

Lesson Plan of the 7th semester for session 2019-20 (July- Dec)

Name of the faculty:	Ms. Anshita
Designation:	Assistant Professor
Discipline:	Computer Science and Engg.
Semester:	7th
Subject:	Neural network (CSE-407-F)
Lesson Plan duration:	15 weeks
Work Load per week in hours:	Lectures- 03,Tut-01

Week	Lecture day	Topic
1	1	Overview of biological neurons: Structure of biological neurons relevant to ANNs
	2	Models of ANNs; Feedforward & feedback networks
	3	learning rules; Hebbian learning rule
2	4	perception learning rule
	5	delta learning rule
	6	Widrow-Hoff learning rule
3	7	correction learning rule
	8	Winner –take all learning rule
	9	Single layer Perception Classifier: Classification model
4	10	Features & Decision regions; training & classification using discrete perceptron algo
	11	single layer continuous perceptron networks for linearly seperable classifications.
	12	Multi-layer Feed forward Networks: linearly non-seperable pattern classification
5	13	Delta learning rule for multi-perceptron layer
	14	Generalized delta learning rule
	15	Error back-propagation training
6	16	learning factors, examples
	17	Single layer feed back Networks: Basic Concepts
	18	Hopfield networks
7	19	Training & Examples
	20	Associative memories: Linear Association
	21	Basic Concepts of recurrent Auto associative memory
8	22	Retrieval algorithm
	23	storage algorithm

	24	By directional associative memory
9	25	Architecture
	26	Association encoding & decoding
	27	Stability
10	28	Self organizing networks
	29	UN supervised learning of clusters
	30	Winner-take-all learning
11	31	Recall mode
	32	Initialisation of weights
	33	Separability limitations
12	34	Assignment
	35	Revision of unit 1.
	36	Test of unit 1
13	37	Assignment
	38	Revision of unit 2.
	39	Test of unit 2.
14	40	Revision of unit 3.
	41	Test of unit 3.
	42	Revision of unit 4.
15	43	Test of unit 4.
	44	Revision of whole syllabus
	45	Problem solving.

Lesson Plan of the 5th semester for session 2019-20 (July- Dec)

Name of the faculty:

Ms. Manisha

Designation: Assistant Professor
Discipline: Computer Science and Engg.
Semester: 5th
Subject: **Multimedia Technologies (IT-204-F)**
Lesson Plan duration: 15 weeks
Work Load per week in hours: Lectures- 03, Practical-04

Week	Lecture day	Topic (Including Assignment/Test)
UNIT – I		
1	1	Computers, communication and entertainment, multimedia an introduction,
	2	framework for multimedia systems Multimedia devices, CD- Audio, CD-ROM,
	3	CD-I, presentation device , professional development tools
2	4	Multimedia presentation and authoring Distribution network-ATM & ADSL
	5	LANs and multimedia,internet, World Wide Web
	6	multimedia Multimedia servers & databases vector graphics
3	7	3D graphics programs,animation techniques
	8	vector graphics ,Shading, anti aliasing
	9	Morphing,video on demand.
4	10	Making still images
	11	Editing and capturing images
	12	Scanning images
5	13	computer color models ,color palettes
	14	vector drawing
	15	3D drawing and rendering
UNIT – II		
6	16	JPEG-objectives and architecture
	17	JPEG-DCT encoding and quantization,
	18	JPEG statistical coding

7	19	JPEG predictive lossless coding
	20	JPEG performance; overview of other image file formats as GIF
	21	TIFF, BMP, PNG
UNIT – III		
8.	22	Digital representation of sound
	23	time domain sampled representation
	24	method of encoding the analog signals
9.	25	subband coding; fourier method; transmission of digital sound;
	26	sdigital audio signal processing; stereophonic & quadraphonic signal processing
	27	editing sampled sound; MPEG Audio
10.	28	audio compression & decompression; brief survey of speech recognition and generation
	29	audio synthesis; musical instrument digital interface; digital video and image compression; MPEG motion video
	30	compression standard;
11.	31	DVI technology; time base media representation and delivery
	32	Applications of multimedia
	33	intelligent multimedia system, desktop virtual reality
12.	34	VR operating system
	35	virtual environment displays and orientation making
	36	visually coupled system requirements
13.	37	intelligent VR software systems
	38	Applications of environment in various fields.
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15.	43	Array of Structures.
	44	File Handling
	45	Revision Unit IV

16.	44	Revision All syllabus
	45	Revision All syllabus