



Dr D Y Patil Pratishthan's
Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune

Course Outcomes

Syllabus: BE_Sem-II(2015 Pattern)

Department : Computer Engineering

Subject:	Machine Learning	Subject Code:	410250
CO1	410.1	Distinguish different learning based applications	
CO2	410.2	Apply different preprocessing methods to prepare training data set for machine learning	
CO3	410.3	Design and implement supervised and unsupervised machine learning algorithm	
CO4	410.4	Implement different learning models	
CO5	410.5	Demonstrate ensemble learning and meta classifiers methods	
CO6	410.6	Select and apply different clustering techniques & recommendation systems	

Subject:	Information and Cyber Security	Subject Code:	410251
CO1	411.1	Choose the information security threats, security protections and limitations	
CO2	411.2	Analyse data encryption techniques and standards	
CO3	411.3	Compare different key management techniques	
CO4	411.4	Demonstrate the performance and troubleshoot cyber security systems.	
CO5	411.5	Formulate different ways to manage IP security.	
CO6	411.6	Create appropriate security solutions for different applications .	



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Subject:	Data Analytics	Subject Code:	410243
CO1	403.1	Describe and analyze applications of data analytics life cycle	
CO2	403.2	Demonstrate the different big data analytics methods used in analysis	
CO3	403.3	Demonstrate and apply association rules and mining techniques	
CO4	403.4	Compare and analyze the different classification algorithms performance	
CO5	403.5	Implement data visualization using visualization tools	
CO6	403.6	Design & implement big databases using hadoop ecosystem	

Subject:	Elective III (Embedded and Real Time Operating System)	Subject Code:	410252 -(C)
CO1	412C.1	Recognize and classify embedded and real-time systems	
CO2	412C.2	Explain communication bus protocols used for embedded and real-time systems	
CO3	412C.3	Classify and exemplify scheduling algorithms	
CO4	412C.4	Apply software development process to a given RTOS application	
CO5	412C.5	Design a given RTOS based application	
CO6	412C.6	Evaluate various approaches to real-time scheduling	

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Department : Computer Engineering

Subject:	Elective IV (Cloud Computing)		Subject Code:	410253 -(C)
CO1	413C.1	Identify the architecture and infrastructure of cloud computing including SaaS, PaaS, IaaS, public cloud, private cloud and hybrid cloud.		
CO2	413C.2	Articulate the concepts ,key technologies, strength and limitation of cloud computing and possible application		
CO3	413C.3	Explain the various paradigms of cloud computing and computing techniques.		
CO4	413C.4	Interpret various data, scalability and cloud services to acquire efficient database for cloud storage.		
CO5	413C.5	Describe the appropriate cloud computing solutions and recommendations according to Ubiquitous Clouds and the Internet of Things application		
CO6	413C.6	Discuss the core issues of cloud computing such as privacy and interoperability and deal with controlling mechanism for accessing cloud service.		

Subject:	Laboratory Practice III		Subject Code:	410254
CO1	414.1	Identify different machine learning techniques		
CO2	414.2	Implement machine learning algorithms on to the dataset		
CO3	414.3	Analyse different cryptography and information security methods		
CO4	414.4	Design different security algorithms		



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Subject:	Laboratory Practice IV	Subject Code:	410255
CO1	415.1	Design and model real time embedded System	
CO2	415.2	Analyze Cloud computing environment and installation of cloud	
CO3	415.3	Design and develop custom Application on cloud and Esiot	
CO4	415.4	Analyze the platform of Cloud and Azure	

Subject:	Project Work Stage II	Subject Code:	410256
CO1	416.1	Show evidence of independent investigation and Critically analyze the results and their interpretation.	
CO2	416.2	Report and present the original results in an orderly way and placing the open questions in the right perspective.	
CO3	416.3	Link techniques and results from literature as well as actual research and future research lines with the research	
CO4	416.4	Appreciate practical implications and constraints of the specialist subject	