

# IS5540: PROJECT MANAGEMENT AND QUALITY ASSURANCE

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## Effective Term

Semester A 2026/27

## Part I Course Overview

### Course Title

Project Management and Quality Assurance

### Subject Code

IS - Information Systems

### Course Number

5540

### Academic Unit

Information Systems (IS)

### College/School

College of Business (CB)

### Course Duration

One Semester

### Credit Units

3

### Level

P5, P6 - Postgraduate Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Nil

### Precursors

Nil

### Equivalent Courses

IS5540M Project Management and Quality Assurance

### Exclusive Courses

Nil

## Part II Course Details

### Abstract

This course aims to introduce the concepts, methods and procedures, and best practices for information systems project management

### Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Describe the basics of what project management is, the organization and the technology context of information systems projects.	25		
2	Discover and elaborate the tools and techniques used in various aspects of project management including management of project scope, time, cost, quality, risk, and human resources.	30	x	x
3	Apply the project management knowledge, skills, tools, and techniques learnt to project activities of an IT/IS-related project to meet project requirements.	35	x	x
4	Apply project management software (E.g. MS Project or equivalent) to help plan and manage a small IT/IS project.	10		

#### A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

#### A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

#### A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

### Learning and Teaching Activities (LTAs)

LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	LTA1 Lecture/ Seminar	Students will learn the concepts on project management, especially the management of IT/IS projects, and the skills and techniques required for a project manager.	1, 2, 3
2	LTA2 Demonstrations	Students will know how the project management skills and techniques and how a project management software can be used are demonstrated.	2, 3, 4

3	LTA3 Practical Workshop	Students will practice the hands-on skills on applying the theories, skills and techniques taught in lectures in workshops.	2, 3, 4	
4	LTA4 Case Studies	Students will be able to appreciate the importance of proper project management best practices on IT/IS projects by reading real-life cases.	1, 2, 3	
5	LTA5 Discussions	Students will do reflections, raise questions and discuss among themselves on lecture and tutorial materials.	1, 2, 3, 4	

**Assessment Tasks / Activities (ATs)**

	ATs	CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?
1	Class and Tutorial Participation This will reflect the students' participation in classes, tutorial sessions and online discussions. Students are encouraged to attend those sessions and actively participate in discussions. This is an individual mark.	1, 2, 3, 4	10	-	Yes
2	Class Assignments This includes in-class assignments, quizzes or take-home assignments.	1, 2, 3	20	GenAI is not allowed in quizzes. For other assignments, it may be used to generate ideas and clarify concepts during preparation, but you are not allowed to copy and paste its output directly into your final submission.	Yes

3	<p>Group Project</p> <p>This is a group project to let students apply the project management skills and techniques learnt in class to solve practical problems. The project includes the following components:</p> <ul style="list-style-type: none"> <li>- A final group report which is a project plan for executing the IT/IS project.</li> <li>- A final project presentation.</li> </ul>	1, 2, 3, 4	30	<p>GenAI may be used during preparation, but you are not allowed to copy and paste its output directly into your final submission. If you use GenAI, include your prompts and your own original work in the appendix, and clearly refer to them in your report.</p>	Yes
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**Continuous Assessment (%)**

60

**Examination (%)**

40

**Examination Duration (Hours)**

2

**Additional Information for ATs**

Note: Students must pass BOTH coursework and examination in order to get an overall pass in this course.

**Assessment Rubrics (AR)****Assessment Task**

Class and Tutorial Participation (AT1) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO1-4

- Ability to actively participate in class and tutorial sessions and online discussions;
- Achievement of attendance

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

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**Assessment Task**

Class Assignments (AT2) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO 1-3

- Ability to demonstrate an in-depth understanding of what project management is and its associated skills and techniques and be able to apply them to real-life cases

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

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**Assessment Task**

Group Project (AT3) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO 1-4 (based on the interim and final report)

- Ability to demonstrate a good understanding of the basic project management concepts
- Ability to demonstrate an in-depth thought and research has been made in applying the skills and techniques learnt in class to the project
- The report has covered all the specified requirements
- The report is well-structured, well-written and well presented
- Peer evaluation report reflects at least an average contribution ratio

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

**Assessment Task**

Group Project (AT3) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO2 & 3 (based on group presentation)

- Ability to demonstrate collaboratively that the presentation is well-structured and presented in a logical sequence. Time control is good. PowerPoint slides are of high quality
- Ability to demonstrate collaboratively the team is able to tackle all/most of the questions raised

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

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**Assessment Task**

Group Project (AT3) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO1 - 3 (based on individual performance in presentation)

- Ability to demonstrate excellent presentation skills and language skills;
- Ability to demonstrate an appropriate use of visual aids in presentation

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

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**Assessment Task**

Examination (AT4) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO1

- Capability to evidence good understanding of the importance of good project management to an IT/IS project

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

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**Assessment Task**

Examination (AT4) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO2

- Ability to accurately describe all/most key concepts; and demonstrate a thorough understanding of all/most of the terms and techniques

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

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**Assessment Task**

Examination (AT4) (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

CILO3

- Ability to demonstrate the ability to apply all/most of the skills and techniques learnt to the management of IT/IS projects

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

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**Assessment Task**

Class and Tutorial Participation (AT1) (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

CILO1-4

- Ability to actively participate in class and tutorial sessions and online discussions
- Achievement of attendance

**Excellent**

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(B-, C+, C) Basic

**Failure**

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**Assessment Task**

Class Assignments (AT2) (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

CILO 1-3

- Ability to demonstrate an in-depth understanding of what project management is and its associated skills and techniques and be able to apply them to real-life cases

**Excellent**

(A+, A, A-) High

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### **Assessment Task**

Group Project (AT3) (for students admitted from Semester A 2022/23 to Summer Term 2024)

#### **Criterion**

CILO 1-4 (based on the interim and final report)

- Ability to demonstrate a good understanding of the basic project management concepts
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### **Assessment Task**

Group Project (AT3) (for students admitted from Semester A 2022/23 to Summer Term 2024)

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**Assessment Task**

Examination (AT4) (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

CILO1

- Capability to evidence good understanding of the importance of good project management to an IT/IS project

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Examination (AT4) (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

CILO2

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### Assessment Task

Examination (AT4) (for students admitted from Semester A 2022/23 to Summer Term 2024)

### Criterion

CILO3

- Ability to demonstrate the ability to apply all/most of the skills and techniques learnt to the management of IT/IS projects

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## Part III Other Information

### Keyword Syllabus

Project Management Basics. Project Management Framework. Project Lifecycles. Project Management Focus Areas. Project Management Performance Domains: Governance, Scope, Schedule, Finance, Stakeholders, Resources, and Risk. Real-life Project Management. Predictive, Agile, and Hybrid Approaches. AI in Project Management.

Details:

- Introduction to information systems project management, roles of the project manager, organisation and technology context of information systems projects, project life cycle, project management processes, and knowledge areas
- Project management framework (project management principles, project management domains, tailoring, models, methods, and artifacts)
- Strategic planning and project selection, project execution, monitoring and controlling project work, project closing
- Scope planning, project scope statement, creating the work breakdown structure, scope verification, and control
- Activity definition, sequencing, resource and duration estimating, schedule development and control
- Cost estimating, cost budgeting, and cost control using earned value techniques
- Quality planning, quality assurance, quality control, tools and techniques used in quality assurance and quality control
- Motivation theories, human resource planning, acquiring the project team, developing the project team, managing the project team
- Communications planning, information distribution, performance reporting, managing stakeholders
- Risk identification, qualitative and quantitative risk analysis, risk response planning, risk monitoring and control
- Effective management in specific projects (e.g., IT outsourcing, managing global projects)
- Differences between predictive, agile, and hybrid project management

### Reading List

#### Compulsory Readings

Title	
1	Nil

**Additional Readings**

<b>Title</b>	
1	Schwalbe, K., An Introduction to Project Management, Eighth Edition: Predictive, Agile, and Hybrid Approaches with AI. ISBN: 979-8246285893.
2	Schwalbe, K., Information Technology Project Management, 9th edition, 2019. ISBN: 978-9814844017.
3	Fuller, Valacich, George, Information Systems Project Management - A Process and Team Approach. ISBN: 0-13-145417-X.
4	Olson, D.L., Information systems project management, Business Expert Press, 2015. ISBN: 9781631571220.