



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

**Course Outcomes**

**Syllabus: TE\_Sem-II(2019 Pattern)**

**Department : Computer Engineering**

<b>Subject:</b>	<b>Data Science and Big Data Analytics</b>	<b>Subject Code:</b>	<b>310251</b>
CO1	311.1	Analyze needs and challenges for Data Science & Big Data Analytics	
CO2	311.2	Apply statistics for Big Data Analytics	
CO3	311.3	Apply the lifecycle of Big Data analytics to real world problems	
CO4	311.4	Implement Big Data Analytics using Python programming	
CO5	311.5	Implement data visualization using visualization tools in Python programming	
CO6	311.6	Design and implement Big Databases using the Hadoop ecosystem	

<b>Subject:</b>	<b>Web Technology</b>	<b>Subject Code:</b>	<b>310252</b>
CO1	312.1	Implement and analyze behavior of web pages using HTML and CSS	
CO2	312.2	Apply the client side technologies for web development	
CO3	312.3	Analyze the concepts of Servlet and JSP	
CO4	312.4	Analyze the Web services and frameworks	
CO5	312.5	Apply the server side technologies for web development	
CO6	312.6	Create the effective web applications for business functionalities using latest web development platforms	



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<b>Subject:</b>	<b>Artificial Intelligence</b>	<b>Subject Code:</b>	<b>310253</b>
CO1	313.1	Identify and apply suitable Intelligent agents for various AI applications	
CO2	313.2	Build smart system using different informed search / uninformed search or heuristic approaches	
CO3	313.3	Identify knowledge associated and represent it by ontological engineering to plan a strategy to solve given problem	
CO4	313.4	Apply the suitable algorithms to solve AI problems	
CO5	313.5	Implement ideas underlying modern logical inference systems	
CO6	313.6	Represent complex problems with expressive yet carefully constrained language of representation	

<b>Subject:</b>	<b>Elective II: Cloud Computing</b>	<b>Subject Code:</b>	<b>310254(C)</b>
CO1	314C.1	Understand Different Cloud Computing Environment	
CO2	314C.2	Use appropriate data storage technique on Cloud, based on Cloud Applications	
CO3	314C.3	Analyze virtualization technology and install Virtualization Software	
CO4	314C.4	Develop and Deploy Applications of Cloud	
CO5	314C.5	Apply Security in Cloud Applications	



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CO6	314C.6	Use advanced techniques in Cloud Computing'
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<b>Subject:</b>	<b>Elective II:Software Modeling and Architecture</b>	<b>Subject Code:</b>	<b>310254(D)</b>
CO1	314D.1	Analyze the problem statement (SRS) and choose proper design technique for designing web-based/ desktop application	
CO2	314D.2	Design and analyze an application using UML modeling as fundamental tool	
CO3	314D.3	Evaluate software architectures	
CO4	314D.4	Use appropriate architectural styles and software design patterns	
CO5	314D.5	Apply appropriate modern tool for designing and modeling	

<b>Subject:</b>	<b>Internship</b>	<b>Subject Code:</b>	<b>310255</b>
CO1	315.1	To demonstrate professional competence through industry internship.	
CO2	315.2	To apply knowledge gained through internships to complete academic activities in a professional manner.	
CO3	315.3	To choose appropriate technology and tools to solve given problem	
CO4	315.4	To demonstrate abilities of a responsible professional and use ethical practices in day to day life.	



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CO5	315.5	Creating network and social circle, and developing relationships with industry people
CO6	315.6	To analyze various career opportunities and decide carrier goals.

<b>Subject:</b>	<b>Data Science and Big Data Analytics Laboratory</b>	<b>Subject Code:</b>	<b>310256</b>
CO1	316.1	Apply principles of Data Science for the analysis of real time problems	
CO2	316.2	Implement data representation using statistical methods	
CO3	316.3	Implement and evaluate data analytics algorithms	
CO4	316.4	Demonstrate text preprocessing	
CO5	316.5	Implement data visualization techniques	
CO6	316.6	Use cutting edge tools and technologies to analyze Big Data	

<b>Subject:</b>	<b>Web Technology Laboratory</b>	<b>Subject Code:</b>	<b>310257</b>
CO1	317.1	Understand the importance of website planning and website design issues	
CO2	317.2	Apply the client side and server side technologies for web application	



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		development
CO3	317.3	Analyze the web technology languages, frameworks and services
CO4	317.4	Create three tier web based applications

<b>Subject:</b>	<b>Laboratory Practice II</b>	<b>Subject Code:</b>	<b>310258</b>
CO1	318.1	Design a system using different informed search / uninformed search or heuristic approaches	
CO2	318.2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning	
CO3	318.3	Design and develop an interactive AI application	
CO4	318.4	Use tools and techniques in the area of Cloud Computing Or Use tools and techniques in the area Software Modeling and Architectures	
CO5	318.5	Use cloud computing services for problem solving. Or Use the knowledge of Software Modeling and Architectures for problem solving	
CO6	318.6	Design and develop applications on cloud Or Design and develop applications using UML as fundamental tool	