MANDSAUR UNIVERSITY - Faculty of Engineering and Technology

Department of Computer Science & Engineering
SYLLABUS FOR 5 Semester B.Tech PROGRAMME
Deep Learning (CSE766PR1)

Type of Course: B.Tech

Prerequisite:

Rationale: -

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
				External		Internal			
Lecture Hrs/ Week	Tutorial Hrs/ Week	Lab Hrs/ Week		TH-EST	PR-EST	Th - MST	CET	Pr - MST	
0	0	2	1	-	25	-	10	15	50

SEE - Semester End Examination, **Th - MST** - Mid Semester Test, **Pr - MST** - Mid Semester Practical

List of Practical:

1. Implementation of Python Basic Libraries such as Statistics, Math, Numpy and Scipy

2. WAP to implement Union, Intersection and Complement operations.

3. Implementation of Python Libraries for ML application such as Pandas and Matplotlib.

4. WAP to implement Artificial Neural Network

5. Creation and Loading different types of datasets in Python using the required libraries.

6. WAP for Implementation of different activation functions to train Neural Network.

7. Implement Dimensionality reduction using Principle component Analysis method on a dataset iris

8. WAP for implementation of different Learning Rules.

9. WAP for implementation of Perceptron Networks.

10. WAP for implementation of Pattern matching using different rules.

12. WAP related to application of deep learning in healthcare.

13. WAP related to application of deep learning in business analysis.

15. Implement Support Vector Machine for a dataset and compare the accuracy by applying the following kernel functions: