**Unit Name: Industry Capstone Project**

**Degree Program**: Final Year Bachelor of IT  
**Australian Standards**: AQF Level 7 (Bachelor's Degree)

**Unit Learning Outcomes (ULOs)**

Upon successful completion of this unit, students will be able to:

1. **Integrate knowledge** from various IT domains to develop a comprehensive solution to an industry-relevant problem.
2. **Apply project management** and Agile methodologies, specifically Scrum, to plan, execute, and deliver an IT project.
3. **Critically evaluate** the effectiveness of different technologies, tools, and methodologies in solving complex problems in IT projects.
4. **Demonstrate teamwork** and leadership skills within an Agile project environment, contributing to collaborative problem-solving.
5. **Develop and present** project documentation, including reports and presentations, to effectively communicate technical solutions to both technical and non-technical audiences.
6. **Assess the social, ethical, and professional implications** of their work within the context of industry IT projects.

**Unit Content and Structure**

| **Study Week** | **Topics Included in the Unit** | **Assessment Activity and Other Related Items** |
| --- | --- | --- |
| **1** | Introduction to Capstone Projects, Scrum Methodology Concepts | A1 Practical Exercises (Individual) |
| **2** | Agile Methodology and Project Planning | A1 Practical Exercises (Individual) |
| **3** | Problem-Solving Techniques in IT Projects | A1 Practical Exercises (Individual) |
| **4** | Team Collaboration & Agile Teamwork | A2 Agile Teamwork Quiz (Individual) |
| **5** | Sprint Planning, Backlog Creation, and Task Assignment | A1 Practical Exercises (Individual) |
| **6** | Iteration, Development, and Continuous Integration | A1 Practical Exercises (Individual) |
| **7** | Evaluation of Project Progress and Risk Management | A3 Project Report (Individual) |
| **8** | Final Project Presentation and Future Trends in IT | A4 Project Presentation (Group) |

**Student Assessment Overview**

| **Assessment Number & Type** | **Assessment Description** | **Week Assessed and Date Due** | **Weighting** | **ULOs to be Assessed** |
| --- | --- | --- | --- | --- |
| **A1: Practical Exercises (Individual)** | Students will engage in stand-up style progress updates, answering the following questions: 1) What have they done since the last session? 2) What will they do until the next session? 3) Do they have any challenges or blockers? Students either present verbally in class or submit a video via Canvas. | Assessed in every session (Weeks 1-6) | 30% | ULO2, ULO3, ULO5 |
| **A2: Agile Teamwork Quiz (Individual)** | This quiz will assess students' understanding of teamwork dynamics within Agile and Scrum methodologies. | Week 4 | 10% | ULO1, ULO4 |
| **A3: Project Report (Individual)** | Students will submit a detailed report covering their project progress, challenges faced, risk management strategies, and future steps. | Week 7 | 20% | ULO3, ULO4, ULO5 |
| **A4: Project Presentation (Group)** | In groups, students will present their final capstone project, showcasing their project objectives, methodologies used, and collaboration. The presentation should include how they would explain their contributions to a future employer. | Week 8 | 30% | ULO1, ULO2, ULO6 |