VIVEKANANDA INSTITUTE OF PROFESSIONAL STUDIES - TECHNICAL CAMPUS
Grade A++ Accredited Institution by NAAC
NBA Accredited for MCA Programme; Recognized under Section 2(f) by UGC;
Affiliated to GGSIP University, Delhi; Recognized by Bar Council of India and AICTE
An ISO 9001:2015 Certified Institution
SCHOOL OF ENGINEERING & TECHNOLOGY

ASSIGNMENT 1 (UNIT-I &II)					
Subject : UNSUPERVISED LEARNING		**Subject Code: ML-465T**		**Sem: VII Branch: CSE**	
S. No.	QUESTION	CO	BL	MARKS	
1	Differentiate between **Supervised and Unsupervised Learning** with suitable examples.	1	1,2	5	
2	Explain **DBSCAN clustering** with an example. How does it differ from hierarchical clustering?	1,4	2,3	5	
3	Describe the working of the **Variational Bayesian Gaussian Mixture Model**. Why is it preferred over standard GMM?	2	2	5	
4	Apply **Isomap manifold learning** technique on a dataset of your choice (e.g., digits dataset) and explain the results.	2,3	2,3,4	5	