

Module:7	Advanced Learning Algorithms	4	Hours	SLO:9
Random Forests – Ensemble Learning – Graphical Models				
Module:8	Contemporary Issues	2	Hours	
	Total Lecture:	45	Hours	
Text Books:				
1.	Friedman Jerome, Trevor Hastie, and Robert Tibshirani. The Elements of Statistical Learning. Springer-Verlag, 2 nd Edition, 2013.			
2.	Ethem Alpaydin,”Introduction to Machine Learning”, MIT Press, Third Edition 2014.			
Reference Books:				
1.	Kevin P. Murphy, “Machine Learning: A Probabilistic Perspective”, MIT Press, 2012			
2.	Peter Flach, “Machine Learning: The Art and Science of Algorithms that Make Sense of Data”, Cambridge University Press, 2012.			
3.	Michael Bowles, Machine Learning in Python: Essential Techniques for Predictive Analysis, Wiley, 2015			
Typical Projects:				SLO: 9
1. Leaning from Data – Datasets for various domains can be downloaded				
2. Video Analytics				
3. Speaker Recognition				
4. Image based object identification				