III B.C.A.		ECA616S
SEMESTER - VI	SOFTWARE ENGINERRING	HRS/WK-6
Elective-II		CREDIT - 5

Objective:
To introduce the concepts of software Engineering and the various phases in Software development in order to equip the students in developing project.

UNIT - I: [18 hrs]
Introduction: Evolving Role of Software-Characteristics of Software-Software Myths-Process Models: Waterfall Model- Evolutionary Process Models.

UNIT –II : [18 hrs]
Requirement Engineering: Tasks - Initiating the Requirements Engineering Process- Eliciting Requirements.

UNIT III: [18 hrs]
Building Analysis Model: Requirement Analysis - Data Modeling – Flow Oriented Modeling – Class Based Modeling – Creating a Behavioral Model.

UNIT –IV: [18 hrs]
Testing: Software Testing Methods - Software Testing strategies –White Box Testing – Basic Path-Control Structure – Black Box Testing.

UNIT –V: [18 hrs]
Project Management: Management Spectrum - Formal Technical Reviews.

TEXT BOOKS :
1. R.S.Pressman – Software Engineering –Sixth Edition McGraw Hill International edition – 1997.
2. Richard Fairley – Software Engineering – (Design, Reliability and Management) – Tata McGraw Hill edition –1983.

REFERENCE BOOKS
1. Software Engineering Programs Documentation Operating procedures
2. Carlo Ghezzi, Mehdi Jazayasi, Dino Mandrioloi," Fundamentals of Software Engineering " Phi Pvt. Ltd., 1991.