Title	**Software Engineering**
Code	**CMP-390**
Credit Hours	3
Category	Computing
Prerequisite	None
Co-Requisite	None
Follow Up	None
Course Description	**The Scope of Software Engineering**: Motivation and need, Importance and need of Sotware Engineering, Definition of Software Engineering, Introduction to software engineering vocabulary. **Software Process Models**: Waterfall Model, Incremental Model, Prototyping Model, Spiral Model, RAD Model. **Introduction to Requirements Engineering. Analysis Model:** Data modeling, Functional Modeling, Behavioral Modeling. **Software Design:** Data Design, Architectural Design, Component Level Design, User Interface Design.
Text Book(s)	Ian Sommerville, Software Engineering, 10th Edition, Pearson, 2015, ISBN-13: 978-0133943030.
Reference Material	Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli, Fundamentals of Software Engineering, 2nd Edition, Pearson, 2002, ISBN-13: 978-0133056990.