usage in the higher learning. **(Level 2)**
	C209.2	**Evaluate** the power of interactive calculation, programming, graphs, animation in SciLab/MatLab and complete protability across platform. **(Level 5)**
	C209.3	**Create** SciLab/MatLab as a scientific computing and visualization tool. **(Level 6)**
	C209.4	**Examine** interactive computation with matrices arrays of n-dimension. **(Level 4)**
	C209.5	**Evaluate** and interpret simple mathematical functions and operations there on using plots/display. **(Level 5)**