Software Engineering
ASSIGNMENT 01: Software Process Models

Hands in Date   : 26-02-2024

Submission Date   :

                     For BSSE Fall 2023 Monday, March 04, 2024

                     For BSDS Fall 2021 Tuesday, March 05, 2024

                                 Before start of lecture

Status   : Individual and hand written

Objective

The objective of this assignment is to make students familiar with the application of software process models.

Activities

- Students are expected to browse the various websites on Soft Process Model for the relevant material and look for the critical views on this domain. Students will further sketch these views in a summarized format in their own wording.

- Students will extend their study by referring to the books present in the library on Software Engineering and process and will make their answers detailed and defect free.

Submission Format

1. A hand written assignment will be submitted.

2. Answer of each question should be under the headings of:

    - Stated facts

    - Assumptions (if taken)

    - Selected Process Model

    - Reasons

    - Project working

Assignment Questions

Question 1

You have been appointed a project manager within an information systems organization. Your job is to build an application that is quite similar to others your team has built, although this one is larger and more complex. Requirements have been thoroughly documented by the customer. What software process model(s) would you choose and why? Explain in detail.

Question 2

You have been appointed a project manager for a small software products company. Your job is to build a breakthrough product that combines virtual reality hardware with state-of-art software. Because competition for the home entertainment market is intense, there is significant pressure to get the job done. What software process model(s) would you choose and why? Explain in detail.

Question 3

You have been appointed a project manager for a major software products company. Your job is to manage the development of the next generation version of its widely used word-processing software. Because competition is intense, tight deadlines have been established and announced. What software process model(s) would you choose and why?

Explain in detail.

Question 4

You have been asked to develop a small application that analyzes each course offered by a university and reports the average grade obtained in the course (for a given term). What software model(s) would you choose and why? Explain in detail?