Department of Information Technology
Course Outcomes of all courses of B Tech 5th semester IT

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

Course	COURSE OUTCOMES	
C301 - Artificial Intelligence and Machine Learning	**C301.1**	To **understand** basic concepts of AI, heuristic search techniques, knowledge representation methods and planning for AI solutions. ***(Level 2)***
	C301.2	**Apply** the knowledge and skills of heuristic search and game playing for solving real time problems***(Level 3)***
	C301.3	**Analyze** decisions based on which knowledge representation to use ***(Level 4)***
	C301.4	**Develop** with Natural Languages and implement linear and nonlinear planning ***(Level 6)***
	C301.5	**Apply** suitable Bayesian decision theory for various types of learning problems ***(Level 3)***

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

Course	COURSE OUTCOMES	
C302 - Theory of Computation	C302.1	**Understanding** of algorithms and procedures finite representations for languages and machines.***(Level 2)***
	C302.2	To **construct** finite state machines and minimize them ***(Level 6)***
	C302.3	To **design** regular expressions and to prove the equivalence of languages described by finite state machines and regular
	C302.4	To **design** grammars and simplify context free grammars. ***(Level 6)***
	C302.5	To **construct** pushdown automata and to prove the equivalence of languages described by pushdown automata and context free grammars ***(Level 6)***

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

Course	COURSE OUTCOMES	
C303- Principles of Communication System	C303.1	**Understanding** of Various analog and digital modulation and demodulation techniques..***(Level 2)***
	C303.2	**Classification** of the communication system with analog modulation techniques and their comparative analysis and application suitability. ***(Level 4)***
	C303.3	**Explain** characterization and performance parameters of modulation and demodulation. ***(Level 2)***
	C303.4	**Apply** Analog to digital conversion and digital data transmission. ***(Level 3)***
	C303.5	Digital modulation techniques and their comparative **analysis** along with advanced multiplexing technique. ***(Level 4)***

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Course	COURSE OUTCOMES	
C304 - Software Engineering & Project Management	**C304.1**	**Decide** on a process model for a developing a software project.***(Level 5)***
	C304.2	**Classify** software applications and Identify unique features of various domains. ***(Level 2)***
	C304.3	**Design** test cases of a software system. ***(Level 6)***
	C304.4	**Understand** basics of IT Project management. ***(Level 2)***
	C304.5	**Plan**, schedule and execute a project considering the risk management. ***(Level 3)***

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Course	COURSE OUTCOMES	
C305 - Design and Analysis of Algorithm	**C305.1**	**Apply** design principles and concepts to algorithm design.***(Level 3)***
	C305.2	Have the mathematical foundation in **analysis** of algorithms. ***(Level 4)***
	C305.3	**Understand** different algorithmic design strategies. ***(Level 2)***
	C305.4	**Analyze** the efficiency of algorithms using time and space complexity theory
	C305.5	Knowledge of algorithm **design** strategies ***(Level 6)***

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

Course	COURSE OUTCOMES	
C306- Artificial Intelligence and Machine Learning Lab	C306.1	**Develop** programs for computation of recursive functions like factorial Fibonacci numbers, etc. **(level 3)**
	C306.2	**Understand** Python, and learning interactively at command prompt and writing simple programs. **(level 2)**
	C306.3	**Explain** the conditions and iterations in Python by writing and running simple programs.**(level 2)**
	C306.4	**Analyze** tuples and exercises based on tuples. **(level 4)**
	C306.5	**Identify** unique and duplicate items of a list.**(level 3)**

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

Course	COURSE OUTCOMES	
C307- Software Engineering & Project Management Lab	C307.1	**Understand** software development life cycle (level 2)
	C307.2	**Explain** the need of the software engineering. (level 2)
	C307.3	**Identify** the different requirement engineering tasks.(level 3)
	C307.4	**Identify** various modules, input, output etc. of the system.(level 3)
	C307.5	**Analyze** various elements such as classes, member variables, member functions etc. of the class diagram. (level 4)

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Course	COURSE OUTCOMES	
C308- Principles of Communication System Lab	C308.1	To **Design** the O/P waveform of Amplitude and Frequency Modulation & Demodulation & Calculate Modulation Index.(level 6)
	C308.2	To **Explain** DSB and SSB Transmitter & Receiver. (level 2)
	C308.3	**Design** the Graph of PAM and PPM Modulation & Demodulation.(level 6)
	C308.4	**Analyze** Sampling & Reconstruction of original signal & to calculate the Sampling Frequency.(level 4)
	C308.5	**Analyze** Delta Modulation & Compare it with Adaptive Delta Modulation (ADM). (level 4)