Lesson Plan & Work-done Diary for AY: 2024-25, ODD Semester

Course with Code: Deep Learning -21CS743				Faculty: Mrs. Neethi M V			Semester & Section: VI	
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Class No.**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-1								
1.		Introduction to Deep Learning: .	PPT	1				
2.		Introduction, Deep learning Model,	PPT	2				
3.		Historical Trends in Deep Learning,	PPT	3				
4.		Machine Learning Basics:	PPT	4				
5.		Learning Algorithms,	PPT	5				
6.		Supervised Learning Algorithms,	PPT	6				
7.		Supervised Learning Algorithms,	PPT	7				
8.		Unsupervised Learning Algorithm	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App	9				
10.								

Course with Code:Machine Learning -21AI63				Faculty: Mrs. Neethi M V			Semester & Section: VI	
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Class No.**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-2								
1.		Feedforward Networks:	PPT	1				
2.		Introduction to feedforward neural networks,	PPT	2				
3.		Gradient-Based Learning,	PPT	2				
4.		BackPropagation and Other Differentiation Algorithms.	PPT	4				
5.		BackPropagation and Other Differentiation Algorithms.	PPT	5				
6.		BackPropagation and Other Differentiation Algorithms.	PPT	6				
7.		Regularization for Deep Learning,	PPT	7				
8.		Regularization for Deep Learning,	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App					
10.								

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MODULE-3								
1.		**Optimization for Training Deep Models:** Empirical Risk Minimization,	PPT	1				
2.		Challenges in Neural Network Optimization,	PPT	2				
3.		Basic Algorithms: Stochastic Gradient Descent,	PPT	3				
4.		Parameter Initialization Strategies,	PPT	4				
5.		Algorithms with Adaptive Learning Rates:	PPT	5				
6.		The AdaGrad algorithm, .	PPT	6				
7.		The RMSProp algorithm,	PPT	7				
8.		Choosing the Right Optimization Algorithm	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App					
10.								

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MODULE-4								
1.		Convolutional Networks:	PPT	1				
2.		The Convolution Operation,	PPT	2				
3.		Pooling, Convolution and Pooling as an Infinitely	PPT	3				
4.		Strong Prior, Variants of the Basic Convolution Function	PPT	4				
5.		, Structured Outputs, Data Types,	PPT	5				
6.		Efficient Convolution Algorithms,	PPT	6				
7.		Random or Unsupervised Features-	PPT	7				
8.		LeNet, AlexNet.	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App					
10.								

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MODULE-5								
1.		Recurrent and Recursive Neural Networks:	PPT	1				
2.		Unfolding Computational Graphs,	PPT	2				
3.		Recurrent Neural Network,	PPT	3				
4.		Bidirectional RNNs, Deep Recurrent Networks,	PPT	4				
5.		Recursive Neural Networks, The Long Short Term Memory and Other Gated RNNs.	PPT	5				
6.		Applications: Large-Scale Deep Learning,	PPT	6				
7.		Computer, Speech Recognition,	PPT	7				
8.		Natural Language Processing and Other Applications.	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App	9				
10				10				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/Self-study	2		
3	Tutorials/ Extra classes	1		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	