

**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH**  
 Department of Computer Science & Engineering  
 ACADEMIC YEAR: 2020-2021

Subject Name: Software Engineering  
 Semester: 6<sup>th</sup>

Subject Code: CS346

## Practical List

Sr. No.	Aim	Hrs.
1	List & draw at least 7 various Software Development Life Cycle (SDLC) models and preparing the detailed case study on “Microsoft Team” that which SDLC model is suitable to develop the “Microsoft Team” desktop application?	2
2	List at least 10 Agile Development tools for desktop and mobile application development in IT industry and prepare the detailed case study on “JIRA Tool” for Agile Development.	2
3	List at least 5 software development planning tools and prepare the detailed case study of Risk Analysis & Management (i.e. Risk Identification, Risk Projection, Risk Refinement, Risk Mitigation.) on “WhatsApp” mobile application.	3
4	Design the Software Requirement Specification (SRS) document on Microsoft Windows 10 operating system in IEEE format only. (Excluding UML Diagram) Link: <a href="https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc">https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc</a>	4
5	List at least 10 software design principals & online/offline tools for software development process and Draw the UML diagram (Diagram Must 1. Use Case, 2. Activity, 3. State, 4. Sequence, 5. Data Flow (DFD) 6. Class) for Microsoft Windows 10 operating system. Link: <a href="https://creately.com/blog/diagrams/uml-diagram-types-examples/">https://creately.com/blog/diagrams/uml-diagram-types-examples/</a>	4
*	Prepare the PPT Presentation about Subject that what you learnt and what you are going to learn from subject (16 slide is minimum in PPT, Group of 4 members only) <b>10 Marks for Each Student as Subject Pedagogy Component.</b>	-
6	List at least 10 type of Testing for software development life cycle in IT industry and Design Test Case, Test Suites & Testing Strategy for the “Gmail” Web Application & Mobile Application. Link: 1. <a href="https://www.softwaretestinghelp.com/types-of-software-testing/">https://www.softwaretestinghelp.com/types-of-software-testing/</a> 2. <a href="https://www.geeksforgeeks.org/types-software-testing/">https://www.geeksforgeeks.org/types-software-testing/</a>	4
7	Prepare the details Case Study on Design coding standards and guidelines for your respective SGP project definition and justify which Software Quality Standards & Testing Tool will be suitable for your SGP project. Link: <a href="https://www.geeksforgeeks.org/coding-standards-and-guidelines/">https://www.geeksforgeeks.org/coding-standards-and-guidelines/</a>	4
8	List at least 5 online or offline Software Maintenance tools & prepare the detail case study on “Google Play Store” Maintenance document as a Google Play Store Developer. Link: 1. <a href="https://ecomputernotes.com/software-engineering/tools-for-software-maintenance">https://ecomputernotes.com/software-engineering/tools-for-software-maintenance</a> 2. <a href="https://www.techwalla.com/articles/what-is-cohesion-in-software-engineering">https://www.techwalla.com/articles/what-is-cohesion-in-software-engineering</a>	2
9	Prepare the detailed case study on Service-Oriented Architecture (SOA) of AWS services, Microsoft Azure Services, Google Cloud Platform services as Cloud Computing Software Engineering developer in IT industry.	2
10	Prepare the detailed case study as Software Development Document on MX Linux Operating System.	3