Hindi Vidya Prachar Samiti's

Ramniranjan Jhunjhunwala College
Of Arts, Science & Commerce
(Autonomous College)

Affiliated to
UNIVERSITY OF MUMBAI

Mapping of the courses to Employability

Program: M.Sc. Computer Science

Program Code: RJSPCS

(CBCS 2020-2021)

Mapping of the courses to Employability

Mapping of the courses to Employability / Entrepreneurship / Skill Development

Name of the Program M.Sc Computer Science

Class	Course Name	Course Code	Topics focusing on Employability / Entrepreneurship / Skill development	Employability / Entrepreneurship / Skill development
MSC I	Computer Science	RJSPCS201	**Unit 2 :** Automatic Construction of Efficient Parsers **Unit 3 :** Advanced syntax analysis and basic semantic analysis **Unit 4 :** Dataflow analysis and loop optimization	Employability in field of Development
MSC I MSC II	Computer Science	RJSPCS101,102,103,104, 201,204	**RJSPCS101** **Unit 1 :** Divide-and-Conquer , Probabilistic Analysis and Randomized Algorithms **Unit 2 :** Heap sort, Sorting in Linear Time, Medians and Order Statistics, All-Pairs Shortest Paths **Unit 3 :** Multithreaded Algorithms, Linear Programming, Number-Theoretic Algorithms, Approximation Algorithms **RJSPCS102** **Unit 1 :** Business Analytics, Popular Data Science Technique **Unit 2 :** Probability, Probability, Probability **Unit 3 :** Discrete & Continuous Distributions **Unit 4 :** Histogram, Histogram, Hypothesis Testing **RJSPCS103** **Unit 2 :** Biological Databases **Unit 3 :** Sequence Analysis **Unit 4 :** Structure Prediction **Unit 1 :** Business Intelligence **RJSPCS104** **Unit 2 :** Business Data Warehouse	1. Employability in field of teaching, research. 2. Employability in the various field of Analytics

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			Unit 3 : Designing Business Data Warehouse **Unit 4 :** Data Mining **RJSPCS201** **Unit 2 :** Automatic Construction of Efficient Parsers **Unit 3 :** Advanced syntax analysis and basic semantic analysis **Unit 4 :** Dataflow analysis and loop optimization **RJSPCS204** **Unit 2 :** Hadoop Ecosystem and its components **Unit 3 :** Shingling of documents **Unit 4 :** MINING DATA STREAMS	
MSC I	Computer Science	RJSPCS203	**Unit 2 :** Visualization and application of social network **Unit 3 :** Mining Communities, Predicting Human Behavior and Privacy Issues **Unit 4 :** Measures of similarity and structural equivalence in SNA, Two-mode networks for SNA	1. Employability in the field of Social Network Analysis
MSC I **MSC II**	Computer Science	RJSPCS204,303	**RJSPCS204** **Unit 2 :** Hadoop Ecosystem and its components **Unit 3 :** Shingling of documents **Unit 4 :** MINING DATA STREAMS **RJSPCS303** **Unit 1 :** Overview of Modeling Approach **Unit 2 :** Linear Programming	1.Employability in the field of management

			& dual problem **Unit 3 :** Transportation , Assignment &Travelling Salesman Problem **Unit 4 :** Sequencing & Integer programming Problem	
MSC I **MSC II**	Computer Science	RJSPCS202,304	**RJSPCS202** **Unit 1 :** Embedded Electronic Systems & Microcontrollers, Instruments & Development MSP430 **Unit 2 :** Architecture of MSP430 processor, Functions, Interrupts & low power modes **Unit 3** : Digital Input, Output, Displays, Timers **Unit 4 :** Analog Input/output, Communication **RJSPCS304** **Unit 1 :** Robot introduction & Components **Unit 2 :** Control Techniques and implementation in Robotics **Unit 3 :** Control Architectures in Robotics **Unit 4 :** Artificial Intelligence and it's usage in Robotics	1. Employability in the field of Embedded Systems, Robotics & IOT
MSC II		RJSPCS301	**RJSPCS301** **Unit 1 :** Machine Learning and Supervised Learning AI , Regression, Classification **Unit 2 :** Unsupervised , Reinforcement learning Distance / Similarity Partitional Algorithm, Hierarchical Algorithm, Dimensionality Reduction **Unit 3 :** ANN, CNN **Unit 4 :** RNN	1. Employability in the field of AI , Machine & Deep Learning

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		,SOM,Botlzmann machine	
MSC II	RJSPCS302	**RJSPCS302** **Unit 1** : Computer Forensic Fundamentals, Types of Computer Forensics Technology, **Unit 2 :** Data Recovery, Evidence Collection, Computer Image Verification and Authentication, Identification of Data, Reconstructing Past Events **Unit 3 :** Fundamentals of Cyber Law, Investigation and Ethics **Unit 4 :** Information Technology Act 2000	1. Employability in the field of Security