

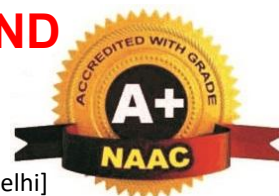


VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(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)

R22 – IV B.Tech I Semester : Course Outcomes & CO-PO/PSO Mapping

DS743PE: PREDICTIVE ANALYTICS

COURSE CODE	COURSE OUTCOMES	BT Level
DS743PE.1	Understand the processing steps, types of analytics, and applications involved in setting up predictive analytics problems, including business understanding and identification of target variables.	2
DS743PE.2	Apply the concepts of prediction effect, model deployment, and measures of success to build predictive models with integrity, ethics, and responsibility.	3
DS743PE.3	Analyze and apply machine learning techniques such as decision trees, logistic regression, neural networks, kNN, and Bayesian methods to build regression and predictive models.	4
DS743PE.4	Evaluate the effect of model ensembles such as bagging, boosting, random forests, and stochastic gradient boosting in improving predictive model performance.	5
DS743PE.5	Apply predictive analytics techniques to real world case studies including survey analysis, question answering, text mining, and persuasion by numbers.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS743PE.1	3	3	2	2	2						2		3	2	
DS743PE.2	3	2	3	2	2						2		3	2	2
DS743PE.3	3	3	3	3	2						3		3	3	
DS743PE.4	3	3	3	2	2						3		3	2	
DS743PE.5	3	2	3	3	2						2		3	2	2
Average	3	2.6	2.8	2.4	2						2.4		3	2.2	2

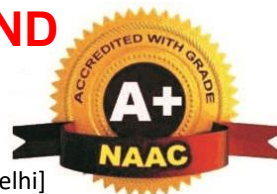


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DS702PC: WEB AND SOCIAL MEDIA ANALYTICS

COURSE CODE	COURSE OUTCOMES	BT Level
DS702PC.1	Knowledge on decision support systems.	1
DS702PC.2	Apply natural language processing concepts on text analytics.	3
DS702PC.3	Understand sentiment analysis.	2
DS702PC.4	Knowledge on search engine optimization and web analytics.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS702PC.1	3	2	2	2	2						2		3	2	
DS702PC.2	3	3	2	2	2						2		3	3	2
DS702PC.3	3	2	2	2	2						2		3	2	
DS702PC.4	3	2	2	2	3						2		3	2	2
Average	3	2.3	2	2	2.3						2		3	2.3	2

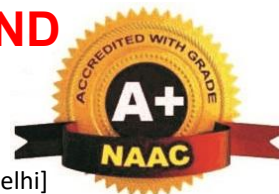


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PROFESSIONAL ELECTIVE – IV

DS741PE: QUANTUM COMPUTING

COURSE CODE	COURSE OUTCOMES	BT Level
DS741PE.1	Understand basics of quantum computing.	2
DS741PE.2	Understand physical implementation of Qubit.	2
DS741PE.3	Understand Quantum algorithms and their implementation.	3
DS741PE.4	Understand the Impact of Quantum Computing on Cryptography.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS741PE.1	3	2	2	2	2						2		3	2	
DS741PE.2	3	2	2	2	2						2		3	2	
DS741PE.3	3	3	3	2	2						2		3	3	2
DS741PE.4	3	3	2	2	3						2		3	3	2
Average	3	2.5	2.3	2	2.3						2		3	2.5	2

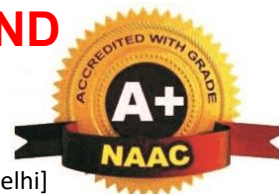


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PROFESSIONAL ELECTIVE – IV

DS742PE: DATABASE SECURITY

COURSE CODE	COURSE OUTCOMES	BT Level
DS742PE.1	Identify database security problems.	1
DS742PE.2	Implement different security models.	3
DS742PE.3	Provide security for software design.	3
DS742PE.4	Protect object-oriented systems.	4
DS742PE.5	Handle security issues for active databases.	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS742PE.1	3	2	2	2	2						2		3	2	
DS742PE.2	3	2	3	2	2						2		3	2	2
DS742PE.3	3	2	3	2	2						2		3	2	
DS742PE.4	3	3	3	2	3						3		3	3	2
DS742PE.5	3	3	3	3	2						3		3	3	2
Average	3	2.4	2.8	2.2	2.2						2.4		3	2.4	2

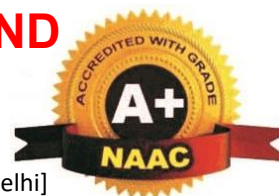


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PROFESSIONAL ELECTIVE – IV

DS743PE: NATURAL LANGUAGE PROCESSING

COURSE CODE	COURSE OUTCOMES	BT Level
DS743PE.1	Show sensitivity to linguistic phenomena and an ability to model them with formal grammars.	3
DS743PE.2	Understand and carry out proper experimental methodology for training and evaluating empirical NLP systems.	3
DS743PE.3	Able to manipulate probabilities, construct statistical models over strings and trees, and estimate parameters using supervised and unsupervised training methods.	3
DS743PE.4	Able to design, implement, and analyze NLP algorithms; and design different language modeling techniques.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS743PE.1	3	2	2	2	2						2		3	2	
DS743PE.2	3	2	2	2	2						2		3	2	2
DS743PE.3	3	3	3	2	2						2		3	3	2
DS743PE.4	3	3	3	3	2						3		3	3	2
Average	3	2.5	2.5	2.3	2						2.3		3	2.5	2

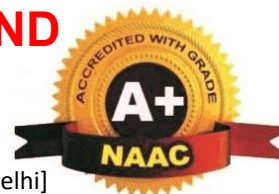


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PROFESSIONAL ELECTIVE – IV

DS744PE: INFORMATION STORAGE MANAGEMENT

COURSE CODE	COURSE OUTCOMES	BT Level
DS744PE.1	Understand the evolution of storage technology and Intelligent Storage Systems.	2
DS744PE.2	Explore the key concepts of various Storage Networking Technologies - DAS, SANs, NAS and CAS.	2
DS744PE.3	Understand the basics of Storage Virtualization.	2
DS744PE.4	Understand the concepts of Storage security and Storage Infrastructure Management.	2
DS744PE.5	Analyze the purpose of backup, recovery and replication Strategies.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS744PE.1	3	2	2	2	2						2		3	2	
DS744PE.2	3	3	2	2	3						2		3	2	2
DS744PE.3	3	2	2	2	2						2		3	2	
DS744PE.4	3	2	2	3	2						2		3	3	2
DS744PE.5	3	3	3	2	2						3		3	3	
Average	3	2.4	2.2	2.2	2.2						2.2		3	2.4	2

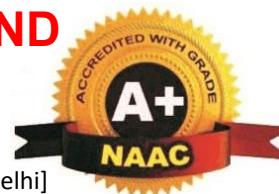


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PROFESSIONAL ELECTIVE – IV

DS745PE: INTERNET OF THINGS

COURSE CODE	COURSE OUTCOMES	BT Level
DS745PE.1	Interpret the impact and challenges posed by IoT networks leading to new architectural models.	2
DS745PE.2	Compare and contrast the deployment of smart objects and the technologies to connect them to network.	4
DS745PE.3	Appraise the role of IoT protocols for efficient network communication.	5
DS745PE.4	Identify the applications of IoT in Industry.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS745PE.1	3	2	2	2	2						2		3	2	
DS745PE.2	3	3	3	2	3						2		3	2	2
DS745PE.3	3	3	2	2	2						2		3	3	2
DS745PE.4	3	2	2	2	3						2		3	2	
Average	3	2.5	2.3	2	2.5						2		3	2.3	2

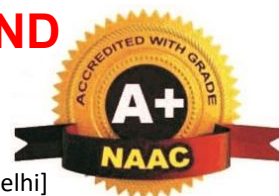


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PROFESSIONAL ELECTIVE – V

DS751PE: PRIVACY PRESERVING DATA PUBLISHING

COURSE CODE	COURSE OUTCOMES	BT Level
DS751PE.1	Understand the concepts of Privacy Preserving Data Mining Models and Algorithms.	2
DS751PE.2	Demonstrate a comprehensive understanding of different tasks associated in Inference Control Methods for Privacy-Preserving Data Mining.	3
DS751PE.3	Understand the concepts of Data Anonymization Methods and its Measures.	2
DS751PE.4	Evaluate and Appraise the solution designed for Multiplicative Perturbation.	5
DS751PE.5	Formulate, Design and Implement the solutions for Utility-based Privacy Preserving Data.	6

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS751PE.1	3	2	2	2	2						2		3	2	
DS751PE.2	3	3	2	2	2						2		3	2	2
DS751PE.3	3	2	2	2	2						2		3	2	
DS751PE.4	3	3	3	2	3						3		3	3	2
DS751PE.5	3	3	3	3	2						3		3	3	2
Average	3	2.6	2.4	2.2	2.2						2.4		3	2.4	2

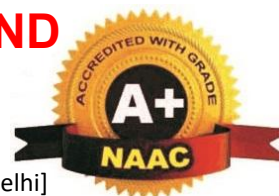


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PROFESSIONAL ELECTIVE – V

DS752PE: CLOUD COMPUTING

COURSE CODE	COURSE OUTCOMES	BT Level
DS752PE.1	Understand different computing paradigms and potential of the paradigms and specifically cloud computing.	2
DS752PE.2	Understand cloud service types, cloud deployment models and technologies supporting and driving the cloud.	2
DS752PE.3	Acquire the knowledge of programming models for cloud and development of software application that runs the cloud and various services available from major cloud providers.	3
DS752PE.4	Understand the security concerns and issues in cloud computing.	2
DS752PE.5	Acquire the knowledge of advances in cloud computing.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS752PE.1	3	2	2	2	2						2		3	2	
DS752PE.2	3	2	2	2	2						2		3	2	2
DS752PE.3	3	3	3	2	3						2		3	3	2
DS752PE.4	3	2	2	2	2						2		3	2	
DS752PE.5	3	2	2	2	2						2		3	2	
Average	3	2.2	2.2	2	2.2						2		3	2.2	2

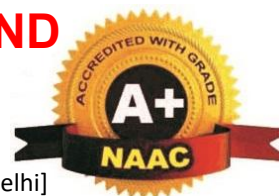


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PROFESSIONAL ELECTIVE – V

DS753PE: DATA SCIENCE APPLICATIONS

COURSE CODE	COURSE OUTCOMES	BT Level
DS753PE.1	Explore data science applications across various domains, along with recommender systems, to identify challenges and opportunities for data scientists.	2
DS753PE.2	Analyze time series data and supply chain case studies to forecast stock market movements and solve real-world logistics problems.	4
DS753PE.3	Correlate data science techniques with applications in education and social media to provide solutions to modern problems.	4
DS753PE.4	Apply data science techniques to solve problems in healthcare and bioinformatics.	3
DS753PE.5	Decide and implement appropriate data optimization techniques using Python for real-world case studies.	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS753PE.1	3	2	2	2	2						2		3	2	
DS753PE.2	3	3	2	3	2						2		3	3	2
DS753PE.3	3	3	2	3	2						2		3	3	2
DS753PE.4	3	2	3	2	2						2		3	2	2
DS753PE.5	3	3	3	2	2						3		3	3	2
Average	3	2.6	2.4	2.4	2						2.2		3	2.6	2

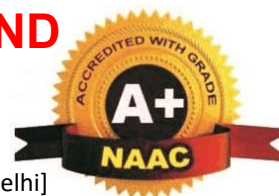


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PROFESSIONAL ELECTIVE – V

DS754PE: MINING MASSIVE DATASETS

COURSE CODE	COURSE OUTCOMES	BT Level
DS754PE.1	Understand the fundamental concepts and challenges involved in mining massive datasets using practical algorithms.	2
DS754PE.2	Apply parallel algorithmic techniques to process and analyze large-scale massive datasets.	3
DS754PE.3	Analyze stream processing algorithms to handle data streams that arrive continuously.	4
DS754PE.4	Evaluate page ranking algorithms used for web search applications.	5
DS754PE.5	Design online advertisement systems using appropriate data mining and optimization techniques.	6

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS754PE.1	3	2	2	2	2						2		3	2	
DS754PE.2	3	3	3	2	3						2		3	3	2
DS754PE.3	3	3	3	2	2						2		3	3	2
DS754PE.4	3	3	2	3	2						3		3	3	2
DS754PE.5	3	3	3	3	2						3		3	3	2
Average	3	2.8	2.6	2.4	2.2						2.4		3	2.8	2

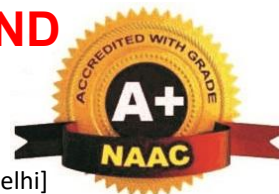


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PROFESSIONAL ELECTIVE – V

DS755PE: EXPLORATORY DATA ANALYSIS

COURSE CODE	COURSE OUTCOMES	BT Level
DS755PE.1	Apply the Epicycle of Analysis process effectively.	3
DS755PE.2	Articulate and refine data-related questions using the Epicycle approach.	3
DS755PE.3	Conduct Exploratory Data Analysis (EDA).	3
DS755PE.4	Develop the skills necessary to use formal modeling techniques for data inference.	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS755PE.1	3	2	2	2	2						2		3	2	
DS755PE.2	3	2	2	2	2						2		3	2	2
DS755PE.3	3	3	2	2	3						2		3	3	2
DS755PE.4	3	3	3	2	2						3		3	3	2
Average	3	2.5	2.3	2	2.3						2.3		3	2.5	2

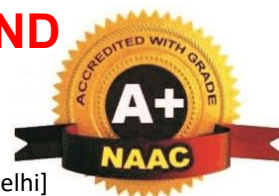


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PROFESSIONAL ELECTIVE – VI

DS861PE: DATA STREAM MINING

S.No.	COURSE OUTCOMES	BT Level
DS861PE.1	Understand how to formulate a knowledge extraction problem from data streams.	2
DS861PE.2	Ability to apply methods/algorithms to new data stream analysis problems.	3
DS861PE.3	Evaluate the results and understand the functioning of the methods studied.	5
DS861PE.4	Demonstrate decision tree and adaptive Hoeffding Tree concepts.	3
DS861PE.5	Analyze various mining strategies and algorithms used for real-time data stream processing.	4

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS861PE.1	3	2	2	2	2						2		3	2	
DS861PE.2	3	3	2	2	3						2		3	3	2
DS861PE.3	3	3	3	2	2						3		3	3	2
DS861PE.4	3	2	3	2	3						2		3	3	2
DS861PE.5	3	3	3	2	2						3		3	3	2
Average	3	2.6	2.6	2	2.4						2.4		3	2.8	2

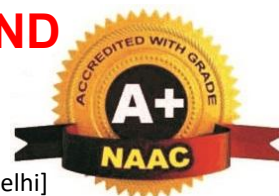


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OPEN ELECTIVE – II

DS721OE: DATA MINING

COURSE CODE	COURSE OUTCOMES	BT Level
DS721OE.1	Understand the need of data mining and pre-processing techniques.	2
DS721OE.2	Perform market basket analysis using association rule mining.	3
DS721OE.3	Utilize classification techniques for analysis and interpretation of data.	3
DS721OE.4	Identify appropriate clustering and outlier detection techniques to handle complex data.	4
DS721OE.5	Understand the mining of data from web, text and time series data.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS721OE.1	3	2	2	2	2						2		3	2	
DS721OE.2	3	3	2	2	3						2		3	3	2
DS721OE.3	3	3	3	2	2						2		3	3	2
DS721OE.4	3	3	3	2	2						3		3	3	2
DS721OE.5	3	2	2	2	2						2		3	2	
Average	3	2.6	2.4	2	2.2						2.2		3	2.6	2

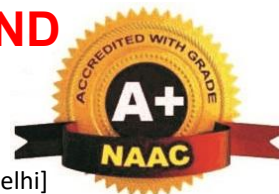


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OPEN ELECTIVE – II

DS722OE: DATA ANALYTICS

COURSE CODE	COURSE OUTCOMES	BT Level
DS722OE.1	Understand the impact of data analytics for business decisions and strategy.	2
DS722OE.2	Carry out data analysis/statistical analysis.	3
DS722OE.3	Carry out standard data visualization and formal inference procedures.	3
DS722OE.4	Design Data Architecture.	6
DS722OE.5	Understand various Data Sources.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS722OE.1	3	2	2	2	2						2		3	2	
DS722OE.2	3	3	2	2	3						2		3	3	2
DS722OE.3	3	2	3	2	3						2		3	3	2
DS722OE.4	3	3	3	3	2						3		3	3	2
DS722OE.5	3	2	2	2	2						2		3	2	
Average	3	2.4	2.4	2.2	2.4						2.2		3	2.6	2

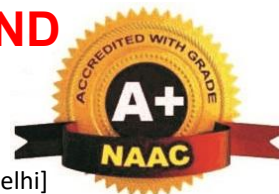


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LABORATORIES

DS703PC: PREDICTIVE ANALYTICS LAB

COURSE CODE	COURSE OUTCOMES	BT Level
DS703PC.1	Understand the processing steps for predictive analytics.	2
DS703PC.2	Construct and deploy prediction models with integrity.	3
DS703PC.3	Explore various techniques (machine learning/data mining, ensemble) for predictive analytics.	2
DS703PC.4	Apply predictive analytics to real world examples.	3
DS703PC.5	Evaluate the performance of predictive models built using tools such as Python, SPSS, SAS, R and Power BI.	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS703PC.1	3	2	2	2	2						2		3	2	
DS703PC.2	3	3	3	2	3						2		3	3	2
DS703PC.3	3	2	2	2	2						2		3	2	
DS703PC.4	3	3	2	3	3						3		3	3	2
DS703PC.5	3	3	3	3	2						3		3	3	2
Average	3	2.6	2.4	2.4	2.4						2.4		3	2.6	2

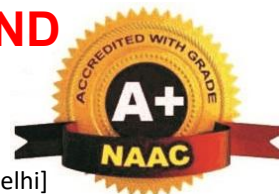


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DS704PC: WEB AND SOCIAL MEDIA ANALYTICS LAB

COURSE CODE	COURSE OUTCOMES	BT Level
DS704PC.1	Knowledge on decision support systems.	1
DS704PC.2	Apply natural language processing concepts on text analytics.	3
DS704PC.3	Understand sentiment analysis.	2
DS704PC.4	Knowledge on search engine optimization and web analytics.	1
DS704PC.5	Use Google Analytics tools to analyze web traffic, conversion statistics and visitor profiles.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DS704PC.1	3	2	2	2	2						2		3	2	
DS704PC.2	3	3	2	2	2						2		3	3	2
DS704PC.3	3	2	2	2	2						2		3	2	
DS704PC.4	3	2	2	2	3						2		3	2	2
DS704PC.5	3	2	2	3	3						2		3	3	2
Average	3	2.2	2	2.2	2.4						2		3	2.4	2