Assignment 1

1. Give 3 examples from 7 categories of different software application domain.
2. Define legacy software and give 3 examples.
3. Design software engineering layers for any 3 software qualities.
4. Differentiate framework activities and umbrella activities with example.
5. List 7 principles of software engineering.
6. List any 5 software myths and corresponding realities.
7. Differentiate between hardware failure and software failure.

Assignment 2

1. Answer following with respect to OOAD case studies:
    a. List 5 umbrella activities.
    b. List 5 framework activities.
    c. Give 5 task sets for each of the above framework activities.
    d. Explain the working of different process assessment and improvement standards.
    e. Explain how would you fit different development models in your case study. Which model is best suitable for your case study give reasons.
2. Give live example and elaborate one of the given examples for following process models:
    a. The Waterfall Model
    b. The V Model
    c. Incremental model
    d. Prototyping model
    e. The Spiral Model
    f. Concurrent Models
    g. Evolutionary Processes
    h. Specialized process models
        i. Component-Based Development
        ii. The Formal Methods Model
        iii. Aspect-Oriented Software Development
    i. The Unified Process

Assignment 3

1. Differentiate between Agile software models and traditional software models.
2. Explain with example: how principles of agility give an it an edge in business. (get case study from internet).
3. Differentiate between extreme programming and industrial XP programming.
4. Discuss XP values.
5. Discuss XP Process.
6. Explain with example following agile process models:
    a. Adaptive Software Development (ASD)
    b. Scrum
    c. Dynamic System Development Method (DSDM)
    d. Crystal
    e. Feature Drive Development (FDD)
    f. Lean Software Development (LSD)
    g. Agile Modelling (AM)
    h. Agile Unified Process (AUP)

Assignment 4

1. Explain different levels of design model.
2. List different software quality guidelines.
3. Explain quality attributes given by Hewlett Packard.
4. Explain design concepts by mentioning following:
    a. Definition
    b. Importance
    c. Example
5. List & Explain 7 Steps of requirement engineering. Give the work products developed at every stage.
6. Develop an SRS for case study of Sem 4.
7. List elements of the analysis model.
8. List classes to be created for your case study in Sem IV and for any three classes, develop CRC (Class Responsibility Collaborator).