

Content (Syllabus)

Unit Content (Syllabus)

Preliminary semester plan is as under: (May subject to change)

Weeks	Main Topics	Assessments
1	Unit introduction and Introduction to SE	
2	Software Development Life Cycles (SDLC)	
3	Requirement Engineering (RE)	
4	Software Tools and Notations	
5	Software Design Fundamentals -I - covering Domain and Design Modelling	Assignment 1 due on Friday 6 pm.
6	Software Design Fundamentals - II - covering Object Oriented Design (OOPs)	

7	Software Design Fundamentals - III - covering different principles such as DRY and SOLID	
8	Software Implementation - I - covering Design Patterns	Mid Term Exam (2nd November 1 pm)
9	Software Implementation - II - covering Architectural Patterns	Assignment 2 Due on Friday 6 pm
10	NO CLASSES	
11	Software Ethics and Professional Practice (ONLINE)	
12	Software Verification and Validation - focusing on Software Quality Assurance	
13	Software Verification and Validation - focusing on Software Testing (Blackbox and Whitebox)	
14	TBD	
15	TBD	Assignment 3 Due on Sunday Midnight

Assessments

There are two major assessment components for this unit. The exam and the in-semester assignments. In total there are 5 assessments including 2 exams and 3 assignments. The distribution is as under:

Exam	Due on	%age
Mid Term Exam (Respondus, Invigilated, Online)	Week 8 (Saturday, November 2, 2024)	15
FinalExam (Respondus, Invigilated, Online)	TBA	20
Total		35
Assignments		
Assignment 1 (RE)	Week 5 5pm	15
Assignment 2 (Design & Development)	Week 9 5 pm	20
Assignment 3 (Implementation, Testing, Deployment and Demonstrations)	Week 15 midnight	25
Total		60

~~**Hurdles:** We are using hurdles in this unit. You need to acquire 50% of combined marks for each component to pass the unit i.e. you need to acquire 17.5 out of 35 to pass the~~