JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : BCA	Session : 2020-2023	Year :IIIrd	Sem: V
Course: Soft Computing (3C.324)			
Name of the Faculty: Anuradha Sharma	Commencement Date: 29.8.2022		Date of Closure:30.12.2022

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	UNIT - I	Course Objective,Course Outcome Fuzzy Set Theory: Basic Definition and Terminology										
2		UNIT - I	Set Theoretic Operations										
3		UNIT - I	Set Theoretic Operations										
4		UNIT - I	MF Formulation and Parameterization,										
5	2	UNIT - I	MF of two dimension										
6		UNIT - I	Fuzzy Union, Intersection and Complement										
7		UNIT - I	Fuzzy Union, Intersection and Complement										
8		UNIT - I	Fuzzy Rules and Fuzzy Reasoning										
9	3	UNIT - I	Fuzzy Rules and Fuzzy Reasoning										
10		UNIT - I	Extension Principles and Fuzzy Relations										
11		UNIT - I	Fuzzy IF THEN Rules										
12		UNIT - I	Fuzzy Reasoning										
13	4	UNIT - II	Fuzzy Inference System: Introduction										
14		UNIT - II	Mamdani Fuzzy Models										

15	4	UNIT - II	SugenoFuzzy Models, Tekamoto Fuzzy Models										
16		UNIT - II	GENETIC ALGORITHMS .Fundamentals of Genetic Algorithms										
17	5	UNIT - II	Basic Concepts Creation, Offsprings										
18		UNIT - II	Encoding,										
19		UNIT - II	Fitness functions, Reproduction										
20		UNIT - II	Inheritance Operators,										
21	6	UNIT - II	Cross over										
22		UNIT - II	Inversion and detection,										
23		UNIT - II	Mutation operator										
24		UNIT - III	Bitwise operators										
25	7	UNIT - IV	ARTIFICIAL NEURAL NETWORKS:Introduction,										
26		UNIT - IV	Architecture										
27		UNIT - IV	Back Propagation and feed Forward Networks										
28		UNIT - IV	Offline Learning, Online Learning.										
29	8	UNIT - IV	Supervised Learning of Neural Networks: Introduction										
30		UNIT - IV	Perceptrons,										
31		UNIT - IV	Adaline										
32		UNIT - IV	Back Propagation Multilayer Perceptrons										
33	9	UNIT - IV	Back Propagation Learning Rules										
34		UNIT - IV	Back Propagation Learning Rules										
35		UNIT - IV	Methods of Speeding. Radical Basis Function Networks										

36		UNIT - IV	Functional Expansion Networks										
37	10	UNIT - IV	Unsupervised Learning: Competitive Learning Networks										
38		UNIT - IV	Kohonen self-organising networks										
39		UNIT - IV	Hebbian Learning										
40		UNIT - IV	Hebbian Learning										
41	11	UNIT - IV	The Hopfield Network.										
42		UNIT - IV	Model Paper Discussion										