



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

[Sponsored by Lavu Educational Society, Affiliated to JNTUH & Approved by AICTE, New Delhi]
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301. Phone: 96529 10002/3



Department of CSE (Artificial Intelligence & Machine Learning)

II B.Tech II Semester

Subject : CS401PC Discrete Mathematics

CO	Course Outcome (CO) Statement
CO1	Understand and construct precise mathematical proofs
CO2	Apply logic and set theory to formulate precise statements
CO3	Analyze and solve counting problems on finite and discrete structures
CO4	Describe and manipulate sequences
CO5	Apply graph theory in solving computing problems

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2				2	-			2	2		3
CO2	3	3	3	2				2	-			3	3		3
CO3	3	3	3	3				2	3			2	3		2
CO4	3	3	3	3				2	2			3	3		2
CO5	3	3	3	3				2	2			2	3		2
AVERAGE	3	3	2.8	2.6				2	2.3			2.4	2.8		2.4

Subject : CS402PC Automata Theory and Compiler Design

CO	Course Outcome (CO) Statement
CO1	Understand basic concepts of formal languages, grammars, and automata
CO2	Design finite automata and regular expressions for pattern recognition
CO3	Construct context-free grammars and pushdown automata for language processing
CO4	Analyze Turing machines and decidability issues in computation
CO5	Apply theoretical foundations to solve problems in compiler design and software engineering

[illegible]



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Subject : CS404PC Introduction to Artificial Intelligence

CO	Course Outcome (CO) Statement
CO1	Understand search strategies and intelligent agents
CO2	Understand different adversarial search techniques
CO3	Apply propositional logic, predicate logic for knowledge representation
CO4	Apply AI techniques to solve problems of game playing, and machine learning.
CO5	Evaluate the performance of AI systems using appropriate metrics, analyze ethical implications and societal impact of artificial intelligence, and communicate AI solutions effectively while demonstrating awareness of contemporary AI challenges and responsible AI practices.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	2	2	2			2	2	3	2	3	2	
CO2	2	3	3	2	2	2		2	2	2	3		3	2	
CO3	2	3	3	2	2	2		3	3		3	2	3	2	3
CO4	2	3	2	3	2	2		2	3	3	3		3	3	2
CO5	2	3	3	2	3	2		2	3	3	3	3	3	2	2
AVERAGE								2.2				2.3			2.3
GE	2	3	2.6	2.2	2.2	2		5	2.6	2.5	3	3	3	2.2	3



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Subject : CS406PC Database Management Systems Lab

CO	Course Outcome (CO) Statement
CO1	Design and implement relational databases using SQL
CO2	Apply normalization techniques to optimize database design
CO3	Develop queries using relational algebra and SQL for data retrieval
CO4	Implement transaction management and concurrency control mechanisms
CO5	Demonstrate teamwork, documentation, and debugging skills in database projects

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2		1				3				2	2	2
CO2	3	3	3		2				3				2	2	2
CO3	3	3	3		2				2				3	3	2
CO4	3	3	3		3				3				3	3	2
CO5	2	3	3		3				3				3	3	2
AVERAGE	2.6	2.8	2.8		2.2				2.8				2.6	2.6	2



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Subject : CS407PC Java Programming Lab

CO	Course Outcome (CO) Statement
CO1	Apply object-oriented programming concepts using Java
CO2	Implement inheritance, polymorphism, and exception handling
CO3	Develop GUI applications using AWT and Swing
CO4	Use multithreading and file I/O for concurrent and persistent applications
CO5	Demonstrate teamwork, debugging, and documentation skills in Java projects

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	3				2						
CO2	3	3	3	2	2				2				3		
CO3	3	3	3	3	2				2				3	3	
CO4	3	3	3	3	3				3				3	3	
CO5	3	3	3	3	3				3				3	3	
AVERAGE	3	2.8	2.8	2.4	2.6				2.4				3	3	



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Subject : CS408PC Real-time Research Project/Field-Based Research Project

CO	Course Outcome (CO) Statement
CO1	Analyze real-world problems and societal challenges to identify appropriate computing solutions through systematic research and requirement analysis aligned with software development life cycle principles.
CO2	Design and develop innovative software systems or research solutions that address contemporary societal issues by applying appropriate algorithms, technologies, and methodologies.
CO3	Implement and validate real-time project solutions using current software development tools, platforms, and industry-standard practices while ensuring system functionality and reliability.
CO4	Evaluate the social, ethical, environmental, and economic impact of proposed computing solutions on society and demonstrate professional responsibility in project execution.
CO5	Document, present, and defend project outcomes through comprehensive technical reports, presentations, and demonstrations while exhibiting effective communication and teamwork skills.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	3	2			2		2	2	3	3	2	
CO2	3	3	3	3	2			2		2	3	2	3	3	
CO3	3	3	3	2	3			2		2	3	2		3	
CO4	3	3	3	2	3			2			3	2	3		
CO5	2	2	2	2	2			2	3	3	3	2	3	2	
AVERA GE	2.8	2.8	2.6	2.4	2.4			2	3	2.2 5	2.8	2.2	3	2.5	



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Subject : *MC310 Constitution of India

CO	Course Outcome (CO) Statement
CO1	Understand the historical background and philosophy of the Indian Constitution
CO2	Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.
CO3	Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.
CO4	Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution
CO5	Discuss the passage of the Hindu Code Bill of 1956.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						1		3	1	2		2			3
CO2						2		3	2	3		3			3
CO3						2		3	2	2		3			3
CO4						2		3	3	3		3			3
CO5						3		3	3	3		3			3
AVERAGE						2		3	2.2	2.6		2.8			3



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Subject : *MC410 Gender Sensitization Lab

CO	Course Outcome (CO) Statement
CO1	Students will have developed a better understanding of important issues related to gender in contemporary India.
CO2	Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
CO3	Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
CO4	Men and women students and professionals will be better equipped to work and live together as equals.
CO5	Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						2	2	3		2		3			2
CO2						2	3	3		2		3			2
CO3						3	2	3		2		3			3
CO4						3	2	3		3		3			2
CO5						3	2	3		3		3			3
AVERAGE						2.6	2.2	3		2.4		3			2.4