ARTIFICIAL INTELLIGENCE
[As per Choice Based Credit System (CBCS) scheme]
(Effective from the academic year 2017 -2018)
SEMESTER – V

Subject Code	17CS562	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03

CREDITS – 03

	Teaching Hours
Module – 1 What is artificial intelligence?, Problems, Problem Spaces and search, Heuristic search technique **TextBook1: Ch 1, 2 and 3**	8 Hours
Module – 2 **Knowledge Representation Issues, Using** Predicate Logic, Representing knowledge using Rules, **TextBoook1: Ch 4, 5 and 6.**	8 Hours
Module – 3 Symbolic Reasoning under Uncertainty, Statistical reasoning, Weak Slot and Filter Structures. **TextBoook1: Ch 7, 8 and 9.**	8 Hours
Module – 4 Strong slot-and-filler structures, Game Playing. **TextBoook1: Ch 10 and 12**	8 Hours
Module – 5 Natural Language Processing, Learning, Expert Systems. **TextBook1: Ch 15,17 and 20**	8 Hours

Course outcomes: The students should be able to:
- Identify the AI based problems
- Apply techniques to solve the AI problems
- Define learning and explain various learning techniques
- Discuss expert systems

Question paper pattern:
The question paper will have TEN questions.
There will be TWO questions from each module.
Each question will have questions covering all the topics under a module.
The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:
1. E. Rich , K. Knight & S. B. Nair - Artificial Intelligence, 3/e, McGraw Hill.

Reference Books:
1. Artificial Intelligence: A Modern Approach, Stuart Rusell, Peter Norving, Pearson Education 2nd Edition.
1. Dan W. Patterson, Introduction to Artificial Intelligence and Expert Systems – Prentice Hal of India.
2. G. Luger, "Artificial Intelligence: Structures and Strategies for complex problem

Solving", Fourth Edition, Pearson Education, 2002.
3. Artificial Intelligence and Expert Systems Development by D W Rolston-Mc Graw hill.
4. N.P. Padhy "Artificial Intelligence and Intelligent Systems" , Oxford University Press-2015

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