PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Information Technology

Lab Plan

Practical Subject Name	Software Engineering Lab
Practical Subject Code	PC-IT-306AL
Programme	B. Tech.
Branch	IT
Session	2022-23
Semester	6th

CO	CO Description
CO1	Identify ambiguities, inconsistencies and incompleteness from a requirements specification and state functional and non-functional requirement for developing a software project.
CO2	Graphically represent various UML diagrams and identify the logical sequence of activities undergoing in a system, and represent them pictorially.
CO3	Learn designing of flow chart, DFD, E-R diagram for various software projects and apply them for distinguished application design.
CO4	Able to use modern engineering tools for project planning, specification and designing.

LIST OF EXPERIMENTS

S.No.	Program Name	Course Outcome
1	Study and categorize the generic phases of software development and maintenance.	CO1
2	Study various software development models.	CO1
3	Study various types of feasibility study and steps in doing feasibility study	CO1
4	Study various steps for doing the requirement analysis of any project	CO1
5	Write algorithm and draw flow chart to implement the constructive cost estimation model	CO2
6	Making use of Graphical Design notation, study the concept in developing data flow diagram (DFD)for any selected project.	CO2
7	Making use of object oriented design, implement a student & employee record system using the concept of inheritance.	CO3

8	Select an appropriate programming language & translate the detailed design made in experiment 7 in appropriate programming language.	CO3
9	Develop a complete test strategy for the project selected in exp-8 Document it in a test specification.	CO4
10	Apply the debugging process to the project selected in exp-9 in accordance with the result generated from its testing in exp-9.	CO4
11	Study various concepts involved in cost/benefit analysis.	CO4
12	Draw flowchart and write algorithm for designing an editor.	CO4