CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH
Department of Computer Science & Engineering

ACADEMIC YEAR: 2021-2022

Subject Name: Software Engineering   **Subject Code: CS346**
Semester: 6th

Practical List

Sr. No.	Aim Part-1	Hrs.	COs
1	List & draw at least 7 various Software Development Life Cycle (SDLC) models and preparing the detailed case study on "VLC Media Player" that which SDLC model is suitable to develop the "VLC Media Player" desktop application?	2	CO1
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	CO5
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 "VLC Media Player" mobile application.	2	CO2
4	Design the Software Requirement Specification (SRS) document on VLC Media Player desktop application in IEEE format only. (Excluding UML Diagram) Link: https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc	4	CO1
5	List at least 10 software design principals & online/offline tools for the 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 VLC Media Player desktop application. Link: https://creately.com/blog/diagrams/uml-diagram-types-examples/	4	CO1
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 "VLC Media Player" Mobile Application. Link: 1. https://www.softwaretestinghelp.com/types-of-software-testing/ 2. https://www.geeksforgeeks.org/types-software-testing/	4	CO4
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: https://www.geeksforgeeks.org/coding-standards-and-guidelines/	4	CO3
8	List at least 5 online or offline Software Maintenance tools & prepare the detail case study on "VLC Media Player" Maintenance document as a VLC Media Player Developer. Link: 1. https://ecomputernotes.com/software-engineering/tools-for-software-maintenance 2. https://www.techwalla.com/articles/what-is-cohesion-in-software-engineering	2	CO6
9	Prepare the detailed case study on Puppet DevOps tool in the area of cloud business application. Link: https://www.tutorialspoint.com/puppet/index.htm	2	CO5
10	Prepare a detailed case study on Design Thinking methodology in the area of mobile application development (Android or iOS). Link:https://www.thesunflowerlab.com/blog/design-thinking-and-mobile-app-development/	2	CO5

Sr. No.	Part-2	Hrs.	COs
1	Case Study: Software Engineering (Any One Group Wise) (1) Revolution in Software Process Model, History to Current scenario: A Case Study. (2) A roadmap for Software Design or software design strategies in IT Companies. (In the context of worlds know IT Companies.) (3) A Case Study for software quality assurance. (In the context of Overall India or any particular state of India.) (4) SOFTWARE TESTING in a small or Start-up Related companies: A case study (In the context of Overall, India or any particular state of India.) (5) Innovation Agile Methodology towards DevOps: A Case Study. (6) A Case Study in a small or Start-up Related company for software maintenance, reengineering, reverse engineering, software configuration management. (In the context of Overall India or any particular state of India.)	2	1- CO1 2- CO5 3- CO3 4- CO4 5- CO5 6- CO6
#	List of Open-Source Media Player For Practical Aim, 1. Kodi 2. MPV 3. Miro 4. FFmpeg 5. SMPlayear Link: https://filmora.wondershare.com/video-player/10-open-source-video-player-for-linux-windows-and-mac.html	#	#