M.L. Dahanukar College of Commerce

Teaching Plan: 2021 - 2022

Department: I.T. **Class: M.Sc.(I.T.)** **Semester:I**

Subject: Research In Computing

Name of the Faculty: LARISSA PEGADO

Month	Topics to be Covered	Internal Assessment	Number of Lectures
September	**Introduction:** Role of Business Research, Information Systems and Knowledge Management, Theory Building, Organization ethics and Issues.		12
October	**Beginning Stages of Research Process**: Problem definition,Qualitative research tools, Secondary data research **Research Methods and Data Collection:** Survey Research, communicating with respondents, Observation methods, Experimental research		18
November	**Measurement Concepts, Sampling and Field work:** Levels of Scale measurement, attitude measurement, questionnaire design, sampling designs and procedures, determination of sample size **Data Analysis and Presentation:** Editing and Coding, Basic Data Analysis		18
December	**Data Analysis and Presentation:**Univariate Statistical Analysis and Bivariate Statistical analysis and differences between two variables. Multivariate Statistical Analysis.		12

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P.T.V.A.'s
M.L.Dahanukar College of Commerce

Teaching Plan: 2021 – 2022
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
SEP	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), Business layer, Utility layer.		14
OCT	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
NOV	Assess Super step 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
DEC	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		16

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ML Dahanukar College

Teaching Plan: 2021 - 22

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
September	**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
October	Associative Memory Networks **Unit III:** UnSupervised Learning Networks Special Networks Third Generation Neural Networks		16
November	**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
December	**Unit IV:** Fuzzy Rule base and Approximate reasoning Fuzzy logic control systems Genetic Algorithm Differential Evolution Algorithm Hybrid soft computing techniques		14

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ML Dahanukar College

Teaching Plan: 2021 - 22

Department: I.T. **Class: *M*Sc.(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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