**Practical Content**

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| **Sr. No.** | **Title of the Experiment** | **Software based** | **CO covered** | **Time Required** |
| 1 | Understanding basics of Engineering and Project Management by case studies[(a) wants to build a house in his plot, (b) to introduce a new dish at a restaurant, (c) to make a movie, (d) open a stationery shop, (e) to create a show so as to take interviews of famous personalities**]** | Manually | CO1 | 2 hrs |
| 2 | Design different SDLC models for 21st Century Health Care (Waterfall and iterative, Evolutionary, Spiral, RAD, V and V model) | Manually | CO1 | 2 hrs |
| 3 | Design the software requirements specification (SRS) by using a CASE tool. | Manually | CO2 | 2 hrs |
| 4 | Understanding the concept of UML and design the use case diagram for specific project statement | CASE Tool | CO3 | 2 hrs |
| 5 | Learn the object-oriented analysis phase by  understanding the methods of class elicitation  and finding the classes in an object- oriented  system. | CASE Tool | CO3 | 2 hrs |
| 6 | Design of activity diagram by using a CASE tool. | CASE Tool | CO3 | 2 hrs |
| 7 | Design the Interaction diagrams, sequence and  collaboration diagrams with the help of software  engineering tool. | CASE Tool | CO3 | 2hrs |
| 8. | Design Test Cases and Test Scenario using Excel. | CASE Tool | CO4 | 2hrs |
| 9. | Design the test cases using all testing techniques | CASE Tool | CO4 | 2hrs |
| 10 | Learn to find the critical path using cyclomatic complexity | Manually | CO4 | 2 hrs |
| 11 | Total hrs including evaluation | | | 30 hrs |

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| **Project (To be done as individual/in group): Yes (List of datasets chosen by the students should be vetted by faculty and Review Criteria will be provided by faculty. The same will be evaluated by external faculty teaching the same course in the department.** |

**List of Projects**

**(Annexure has been attached with complete details)**

**Evaluation Scheme (Choose one related to the course)**

**Evaluation Scheme**

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| **TYPE OF COURSE** | **PARTICULAR** | **ALLOTTED RANGE OF MARKS** | **PASS CRITERIA** |
| Theory+ Practical  (L-T-P/L-0-P) | Minor Test | 15% | Must Secure 30% Marks Out of Combined Marks of Major Test Plus Minor Test with Overall 40% Marks in Total. |
| Major Test | 35% |
| Continuous Evaluation Through Class Tests/Practice/Assignments/Presentation/Quiz | 10% |
| Online Quiz | 5% |
| Lab Work | 35% |