Department of Artificial Intelligence & Data Science
Course Outcomes of all courses of B Tech 5th semester AIDS

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

Course	COURSE OUTCOMES	
C301 Artificial Intelligence	C301.1	**Apply** AI algorithms for solving practical problems. **(Level 3)**
	C301.2	**Describe** human intelligence and AI. **(Level 2)**
	C301.3	**Explain** how intelligent system works. **(Level 2)**
	C301.4	**Apply** basics of Fuzzy logic and neural networks. **(Level 3)**
	C301.5	Learn about application and **analysis** of planning approaches. **(Level 4)**

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

Course	COURSE OUTCOMES	
C302 Introduction to Machine learning	C302.1	**Understand** wide verity of learning algorithm. **(Level 2)**
	C302.2	**Understand** how to evaluate models generated from data. **(Level 2)**
	C302.3	**Apply** algorithm to real problem. **(Level 3)**
	C302.4	**Evaluating** the model learned and report on the expected accuracy. **(Level 5)**
	C302.5	**Apply** the optimized model. **(Level 3)**

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

Course	COURSE OUTCOMES	
C303 Theory of computation	C303.1	**Design** finite automata to accept set of strings of a language. **(Level 6)**
	C303.2	**Determine** whether the given language is regular or not. **(Level 3)**
	C303.3	**Design** context free grammars to generate strings of context free language. (**Level 6**)
	C303.4	**Design** push down automata and the equivalent context free grammar and design Turing machine. (**Level 6**)
	C303.5	**Distinguish** between computability and non computability, decidability and un-decidability. (**Level 4**)

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Course	COURSE OUTCOMES	
C304 Statistical thinking for Data Science	C304.1	**Describes** concept of data science. **(Level 2)**
	C304.2	**Analyzing** the statistics concept. **(Level 4)**
	C304.3	To **understand** how statistical thinking is useful for Data science. (**Level 2**)
	C304.4	**Designing** of matrix computation and scholastic models. (**Level 6**)
	C304.5	**Applying** predictive analysis and segmentation using clustering. (**Level 3**)
	C304.6	**Define** data visualization, data structure and algorithm and optimization technique. **(Level 1)**

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Course	COURSE OUTCOMES	
C305 Internet of things	C305.1	**Describe** various IoT enabled technologies. **(Level 2)**
	C305.2	**Understand** the concept of M2M with necessary protocols. **(Level 2)**
	C305.3	**Determining** the impact and challenges posed by IoT network leading to new architecture models. (**Level 3**)
	C305.4	**Illustrate** the smart objects and the technologies to connect them to network. (**Level 4**)
	C305.5	**Analyzing** the role of Data analytics and security in IoT. **(Level 4)**

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Course	COURSE OUTCOMES	
C306 Artificial Intelligence & Expert Systems Laboratory	C306.1	Acquire an overview of logic **constructs** for performing inference techniques. (First Order Predicate Calculus) in toy problems /classical problems using PROLOG / LISP syntax. **(Level 3)**
	C306.2	**Develop** confidence in drafting production rules (iterative / recursive) for an AI simulating code, given a story domain. **(Level 3)**
	C306.3	**Understand**, on how to use different data structures (lists, trees, stacks and queues) for solving routing problems and implementing heuristic searches. **(Level 2)**
	C306.4	**Develop** exposure to deal with situations that crop up syntax / compile-time / run-time errors. **(Level 3)**
	C306.5	**Simplify** game playing / puzzle problems using general solution in PROLOG / LISP syntax. **(Level 4)**

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

Course	COURSE OUTCOMES	
C307 Machine Learning Laboratory	C307.1	**Apply** Numpy along with Matplotlib for visual analysis of data. **(Level 3)**
	C307.2	**Apply** Supervised Learning models for problem solving. **(Level 3)**
	C307.3	**Apply** Un-Supervised Learning models for problem solving. **(Level 3)**
	C307.4	**Apply** Artificial Neural Network for problem solving. **(Level 3)**
	C307.5	To **understand** the use of Matplotlib for Simple Interactive Chart, Set the Properties of the Plot, matplotlib and NumPy. **(Level 2)**

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Course	COURSE OUTCOMES	
C308 R Programming Laboratory	C308.1	**Demonstrate** use of basic functions. **(Level 2)**
	C308.2	**Define** artificial intelligence and explain its history and development. **(Level 6)**
	C308.3	**Create** a list of data frame that stores the marks of any three subjects for 10 students. **(Level 6)**
	C308.4	To **create** the different types of artificial intelligence and their application. **(Level 6)**
	C308.5	**Use** artificial intelligence tools and techniques to solve problems. **(Level 2)**

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

Course	COURSE OUTCOMES	
C309 Project-I Laboratory	C309.1	**Apply** theoretical knowledge to practical scenarios effectively, showcasing an understanding of core principles in the vocational field. **(Level 3)**
	C309.2	**Develop** and manage a project plan, including setting objectives, timelines, resource allocation, and documentation. **(Level 6)**
	C309.3	**Understand** and adhere to industry safety standards and regulations, ensuring a safe working environment. **(Level 2)**
	C309.4	**Implement** quality control measures to ensure the output meets industry standards. **(Level 2)**
	C309.5	**Understand** the basics of entrepreneurship, including business planning, financial management, and marketing within the vocational domain. **(Level 2)**