

Department of Artificial Intelligence & Data Science
Course Outcomes of all courses of B Tech 4th semester AIDS

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

Course	COURSE OUTCOMES	
C210 Design and analysis of algorithm	C210.1	Calculate the time complexity of Insertion sort, heap sort, linear and binary search algorithm. (Level 4)
	C210.2	Apply the algorithm and design technique to solve problems related to divide and conquer and Greedy algorithm. (Level 3)
	C210.3	Analyze Dynamic programming problems including matrix chain multiplication, longest Common subsequence and Knapsack problem. (Level 4)
	C210.4	Understand the implementation of Backtracking and Recursive backtracking Method. (Level 2)
	C210.5	Understand the basic concepts of NP-Hard, NP-Complete and branch and bound methods. (Level 2)

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Course	COURSE OUTCOMES	
C211 Database management system	C211.1	Master the basics of SQL and construct queries using MYSQL. (Level 2)
	C211.2	Understand DML, DDL and will be able to construct queries using SQL by knowing the importance of data & its requirement in any applications. (Level 2)
	C211.3	Identify the data models for relevant problems. (Level 1)
	C211.4	Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the respect data into RDBMS and formulate SQL queries on the data. (Level 6)
	C211.5	Analyze normalization for the development of application software 's. (Level 4)

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Course	COURSE OUTCOMES	
C212 Object Oriented Concepts & Programming using Java	C212.1	Study the difference between object oriented programming and procedural oriented language and data types in Java. (Level 1)
	C212.2	Describe different features of Java such as composition of objects, Operator overloading, inheritance, Polymorphism etc. (Level 2)
	C212.3	Implement the concept of memory management, static keywords, pointer concepts constructor. (Level 3)
	C212.4	Analyze and Evaluate to use concept of inheritance, polymorphism, template, exception handling, and file handling in Java environment. (Level 4)
	C212.5	Design at the end of the course students will able to write a program in object-oriented programming and also Build good quality software using object-oriented programming technique using java. (Level 6)

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Course	COURSE OUTCOMES	
C213 Computer system architecture	C213.1	Identify the basic hardware concepts of a computer system design in appropriate formats, addressing modes; an instruction sets as per the system configuration requirements. (Level 1)
	C213.2	Analyzing binary and hexadecimal number system including computer arithmetic. (Level 4)
	C213.3	Outline organization of various parts of system memory hierarchy. (Level 1)
	C213.4	Demonstrate computer architecture concept related to design of modern processor, memories and I/O. (Level 3)
	C213.5	Analyze the basic functionality of system: parallel, pipelined, superscalar and RISC/CISC architecture. (Level 4)

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Course	COURSE OUTCOMES	
C214 Discrete structure	C214.1	Able to apply mathematical logical and Boolean algebra in switching circuit & logic circuits. (Level 3)
	C214.2	Define set theory, relation and functions. (Level 1)
	C214.3	Able to calculate algebraic structure, graph theory and combinatory. (Level 4)
	C214.4	Able to solve problems in various fields in computer science, specially networking. (Level 6)
	C214.5	Analyze logical propositions via truth table. (Level 4)

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Course	COURSE OUTCOMES	
C215 Data Analytics with PYTHON Laboratory	C215.1	Apply operation count for a given pseudo code. (Level 3)
	C215.2	Apply the concepts of Bubble sort for any given list of numbers. (Level 3)
	C215.3	Understand the time complexity of algorithm. (Level 2)
	C215.4	Apply the problem using backtracking. (Level 3)
	C215.5	Apply the Dynamic programming to write programs for the problem . (Level 3)

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Course	COURSE OUTCOMES	
C216 Database Management System Laboratory	C216.1	To understand efficient DB handling codes in DML, DDL. (Level 2)
	C216.2	Will be able to construct queries using SQL by knowing the importance of data & its requirements in any applications. (Level 6)
	C216.3	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)
	C216.4	To design programs in PL/SQL using cursor, functions, triggers. (Level 6)
	C216.5	Design programs in PL/SQL, to generate the Report. (Level 6)

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Course	COURSE OUTCOMES	
C217 Object Oriented Programming (with JAVA) Lab	C217.1	Apply an integrated development environment to write, compile, run, and test simple object-oriented Java programs. (Level 3)
	C217.2	Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity. (Level 6)
	C217.3	Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem. (Level 2)
	C217.4	Illustrate how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved. (Level 2)
	C217.5	Understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development. (Level 6)



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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)