

Lesson Plan

Discipline : Computer Science and Engineering

Semester : 8th CSE

Subject : Neural Network and fuzzy logic

Week	Lecture Day	Topic (including assignment/test) (In Each Section)	Practical Day	Topic
1	1	Introduction to neural networks	1	NN for AND, OR & EXOR gate using perception
	2	History of neural networks		
	3	Characteristics, Advantages and Applications of neural networks		
2	1	The biological prototype	1	Perception to classify odd and even numbers.
	2	Artificial neuron and Activation Functions		
	3	Network Architectures: Single layer and Multi layer		
3	1	Training /learning of Artificial Neural networks	1	NN for alphabet recognition using backpropagation.
	2	Different learning rules		
	3	Representation of Perceptron and its types		
4	1	Perceptron learning and training	1	Hopfield n/w for recognizing patterns such as '+' and
	2	Continue..Perceptron learning and training		
	3	Linear Separability and Classification		
5	1	Architecture and Structure of Hopfield Network	1	NN for EX-OR classification using Back propagation.
	2	Continue...Architecture and Structure of Hopfield Network		
	3	Training and Applications and Stability of Hopfield Net		
6	1	Back Propagation Network BPN : Introduction,Delta Rule,Architecture	1	CPN for image classification.k
	2	Training Algorithm and Applications		
	3	Numerical on BPN		
7	1	Continuous and Discrete BAM	1	Name and telephone number recognition system.
	2	Training procedure for BAM , Encoding Associations and Memory Capacity		
	3	Adaptive Resonance Theory ART:Introduction and characteristics		
8	1	Continue...Applications and image classification in CPN	1	BAM network for pattern storing
	2	Adaptive Resonance Theory ART:Introduction and characteristics and Architecture		
	3	continue..Bidirectional associative Memory:Introduction,architecture		
9	1	Adaptive Resonance Theory ART:Introduction and characteristics and Architecture	1	ART Network for Pattern Clustering
	2	ART Classification Operation		
	3	ART Implementation		
10	1	Continue..ART Implementation		
	2	Optical Neural Networks: Introduction, Vector Matrix Multipliers		
	3	Hopfield Net using Electro Optical matrix multipliers		
11	1	Holographic Correlator		
	2	Optical Hopfield net using Volume Holograms		
	3	Cognitron :its Structure and Training		
12	1	Neocognitron :its Structure and Training		

	2	Genetic Algorithm:Introduction ,Elements,Selection process		
	3	A simple Genetic Algorithm		
13	1	Mutation and its objective		
	2	Working of Genetic Algorithms evolving Neural networks		
	3	Continue..Working of Genetic Algorithms evolving Neural networks		
14	1	Unit I revision		
	2	Unit II revision		
	3	Unit II revision		
15	1	Unit III revision		
	2	Unit IV revision		
	3	Unit IV revision		

Lesson Plan

Discipline :CSE

Semester :8

Subject :Interactive Computer Graphics

Week	Lecture Day	Topic (including assignment/test) (In Each Section)
1	1	Line and point plotting systems:pixel and point plotters
	2	Line and point plotting systems:pixel and point plotters
	3	Continual refresh and storage displays
2	1	Continual refresh and storage displays
	2	Plasma panel display
	3	Plasma panel display
3	1	Very high resoution devices
	2	High speed drawing
	3	Display processors
4	1	Character generators
	2	Color display techniques
	3	Color display techniques
5	1	Shadow mask and penetration CRT
	2	Color lookup tables
	3	Assignmnet-1/Test/Revision
6	1	Analog false colors,hard copy color printers
	2	line drawing
	3	Circle drawing algorithms
7	1	Circle drawing algorithms
	2	2D transformation
	3	Display code generation
8	1	Graphical functions:the view algorithm
	2	Screen coordinates,user coordinates
	3	Graphical data structures
9	1	Pointing and poositioning devices
	2	Cursor,light pen,digitizing tablet
	3	The mouse,trackballs
10	1	Assignmnet-2/Test/Revision
	2	Interactive graphical techniques
	3	Positioning(elaastic or rubber band techniques)
11	1	Positioning(elaastic or rubber band techniques)
	2	Linking,zooming,panning
	3	Clipping>windowing,scissoring
12	1	3D graphics wire frame
	2	Perspective display perspective depth
	3	Assignmnet-3/Test/Revision

13	1	Projective transformations
	2	Projective transformations
	3	Hidden line and surface elimination
14	1	Hidden line and surface elimination
	2	Transparent solids
	3	Shading,3D transformations
15	1	Shading,3D transformations
	2	Interactive graphical techniques GUI
	3	Assignmnet-4/Test/Revision

Lesson Plan

Discipline : B. Tech

Semester : 8th CSE

Subject : SVVT

Week	Lecture Day	Topic (including assignment/test) (In Each Section)
1	1	Introduction: What is software testing and why it is so hard?,
	2	Error, Fault, Failure
	3	Incident, Test Cases, Testing Process
2	1	Limitations of Testing
	2	Revision
	3	No absolute proof of correctness
3	1	Overview of Graph Theory & Discrete Mathematics.
	2	Functional Testing
	3	Boundary Value Analysis, Equivalence Class Testing
4	1	Decision Table Based Testing, Cause Effect Graphing Technique.
	2	Sessional 1
	3	Structural Testing
5	1	Path Testing
	2	DD-Paths, Cyclomatic Complexity
	3	Graph Metrics
6	1	SOT 1
	2	Data Flow Testing, Mutation testing.
	3	Reducing the number of test cases:
7	1	Prioritization guidelines
	2	Priority category, Scheme
	3	Risk Analysis
8	1	Regression Testing
	2	Slice testing
	3	Class Test
9	1	Testing Activities
	2	Unit Testing
	3	Levels of Testing
10	1	Sessional 2
	2	Sessional Discussion
	3	Integration Testing
11	1	System Testing
	2	Debugging
	3	Domain Testing
12	1	SOT 2
	2	Object Oriented Testing

	3	Issues in Object Oriented Testing
13	1	Revision
	2	Class Testing, GUI Testing
	3	Object Oriented Integration and System Testing.
14	1	Testing Tools
	2	SOT 3
	3	Static Testing
15	1	Dynamic Testing Tools
	2	Characteristics of Modern Tools.
	3	Sessional 3

Lesson Plan

Discipline : B. Tech CSE

Semester : 8th

Subject : DWDM

Week	Lecture Day	Topic (including assignment/test) (In Each Section)
1	1	Data Warehousing: Definition, Scope,
	2	Data Warehousing: Practical Implications
	3	Structures and functions.
2	1	Data Mining : Process
	2	Revision
	3	Technologies & Rules
3	1	platform tools & tool characteristics
	2	operational vs.information systems.
	3	Differnce between OLAP &OLTP
4	1	Class Test
	2	Sessional 1
	3	Types of Data Warehouses
5	1	Host based Data Warehouses
	2	single stage Data Warehouses
	3	LAN based Data Warehouses
6	1	SOT 1
	2	Multistage Data Warehouses
	3	stationary distributed Data Warehouses
7	1	virtual data-warehouses
	2	Data warehouses Architecture
	3	Operational data
8	1	Operational data bases
	2	Data warehouse architecture model
	3	Class Test
9	1	2-tier data warehouses.
	2	3-tier data warehouses.
	3	Revision
10	1	Sessional 2
	2	Sessional Discussion
	3	4-tier data warehouses.
11	1	OLAP
	2	OLAP Operartions
	3	DSS support in data warehouses.
12	1	SOT 2

	2	Data Mining
	3	Knowledge discovery through statistical techniques
13	1	Revision
	2	Fuzzy tech.
	3	Knowledge discovery through neural network
14	1	Doubt Clearance
	2	SOT 3
	3	Genetic algorithms
15	1	Different Techniques of Genetic Algorithm
	2	Previous Year Paper Discussion
	3	Sessional 3