



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

[Sponsored by Lavu Educational Society]

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.)

Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



III B.Tech II Semester

SUBJECT:CS713PE: ARTIFICIAL INTELLIGENCE

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C311.1	Understand the fundamentals of AI and its applications	2
C311.2	Apply search strategies for problem-solving	3
C311.3	Implement knowledge representation and reasoning techniques	6
C311.4	Analyze learning algorithms and expert systems	4
C311.5	Demonstrate teamwork, documentation, and ethical responsibility in AI projects	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	3	2											2	3	
C311.2	3	3	2	2									3	3	
C311.3	3	3	2	2									3	3	
C311.4	3	3	2	2									3	3	
C311.5									3	3			2	2	
Average	3	2.8	2	2					3	3			2.6	2.8	



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SUBJECT: DevOps

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C312.1	Identify components of DevOps environment, Grasp the need for DevOps tools and the fundamental principles behind continuous delivery and integration.	1
C312.2	Apply a variety of tools for project management, integration, and development that align with DevOps methodologies.	3
C312.3	Apply different project management, integration, testing and code deployment tool	3
C312.4	Use tools such as Selenium to perform automated testing on applications.	4
C312.5	Work with build servers like Jenkins to manage build processes, dependencies, and build pipelines.	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C312.1	2	2	2	2	3	1	1	1	2	2	2	2	2	3	2
C312.2	2	3	3	2	2	1	-	1	2	2	2	2	2	2	2
C312.3	3	3	3	3	3	1	-	1	2	2	2	2	2	3	2
C312.4	2	2	2	2	3	1	1	1	2	2	2	2	2	3	2
C312.5	2	3	3	2	2	1	-	1	2	2	2	2	2	2	2
Average	2.2	2.6	2.6	2.2	2.6	1	1	1	2	2	2	2	2	2.6	2



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SUBJECT: CS525PE: NATURAL LANGUAGE PROCESSING

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C313.1	CO1: Understand the fundamentals of natural language processing and linguistic structures	1
C313.2	CO2: Apply morphological, syntactic, and semantic analysis techniques	3
C313.3	CO3: Implement algorithms for part-of-speech tagging, parsing, and machine translation	3
C313.4	CO4: Explore statistical models and machine learning approaches for NLP tasks	4
C313.5	CO5: Demonstrate teamwork, documentation, and communication in NLP-based projects	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C313.1	3	3	2	2	2					2		2	3	2	
C313.2	3	2	3	3	3					2		2	3	3	
C313.3	2	3	3	3	3					3		3	3	3	
C313.4	2	3	3	3	3					2		2	2	3	
C313.5	3	3	3	3	3					2		2	3	3	
Average	2.6	2.8	2.8	2.8	2.8					2.2		2.2	2.8	2.8	



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SUBJECT: CS724PE: INTERNET OF THINGS (PE-III)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C314.1	CO1: Understand IoT architecture, enabling technologies, and communication protocols	1
C314.2	CO2: Analyze sensor networks, embedded systems, and data acquisition techniques	3
C314.3	CO3: Apply cloud integration and data analytics in IoT systems	3
C314.4	CO4: Design IoT applications for smart cities, healthcare, and industrial automation	4
C314.5	CO5: Demonstrate teamwork, documentation, and ethical responsibility in IoT projects	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	3	2	3										2	3	3
C314.2	3	3	2										3	3	2
C314.3	3	3	2										3	3	
C314.4	3	3	2										3	3	
C314.5	2	3	3										2	2	3
Average	2.8	2.8	2.4										2.6	2.8	2.6 7



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SUBJECT: CS702PC: DATA MINING (PE-III)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C314.1	CO1: Understand data mining principles, tasks, and preprocessing techniques	1
C314.2	CO2: Apply classification algorithms like decision trees, Naive Bayes, and rule-based methods	3
C314.3	CO3: Implement clustering techniques such as k-means, hierarchical, and density-based methods	4
C314.4	CO4: Analyze association rule mining and market basket analysis	4
C314.5	CO5: Demonstrate teamwork, documentation, and communication in data mining projects	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	3	2	2	2	3				2	2			3	3	
C314.2	3	3	3	3	3				2	2	2		3	3	
C314.3	3	3	3	3	3				3	2	2		3	3	
C314.4	3	3	3	3	3				3	3	3		3	3	
C314.5	2	2	2	2	2				3	3	3		2	2	
Average	2.8	2.6	2.6	2.6	2.8				2.6	2.4	2.5		2.8	2.8	



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SUBJECT: CS623PE: SCRIPTING LANGUAGES LAB (PE-III)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C314.1	CO1: Understand scripting paradigms and language features of Ruby, Perl, and Tcl	1
C314.2	CO2: Apply scripting techniques for text processing, file handling, and automation tasks	3
C314.3	CO3: Develop CGI scripts and web-based applications using scripting languages	4
C314.4	CO4: Integrate scripting with other programming environments and tools	4
C314.5	CO5: Demonstrate teamwork, documentation, and communication in scripting projects	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	3	2	2		2					2		3	2	2	
C314.2	3	3	2		2					2		2	2	2	
C314.3	3	3	3		3					2		2	2	3	
C314.4	2	2	2		2					2		2	2	2	
C314.5	3	3	2		2					3		2	3	2	
Average	2.8	2.6	2.2		2.2					2.2		2.2	2.2	2.2	



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SUBJECT: CS614PE: MOBILE APPLICATION DEVELOPMENT(PE-III)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C314.1	CO1: Understand the architecture and components of Android OS and development tools	1
C314.2	CO2: Design user interfaces using layouts, views, and resources in Android	4
C314.3	CO3: Develop Android applications using activities, intents, and fragments	6
C314.4	CO4: Implement data storage, content providers, and SQLite in mobile apps	4
C314.5	CO5: Demonstrate teamwork, documentation, and deployment of mobile applications	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	3	2											2	3	
C314.2	3	3	3	3	3					2			2	3	
C314.3	3	2	2	2	3					3		3	2	3	
C314.4	3	3	2	2	2								3	3	
C314.5	2	2	2	2	3					2		2	2	3	
Average	2.8	2.4	2.3	2.3	2.8					2.3		2.5	2.2	3	



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SUBJECT: AI and NLP Lab (Artificial Intelligence and Natural Language Processing)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C316.1	CO1: Apply basic principles of AI in problem solving solutions	3
C316.2	CO2: Show sensitivity to linguistic phenomena and model with grammars	2
C316.3	CO3: Carry out proper experimental methodology for NLP systems	2
C316.4	CO4: Design, implement, and analyze NLP algorithms	5
C316.5	CO5: Demonstrate teamwork, documentation, and ethical responsibility in secure system design	6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C316.1	3	3	3	3	3	2			2	2		2	3	3	
C316.2	3	3	2	2	3	3			2	2		2	3	3	
C316.3	2	2	3	3	2				2	2		2	3	3	
C316.4	3	3	2	3	3	3			2	2		3	3	3	
C316.5									3	3			2	2	
Average	2.8	2.8	2.5	2.8	2.8	2.7			2.2	2.2		2.2 5	2.8	2.8	



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SUBJECT: DevOps Lab

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C317.1	CO1: Identify components of DevOps environment	
C317.2	CO2: Apply different tools for project management and deployment	
C317.3	CO3: Investigate different DevOps Software development models	
C317.4	CO4: Demonstrate continuous integration using Jenkins	
C317.5	CO5: Demonstrate teamwork, ethical responsibility in secure system design and desinging Github	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C317.1	2	2	2	2	3				2	2	2	2	2	3	
C317.2	3	3	3	3	3				2	2	2	2	2	3	
C317.3	2	3	3	3	3				2	2	2	2	2	3	
C317.4	3	3	3	3	3				2	2	3	3	3	3	
C317.5									3	3			2	2	
Average	2.5	2.8	2.8	2.8	3				2.2	2.2	2.2 5	2.2 5	2.2	2.8	



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SUBJECT: CS701PC: CRYPTOGRAPHY AND NETWORK SECURITY (PE_III)

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C318.1	CO1: Understand classical encryption techniques and modern symmetric key ciphers	1
C318.2	CO2: Apply public key cryptography and authentication mechanisms	4
C318.3	CO3: Analyze hash functions, digital signatures, and message authentication codes	6
C318.4	CO4: Evaluate security protocols for network applications (SSL, IPsec, etc.)	4
C318.5	CO5: Demonstrate teamwork, documentation, and ethical responsibility in secure system design	5

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C318.1	3	2	2	2								2	2	3	
C318.2	2	3	3	2								2	3	3	
C318.3	3	3	3	2								2	3	2	
C318.4	3	3	3	2								2	3	3	
C318.5	3	3	3	2								3	3	3	
Average	2.8	2.8	2.8	2								2.2	2.8	2.8	

SUBJECT: *MC609: ENVIRONMENTAL SCIENCE

After going through this course, the student will be able to

S.No.	COURSE OUTCOMES	BT Level
C319.1	CO1: Understand the structure and function of ecosystems	2
C319.2	CO2: Analyze natural resources and their sustainable use	3
C319.3	CO3: Evaluate biodiversity and its conservation strategies	4
C319.4	CO4: Examine environmental pollution and control measures	4
C319.5	CO5: Demonstrate awareness of environmental ethics and disaster management	5

[illegible]