Department of Artificial Intelligence & Data Science
Course Outcomes of all courses of B Tech 3rd semester AIDS

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

Course	COURSE OUTCOMES	
C201 Mathematics -III	C201.1	Students learn about the how to **solve** partial differential equation which arises in mathematical description of situations in engineering.(Level 4)
	C201.2	To make student **understand** that Fourier series method is powerful method where formulas are integrals and to have knowledge of expending periodic functions that explore verity of applications of Fourier series.(Level 2)
	C201.3	Students learn about the how to **solve** mathematical model with Laplace Transform and error functions and their applications.(Level 4)
	C201.4	**Solving** the concept of probability distribution of random variables.(Level 4)
	C201.5	**Explaining** the technique of estimating the values of function for any intermediate value of independent variable. (Level 4)

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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 Operating system	C203.1	**Describe** the basics of the operating systems, mechanisms of OS to handle processes, threads, and their communication.(Level 1)
	C203.2	**Analyze** the memory management and its allocation policies.(Level 4)
	C203.3	**Illustrate** different conditions for deadlock and their possible solutions.(Level 4)
	C203.4	**Explains** the storage management policies with respect to different storage management technologies.(Level 4)
	C203.5	**Evaluate** the concept of the operating system with respect to UNIX, Linux, Time, and mobile OS.(Level 5)

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Course	COURSE OUTCOMES	
C204 Introduction to Python	C204.1	**Understanding** of a programming language syntax and its definition by example **(Level 2)**
	C204.2	**Build** basic programs using NumPy library programming constructs like shape manipulation, array manipulation. **(Level 6)**
	C204.3	**Implementing** use of panda libraries for data handling activity**. (Level 3)**
	C204.4	**Explaining** the use of Matplotlib for data visualization activity like working with multiple figures and axes. **(Level 5)**
	C204.5	**Analyzing** the different concepts of data analysis **(Level 2)**

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

Course	COURSE OUTCOMES	
C205 Digital Electronics & Logic Design	C205.1	**Apply** digital coding concepts to simplify circuit design. **(Level 3)**
	C205.2	**Analyze** the operation of various logic families and different semiconductors memories. **(Level 4)**
	C205.3	**Design** and **implement** various combinational circuits. **(Level 3,6)**
	C205.4	**Classify** and **relate** digital circuits like RTL, TTL, DTL, MOS and CMOS. **(Level 2, 4)**
	C205.5	**Design** and **demonstrate** finite state machine and semiconductor memories. **(Level 3, 6**)

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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 Operating System Lab	C207.1	**Understand** the concept of CPU Scheduling. **(Level 2)**
	C207.2	**Evaluate** the working of CPU Scheduling priority algorithm. **(Level 5)**
	C207.3	**Analyze** the producer-consumer problems using semaphores. **(Level 4)**
	C207.4	**Evaluate** the concept of Dining Philosophers problem. **(Level 5)**
	C207.5	**Analyze** the Dead Lock prevention technique. **(Level 4)**

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

Course	COURSE OUTCOMES	
C208 Digital Electronics & Logic Design Lab	C208.1	**Classify** about the fundamentals of digital circuit design. **(Level 2)**
	C208.2	**Understand** the concepts of logic families. **(Level 2)**
	C208.3	**Design** and **develop** ICs in VLSI industries. **(Level 6)**
	C208.4	**Understand** the operations of latch circuits, flip flops, counters & semiconductors memories. **(Level 2)**
	C208.5	**Understand** and design and combinational circuit. **(Level 2)**

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

Course	COURSE OUTCOMES	
C209 Python Lab	C209.1	**Understand** python for various data structures for data representation and manipulation. **(Level 2)**
	C209.2	**Evaluate** Numpy for data handling. **(Level 5)**
	C209.3	**Create** Pandas for data processing. **(Level 6)**
	C209.4	**Examine** matplotlib for visual representation of data. **(Level 4)**
	C209.5	**Evaluate** the use of matplotlib for working with line chart, histogram, bar charts, pie charts. **(Level 5)**