

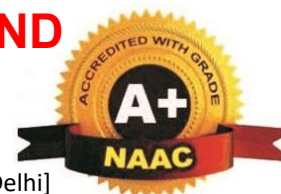


VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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



COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

VR24 – IV B.Tech I Semester : Course Outcomes & CO-PO/PSO Mapping

DS701PC: PREDICTIVE ANALYTICS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS701PC.1	Understand the complete processing steps involved in predictive analytics	2
DS701PC.2	Develop the ability to construct, evaluate, and deploy predictive models responsibly	6
DS701PC.3	Gain knowledge of machine learning, data mining, and ensemble techniques for prediction	2
DS701PC.4	Apply predictive analytics techniques to real-world problem scenarios	3
DS701PC.5	Perform data preprocessing and feature engineering for effective predictive modeling	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS701PC.1	3	2	-	1	2	-	-	-	-	-	-	3	2	2
DS701PC.2	3	3	3	2	3	-	-	1	-	-	-	3	3	3
DS701PC.3	3	2	1	2	2	-	-	-	-	-	-	3	3	2
DS701PC.4	2	3	2	3	3	-	-	-	-	-	-	3	3	3
DS701PC.5	2	3	2	3	3	-	-	-	-	-	-	3	3	3
Average	2.6	2.6	2.0	2.2	2.6	-	-	1.0	-	-	-	3.0	2.8	2.6

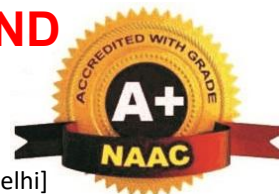


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DS702PC: WEB AND SOCIAL MEDIA ANALYTICS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS702PC.1	Understand the fundamentals of decision support systems.	2
DS702PC.2	Apply natural language processing techniques for text analytics.	3
DS702PC.3	Use web analytics and search engine optimization techniques.	3
DS702PC.4	Analyze and interpret sentiments from textual data.	4
DS702PC.5	Apply social media and social network analytics for decision-making.	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS702PC.1	3	2	-	1	2	-	-	-	-	-	-	3	2	2
DS702PC.2	2	3	2	2	3	-	-	-	-	-	-	3	3	2
DS702PC.3	2	2	2	2	3	-	-	-	-	-	-	2	3	2
DS702PC.4	2	3	2	3	3	-	-	-	-	-	-	3	3	3
DS702PC.5	2	3	2	3	3	-	-	-	-	-	-	3	3	3
Average	2.2	2.6	2.0	2.2	2.8	-	-	-	-	-	-	2.8	2.8	2.4

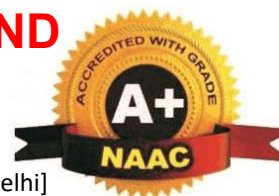


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PROFESSIONAL ELECTIVE – IV

DS741PE: QUANTUM COMPUTING

COURSE OUTCOME:

CO.No.	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.	2
DS741PE.4	Understand The Impact of Quantum Computing on Cryptography Apply social media and social network analytics for decision-making	2
DS741PE.5	Analyze the security implications of quantum computing.	4

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
MS801BS.1	3	2	-	-	2	-	-	-	-	-	-	3	2	2
MS801BS.2	3	2	1	1	2	-	-	-	-	-	-	3	2	2
MS801BS.3	3	3	2	2	3	-	-	-	-	-	-	3	3	2
MS801BS.4	2	3	1	2	2	1	-	2	-	-	-	2	3	2
MS801BS.5	2	3	2	3	2	1	-	3	-	-	-	2	3	3
Average	2.6	2.6	1.5	2.0	2.2	1.0	-	2.5	-	-	-	2.6	2.6	2.2

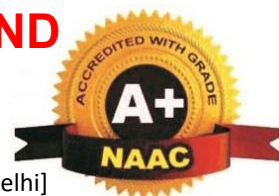


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PROFESSIONAL ELECTIVE – IV

DS742PE: DATABASE SECURITY

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS742PE.1	Identify database security problems	2
DS742PE.2	Implement different security models	3
DS742PE.3	Provide security for software design	3
DS742PE.4	Protect object-oriented systems	3
DS742PE.5	Handle security issues for active databases	4

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
MS801BS.1	3	2	-	1	2	-	-	1	-	-	-	3	2	2
MS801BS.2	2	3	2	2	3	-	-	1	-	-	-	3	3	2
MS801BS.3	2	2	3	2	2	-	-	1	-	-	-	3	3	2
MS801BS.4	2	3	2	2	3	-	-	1	-	-	-	3	3	3
MS801BS.5	2	3	2	3	3	-	-	1	-	-	-	3	3	3
Average	2.2	2.6	2.3	2.0	2.6	-	-	1.0	-	-	-	3.0	2.8	2.4

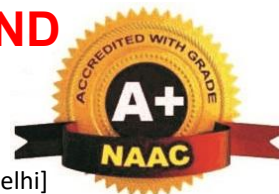


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PROFESSIONAL ELECTIVE – IV

DS743PE: NATURAL LANGUAGE PROCESSING

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS743PE.1	Show sensitivity to linguistic phenomena and an ability to model them with formal grammars.	4
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.	6
DS743PE.4	Able to design, implement, and analyze NLP algorithms; and design different language modeling Techniques. Analyze the security implications of quantum computing.	6
DS743PE.5	Apply NLP techniques to analyze and process natural language data.	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS743PE.1	3	2	1	2	2	-	-	-	-	-	-	3	2	2
DS743PE.2	2	3	2	3	3	-	-	-	-	-	-	3	3	2
DS743PE.3	3	3	3	2	3	-	-	-	-	-	-	3	3	3
DS743PE.4	3	3	3	3	3	-	-	-	-	-	-	3	3	3
DS743PE.5	2	3	2	3	3	-	-	-	-	-	-	3	3	3
Average	2.6	2.8	2.2	2.6	2.8	-	-	-	-	-	-	3.0	2.8	2.6

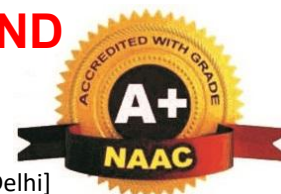


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PROFESSIONAL ELECTIVE – IV

DS744PE: INFORMATION STORAGE MANAGEMENT

COURSE OUTCOME:

CO.No.	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:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS744PE.1	3	2	-	-	2	-	-	-	-	-	-	3	2	2
DS744PE.2	3	3	1	2	3	-	-	-	-	-	-	3	3	2
DS744PE.3	2	2	2	2	3	-	-	-	-	-	-	3	3	2
DS744PE.4	2	3	2	2	3	-	-	1	-	-	-	3	3	3
DS744PE.5	2	3	2	3	3	-	-	1	-	-	-	3	3	3
Average	2.4	2.6	1.4	1.8	2.8	-	-	1.0	-	-	-	3.0	2.8	2.4

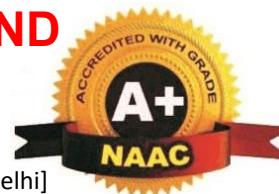


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PROFESSIONAL ELECTIVE – IV

DS745PE: INTERNET OF THINGS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS745PE.1	Interpret the impact and challenges posed by IoT networks leading to new architectural models.	4
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.	2
DS745PE.5	Understand the applications and impact of IoT in real-world scenarios.	2

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS745PE.1	3	3	2	2	2	-	-	-	-	-	-	3	2	2
DS745PE.2	3	3	2	2	3	-	-	-	-	-	-	3	3	2
DS745PE.3	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS745PE.4	2	2	2	2	3	-	-	-	-	-	-	3	3	2
DS745PE.5	2	2	1	2	2	1	-	1	-	-	-	2	3	3
Average	2.6	2.6	1.8	2.2	2.6	1.0	-	1.0	-	-	-	2.8	2.8	2.4

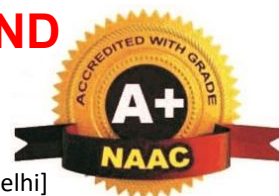


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PROFESSIONAL ELECTIVE – V

DS751PE: PRIVACY PRESERVING DATA PUBLISHING

COURSE OUTCOME:

CO.No.	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.	2
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:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS751PE.1	3	2	1	1	2	-	-	2	-	-	-	3	2	2
DS751PE.2	3	3	2	2	2	-	-	2	-	-	-	3	3	2
DS751PE.3	2	3	2	2	3	-	-	3	-	-	-	3	3	2
DS751PE.4	2	3	3	3	3	-	-	2	-	-	-	3	3	3
DS751PE.5	2	3	3	3	3	-	-	2	-	-	-	3	3	3
Average	2.4	2.8	2.2	2.2	2.6	-	-	2.2	-	-	-	3.0	2.8	2.4

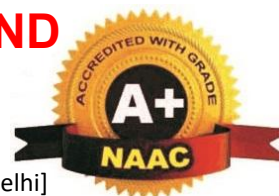


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PROFESSIONAL ELECTIVE – V

DS752PE: CLOUD COMPUTING

COURSE OUTCOME:

CO.No.	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.	2

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS752PE.1	3	2	-	1	2	-	-	-	-	-	-	3	2	2
DS752PE.2	3	3	1	2	3	-	-	-	-	-	-	3	3	2
DS752PE.3	3	3	3	2	3	-	-	-	-	-	-	3	3	3
DS752PE.4	2	3	2	3	3	-	-	2	-	-	-	3	3	2
DS752PE.5	2	2	1	2	2	-	-	1	-	-	-	2	3	3
Average	2.6	2.6	1.4	2.0	2.6	-	-	1.5	-	-	-	2.8	2.8	2.4

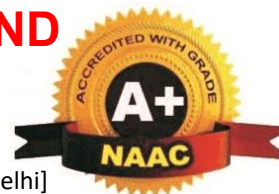


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PROFESSIONAL ELECTIVE – V

DS753PE: DATA SCIENCE APPLICATIONS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS753PE.1	Correlate data science and solutions to modern problems.	4
DS753PE.2	Decide when to use which type of technique in data science.	5
DS753PE.3	Correlate data science techniques with real-world problems	4
DS753PE.4	Decide appropriate methods and tools for specific data science tasks	5
DS753PE.5	Apply data science approaches to analyze and optimize data in various domains	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS753PE.1	3	3	2	2	2	-	-	-	-	-	-	3	2	2
DS753PE.2	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS753PE.3	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS753PE.4	2	3	3	3	3	-	-	-	-	-	-	3	3	3
DS753PE.5	3	3	3	3	3	-	-	-	-	-	-	3	3	3
Average	2.8	3.0	2.4	2.8	2.8	-	-	-	-	-	-	3.0	2.8	2.8

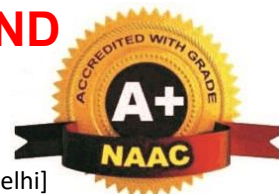


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PROFESSIONAL ELECTIVE – V

DS754PE: MINING MASSIVE DATASETS

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS754PE.1	Handle massive data using MapReduce.	3
DS754PE.2	Develop and implement algorithms for massive data sets and methodologies in the context of data mining.	6
DS754PE.3	Understand the algorithms for extracting models and information from large datasets.	2
DS754PE.4	Develop recommendation systems.	6
DS754PE.5	Gain experience in matching various algorithms for particular classes of problems.	5

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS754PE.1	3	2	2	2	3	-	-	-	-	-	-	3	2	2
DS754PE.2	3	3	3	3	3	-	-	-	-	-	-	3	3	3
DS754PE.3	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS754PE.4	2	3	3	3	3	-	-	-	-	-	-	3	3	3
DS754PE.5	2	3	2	3	3	-	-	-	-	-	-	3	3	3
Average	2.6	2.8	2.4	2.8	3.0	-	-	-	-	-	-	3.0	2.8	2.8

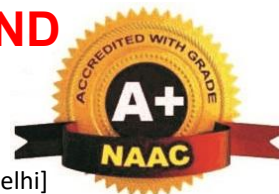


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PROFESSIONAL ELECTIVE – V

DS755PE: EXPLORATORY DATA ANALYSIS

COURSE OUTCOME:

CO.No.	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.	4
DS755PE.3	Perform systematic data exploration, validation, and visualization to understand data characteristics.	3
DS755PE.4	Develop the skills necessary to use formal modeling techniques for data inference.	6
DS755PE.5	Apply data analysis and modeling techniques to extract meaningful insights.	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS755PE.1	3	3	2	2	2	-	-	-	-	-	-	3	2	2
DS755PE.2	3	3	2	3	3	-	-	-	-	-	-	3	3	2
DS755PE.3	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS755PE.4	3	3	3	3	3	-	-	-	-	-	-	3	3	3
DS755PE.5	3	3	3	3	3	-	-	-	-	-	-	3	3	3
Average	3.0	3.0	2.4	2.8	2.8	-	-	-	-	-	-	3.0	2.8	2.6

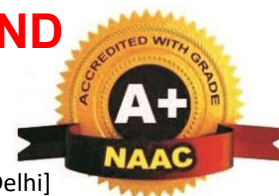


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OPEN ELECTIVE – II

DS721OE: DATA MINING

COURSE OUTCOME:

CO.No.	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:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS865PE.1	3	2	1	2	2	-	-	-	-	-	-	3	2	2
DS865PE.2	3	3	2	2	3	-	-	-	-	-	-	3	3	3
DS865PE.3	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS865PE.4	2	3	2	3	3	-	-	-	-	-	-	3	3	3
DS865PE.5	2	2	1	2	2	-	-	-	-	-	-	3	2	2
Average	2.6	2.6	1.6	2.4	2.6	-	-	-	-	-	-	3.0	2.6	2.6

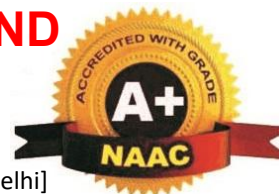


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OPEN ELECTIVE – II

DS722OE: DATA ANALYTICS

COURSE OUTCOME:

CO.No.	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	To carry out standard data visualization and formal inference procedures	3
DS722OE.4	Design Data Architecture	6
DS722OE.5	Understand various Data Sources	2

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS722OE.1	3	2	1	2	2	2	-	-	-	-	-	2	3	2
DS722OE.2	3	3	2	3	3	2	-	-	-	-	-	2	3	3
DS722OE.3	3	3	2	3	3	1	-	-	-	-	-	2	3	3
DS722OE.4	2	2	3	2	3	1	-	-	-	-	-	2	3	3
DS722OE.5	2	2	1	2	2	1	-	-	-	-	-	2	2	2
Average	2.6	2.4	1.8	2.4	2.6	1.4	-	-	-	-	-	2.0	2.8	2.6

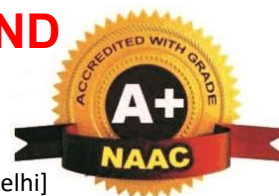


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LABORATORIES

DS703PC: PREDICTIVE ANALYTICS LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS703PC.1	Understand the processing steps for predictive analytics	2
DS703PC.2	Construct and deploy prediction models with integrity	6
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	Extract meaningful insights from data to support informed decision-making	4

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS703PC.1	3	2	1	2	2	-	-	-	-	-	-	3	3	2
DS703PC.2	3	3	3	2	3	-	-	1	-	-	-	3	3	3
DS703PC.3	3	3	2	2	3	-	-	-	-	-	-	3	3	3
DS703PC.4	3	3	2	3	3	-	-	-	-	-	-	3	3	3
DS703PC.5	2	3	2	3	3	1	-	-	-	-	-	3	3	3
Average	2.8	2.8	2.0	2.4	2.8	1.0	-	1.0	-	-	-	3.0	3.0	2.8

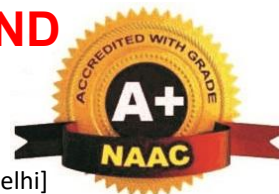


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DS704PC: WEB AND SOCIAL MEDIA ANALYTICS LAB

COURSE OUTCOME:

CO.No.	COURSE OUTCOMES	BT Level
DS704PC.1	Knowledge on decision support systems	2
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 Extract meaningful insights from data to support informed decision-making	4
DS704PC.5	Apply web, text, and social media analytics techniques to analyze online data and support decision-making	3

MAPPING:

CO.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
DS704PC.1	3	2	-	-	2	-	-	-	-	-	2	3	2	-
DS704PC.2	3	3	2	2	3	-	-	-	-	-	2	3	3	2
DS704PC.3	3	2	-	2	2	-	-	-	-	2	-	3	2	2
DS704PC.4	3	2	2	2	3	-	-	-	-	2	3	3	3	2
DS704PC.5	3	3	3	3	3	-	-	-	2	2	3	3	3	3
Average	3.0	2.4	1.4	1.8	2.6	0	0	0	0.4	1.6	2.0	3.0	2.6	1.8



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