



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

Course Outcomes

Syllabus: TE_Sem-I(2015 Pattern)

Department : Computer Engineering

Subject:	Theory of Computation	Subject Code:	310241
CO1	301.1	Implement formal language, translation logic, essentials of translation, alphabets, language representation and apply it to design Finite Automata and its variants	
CO2	301.2	Construct regular expression to present regular language and understand pumping lemma for RE	
CO3	301.3	Design Context Free Grammars and learn to simplify the grammar	
CO4	301.4	Construct Pushdown Automaton model for the Context Free Language	
CO5	301.5	Design Turing Machine for the different requirements outlined by theoretical computer science	
CO6	301.6	Describe & Use different classes of problems, classify and analyze them and study concepts of NP completeness	

Subject:	Database Management Systems	Subject Code:	310242
CO1	302.1	Design E-R Model for given requirements and convert the same into database tables.	
CO2	302.2	Develop a database using techniques such as SQL & PL/SQL.	
CO3	302.3	Apply modern database techniques such as NOSQL.	
CO4	302.4	Explain transaction Management in relational database System.	
CO5	302.5	Describe different database architecture and analyses the use of appropriate architecture in real time environment.	



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CO6	302.6	Use advanced database Programming concepts Big Data –HADOOP
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Subject:	Software Engineering & Project Management	Subject Code:	310243
CO1	303.1	Select appropriate model for developing a software project	
CO2	303.2	Analyze software requirements and identify the unique features of various domains	
CO3	303.3	Design process for software project development.	
CO4	303.4	Explain the concept of software project management.	
CO5	303.5	Understand the risk management and reengineering for software project management.	
CO6	303.6	Apply the various testing technique on different level of software project development	

Subject:	Information Systems & Engineering Economics	Subject Code:	310244
CO1	304.1	Explain the need, usage & importance of Information system for organization	
CO2	304.2	Discuss the activities that are required for managing computerized Information system in an organization.	
CO3	304.3	Analyze Various Information system solutions like ERP, CRM, Data warehouses and issues in successful Implementation of these technology solution.	
CO4	304.4	Analyze cost/ revenue, data, and economic analysis in decision making process.	
CO5	304.5	Solve problems related to present worth, future worth and annual worth analyses of one or more economic alternatives.	



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CO6	304.6	Evaluate benefits / cost life cycle and break even analysis of one or more economic alternatives.
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Subject:	Computer Networks	Subject Code:	310245
CO1	305.1	Summarize & demonstrate fundamental concepts of Computer Networks, architectures, protocols and technologies	
CO2	305.2	Interpret the logical link control working and functions	
CO3	305.3	Describe, analyze and evaluate the media access contention	
CO4	305.4	Analyze the assignment of IP addresses to the organizations and working of different routing protocols with mechanisms	
CO5	305.5	Illustrate Client-Server architectures and prototypes by the means of correct standards and technology	
CO6	305.6	Illustrate role of application layer with its protocols	

Subject:	Skills Development Lab	Subject Code:	310246
CO1	306.1	Evaluate problems and analyze data using current technologies in a wide variety of business and organizational contexts	
CO2	306.2	Apply Integrated Development Environment(IDE) for implementing and testing of software solution	
CO3	306.3	Integrate fundamental features of high level programming language and develop standalone application	
CO4	306.4	Integrate best practices for building mobile based applications	



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Subject:	DBMS Lab	Subject Code:	310247
CO1	307.1	Develop the ability to handle databases of varying complexities.	
CO2	307.2	Use advance database programming Concepts.	
CO3	307.3	Implement project using IDE	
CO4	307.4	Apply database connectivity for database application	

Subject:	Computer Network Lab	Subject Code:	310248
CO1	308.1	Summarize and demonstrate the requirements of network types, topology and transmission media	
CO2	308.2	Demonstrate error control, flow control techniques and protocols and analyze them	
CO3	308.3	Analyze data flow between peer to peer in an IP network using Application, Transport and Network Layer Protocols	
CO4	308.4	Demonstrate the subnet formation with IP allocation mechanism, apply various routing algorithms and develop Client-Server architectures and prototypes by the means of correct standards and technology	