

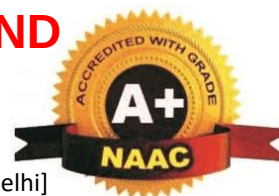


VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

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



COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

VR25 – II B.Tech I Semester : Course Outcomes & CO-PO/PSO Mapping

25MA301BS: MATHEMATICAL AND STATISTICAL FOUNDATIONS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25MA301BS.1	Apply the number theory concepts to cryptography domain.	3
25MA301BS.2	Apply the concepts of probability and distributions to some case studies.	3
25MA301BS.3	Correlate the material of one unit to the material in other units.	4
25MA301BS.4	Resolve the potential misconceptions and hazards in each topic of study.	5
25MA301BS.5	Fit the curve, correlation and regression for the given data.	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25MA301BS.1	3	3	2	2	2	1	-	-	-	-	1	3	2	1
25MA301BS.2	3	3	2	3	2	1	-	1	1	-	1	3	2	1
25MA301BS.3	2	3	2	2	1	-	-	1	1	-	2	2	1	1
25MA301BS.4	2	3	2	3	2	1	1	2	2	1	2	2	1	1
25MA301BS.5	3	3	3	3	2	1	-	1	1	1	2	3	2	1
Average	2.6	3.0	2.2	2.6	1.8	0.8	0.2	1.0	1.0	0.4	1.6	2.6	1.6	1.0

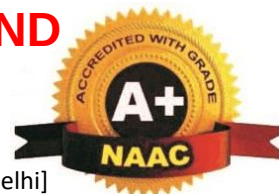


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25EC302PC: COMPUTER ORGANIZATION AND ARCHITECTURE

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25EC302PC.1	Apply the number theory concepts to cryptography domain.	3
25EC302PC.2	Apply the concepts of probability and distributions to some case studies	3
25EC302PC.3	Correlate the material of one unit to the material in other units.	4
25EC302PC.4	Resolve the potential misconceptions and hazards in each topic of study	5
25EC302PC.5	Fit the curve, correlation and regression for the given data.	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25EC302PC.1	3	2	1	1	2	-	-	-	-	-	1	3	2	1
25EC302PC.2	3	3	1	2	2	-	-	-	-	-	1	3	2	1
25EC302PC.3	2	3	1	2	1	-	-	-	-	-	2	2	1	1
25EC302PC.4	2	3	2	3	1	1	2	1	1	-	2	2	1	1
25EC302PC.5	3	3	2	3	2	-	-	-	-	-	1	3	2	2
Average	2.6	2.8	1.4	2.2	1.6	0.2	0.4	0.2	0.2	0.0	1.4	2.6	1.6	1.2

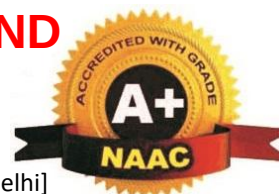


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25CS303PC : OBJECT ORIENTED PROGRAMMING THROUGH JAVA

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25CS303PC.1	Demonstrate the behavior of programs involving the basic programming constructs like control structures, constructors, string handling and garbage collection.	2
25CS303PC.2	Demonstrate the implementation of inheritance (multilevel, hierarchical and multiple) by using extend and implement keywords	3
25CS303PC.3	Use multithreading concepts to develop inter process communication.	3
25CS303PC.4	Understand the process of graphical user interface design and implementation using AWT or swings.	2
25CS303PC.5	Develop applets that interact abundantly with the client environment and deploy on the server.	3

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25CS303PC.1	3	2	1	1	2	-	-	-	-	-	1	3	2	1
25CS303PC.2	3	3	2	1	2	-	-	-	-	-	1	3	3	1
25CS303PC.3	3	3	3	2	3	-	-	1	-	-	1	3	3	2
25CS303PC.4	2	2	3	1	3	-	-	1	1	-	1	2	3	2
25CS303PC.5	3	3	3	2	3	-	-	1	1	-	2	3	3	3
Average	2.8	2.6	2.4	1.4	2.6	0.0	0.0	0.6	0.4	0.0	1.2	2.8	2.8	1.8

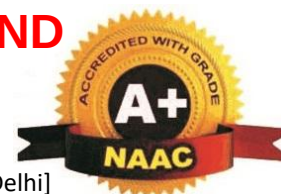


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25IT304PC: SOFTWARE ENGINEERING

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25IT304PC.1	Demonstrate the behavior of programs involving the basic programming constructs like control structures, constructors, string handling and garbage collection.	2
25IT304PC.2	Demonstrate the implementation of inheritance (multilevel, hierarchical and multiple) by using extend and implement keywords	3
25IT304PC.3	Use multithreading concepts to develop inter process communication.	3
25IT304PC.4	Understand the process of graphical user interface design and implementation using AWT or swings.	2
25IT304PC.5	Develop applets that interact abundantly with the client environment and deploy on the server.	3

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25IT304PC.1	3	2	1	1	2	-	-	-	-	-	1	3	2	1
25IT304PC.2	3	3	2	1	2	-	-	-	-	-	1	3	3	1
25IT304PC.3	3	3	3	2	3	-	-	1	1	-	1	3	3	2
25IT304PC.4	2	2	3	1	3	-	-	1	1	-	1	2	3	2
25IT304PC.5	3	3	3	2	3	-	-	1	1	-	2	3	3	3
Average	2.8	2.6	2.4	1.4	2.6	0.0	0.0	0.6	0.4	0.0	1.2	2.8	2.8	1.8

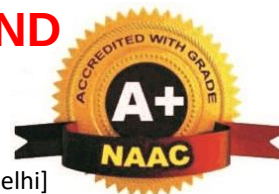


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25CS305PC: DATABASE MANAGEMENT SYSTEM

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25CS305PC.1	Demonstrate the behavior of programs involving the basic programming constructs like control structures, constructors, string handling and garbage collection.	2
25CS305PC.2	Demonstrate the implementation of inheritance (multilevel, hierarchical and multiple) by using extend and implement keywords	3
25CS305PC.3	Use multithreading concepts to develop inter process communication.	3
25CS305PC.4	Understand the process of graphical user interface design and implementation using AWT or swings.	2
25CS305PC.5	Develop applets that interact abundantly with the client environment and deploy on the server.	3

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25CS305PC.1	3	2	1	1	2	–	–	–	–	–	1	3	2	1
25CS305PC.2	3	3	2	1	2	–	–	–	–	–	1	3	3	1
25CS305PC.3	3	3	3	2	3	–	–	1	1	–	1	3	3	2
25CS305PC.4	2	2	2	1	3	–	–	1	1	–	1	2	3	2
25CS305PC.5	3	3	3	2	3	–	–	1	1	–	2	3	3	3
Average	2.8	2.6	2.2	1.4	2.6	0.0	0.0	0.6	0.	0.0	1.2	2.8	2.8	1.8

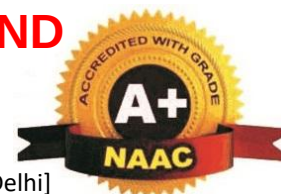


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25MA306PC: COMPUTATIONAL MATHEMATICS LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25MA306PC.1	Develop the code to find the Eigen values and Eigen Vectors using Python/MATLAB.	3
25MA306PC.2	Develop the code find solution of Algebraic and Transcendental Equations and Linear system of equations using Python/MATLAB	3
25MA306PC.3	Write the code to solve problems of First-Order ODEs Higher order linear differential equations with constant coefficients	3
25MA306PC.4	Analyze numerical accuracy, convergence, and computational efficiency of algorithms used for eigenvalue problems, equation solving, and differential equations while implementing them using Python/MATLAB.	4
25MA306PC.5	Apply numerical methods using Python/MATLAB to model, solve, and interpret real-world engineering problems involving linear algebra and differential equations.	3

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25MA306PC.1	3	2	2	2	3	–	–	–	–	–	1	3	3	2
25MA306PC.2	3	3	2	2	3	–	–	–	–	–	1	3	3	2
25MA306PC.3	3	3	2	2	3	–	–	–	–	–	1	3	3	2
25MA306PC.4	3	3	2	3	2	–	–	–	–	–	2	3	2	2
25MA306PC.5	3	3	3	3	3	1	–	1	1	–	2	3	3	3
Average	3.0	2.8	2.2	2.4	2.8	0.2	0.0	0.2	0.2	0.0	1.4	3.0	2.8	2.2

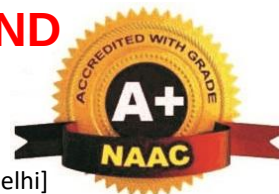


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25CS307PC : OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25CS307PC.1	Able to write programs for solving real world problems using the java collection framework.	3
25CS307PC.2	Able to write programs using abstract classes.	3
25CS307PC.3	Able to write multithreaded programs.	3
25CS307PC.4	Able to write GUI programs using swing controls in Java.	3
25CS307PC.5	Apply exception handling, file handling, and Java Collection Framework concepts to develop robust and efficient Java applications.	3
25CS307PC.6	Design and implement event-driven and concurrent Java applications using GUI components, multithreading, and inter-thread communication.	6

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25CS307PC.1	3	3	2	1	3	–	–	–	–	–	1	3	3	2
25CS307PC.2	3	2	2	1	2	–	–	–	–	–	1	3	3	1
25CS307PC.3	3	3	3	2	3	–	–	1	–	–	1	3	3	2
25CS307PC.4	2	2	3	1	3	–	–	1	1	–	1	2	3	2
25CS307PC.5	3	3	3	2	3	–	–	1	1	–	1	3	3	2
25CS307PC.6	3	3	3	3	3	–	–	2	2	1	2	3	3	3
Average	2.83	2.67	2.67	1.67	2.83	0.00	0.00	0.83	0.67	0.17	1.17	2.83	3.00	2.00

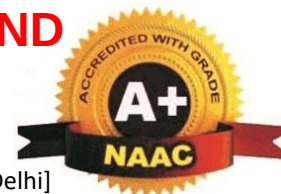


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25IT308PC: SOFTWARE ENGINEERING LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25IT308PC.1	Ability to translate end-user requirements into system and software requirements	3
25IT308PC.2	Ability to generate a high-level design of the system from the software requirements	6
25IT308PC.3	Will have experience and/or awareness of testing problems and will be able to develop a simple testing report	3
25IT308PC.4	Prepare and maintain software engineering documents including SRS, design specifications, configuration management, and risk management documents following standard practices.	6
25IT308PC.5	Apply CASE tools and software testing techniques to design systems and to develop unit, integration, white-box, and black-box test cases.	3

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25IT308PC.1	3	3	2	1	1	–	–	1	2	–	1	3	2	1
25IT308PC.2	3	3	3	2	2	–	–	1	2	1	1	3	3	2
25IT308PC.3	2	3	2	3	2	–	–	1	1	–	1	2	3	2
25IT308PC.4	2	2	3	2	1	–	1	1	3	2	2	2	2	1
25IT308PC.5	3	3	3	3	3	–	–	1	1	–	1	3	3	2
Average	2.6	2.8	2.6	2.2	1.8	0.0	0.2	1.0	1.8	0.6	1.2	2.6	2.6	1.6

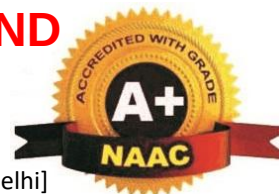


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25CS309PC: DATABASE MANAGEMENT SYSTEMS LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25CS309PC.1	Design database schema for a given application and apply normalization	6
25CS309PC.2	Acquire skills in using SQL commands for data definition and data manipulation.	3
25CS309PC.3	Develop solutions for database applications using procedures, cursors and triggers	6
25CS309PC.4	Apply advanced SQL concepts including joins, subqueries, aggregate functions, views, and constraints to efficiently retrieve and manage relational data.	3
25CS309PC.5	Design and implement database programs using triggers, stored procedures, and cursors to enforce business rules and support database-driven applications.	6

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25CS309PC.1	3	3	3	2	2	–	–	–	–	–	1	3	3	2
25CS309PC.2	3	2	2	1	3	–	–	–	–	–	1	3	3	2
25CS309PC.3	3	3	3	2	3	–	–	1	–	–	1	3	3	3
25CS309PC.4	3	3	2	2	3	–	–	–	–	–	1	3	3	2
25CS309PC.5	3	3	3	3	3	–	–	1	1	–	2	3	3	3
Average	3.0	2.8	2.6	2.0	2.8	0.0	0.0	0.4	0.2	0.0	1.2	3.0	3.0	2.4

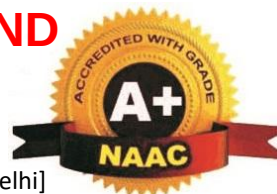


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25ML310SD: NODE JS/ REACT JS/ DJANGO

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
25ML310SD.1	Build a custom website with HTML, CSS, and Bootstrap and little JavaScript.	6
25ML310SD.2	Demonstrate Advanced features of JavaScript and learn about JDBC	3
25ML310SD.3	Develop Server – side implementation using Java technologies	6
25ML310SD.4	Develop the server – side implementation using Node JS.	6
25ML310SD.5	Design a Single Page Application using React.	6

MAPPING:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
25ML310SD.1	3	2	3	1	3	–	–	1	1	–	1	3	3	2
25ML310SD.2	3	3	2	1	3	–	–	–	–	–	1	3	3	2
25ML310SD.3	3	3	3	2	3	–	–	1	–	–	1	3	3	3
25ML310SD.4	3	3	3	2	3	–	–	1	–	–	1	3	3	3
25ML310SD.5	3	3	3	2	3	–	–	1	1	–	2	3	3	3
Average	3.0	2.8	2.8	1.6	3.0	0.0	0.0	0.8	0.4	0.0	0.4	3.0	3.0	2.6