

**Software Process and Project Management (SEng4204)**  
**Project Assignment (10 Marks) – Submission Date: May 12, 2025**

Comprehensive Project Assignment Questions **Each group of five or six** selects a question, and using the points listed, writes a comprehensive report on the chosen subject that ranges from **four to Five pages**. **Write the Names and Student IDs clearly on the First page of the Document, and Submit a Printed Report.** **NB (the instructor may select some of the group members to present their assignments)**

**NOTE:** Please choose a group member to discuss one of the issues mentioned below rather than repeating the same subject in another group. (Avoid repeating the subject.)

**1. Scenario:** Adopting a New Software Development Process,

Q: Your organization has traditionally used the Waterfall model. Due to frequent requirement changes, you are considering shifting to Agile. How would you approach this transition?

**2. Scenario:** Project Estimation for a Mobile App

Q: As a project manager, you must estimate the cost and time for a mobile app project. What approach would you take?

**3. Scenario:** A project manager is tasked with improving software quality. What strategies can they implement based on Quality Management principles?

**4. Scenario:** A software project is behind schedule due to resource (The company lacks tools and standards for development) constraints. What techniques can be applied to get back on track?

**5. Scenario:** Scope Management in a Client Project

Q: The client requests additional features mid-way through development. How do you manage scope change?

**6. Scenario:** A software team wants to measure its performance to improve future projects. What measurement techniques should they consider?

**7. Scenario:** Continuous Improvement Initiative

Q: After identifying bottlenecks in your QA process, how would you improve it?

**8. Scenario:** Planning a Web Application Project,

Q: Describe how you'd create a project plan for a new web application.

**9. Scenario:** Risk Management, Q: A key developer is suddenly unavailable. How do you handle this risk?

**10. Scenario:** Adapting Process for a Real-Time Embedded System

Q: You are managing a real-time embedded system project. How would you tailor the software process?

**11. Scenario:** A project team is experiencing communication issues. What strategies can they implement to improve collaboration?