# **Grading structure**

1. Practice Area – 65%
   1. Project planning – 10%
   2. Monitoring & control – 20%
   3. Requirement management – 15%
   4. Architectural design – 15%
   5. Configuration management – 10%
   6. Risk management – 10%
   7. Quality management – 20%
2. Reflection – 15%
3. ~~Teamwork – 15%~~
4. Presentation – 20%

# **Grading criteria**

## **Project planning**

1. **The objectives and outcomes of project are established**
   1. *Satisfying S.M.A.R.T. criteria*
   2. *Having agreement from relevant stakeholders*
2. **Estimation of needed works and tasks to achieve the objectives**
   1. A WBS (work packages/tasks description) is developed to estimate the scope of project
      1. *WBS should be minimum in 1 week*
   2. Estimate the project’s effort (and cost) for work products and tasks
      1. *Which techniques did you use to estimate the work efforts?*
3. **The software development process is established and documented**
   1. *Make sure to have the documentation of selected process rationale*
   2. *Should contain necessary information, such as entry/exit criteria, templates…*
   3. *The improvement compares to the reviewer’s comments from EOMP1&2*
4. **An overall project plan is established**
   1. *Including the strategic and details plans (milestones, short term plan…)*
   2. *Plan for resources to perform project (staffs: role, resp., skills; facilities…)*
   3. *Stakeholder identification and interaction (communication REQs also)*
   4. *How do you do to get commitment from relevant stakeholders for defined plans?*

## **Project monitoring and control**

1. **Measurement objectives are established and maintained**
   1. *Metrics are specified to address measurement objectives*
   2. *Procedures for data collection, storage, analysis and communication are specified*
2. **Measurement data are collected, analyzed, and communicated with relevant stakeholders**
3. **The progress of team's project is monitored against the established plan**
   1. *Project schedule followed as planned*
   2. *Work efforts against the plan*
   3. *Completed work products against the plan*
   4. *Issues and action item resolution progress*
   5. *Commitment & Involvement*

## **Context and requirement management**

1. **Student teams contacted the customers and established regular meetings**
   1. *All necessary stakeholders at customer side are identified completely*
   2. *Objectives, expectations, agenda of meeting, MOM with customers are established*
2. **The fitness and effectiveness of requirement elicitation techniques**
3. **All stakeholder needs, expectations, constraints, and external interfaces are transformed into prioritized customer requirements**
   1. *Definition of functional, quality attribute, and interface requirements*
   2. *Operational scenarios, use cases, activity diagrams, constraints…*
   3. *Agreement from all stakeholders (or frequency of backlog updating for Agile)*

## **Architectural design**

1. **Architectural drivers are identified and prioritized**
   1. *High level functional REQs, quality attribute, business and technical constraints*
2. **The system architecture design is represented and documented under three fundamental structures**
   1. *Dynamic, static and physical perspectives*
   2. *Mapping to satisfy all architectural drivers*

## **Configuration management**

1. **Configuration items, components, and related work products are identified**
2. **Changes to the work products under configuration management are tracked and controlled**
   1. *Change log*
   2. *Change request*
   3. *Baseline*

## **Quality management**

1. **Quality criteria for the outcomes of project are established**
   1. *Agreement from all relevant stakeholders (with customer, team)*
2. **Strategies for verification activities are established**
   1. *Work products to be verified & requirements to be satisfied*
   2. *Verification procedures and criteria to satisfy requirements*
3. **The results of all verification activities are analyzed**
   1. *Comparison between actual results and expected results*
   2. *Providing information on how defects can be resolved*
4. **Strategies for validation activities are established and performed**
   1. *Including formal peer reviews and user acceptance testing*
5. **Strategies for improving the quality of working process and results**

## **Risk management**

1. *Risks are identified and analyzed to determine their relative importance*
2. *Risks are handled and mitigated as appropriate to reduce adverse impacts*

# **Final Presentation**

|  |  |
| --- | --- |
| **Content** | **Time** |
| * **Overview**   + Team information   + Project’s objectives   + Problem to solve & *product at a glance* * **How to make the work**   + Main processes & supporting tools used   + Project planning, milestones & the way to monitor progress   + Main risks (which are handled & mitigated) & issues happened * **Requirements**   + The way to contact customer for elicitation & approval   + How to manage requirement & change during project * **Architecture design**   + Main QAs & system’s physical view (at least) with key technologies to be used * **Current progress** * **Lesson learned** | 5 mins  3-4 mins  2-3 mins  2-3 mins  3 mins  2 mins |
| * **Demonstration: should make it as a live demo (recording is for backup)** | 10 mins |