SADAKATHULLAH APPA COLLEGE (AUTONOMOUS), TIRUNELVELI-627011
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc Class: II Year Academic year: 2017 - 2018 Semester: IV

Title of the Paper: SOFT COMPUTING Subject Code: 15PCSC42

Theory / Practical: Name of the Teacher: Mrs. V. Roseline

Sl. No	Date & Order	Unit	Topics planned	Covered on
1	06/12/2017,A	I	Basic Concepts of Neural networks	06/12/2017
2	07/12/2017,B	I	Evolution of Neural networks	07/12/2017
3	08/12/2017,C	I	Basic Models of Artificial neural network	08/12/2017
4	11/12/2017,D	I	Basic Models of Artificial neural network	11/12/2017
5	12/12/2017,E	I	Terminologies of ANN-McCulloch	12/12/2017
6	13/12/2017,F	I	Terminologies of ANN-McCulloch	13/12/2017
7	14/12/2017,A	I	Pitts Neuron	14/12/2017
8	15/12/2017,B	I	Pitts Neuron	15/12/2017
9	18/12/2017,C	I	Linear seperability	18/12/2017
10	19/12/2017,D	I	Linear seperability	19/12/2017
11	20/12/2017,E	I	Hebb Network	20/12/2017
12	21/12/2017,F	I	Applications of Neural networks	21/12/2017
13	22/12/2017,A	I	Supervised learning Network	22/12/2017
14	27/12/2017,B	I	Perceptron Networks	27/12/2017
15	28/12/2017,C	I	Adaptive Linear Neuron	28/12/2017

Reference books:

S.N Sivanandam S.N Deepa "Principles of Soft Computing", Wiley –India, 2007.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment		Perceptron			01/02/2018	
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		

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Sl. No	Date & Order	Unit	Topics planned	Covered on
16	29/12/2017,D	I	Multiple Adaptive Linear Neurons	29/12/2017
17	30/12/2017,E	I	Back propagation Network	30/12/2017
18	02/01/2018,F	I	Radial Basis function Network	02/01/2018
19	03/01/2018,A	II	Associative Memory Networks	03/01/2018
20	04/01/2018,B	II	Training algorithms for pattern association	04/01/2018
21	05/01/2018,C	II	Auto associative Memory Network	05/01/2018
22	08/01/2018,D	II	Bidirectional Associative Memory	08/01/2018
23	09/01/2018,E	II	Bidirectional Associative Memory	09/01/2018
24	10/01/2018,F	II	Hopfield Networks	10/01/2018
25	11/01/2018,A	II	Unsupervised Learning networks	11/01/2018
26	12/01/2018,B	II	Unsupervised Learning networks	12/01/2018
27	18/01/2018,C	II	Fixed Weight Competitive Nets	18/01/2018
28	19/01/2018,D	II	Fixed Weight Competitive Nets	19/01/2018
29	20/01/2018,E	II	Kohonen Self Organised Maps	20/01/2018
30	22/01/2018,F	II	Kohonen Self Organised Maps	22/01/2018
31	23/01/2018,A	II	Learning Vector Quantization	23/01/2018
32	24/01/2018,B	II	Learning Vector Quantization	24/01/2018
33	25/01/2018,C	II	Learning Vector Quantization	25/01/2018
34	29/01/2018,D	II	Adaptive Resonance Theory Network	29/01/2018
35	30/01/2018,E	II	Adaptive Resonance Theory Network	30/01/2018
36	31/01/2018,F	II	Adaptive Resonance Theory Network	31/01/2018
37	01/02/2018,A	III	Introduction to Classical Sets and Fuzzy Sets	01/02/2018
38	02/02/2018,B	III	Classical sets	02/02/2018
39	05/02/2018,C	III	Classical sets	05/02/2018
40	06/02/2018,D	III	Fuzzy Sets	06/02/2018
41	07/02/2018,E	III	Fuzzy Sets	07/02/2018
42	08/02/2018,F	III	Classical Relation and Fuzzy Relations	08/02/2018

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Sl. No	Date & Order	Unit	Topics planned	Covered on
43	09/02/2018,A	III	Classical Relation and Fuzzy Relations	09/02/2018
44	10/02/2018,B	III	Classical Relation and Fuzzy Relations	10/02/2018
45	12/02/2018,C	III	Classical Relation and Fuzzy Relations	12/02/2018
46	13/02/2018,D	III	Classical Relation	13/02/2018
47	14/02/2018,E	III	Classical Relation	14/02/2018
48	15/02/2018,F	III	Fuzzy Relations	15/02/2018
49	17/02/2018,A	III	Membership Functions	17/02/2018
50	19/02/2018,B	III	Features of Membership Functions	19/02/2018
51	20/02/2018,C	III	Fuzzification	20/02/2018
52	21/02/2018,D	III	Methods of Membership Value Assignments	21/02/2018
53	22/02/2018,E	III	Defuzzification	22/02/2018
54	23/02/2018,F	III	Lambada-Cuts for Fuzzy Sets- Lambada-Cuts for Fuzzy Relations	23/02/2018
55	26/02/2018,A	IV	Fundamentals of Genetic Algorithms	26/02/2018
56	27/02/2018,B	IV	Fundamentals of Genetic Algorithms	27/02/2018
57	28/02/2018,C	IV	Basic concepts	28/02/2018
58	01/03/2018,D	IV	Creation of Offsprings	01/03/2018
59	02/03/2018,E	IV	Working principle	02/03/2018
60	03/03/2018,F	IV	Working principle	03/03/2018
61	05/03/2018,A	IV	Encoding	05/03/2018
62	06/03/2018,B	IV	Fitness Function	06/03/2018
63	07/03/2018,C	IV	Fitness Function	07/03/2018
64	08/03/2018,D	IV	Reproduction	08/03/2018
65	09/03/2018,E	IV	Genetic Modelling	09/03/2018
66	10/03/2018,F	IV	Inheritance Operators	10/03/2018
67	12/03/2018,A	IV	Cross Over – Inversion and Deletion – Mutation Operator	12/03/2018
68	13/03/2018,B	IV	Bit-wise Operators – Bit-wise Operators used in GA	13/03/2018
69	14/03/2018,C	IV	Convergence of Genetic Algorithm	14/03/2018

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Sl. No	Date & Order	Unit	Topics planned	Covered on
70	15/03/2018,D	IV	Differences and similarities between GA and Other Traditional Methods	15/03/2018
71	16/03/2018,E	IV	Advances in Genetic Algorithm.	16/03/2018
72	19/03/2018,F	IV	Advances in Genetic Algorithm.	19/03/2018
73	20/03/2018,A	V	Integration of Neural Networks, Fuzzy Logic and Genetic Algorithms	20/03/2018
74	21/03/2018,B	V	Hybrid Systems –Neural Networks	21/03/2018
75	22/03/2018,C	V	Fuzzy Logic and Genetic Algorithms	22/03/2018
76	23/03/2018,D	V	Genetic Algorithm based Back propagation Networks	23/03/2018
77	26/03/2018,E	V	Genetic Algorithm based Back propagation Networks	26/03/2018
78	27/03/2018,F	V	GA based weight determination	27/03/2018
79	02/04/2018,A	V	ANFIS-Adaptive Neuro	02/04/2018
80	03/04/2018,B	V	ANFIS-Adaptive Neuro	03/04/2018
81	04/04/2018,C	V	Fuzzy Inference Systems	04/04/2018
82	05/04/2018,D	V	ANFIS Architecture	05/04/2018
83	06/04/2018,E	V	Hybrid Learning Algorithm.	06/04/2018
84	09/04/2018,F	V	Hybrid Learning Algorithm.	09/04/2018
85	10/04/2018,A	V	Fuzzy Modeling	10/04/2018
86	11/04/2018,B	V	Applications of Soft Computing - Introduction	11/04/2018
87	12/04/2018,C	V	A Fusion approach of Multispectral Images with SAR Image for Flood area Analysis	12/04/2018
88	13/04/2018,D	V	Optimization of TSP using Genetic Algorithm Approach	13/04/2018
89	20/04/2018,E	V	Genetic Algorithm based Internet Search Technique	20/04/2018
90	21/04/2018,F	V	Genetic Algorithm based Internet Search Technique	21/04/2018

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