

## **B. Tech. (CS/IT) 6<sup>th</sup> Semester (2021-2022)**

### **KCS 651 Software Engineering Lab Assignment**

**For any given case/ problem statement do the following;**

1. Prepare a SRS document in line with the IEEE recommended standards.
2. Draw the use case diagram and specify the role of each of the actors. Also state the precondition, post condition and function of each use case.
3. Draw the activity diagram.
4. Identify the classes. Classify them as weak and strong classes and draw the class diagram.
5. Draw the sequence diagram for any two scenarios.
6. Draw the collaboration diagram.
7. Draw the state chart diagram.
8. Draw the component diagram.

**Note:** - Each student has to develop a project for his/her identified problem statement that can provide a solution for it.