**CS 322 Software Construction**

**Assignment#1**

**Due: Monday 9:00 AM. 9th October, 2023**

For the case study assigned to you, you are required to submit the project plan. The plan should be according to Iso/IEC/IEEE 16326 project management guideline. The following sections are to be filled

Title page ………………………………………………………………………………………………..

Signature page ……………………………………………………………….……………………...….

Change history ………………………………………………………………………….......................

Preface …………………………………………………………………………………………………..

Table of contents ………………………………………………………………………………….…….

List of figures …………………………………………………………………………………………….

List of tables ……………………………………………………………………...………………..........

1. Project overview

Project summary

Purpose, scope and objectives …….………………………………..……..

Assumptions and constraints …………..………………………………..….

Project deliverables …………………………….……………......................

Schedule summary …………….…………….........................

2. References ……………………………………………………………………….......................

3. Definitions …………………………………………………………………………………..…….

4. Project context ……………..…………………………………………………….......................

Process model …………………………………………………………………………...

Methods, tools and techniques ………………………………………………………...

Product acceptance plan ………………………………………………………….…….

5. Project planning.………………….……………………………………………………………….

Project work plans ………………………….…………………………………………....

Work activities ……………………………………………………………….....

Schedule allocation ………………………………………………………...….

Resource allocation ………………………………………………………..….

8. Supporting process plans ………………………………………………………………...……..

Risk management ……………………………….……………………………………….

One of the group members will be designated as the team leader. He/She will be responsible for the overall quality of the entire plan, including the sections before the project review. The remaining allocation is as follows:

Member1: Section1 – 3 (Team lead)

Member2: Section 4 & 8

Member3: Section 5

Use the following semester schedule discussed in the first lecture for time allocation. However, the activities within each phase should be defined carefully as per your own understanding.

|  |  |  |
| --- | --- | --- |
| **Week** | | **Lecture** |
| 1 | | Introduction to software development phases, project planning, Introduction to projects and allocation |
|  | | **Planning** |
| 2 | | Development of the project plan, review |
|  | | **Analysis** |
| 3 | | Defining usecases |
| 4 | | Development of analysis models |
| 5 | | SRS development, review and refinement |
|  | | **Design** |
| 6 | | Design principles, data design |
| 7 | | Interface design/Mid term |
| 8 | Detailed design | |
| 9 | Review of design and refinement | |
|  | **Development** | |
| 10 | Database connectivity | |
| 11 | Refining the front-end | |
| 12 | Development of classes | |
| 13 | Refinement of classes and traceability with design | |
|  | **Testing** | |
| 14 | Testing of the software system | |
| 15 | Project Presentations | |
| 16 | Project Presentations | |