

COURSE DETAIL

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

UCEAP Transcript Title

INTRODUCTION TO AI

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course introduces the basic concepts in search and knowledge representation as well as several sub-areas of artificial intelligence. It focuses on covering the essential concepts in AI. The course covers Turing test, blind search, iterative deepening, production systems, heuristic search, A* algorithm, minimax and alpha-beta procedures, predicate and first-order logic, resolution refutation, non-monotonic reasoning, assumption-based truth maintenance systems, inheritance hierarchies, the frame problem, certainty factors, Bayes' rule, frames and semantic nets, planning, learning, natural language, vision, and expert systems and LISP.

Language(s) of Instruction

English

Host Institution Course Number

CS3243

Host Institution Course Title

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

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