

<b>Course Title</b>	<b>Software Requirements Engineering</b>
<b>Course Code</b>	<b>SI-341</b>
<b>Credit Hours</b>	3
<b>Category</b>	IT Supporting
<b>Prerequisite</b>	CC-212: Software Engineering
<b>Co-Requisite</b>	None
<b>Follow-up</b>	None
<b>Course Description</b>	<p><b>Introduction:</b> Requirements Engineering. <b>Software Requirements:</b> Classification of requirements, Requirements process, Levels/layers of requirements, Requirement characteristics, and Analyzing quality requirements. <b>Software requirements in the context of systems engineering:</b> Requirement evolution, Requirement traceability, Requirement prioritization, Trade-off analysis, Risk analysis and impact analysis, Requirement management, Interaction between requirement and architecture. <b>Requirement elicitation:</b> Elicitation sources and techniques. <b>Requirement specification and documentation:</b> Specification sources and techniques, Requirements validation and techniques. <b>Management of Requirements:</b> Introduction to Management, Requirements management problems, Managing requirements in various organizations including acquisition, supplier and product-oriented organizations, Requirements engineering for agile methods.</p>
<b>Text Book(s)</b>	<ol style="list-style-type: none"> <li>1. Wiegers K. &amp; Beatty J., Software Requirements, 3rd edition. Microsoft Press, 2013.</li> <li>2. Elizabeth Hull, Ken Jackson and Jeremy Dick., Requirements Engineering, 3rd edition, Springer-Verlag London Limited, 2011.</li> </ol>
<b>Reference Material</b>	<ol style="list-style-type: none"> <li>1. Chemuturi M., Requirements Engineering and Management for Software Development Projects, Springer New York, 2013.</li> </ol>