



LOKNETE. DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)

PRAVARA RURAL EDUCATION SOCIETY

**PRAVARA RURAL ENGINEERING COLLEGE**

**LONI**

# Final Year of Information Technology

## SEM I (2015 Course)

### (With effect from AY 2018-19)

<b>Course Code: 414453</b>	
<b>Course Name: Information and Cyber Security</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
414453.1	Use basic cryptographic techniques in application development.
414453.2	Apply methods for authentication, access control, intrusion detection and prevention.
414453.3	To apply the scientific method to digital forensics and perform forensic investigations.
414453.4	To develop computer forensics awareness.
414453.5	Ability to use computer forensics tools.

<b>Course Code: 414454</b>	
<b>Course Name: Machine Learning and Applications</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
414454.1	Model the learning primitives.
414454.2	Build the learning model.
414454.3	Tackle real world problems in the domain of Data Mining and Big Data Analytics, Information Retrieval, Computer vision, Linguistics and Bioinformatics.



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<b>Course Code: 414455</b>	
<b>Course Name: Software Design and Modeling</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
414455.1	Understand object oriented methodologies, basics of Unified Modeling Language (UML).
414455.2	Understand analysis process, use case modeling, domain/class modeling
414455.3	Understand interaction and behavior modeling.
414455.4	Understand design process and business, access and view layer class design.
414455.5	Get started on study of GRASP principles and GoF design patterns.
414455.6	Get started on study of architectural design principles and guidelines in the various type of application development.

<b>Course Code: 414456C: Elective-I</b>	
<b>Course Name: Usability Engineering</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
414456C.1	Justify the theory and practice of usability evaluation approaches, methods and techniques.
414456C.2	2Compare and evaluate strengths and weaknesses of various approaches, methods and techniques for evaluating usability.
414456C.3	Design and implement a usability test plan, based on modelling or requirements specification.
414456C.4	Choose appropriate approaches, methods and techniques to evaluate the usability of a specified interactive system



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<b>Course Code: 414457C: Elective-II</b>	
<b>Course Name: Software Testing and Quality Assurance</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
<b>414457C.1</b>	Test the software by applying testing techniques to deliver a product free from bugs.
<b>414457C.2</b>	Investigate the scenario and to select the proper testing technique.
<b>414457C.3</b>	Explore the test automation concepts and tools and estimation of cost, schedule based on standard metrics.
<b>414457C.4</b>	Understand how to detect, classify, prevent and remove defects.
<b>414457C.5</b>	Choose appropriate quality assurance models and develop quality.
<b>414457C.6</b>	Ability to conduct formal inspections, record and evaluate results of inspections.

<b>Course Code: 414458</b>	
<b>Course Name: Computer Laboratory VII</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
<b>414458.1</b>	The students will be able to implement and port controlled and secured access to software systems and networks.
<b>414458.2</b>	The students will be able to build learning software in various domains.

<b>Course Code: 414459</b>	
<b>Course Name: Computer Laboratory VIII</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
<b>414459.1</b>	Draw, discuss different UML 2.0 diagrams, their concepts, notation, advanced notation, forward and reverse engineering aspects.



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414459.2	Develop use case model.
414459.3	Develop, implement analysis model and design model.
414459.4	Develop, implement Interaction and behavior Model.
414459.5	Implement an appropriate design pattern to solve a design problem.
414459.6	Identify different software artifacts used to develop analysis and design model from requirements.

<b>Course Code: 414460</b>	
<b>Course Name: Project Phase-I</b>	
<b>Sr. No</b>	<b>Course Outcome</b>
414460.1	To show preparedness to study independently in chosen domain of Information Technology and programming languages and apply their acquired knowledge to variety of real time problem scenarios.
414460.2	To function effectively as a team to accomplish a desired goal.
414460.3	An understanding of professional, ethical, legal, security and social issues and responsibilities related to Information Technology Project.