

M.L. Dahanukar College of Commerce

Teaching Plan: 2022 - 23

Department: I.T.

Class: M.Sc. (I.T.)

Semester: I

Subject: Research in Computing

Name of the Faculty: Shri. Subhash Bansode

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Unit-1: Role of Business Research		4
August	Unit-1: Information Systems and Knowledge Management, Theory Building, Organization ethics and Issues Unit 2: Beginning Stages of Research Process: Problem definition, Qualitative research tools, Secondary data research		16
September	Unit 3: Research Methods and Data Collection: Survey research, communicating with respondents, Observation methods, Experimental research Unit 4: Levels of Scale measurement, attitude measurement		18
October	Unit 4: Questionnaire design, sampling designs and procedures, determination of sample size Unit 5: Data Analysis and Presentation: Editing and Coding, Basic Data Analysis		16
November	Unit: 5: Univariate Statistical Analysis and Bivariate Statistical analysis and differences between two variables. Multivariate Statistical Analysis.		6

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M.L.Dahanukar College of Commerce

Teaching Plan: 2022 – 2023
Department: Information Technology

Class: M.Sc (part I) – Sem-I

Subject: DATA SCIENCE

Name of the Faculty: Prof. Supritha Bhandary

Month	Topics to be Covered	Internal Assessment	Number of Lectures
AUG	Data Science Technology stacks: Rapid Information Factory, Ecosystem, Data Science Storage Tools, Data Lake, Data Vault, and Data Warehouse Bus Matrix. Layered Framework: Definition of Data Science Framework, Cross-Industry Standard Process for Data Mining (CRISP-DM)		16
SEP	Business layer, Utility layer. Three Management Layers: Operational Management Layer, Processing-Stream Definition and Management, Audit, Balance, and Control Layer, Balance, Control, Yoke Solution, Cause-and-Effect, Analysis System, Functional Layer, Data Science Process. Retrieve Super step,		18
OCT	Assess Super step Errors, Analysis of Data, Practical Actions, Engineering a Practical Assess Super step , Process Super step : Data Vault, Time-Person-Object Location-Event Data Vault, Data Science Process, Data Science		12
NOV	Transform Super step: Univariate Analysis Computer Vision(CV), Natural Language Processing(NLP),Neural Networks,TensorFlow. Organize and Report Super steps Organize Super step, Report Super step, Graphics, Pictures, Showing the Difference		14

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Teaching Plan: 2022 - 23

Department: I.T. Class: MSc.(I.T.) Part-I Semester: I

Subject: Soft Computing Techniques

Name of the Faculty: Ms. Rasika Sawant

Month	Topics to be Covered	Internal Assessment	Number of Lectures
August	Unit I Introduction of soft computing Various types of soft computing techniques Classification Clustering Bayesian Networks Probabilistic reasoning Applications of soft computing Unit II Artificial Neural Network Supervised Learning Network		14
September	Associative Memory Networks Unit III: Un Supervised Learning Networks Special Networks Third Generation Neural Networks		16
October	Unit IV: Introduction to Fuzzy Logic, Classical Sets and Fuzzy sets Classical Relations and Fuzzy Relations Membership Function Defuzzification Fuzzy Arithmetic and Fuzzy measures		16
November	Unit IV: Fuzzy Rule base and Approximate reasoning Fuzzy logic control systems Unit V: Genetic Algorithm Differential Evolution Algorithm Hybrid soft computing techniques		14

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Teaching Plan: 2022 - 23

Department: I.T. Class: MSc.(I.T.) Part-I Semester: I

Subject: Cloud Computing

Name of the Faculty: Mr Dhanraj Jadhav

Month	Topics to be Covered	Internal Assessment	Number of Lectures
September	Unit I: Introduction to Cloud Computing Parallel and Distributed Computing Virtualization Unit II Cloud Computing Architecture Fundamental Cloud Security		20
October	Unit II: Industrial Platforms and New Developments Unit III: Specialized Cloud Mechanisms Cloud Management Mechanisms Cloud Security Mechanisms:		16
November	Unit IV: Fundamental Cloud Architectures Advanced Cloud Architectures		12
December	Unit V: Cloud Delivery Model Considerations Cost Metrics and Pricing Models Service Quality Metrics and SLAs		12

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