Department of Computer Science & Technology **2014**

060010706 : Artificial Intelligence

UNIT	Sub Unit	No. of Lecture (s)	Topics	Reference Chapter/ Additional Reading	Teaching Methodology	Evaluation Parameters
1.	Intro	duction to	Artificial Intelligence-[5 Hou	rs]		
	1.1	1	General Discussion and Intelligent Systems and Artificial Intelligence	SK#1, Page No.1-6	Chalk Talk	
	1.2	1	Components of Artificial Intelligence Program	SK#1, Page No.6-7	Chalk Talk + Comprehensive reading from book	
	1.3	1	Foundations of Artificial Intelligence	SK#1, Page No.7-8	Chalk Talk+ Video Demonstration	Quiz-1 on 28/7/2014 Unit-Test-1
	1.4	2	Sub-areas of Artificial Intelligence	SK#1, Page No.8-16 <u>http://freevide</u> <u>olectures.com/</u> <u>Course/2272/</u> <u>Artificial-</u> <u>Intelligence</u>	Chalk Talk + Comprehensive Reading from book	on 5/8/2014+ Internal
2.	Know	ledge Rep	resentation-[9 Hours]			
	2.1 2.2	1	Introduction Approaches: Relational Knowledge, Knowledge Represented as logic, Procedural Knowledge	SK#7, Page No.231-235	Case + Video Demonstration PowerPoint Presentation +	
	2.3	2	Knowledge Representation using Semantic Network	SK#7, Page No.234-236 http://aitopics. org/topic/sem antic-networks http://people. duke.edu/~mc cann/mwb/15 semnet.htm	PowerPoint Presentation +Chalk talk+ Comprehensive reading	Unit Test-1, + SCP Presentation by Students+ Internal

	2.4	1	Inheritance in Semantic Net	SK#7, Page No.236-238 http://freevide olectures.com/ Course/2272/ Artificial- Intelligence/1 1		
	2.5	4	Extended Semantic Network for Knowledge Representation: Inference Rules, Deduction in Extended Semantic Networks, Examples and Implementation.	SK#7, Page No.238-254	PowerPoint Presentation + Chalk Talk + Demonstration of FLORA-2	
3.	Exper	rt Systems-	10			
	3.1	1	Introduction	SK#8, Page No.264-265	PowerPoint Presentation + Students' Participation through discussion	
	3.2	1	Phases in Building Expert Systems : Knowledge Engineering and Representation	SK#8, Page No.265-268	PowerPoint Presentation	
	3.3	2	Architecture: Knowledge Base, Inference Engine, Knowledge Acquisition, Case History, User Interfaces, Explanation Module and Special Interfaces	SK#8, Page No.269-273	PowerPoint Presentation + Chalk Talk + Video + Student's	Quiz-2 + SCP Presentation by Students+ Internal
	3.4	2	Expert Systems: Characteristics, Evaluation, Advantages, Disadvantages.	SK#8, Page No.274-277	participation+ Case study <u>http://freevide</u>	
	3.5	1	Rule-based Expert Systems	SK#8, Page No.277-284	olectures.com/C ourse/2272/Art ificial- Intelligence/16	
	3.6	1	Blackboard Systems	SK#8, Page No.285-290	Power Point Presentation	
	3.7	2	Truth Maintenance Systems	SK#8, Page No.290-299		
4.	Mach	ine Learnii	ng Paradigms-10			
	4.1	1	Introduction	SK#11, Page No.410-411	PowerPoint Presentation +	Unit Test-2 + SCP

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4.3 1 Supervised and Unsupervised Learning SK#11, Page No.415-418 4.4 1 Inductive and Deductive Learning SK#11, Page No.415-418 4.5 2 Clustering SK#11, Page No.423-425 4.6 2 Support Vector Machines SK#11, Page No.423-425 4.6 2 Support Vector Machines SK#11, Page No.426-430 http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://www.su pport-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- machines.org/ http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector- http://reveloci/ support-vector-			_	Learning. Learning by Advice.	No.411-414	0	by Students+
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Relief-Desire-Intention		5.5	2	Architecture of Intelligent	SK#14, Page	PowerPoint Presentation +	
Lavered Participation +		5.5	2	Architecture of Intelligent Agents: Logic-based, Reactive, Belief-Desire-Intention	SK#14, Page No.523-527	PowerPoint Presentation + Students'	
Video		5.5	2	Architecture of Intelligent Agents: Logic-based, Reactive, Belief-Desire-Intention, Lavered	SK#14, Page No.523-527	PowerPoint Presentation + Students' Participation +	
The office of th		5.5	2	Architecture of Intelligent Agents: Logic-based, Reactive, Belief-Desire-Intention, Layered	SK#14, Page No.523-527	PowerPoint Presentation + Students' Participation + Video	
		5.5	2	Architecture of Intelligent Agents: Logic-based, Reactive, Belief-Desire-Intention, Layered	SK#14, Page No.523-527	PowerPoint Presentation + Students' Participation + Video	

5 Years Integrated M.Sc.(IT)-7th Semester

	5.6	1	Multi-Agent Application	SK#14, Page No.534-538		
6.	Adva	nced Know	ledge Representation Techn	iques-6		
	6.1	1	Conceptual Dependency Theory: Primitive Actions, Category, Rules for Conceptual Dependency and its Representation, Usefulness, Parsing, Inferences associated with Primitive Act	SK#15, Page No.542-560	PowerPoint Presentation + Chalk Talk + Video Demonstration of Flora-2	
	6.2	1	Script Structure	SK#15, Page No.561-563		Internal
	6.3	2	Case Grammars	SK#15, Page No.565-570		
	6.4	2	Semantic Web	SK#15, Page No.570-574		

Course Objectives and Course Outcomes Mapping:

To understand the basics of artificial intelligence, its techniques and applications: C01,C02 ,C03,C04

To recognize and solve computational problems using knowledge management and expert systems: CO2, CO3, CO5

Course Units and Course Outcomes Mapping:

Unit No.	Unit		Course Outcome				
		C01	CO2	CO3	C04	CO5	
1	Introduction to Artificial Intelligence	~					
2	Knowledge Representation	~	~			~	
3	Expert Systems	~	~	~	~	~	
4	Machine-Learning Paradigms	~		~		~	
5	Intelligent Agent	~		~	✓	~	
6	Advanced Knowledge Representation Techniques	✓	~			~	

		Course	Programme Outcomes							
		Outcomes	P01	P02	P03	P04	P05	P06		
		C01	\checkmark		√	√	√			
		CO2			√	√	√			
		CO3	\checkmark			✓	√	✓		
		CO4					✓			
		C05	~				~	✓		
Computin	g Env	ironment:								
	*	A student must Knowled	have the foll ge Represen	owing computation and Re	iting environ asoning Syste	ment on his/ em: FLORA2	her laptop:			
		Agent Ba	sed Modelin	g Tool: ECO L	AB					
Modes of	Frans	action (Delivery)):							
	*	Lecture method	comprising o	of chalk and ta	alk and comp	rehensive re	ading from th	ne Text book	shall be followed for	
		almost 40 hours					4			
		Additionally as a	nd when rec	luired, discus 2 3 4 5	sion method	supplemente	ed with vario	us appropria	te audio-visual aids,	
	*	Comprehensive	exercises wo	uld be solved	l. presented a	nd demonstr	ated by the s	tudents for l	Jnit 2(2.3 & 2.5). Un	
	•	3(3.5,3.6 & 3.7),	Unit 4(4.6) &	a 5(5.4).	, r				(••••••), ••	
	*	Case study shall	be used to te	ach in-depth	view of unit	1, 3 and 5.				
Activities	/Pract	ticum:								
	The	e following activities sl	nall be carrie	d out by the s	students.					
	*	Study of recent t	rends in Mac	chine Learnin	g, Expert Sys	tem and Intel	lligent Agent	in discuss in	the clas	
	71		11 1	J	<u>.</u>		0 0			
	1 ne	Demonstration	of FLORA2 a	a out by the t	teacher.					
	· · ·	Demonstration	of support v	ector machin	e using FCO I	ΔR				
Toyt Pool	· ·	Demonstration			e using LCO I	IND.				
I CAL DOUK	1	Kaushik Saroi - Artifi	cial Intellige	nce – Cengag	e					
Reference	Book	S:		nee dengag						
	DOON									
	1.	Mishra R.B Artificia	shra R.B Artificial intelligence - PHI							
	2.	Akerkar Rajendra - I	cerkar Rajendra - Introduction to Artificial Intelligence - PHI							
	3. 4	http://artintinfo/on	l intelligence	and intellige			ersity Press II	lula		
	4.	http://artint.info/	nne.num online html							
		http://www.suppo	rt-vector-r	nachines or	σ/					
		http://www.suppu	nt voctor	ot /	ĕ ∕-					
		<u>mup://www.suppo</u>	<u>nt-vector.n</u>	<u>el/</u>						











