Course Title:	CS-810 Advanced Requirements Engineering
Credit Hours:	3+0
Pre-requisites:	 Software Engineering
Course	This course provides details about the analysis, modeling and specification of software engineering requirements. This course
Decemption	explains how requirements engineering fits into systems
	development process. It also provides an understanding of the
	main challenges in requirements engineering and the current
	research in this area.
Tools and	 Based on instructor preferences
Technologies:	
Learning	On successful completion of this course students will be able
Outcomes:	to:
	1. Analyze client needs based on identifying stakeholders.
	 Specify functional requirements using different modeling methods.
	 Prepare software requirements specifications using an industry standard.
	 Document and trace requirements using computer- based tools.
Tentative MS	 Development of Enterprise or Web Scale Software
Thesis:	
Text Books:	 Gerald Kontonya and Ian Sommerville: Requirements
	Engineering: Processes and Techniques, John Wiley &
Poforonco	Sons, 2002
Books:	 Ian Sommervine, Peter Sawyer (1997). Requirements Engineering: A Good Practice Guide (Wiley).
	 Gerald Kotonya, Ian Sommerville (1998): Requirements
	Engineering: Processes and Techniques (Wiley)
Course Contents:	 Requirements engineering process

- Methods, tools and techniques for eliciting, organizing and documenting software requirements
 - Analysis and validation techniques, including need, goal, and use case analysis
 - Requirements documentation standards
 - Traceability
 - Requirements management
 - Handling requirements changes