# VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
9-5-81, Ibrahimbagh, Hyderbad-500031, Telangana State
## DEPARTMENT OF INFORMATION TECHNOLOGY

**SYLLABUS FOR B.E. IV SEMESTER**
**INTRODUCTION TO SOFTWARE ENGINEERING**
**(Open Elective-II)**
**(for other Branches)**

| Instruction: 1 Hr /week | SEE Marks : 40 | Course Code : OE410IT |
|---|---|---|
| Credits      : 1 | CIE Marks: 30 | Duration of SEE : 2 Hrs |

| Course Objectives | Course Outcomes |
|---|---|
| **The course will enable the students to:** | **At the end of the course student will be able to:** |
| Understand the various SDLC models | 1. Apply SW engineering methods, practices and their appropriate application. <br> 2. Analyze the software engineering layered technology and Process frame work. <br> 3. Demonstrate the significance of software requirements. <br> 4. Develop the ability to elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project. |

**UNIT- I**
**Software Engineering framework and process models:** Software Engineering, Process Frameworks, Process pattern, Perspective Models, Evolutionary Process Models, Agile Process Models

**UNIT-II**
**Requirements Engineering:** Requirements Engineering and Analysis, Scenario Based Modeling, Flow-Oriented Modeling, Creating a Behavioural Modeling.

**Learning Resources**:

1. Roger S.Pressman, Software Engineering: A Practitioner's Approach, Seventh Edition, Mcgraw Hill, 2009.
2. Pankaj Jalote An Integrated Approach To Software Engineering, Third Edition, Narosa Publishinghouse.2008
3. James F.Peter, WitoldPedrycz, Software Engineering. An Engineering Approach to John WileyInc.,2000
4. Ali Behforoz and Fedric J. Hadson, Softwre Engineering Fundamentals, Oxford University Press, 1997.
5. http://www.nptelvideos.in/2012/11/softwre-engineering.html