

M.L. Dahanukar College of Commerce

Teaching Plan: 2017 - 18

Department: I.T.

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

Semester: IV

Subject: Artificial Intelligence

Name of the Faculty: Shraddha Kadam

Month	Topics to be Covered	Internal Assessment	Number of Lectures
February	Introduction, Logic and Computation, Heuristic Search, Game playing		20
March	Knowledge representation , Automated Reasoning, Probabilistic reasoning		25
April	Planning, Constraint satisfaction Problem, Knowledge Based System		25
May	Prolog		6

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M.L.Dahanukar College of Commerce

Teaching Plan: 2017 – 18
Department: Information Technology

Class: M.Sc (part II) – Sem-IV

Subject: ITIM

Name of the Faculty: Prof. Supritha Bhandary

Month	Topics to be Covered	Internal Assessment	Number of Lectures
JAN	Introduction, the 4 p's of ITSM, benefits of ITSM, what is ITIL		04
FEB	Process and Functions: service life cycle, service strategy, objectives, creating service value, service package, service portfolio mgt, financial mgt, demand mgt Service design: five major aspects of service design, service level mgt, supplier mgt, service catalogue mgt, capacity mgt, availability mgt		19
MAR	Service transition: knowledge mgt, service asset and configuration mgt, change mgt, release and deployment mgt, service validation and testing Service operation: objectives, service operation function, service desk, technical mgt, technical mgt, application mgt, event mgt, problem mgt	Class Test	22
APR	Continual service improvement: objectives, major concepts, service level mgt, service measurement and reporting, 7 step improvement process, CSI process		15

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M.L. Dahanukar College of Commerce

Teaching Plan: 2017 - 18

Department: I.T.

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

Semester:IV

Subject: Intelligent Systems

Name of the Faculty:Snehal Borade

Month	Topics to be Covered	Internal Assessment	Number of Lectures
January	UNIT I: Intelligent Agents: Agents and Environments, Good Behaviour: The Concept of Rationality, The Nature of Environments, Structure of Agents Problem Solving by searching: Problem-Solving Agents Example Problems, Searching for Solutions, Uninformed Search Strategies, Informed Search and exploration:	:	08
February	Informed (Heuristic) Search Strategies, Heuristic Functions, Local Search Algorithms and Optimization Problems, Local Search in Continuous Spaces, Searching with Nondeterministic Actions, Searching with Partial Observations, Online Search Agents and Unknown Environments UNIT II: Games: Optimal Decisions in Games, Alpha—Beta Pruning, Imperfect Real-Time Decisions, Stochastic Games, Partially Observable Games, State-of-the-Art Game Programs Constraint Satisfaction, Constraint Propagation: Inference in CSPs, Backtracking Search for CSPs, Local Search for CSPs, The Structure of Problems Logical Agents: Knowledge-Based Agents, The Wumpus World, Logic, Propositional Logic, Propositional Theorem Proving, Effective Propositional Model Checking, Agents Based on		20
March	Propositional Logic First-Order Logic: Representation Revisited, Syntax and Semantics of First-Order Logic, Using First-Order Logic, Knowledge Engineering in First-Order Logic, Inference in FirstOrder		12

	<p>Logic, Propositional vs. First-Order Inference, Unification and Lifting, Forward Chaining, Backward Chaining, Resolution, 1</p> <p>Unit-III: Planning: Classical Planning, Algorithms for Planning as StateSpace Search, Planning Graphs, Other Classical Planning Approaches, Hierarchical Planning, Planning and Acting in Nondeterministic Domains, Multiagent Planning</p>		
April	<p>Uncertain Knowledge and Reasoning: Acting under Uncertainty, Basic Probability Notation, Inference Using Full Joint Distributions, Independence, Bayes' Rule and Its Use, The Wumpus World Revisited, Probabilistic Reasoning: Representing Knowledge in an Uncertain Domain, The Semantics of Bayesian Networks, Efficient Representation of Conditional Distributions, Exact Inference in Bayesian Networks, Approximate Inference in Bayesian Networks, Relational and First-Order Probability Models, Approaches to Uncertain Reasoning, Probabilistic reasoning over time: Inference in Temporal Models, Hidden Markov Models, Kalman Filters, Dynamic Bayesian Networks, Keeping Track of Many Objects Unit-IV</p> <p>UNIT IV: Simple Decision Making: Combining Beliefs and Desires under Uncertainty, The Basis of Utility Theory, Utility functions, Multiattribute Utility Functions, Decision Networks</p>		12
May	<p>Complex Decision Making: Sequential Decision Problems, Value Iteration, Policy Iteration, Partially Observable MDPs, Decisions with Multiple Agents: Game Theory Knowledge in Learning: Review of Forms and types of Learning, Logical Formulation of Learning, Knowledge in Learning, Explanation-Based Learning, Learning Using Relevance Information, Inductive Logic Programming,</p> <p>UNIT V: Statistical and Reinforced Learning: Statistical Learning, Learning with Complete Data, Learning with Hidden Variables: The EM Algorithm, Reinforcement Learning, Passive</p>		12

	Reinforcement Learning, Active Reinforcement Learning, Generalization in Reinforcement Learning, Applications of Reinforcement Learning Natural Language Processing: Language Models, Text Classification, Information Retrieval, Information Extraction. Robotics: Introduction, Robot Hardware, Robotic Perception, Planning to Move, Planning Uncertain Movements, Moving, Robotic Software Architectures, Applications.		
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M.L. Dahanukar College of Commerce

Teaching Plan: 2017 - 18

Department: I.T.

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

Semester:VI

Subject: Computer Management

Name of the Faculty: Aruta A Jayswal

Month	Topics to be Covered	Internal Assessment	Number of Lectures
Feb	Unit 1- Virtualized Data Center Architecture		12 lectures
March	Unit 2- Storage Network Design Unit 3-Cloud Management: System Center 2012 and Cloud OS, Provisioning Infrastructure	Internal test of 20 marks	12 lectures
April	Unit 4-Managing and maintaining with Configuration Manager 2012 Unit 5-Implementing Monitoring	Internal test of 20 marks	12 lectures

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