	Dr D Y Patil Pratishthan's **Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune**
Course Outcomes	
Syllabus: BE_Sem-I(2015 Pattern)	
Department : Computer Engineering	

Subject:	**High Performance Computing**		**Subject Code:**	**410241**
CO1	401.1	To Understand performance bottelnecks & Improvement arguments		
CO2	401.2	Design parallel algorithm for higher performance and issue related to it		
CO3	401.3	To learn Advance Techniques to improve performance using parallel, distributed algorithms & Hardware.		
CO4	401.4	To study different parallel computing platforms		
CO5	401.5	To measure and anlyse performance of different algorithms		
CO6	401.6	To develop parallel algorithms using CUDA architecutre		

Subject:	**Artificial Intelligence & Robotics**		**Subject Code:**	**410242**
CO1	402.1	Identify different search methods to formalize the AI problem		
CO2	402.2	Use database techniques such as SQL & PL/SQL.		
CO3	402.3	Classify different strategies for problem decomposition and planning		
CO4	402.4	Analyze machine learning algorithms to process large amounts of natural language data.		
CO5	402.5	Illustrate the concepts of Robotic system, its components , sensors and controls		
CO6	402.6	Choose particular robot for specific application and parameters required to operate it		

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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 I (Pervasive and Ubiquitous Computing)**		**Subject Code:**	**410244 -(C)**
CO1	404C.1	Understand the principles of Pervasive computing		
CO2	404C.2	Explain smart devices and services used by Ubicomp Systems.		
CO3	404C.3	Analyze and estimate the impact of pervasive computing on future computing applications and society		
CO4	404C.4	Develop skill sets to propose solutions for problems related to pervasive computing system		
CO5	404C.5	Describe the significance of actuators and controllers in real time application design.		
CO6	404C.6	Design a preliminary system to meet desired needs within the constraints of a		

		particular problem space

Subject:	Elective I (Data Mining and Warehousing)	Subject Code:	410244 -(D)
CO1	404D.1	Identify the key process of Data mining and Warehousing	
CO2	404D.2	Apply appropriate techniques to convert raw data into suitable format for practical data mining tasks	
CO3	404D.3	Analyze and compare various classification algorithms and apply in appropriate domain	
CO4	404D.4	Evaluate the performance of various classification methods using performance metrics	
CO5	404D.5	Make use of the concept of association rule mining in real world scenario	
CO6	404D.6	Select appropriate clustering and algorithms for various applications	

Subject:	Elective II (Software Testing and Quality Assurance)	Subject Code:	410245 -(B)
CO1	405B.1	Understand the basics of software testing and software quality	
CO2	405B.2	Describe fundamental concepts in software testing such as manual testing, automation testing and software quality assurance	
CO3	405B.3	Design project test plan, design test cases, test data, and conduct test operations	
CO4	405B.4	Apply recent automation tool for various software testing for testing software	

CO5	405B.5	Apply different approaches of quality management, assurance, and quality standard to software system
CO6	405B.6	Analyze effectiveness of Software Quality Tools

Subject:	**Elective II (Mobile Communication)**	**Subject Code:**	**410245 -(D)**
CO1	405D.1	Memorize various wireless communication technologies.	
CO2	405D.2	Analyze important steps in GSM communication and CDMA.	
CO3	405D.3	Evaluate the mobile IP and Transport Protocol.	
CO4	405D.4	Interpret the important aspects of Mobile Adhoc Networks.	
CO5	405D.5	Define Current 3G and 4G Technologies.	
CO6	405D.6	Illustrate the knowledge gained to design and develop a mobile application.	

Subject:	**Laboratory Practice I**	**Subject Code:**	**410246**
CO1	406.1	Apply different techniques of parallel programming	
CO2	406.2	student will do C programming of CUDA hardware to solve mathametical problem.	
CO3	406.3	Apply AI techniques to solve complex problems	

CO4	406.4	will learn different technique to analyse data to undersatnd nature of data.

Subject:	**Laboratory Practice II**	**Subject Code:**	**410247**
CO1	407.1	Summarize the mining process by choosing best data mining technique	
CO2	407.2	Analyze the output generated by the process of data mining	
CO3	407.3	Describe fundamental concepts in software testing and software quality assurance.	
CO4	407.4	Apply different approaches of quality managemen tto software system	

Subject:	**Project Work Stage I**	**Subject Code:**	**410248**
CO1	408.1	Solve real life problems by applying knowledge and skills keeping eye on current technologies and inculcating the practice of lifelong learning	
CO2	408.2	Analyze alternative approaches, apply and use most appropriate one for feasible solution exhibiting project management skills Project Work Book	
CO3	408.3	Write precise reports and technical documents in a nutshell	
CO4	408.4	Participate & Demonstrate effectively in multi-disciplinary and heterogeneous teams exhibiting team work, Inter-personal relationships, conflict management and leadership quality	