

## Faculty of Engineering & Technology

## **Machine Learning and Pattern Recognition**

Information :					
Course Code : EED472	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department : Computer & Intellige	ent Systems	Engir	neering		
Description :					
Introduction to Machine Learning: Co Application Domains. Machine Learn Exploration: Sampling, Principal Cor Data Analysis. Fundamental Classifi and structural pattern recognition ap parameter estimation. Nearest neigh	ning and Stat mponent Ana ication Strate proaches. Ba nbour rule. No	istics. lysis, gies. ayesia on-pa	Data Pre-processing Feature Extraction, E Clustering Technique an decision theory. M rametric	g and Exploratory es. Statistical aximum Likelihood ar	nd Bayesian

- classifiers. Linear discriminate functions. Non-linear classifiers. Multi-layer neural networks. Features selection. Template matching. Unsupervised learning and Cluster
- analysis. Supervised learning.