



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

Course Outcomes

Syllabus: TE_Sem-II(2015 Pattern)

Department : Computer Engineering

Subject:	Design & Analysis of Algorithms	Subject Code:	310250
CO1	310.1	Describe fundamentals and applications of algorithms	
CO2	310.2	Design models and formulate the problem	
CO3	310.3	Apply algorithmic strategy and solve given problem	
CO4	310.4	Analyze the asymptotic performance of algorithms	
CO5	310.5	Demonstrate various amortized algorithms	
CO6	310.6	Evaluate optimal solution by applying various problem solving methods	

Subject:	Systems Programming & Operating System	Subject Code:	310251
CO1	311.1	Define and understand basics of System software.	
CO2	311.2	Design basic system software using different data structures	
CO3	311.3	Use language translation tools like LEX & YACC for lexical analysis and syntax analysis respectively.	
CO4	311.4	Demonstrate basic operating system functions. Analyze processes, threads and scheduling algorithms.	
CO5	311.5	Explain memory management policies	
CO6	311.6	Describe I/O management policies	



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Subject:	Embedded Systems & Internet of Things	Subject Code:	310252
CO1	312.1	Understand the fundamentals of IoT and embedded system	
CO2	312.2	Explain the Embedded IoT platform and Design methods of IoT	
CO3	312.3	Discuss architectural design for IoT and physical devices	
CO4	312.4	Explain different IoT protocols & Security elements in IoT	
CO5	312.5	Analyze web of things and cloud of things based on infrastructure requirement	
CO6	312.6	Compare different technologies using case studies	

Subject:	Software Modeling and Design	Subject Code:	310253
CO1	313.1	Analyze the problem statement (SRS) and choose proper design technique for designing web- based/ desktop application.	
CO2	313.2	Design and analyze an application using UML modeling as fundamental tool.	
CO3	313.3	Apply design patterns to understand reusability in OO design.	
CO4	313.4	Decide and apply appropriate modern tool for designing and modeling.	
CO5	313.5	Decide and apply appropriate modern testing tool for testing web-based/desktop application	
CO6	313.6	Define testing techniques and create test strategies and plans using appropriate modern testing tools for web based/ desktop applications.	



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Subject:	Web Technology	Subject Code:	310254
CO1	314.1	Understand Web development process and use different front end tools	
CO2	314.2	Develop web based application using client side technology JavaScript	
CO3	314.3	Develop web based application using server side technology Servlet and JSP	
CO4	314.4	Develop web based application using server side technology PHP and AJAX	
CO5	314.5	Develop application using client side and server side frameworks.	
CO6	314.6	Understand different web services and develop solution using Content Management System	

Subject:	Seminar & Technical Communication	Subject Code:	310255
CO1	315.1	Define basic technical writing concepts and terms.	
CO2	315.2	Summarize the audience analysis, jargon, format, visuals, and presentation.	
CO3	315.3	Examine and implement the skills to read, understand, and interpret material on technology.	
CO4	315.4	Buid communication and writing skills.	



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Department : Computer Engineering

Subject:	Web Technology Lab	Subject Code:	310256
CO1	316.1	Develop web based application using suitable client side web technologies	
CO2	316.2	Develop web based application using suitable server side web technologies	
CO3	316.3	Develop web based application using suitable client side and server side frameworks	
CO4	316.4	Develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management	

Subject:	SP & OS Lab	Subject Code:	310257
CO1	317.1	Implement basic language translator by using various needed data structures	
CO2	317.2	Understand the internals of language translators	
CO3	317.3	Handle tools like LEX & YACC	
CO4	317.4	Understand the internals of language translators	

Subject:	ES & IoT Lab	Subject Code:	310258
CO1	318.1	Study and understand the fundamentals and terminologies of IoT	
CO2	318.2	Develop Solution for Problem in Society like Home safety, Traffic Signal, Lift Elevator etc.	



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CO3	318.3	Develop Client-Server Application to be deployed on Raspberry-Pi board & solve problems related to the primitive needs using IoT.
CO4	318.4	Develop web interface for Raspberry-pi/Beagle board to control the connected LEDs remotely through the interface.