Lesson plan Session: 2022-2023 Semester: 4th

Subject: ACOA

Paper Code: INF 1026

Month	Topics	Remarks
April	Historical foundation of AI. AI application areas . AI problem, Underlying assumptions, AI techniques, Level of models, success criteria. Problem as a state space search, Production Systems, Problem characteristics, PS characteristics, Design issues of search programs.	
May	Heuristic Search Techniques: Generate and test, Hill Climbing, Best-First Search, Problem reduction. Knowledge representation and Mapping, Approaches, Issues. Predicate logic. Representing simple facts in logic, Instance and isa relationship, Computable function and predicity, Resolution, Natural Deduction. Knowledge representation using rules, Procedural vs declarative, logic programmes, Forward vs backward recovery, matching. Nonmonotonic reasoning and logic. Implementation: Depth first abd breath first search.	
June	Introduction to statistical reasoning. Probability and bays theorem, Fuzzy logic concept. Concept of weak slot and filter, and strong slot and filter structure. Fundamental of Natural Language Processing: Syntactic processing, semantic analysis. Concept of Expert Systems: Representation using domain knowledge, Expert System shell, knowledge acquisition.	Assignment 1

Name

Signature

Lesson plan

Session: 2022-2023

Semester: 4th

Subject: ACOA Paper Code : CSC 1026

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