M. Sc (Information Technology)		Semester – IV	
Course Name: Deep Learning Practical		**Course Code: PSIT4P3a**	
Periods per week (1 Period is 60 minutes)		4	
Credits		2	
		Hours	**Marks**
Evaluation System	**Practical Examination**	2	50
	Internal	--	--

List of Practical:	
1.	Performing matrix multiplication and finding eigen vectors and eigen values using TensorFlow
2.	Solving XOR problem using deep feed forward network.
3.	Implementing deep neural network for performing binary classification task.
4.	a) Using deep feed forward network with two hidden layers for performing multiclass classification and predicting the class. b) Using a deep feed forward network with two hidden layers for performing classification and predicting the probability of class. c) Using a deep feed forward network with two hidden layers for performing linear regression and predicting values.
5.	a) Evaluating feed forward deep network for regression using KFold cross validation. b) Evaluating feed forward deep network for multiclass Classification using KFold cross-validation.
6.	Implementing regularization to avoid overfitting in binary classification.
7.	Demonstrate recurrent neural network that learns to perform sequence analysis for stock price.
8.	Performing encoding and decoding of images using deep autoencoder.
9.	Implementation of convolutional neural network to predict numbers from number images
10.	Denoising of images using autoencoder.