




Progressive Education Society's  
Modern College Of Engineering, Pune-05.  
DEPARTMENT OF INFORMATION TECHNOLOGY

### Programme Outcomes

<p><b>1. Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</p>
<p><b>2. Problem analysis:</b> Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</p>
<p><b>3. Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.</p>
<p><b>4. Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.</p>
<p><b>5. Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.</p>
<p><b>6. The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.</p>
<p><b>7. Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</p>
<p><b>8. Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</p>
<p><b>9. Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</p>
<p><b>10. Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</p>
<p><b>11. Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.</p>

**12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



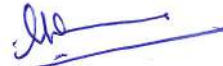
  
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**Programme Specific Outcomes**

1. Graduate exhibits skills to analyze, design and develop software.
2. Graduate demonstrate technical competency and leadership qualities to work in multidisciplinary environment.

  
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<b>CO No.</b>	<b>Course Outcome (BE, Sem-I 2012 Pattern)</b>
<b>414453 Information and Cyber Security</b>	
414453.1	Elaborate the essentials of the Information Security
414453.2	Demonstrate the role of principle concepts with major issues for modeling a secure
414453.3	Determine different techniques of Data and Network Security
414453.4	Make use of Cyber Security with Modern tools and Methods
<b>414454 Software Modeling and Design</b>	
414454.1	Demonstrate the usage of various UML Diagrams to build a model.
414454.2	Design an Object Oriented model in business and solution domain
414454.3	Implementation of Object Oriented Principles in the design of software system
414454.4	Name GOF Design Patterns
414454.5	Compare Different Types of Software Testing methods
<b>414455 Machine Learning</b>	
414455.1	Recall the basic concepts of Linear Algebra and Probability Basics.
414455.2	Compare different machine learning models.
414455.3	Experiment with supervised and un-supervised learning models.
414455.4	Analyze and design various problems using machine learning methods.
414455.5	Explain recent trends in machine learning.
<b>414456 E :Cloud Computing</b>	
414456 E.1	Elaborate basic concepts in the area of Cloud Computing
414456 E.2	Experiment with cloud implementation and it's monitoring.
414456 E.3	Illustrate importance of cloud security
414456 E.4	Outline ubiquitous computing
<b>414457 A :Business Intelligence</b>	
414457 A.1	Design and illustrate the OLTP, OLAP concepts.
414457 A.2	Design and develop data warehouse using various schemas and dimensional
414457 A.3	Make use of ETL concepts, tools and techniques.
414457 A.4	Demonstrate the reporting concept by using various tools and techniques.
414457 A.5	Analyze different techniques of analytics in BI.
414457 A.6	List recent tools and techniques in BI.
<b>414458 Software Laboratory - III</b>	
414458.1(IC)	The students will be able to implement and port controlled and secured access to
414458.2	The students will be able to build learning software in various domains.
<b>414459 Software Laboratory - IV</b>	
414459.1	Students will be able to identify classes and collaboration from requirements.
414459.2	Students will be able to prepare analysis and design model and implement.
414459.3	Students will be able to use the test driven development approach in
414459.4	Students will be able to experience Object Oriented Software Development life cycle activities
<b>414460 Project Phase I</b>	

C414460

At the end of this course the student should be able to show preparedness to study independently in chosen domain of Information Technology and programming languages and apply to variety of real time problem scenarios.



  
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<b>CO No.</b>	<b>Course Outcome</b> <i>BE SEM II (2012)</i>
<b>414461: DS</b>	
414461.1	To illustrate the fundamentals of distributed environment in complex environment.
414461.2	To design a simple distributed application by using middleware interfaces.
414461.3	To infer comprehensive knowledge of algorithms in distributed system.
414461.4	To summarize distributed file and multimedia system in distributed system.
414461.5	To classify security issues and its protection mechanism in distributed system.
<b>414462: ADBMS</b>	
414462.1	Elaborate advances in Databases and its architectures.
414462.2	Design the basics of web and object oriented database using XML and JDOQL.
414462.3	Construct the basic concepts of NOSQL databases such as Cassandra and DynamoDB.
414462.4	Understand big data analytics and implementation of machine learning algorithm for
414462.5	Design text mining and web mining applications.
<b>414463 D: ITES</b>	
414463 D.1	Students will be able to understand the process of IT Industry
414463 D.2	Students will be able to understand Indian laws of IT industry
414463 D.3	Student will be able to study current trends and services in IT industry
414463 D.4	Student will be able to understand programming concept of IT Web services.
<b>414463A: MC</b>	
414463A.1	Understand the GSM architecture.
414463A.2	Illustrate mobility management.
414463A.3	Categorize and apply different wireless architectures
414463A.4	Explain recent trends and emerging technologies.
414463A.5	Develop mobile application based on android.
<b>414464 D: IOT</b>	
414464 D.1	Explain what Internet of Things is.
414464 D.2	Describe key technologies in Internet of Things.
414464 D.3	Understand wireless sensor network architecture and its framework along with WSN
414464 D.4	Explain resource management in the Internet of Things.
414464 D.5	Understand business models for the Internet of Things.
<b>414464 C: GreenIT</b>	
414464 C.1	Students will be able to create awareness among stakeholders and promote green
414464 C.2	To Understand data center energy challenges.
<b>414464 C: SL_V</b>	
414465.1	Understand the principles on which the internet and other distributed systems are based.
414465.2	Understand and apply the basic theoretical concepts and algorithms of distributed
<b>414466:SL-VI</b>	
414466.1	Understanding of Advanced Database Programming Languages.
414466.2	Master the basics of web and object oriented database languages and construct queries
414466.3	Master the basic concepts of NoSQL Databases.
414466.4	Understand how analytics and big data affect various functions now and in the future.
414466.5	Appreciate the impact of analytics and big data on the information industry and the
<b>414461: Project Work</b>	

C414460

At the end of this course the student should be able to show preparedness to study



  
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