Department of Computer Science & Engineering

Course Outcomes of all courses of B Tech 4th semester CSE

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

Course	COURSE OUTCOMES	
C210 Discrete Mathematics	C210.1	**Develop** a concept mathematical logic, logical equivalence & quantifiers, Boolean functions and can **Apply** Boolean algebra in switching circuits & logic circuits. **(Level 3,6)**
	C210.2	**Apply** set theory, **Explain** relation and functions and can **develop** Lattices & Hasse diagram**(Level 2,3,6)**
	C210.3	**Define** algebraic structures and can state Lagrange's theorem, Isomorphism, Automorphism, Homomorphism **.(level 1)**
	C210.4	**Analyze** graph theory , types of graphs, concept of tree and can **solve** Matrix representation of graphs**.(Level 4,6)**
	C210.5	**Solve** problems related to combinatorics in various fields in computer science, specially networking. **(Level 6)**

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Course	COURSE OUTCOMES	
C211 Computer System Architecture	C211.1	**Create** the basic hardware components of a computer system. **(Level 6)**
	C211.2	**Evaluate** the binary and hexadecimal number systems including computer arithmetic. **(Level 5)**
	C211.3	**Analyze** the functional units of the processor such as the register file and arithmetic logical unit. **(Level 4)**
	C211.4	**Apply** the basics of systems topics: parallel, pipelined, superscalar, and RISC/CISC architectures. **(Level 3)**
	C211.5	**Understand** the representation of data, addressing modes, an instruction sets. **(Level 2)**

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Course	COURSE OUTCOMES	
C212 Database Management Systems	C212.1	**Develop** the basic concepts of DBMS and relational data model. **(Level 6)**
	C212.2	**Understand** the relational database theory & be able to write relational algebra expressions for queries **(Level 2)**
	C212.3	**Understand** DML, DDL and to construct queries using SQL by knowing the importance of data. **(Level 2)**
	C212.4	**Analyze and Evaluate** basic database storage structures and access new techniques. **(Level 4,5)**
	C212.5	**Analyze** and **Extract** knowledge using database techniques. **(Level 4)**

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

Course	COURSE OUTCOMES	
C213 Object Oriented Programming (with Java)	C213.1	**Understand** the concepts of declaring data variable along with its type and flow of control of the programs. **(Level 2)**
	C213.2	**Analyze** functional and procedural abstraction and its importance in good program **design. (Level 4,6)**
	C213.3	**Understand** the basics concepts of exception handling, and Strings **(Level 2)**
	C213.4	**Design** a programming level independent solution to the problem using programming language construct. **(Level 6)**
	C213.5	**Design,** write, **develop**, execute and debug a JAVA programs onto Java programming construct. **(Level 6)**

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

Course	COURSE OUTCOMES	
C214 Design & Analysis Algorithm	C214.1	**Distinguish** the correctness of algorithms using inductive proofs and invariants. **(Level 4)**
	C214.2	**Analyze** and match worst-case running times of algorithms using asymptotic analysis. **(Level 4)**
	C214.3	**Analyze** the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. **(Level 4)**
	C214.4	**Distinguish** and **describe** the dynamic-programming paradigm and explain when an algorithmic design situation calls for it. **(Level 4)**
	C214.5	**Evaluate** the greedy paradigm and explain when an algorithmic design situation calls for it. **(Level 5)**

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Course	COURSE OUTCOMES	
C215 Computer Organization & Architecture Lab	C215.1	**Construct** the hardware part of the computer system and will be able to partition the memory andformat the system. **(Level 6)**
	C215.2	**Apply** different types of OS and BIOS setup and Configuration. **(Level 3)**
	C215.3	**Test** the Circuit using Multimeter and perform continuity test mode, able to draw the schematic. **(Level 6)**
	C215.4	**Design** and simulate digital circuit like multiplexer, demultiplexer and ALU in VHDL. **(Level 6)**
	C215.5	**Apply** terminal Windows for Linux (multiuser and a free and open-source) and DOS (Single User) user OS. **(Level 3)**

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Course	COURSE OUTCOMES	
C216 Object Oriented Programming (with JAVA) Lab	C216.1	**Apply** an integrated development environment to write, compile, run, and test simple object-orientedJava programs. **(Level 3)**
	C216.2	**Implement** Object Oriented programming concept using basic syntaxes of control Structures, stringsand function for developing skills of logic building activity. **(Level 6)**
	C216.3	**Identify** classes, objects, members of a class and the relationships among them needed for a findingthe solution to specific problem. **(Level 2)**
	C216.4	**Illustrate** how to achieve reusability using inheritance, interfaces and packages and describesfaster application development can be achieved. **(Level 2)**
	C216.5	**Understanding** and use of different exception handling mechanisms and concept ofmultithreading for robust faster and efficient application development. **(Level 6)**

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

Course	COURSE OUTCOMES	
C217 Database Management System Laboratory	C217.1	To **understand** efficient DB handling codes in DML, DDL. **(Level 2)**
	C217.2	Will be able to **construct** queries using SQL by knowingthe importance of data & its requirements in any applications. **(Level 6)**
	C217.3	**Develop** codes using efficient database storage structures and access techniques: file and page organizations, indexing methods including B-tree and hashing, transaction processing and concurrency control. **(Level 3)**
	C217.4	To **design** a programs in PL/SQL using cursor, functions, triggers. **(Level 6)**
	C217.5	**Design** programs in PL/SQL, to generate the Report. **(Level 6)**

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

Course	COURSE OUTCOMES	
C218 Virtual laboratory (PHP/MySQL)	C218.1	**Develop** dynamic web designing applications and database handling applications using php. **(Level 6)**
	C218.2	**Design** and **develop** dynamic web page components, interfaces & portals – (Project-based Learning technique). **(Level 6)**
	C218.3	**Create** an associative array using the countries as keys, the cities as values and display the data as a table. **(Level 6)**
	C218.4	**Create** pages for signup and sign-in process using PHP MySQL database operations. **(Level 6)**
	C218.5	**Create** pages for profile updation and deletion of an employee using PHP MySQL. **(Level 6)**