



"Think Big...
Think Beyond"

ITM(SLS) BARODA UNIVERSITY
SCHOOL OF COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY (SOCSET)
EVEN SEMESTER 2024-25

<CET-2 > SYLLABUS

PROGRAM: <B. TECH >

BRANCH: CSE/IT/AI SEMESTER: VII

SUB-CODE:

SUB-NAME: Deep Learning

Unit # (As per University Syllabus)	Unit Name	Topics
1	Convolutional Neural Networks	Architectural Overview – Motivation - Layers – Filters – Parameter sharing – Regularization, Popular CNN Architectures: ResNet, AlexNet.
2	Transfer Learning	Transfer learning Techniques, Variants of CNN: DenseNet, PixelNet
3	Sequence Modelling – Recurrent and Recursive Nets	Recurrent Neural Networks, Bidirectional RNNs – Encoder-decoder sequence to sequence architectures - BPTT for training RNN, Long Short-Term Memory Networks.