

# FUTURE VISION BIE

One Stop for All Study Materials  
& Lab Programs



Future Vision

By K B Hemanth Raj

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VTU, Currently for CSE – Computer Science  
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<b>ARTIFICIAL INTELLIGENCE</b> <b>[As per Choice Based Credit System (CBCS) scheme]</b> <b>(Effective from the academic year 2017 -2018)</b> <b>SEMESTER – V</b>			
Subject Code	17CS562	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03
<b>CREDITS – 03</b>			
<b>Module – 1</b>			<b>Teaching Hours</b>
What is artificial intelligence?, Problems, Problem Spaces and search, Heuristic search technique <b>TextBook1: Ch 1, 2 and 3</b>			<b>8 Hours</b>
<b>Module – 2</b>			
<b>Knowledge Representation Issues, Using Predicate Logic, Representing knowledge using Rules,</b> <b>TextBook1: Ch 4, 5 and 6.</b>			<b>8 Hours</b>
<b>Module – 3</b>			
Symbolic Reasoning under Uncertainty, Statistical reasoning, Weak Slot and Filter Structures. <b>TextBook1: Ch 7, 8 and 9.</b>			<b>8 Hours</b>
<b>Module – 4</b>			
Strong slot-and-filler structures, Game Playing. <b>TextBook1: Ch 10 and 12</b>			<b>8 Hours</b>
<b>Module – 5</b>			
Natural Language Processing, Learning, Expert Systems. <b>TextBook1: Ch 15,17 and 20</b>			<b>8 Hours</b>
<b>Course outcomes:</b> The students should be able to:			
<ul style="list-style-type: none"> <li>• Identify the AI based problems</li> <li>• Apply techniques to solve the AI problems</li> <li>• Define learning and explain various learning techniques</li> <li>• Discuss expert systems</li> </ul>			
<b>Question paper pattern:</b>			
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.			
<b>Text Books:</b>			
1. E. Rich , K. Knight & S. B. Nair - Artificial Intelligence, 3/e, McGraw Hill.			
<b>Reference Books:</b>			
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