ZEIT8136 Software Project Management - 2024

Published on the 09 Feb 2024

General Course Information

Course Code : ZEIT8136
Year : 2024
Term : Semester 1
Teaching Period : Z1
Is a multi-term course? : No
Faculty : UNSW Canberra
Academic Unit : School of Systems and Computing
Delivery Mode : Online
Delivery Format : Standard
Delivery Location : UNSW Canberra at ADFA
Campus : UNSW Canberra
Study Level : Postgraduate
Units of Credit : 6

Useful Links

[Handbook](#) [Class Timetable](#)

Course Details & Outcomes

Course Description

This course aims to provide an understanding of the processes, methods and techniques used to manage software-intensive projects. Although some generic project management concepts will be discussed, this course will focus on the application of those concepts to software-intensive

projects.

Topics include: software life cycle processes; software life cycle models; software estimation; software project planning; software risk management; software measurement; software requirements management; software test management; software configuration management; software reviews; software quality assurance; software process improvement. Where appropriate, standards (e.g., ISO/IEC 12207, PSM, CMMI) relevant to these topics will be examined.

This course does **not** cover the methods, tools and techniques of the software development process in detail (e.g., OOAD, Programming, etc). The software development process is examined primarily from a project management's perspective, e.g., requirements management, not requirements development; software test management, not software testing.

Course Aims

This course aims to provide an understanding of the processes, methods, and techniques used to manage software-intensive projects.

Although some generic project management concepts will be discussed, this course will focus on the application of those concepts to software-intensive projects.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Articulate the industry best practices and processes associated with the management of software engineering projects.
CLO2 : Develop major management plans and artefacts for software engineering projects.
CLO3 : Assess the role and contribution of software engineering processes and standards in project and business contexts.
CLO4 : Develop appropriate software engineering artefacts and plans for an example project.

Course Learning Outcomes	Assessment Item
CLO1 : Articulate the industry best practices and processes associated with the management of software engineering projects.	• Assignment 1 • Assignment 2 • Assignment 3
CLO2 : Develop major management plans and artefacts for software engineering projects.	• Assignment 1 • Assignment 2 • Assignment 3
CLO3 : Assess the role and contribution of software engineering processes and standards in project and business contexts.	• Assignment 1 • Assignment 2 • Assignment 3
CLO4 : Develop appropriate software engineering artefacts and plans for an example project.	• Assignment 1 • Assignment 2 • Assignment 3

Learning and Teaching Technologies

Moodle - Learning Management System | Echo 360

Learning and Teaching in this course

Teaching Strategies

The course will be offered in distance mode only. The formal content of this course is delivered in a combination of different formats: course notes, and selected readings. To augment the formal course materials, you are expected to contribute to the online discussion forums by sharing your expertise, experiences, and explorations with other students.

All course materials will be progressively published on the course's Moodle web site. Lecture notes will be posted on the Moodle web site at the start of the week the material is scheduled to be covered.

Students will confirm the major learning outcomes of this course through the completion of the assignments. The assignments have been designed to demonstrate: (a) your understanding of the fundamental concepts taught; and (b) your ability to apply and build upon those concepts.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Assignment 1 Assessment Format: Individual	25%	Due Date: 17/03/2024 11:55 PM
Assignment 2 Assessment Format: Individual	42%	Due Date: 08/05/2024 11:55 PM
Assignment 3 Assessment Format: Individual	33%	Due Date: 05/06/2024 11:55 PM

Assessment Details
Assignment 1

Assessment Overview

Covering the topics and materials of weeks 1 to 3

Course Learning Outcomes

- CLO1 : Articulate the industry best practices and processes associated with the management of software engineering projects.
- CLO2 : Develop major management plans and artefacts for software engineering projects.
- CLO3 : Assess the role and contribution of software engineering processes and standards in project and business contexts.
- CLO4 : Develop appropriate software engineering artefacts and plans for an example project.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Assignment 2

Assessment Overview

Covering the topics and materials of weeks 5 to 8

Course Learning Outcomes

- CLO1 : Articulate the industry best practices and processes associated with the management of software engineering projects.
- CLO2 : Develop major management plans and artefacts for software engineering projects.

- CLO3 : Assess the role and contribution of software engineering processes and standards in project and business contexts.
- CLO4 : Develop appropriate software engineering artefacts and plans for an example project.

<u>Assignment submission Turnitin type</u>

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Assignment 3

<u>Assessment Overview</u>

Covering the topics and materials of weeks 9 to 12

<u>Course Learning Outcomes</u>

- CLO1 : Articulate the industry best practices and processes associated with the management of software engineering projects.
- CLO2 : Develop major management plans and artefacts for software engineering projects.
- CLO3 : Assess the role and contribution of software engineering processes and standards in project and business contexts.
- CLO4 : Develop appropriate software engineering artefacts and plans for an example project.

<u>Assignment submission Turnitin type</u>

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

General Assessment Information

All marks obtained for assessment items during the session are provisional. The final mark as published by the university following the assessment review group meeting is **the only official mark.**

The three assignments cover the material taught in weeks 1-3, weeks 4-8, and weeks 9-12 respectively. Assignments are to be submitted via Moodle before the specified dates

Assignments ; Weight ; Due date

Assignment 1 ; 25% ; 17 Mar, Sunday 23:55

Assignment 2 ; 42% ; 8 May, Wednesday 23:55 (Week 9)

Assignment 3 ; 33% ; 5 Jun, Wednesday 23:55 (Week 13)

Each assignment will consist of a series of short answer, problem type and critical thinking questions. The short answer and problem-type questions will be based on the lecture notes and selected readings. The critical thinking questions will require you to research beyond the course

materials provided.

Given that each assignment will be divided into sections based on course modules, it is recommended that you complete each section during the week in which that particular module is taught. For example, questions related to the topic of Risk Management should be attempted during the week that Risk Management is taught. This approach will spread the workload evenly over the semester and help consolidate the material as it is presented.

Late Submission of Assessment

Unless a prior arrangement is made with the lecturer or a formal application for special consideration is submitted, a penalty of 10% of the total available mark for the assessment will apply for each day that an assessment item is late up to a maximum of 5 days (120 hours) after which an assessment can no longer be submitted and a grade of 0 will be applied.

All requests for special consideration must be formally submitted via MyUNSW prior to the assessment due date (see policy link below). Please note that the policy states that: "Work commitments are not normally considered a justification."

Grading Basis
Standard

Requirements to pass course
You must achieve at least 50% to pass this course. You are not required to pass any one particular assignment; you simply need to pass the course overall.

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 26 February - 1 March	Module	Introduction to Software Project Management
Week 2 : 4 March - 8 March	Module	Software Life Cycle Processes (ISO/IEC 12207)
Week 3 : 11 March - 15 March	Module	Software Life Cycle Models
	Assessment	Assign. 1 due "feedback provided by census date"
Week 4 : 18 March - 22 March	Module	Software Estimation
Week 5 : 25 March - 29 March	Module	Project Planning Project Monitoring & Control
Week 6 : 1 April - 5 April	Module	Risk Management
Week 7 : 22 April - 26 April	Module	Software Measurement
Week 8 : 29 April - 3 May	Module	Requirements Management
Week 9 : 6 May - 10 May	Module	Software Test Management Verification & Validation
	Assessment	Assign. 2 due (42%)
Week 10 : 13 May - 17 May	Module	Software Configuration Management (SCM) Problem Resolution
Week 11 : 20 May - 24 May	Module	Software Quality Assurance (SQA) Software Reviews
Week 12 : 27 May - 31 May	Module	Software Process Improvement
Week 13 : 3 June - 7 June	Assessment	Assign. 3 due (33%)

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

General Schedule Information

Week: Topic (Important dates)

W 1: Introduction to Software Project Management(26 Feb. Semester starts)

W 2: Software Life Cycle Processes (ISO/IEC 12207)

W 3: Software Life Cycle Models (Assign. 1 due; "feedback provided by census date")

W 4: Software Estimation

W 5: Project Planning and Project Monitoring & Control

W 6: Risk Management

Semester 1 Break: 6 – 21 Apr 2024

W 7: Software Measurement

W 8: Requirements Management

W 9: Software Test Management and Verification & Validation (Assign. 2 due)

W 10: Software Configuration Management (SCM) and Problem Resolution

W 11: Software Quality Assurance (SQA) and Software Reviews

W 12: Software Process Improvement

W 13: Course Review (Assign. 3 due)

Course Resources

Prescribed Resources

All course materials will be provided online through the course's Moodle web site.

You are expected to utilise the Academy library and other online resources to obtain additional information and resources.

Recommended Resources

There is no required text book but *recommended text books* that you may find useful are:

- Hughes, B. & Cotterell, M. (2009). "[Software Project Management](#)", *McGraw-Hill*.
- Villafiorita, Adolfo (2014). "[Introduction to software project management](#)", *CRC Press, Taylor & Francis Group.*
- Ruhe, G. & Wohlin, C. (2014). "[Software Project Management in a Changing World](#)", *Springer*.
- Fairley, R. (2009). ["Managing and Leading Software Projects](#)". *Wiley*.
- Stellman, A., & Greene, J. (2005). "Applied software project management", *O'Reilly Media, Inc.*
- Futrell, R., Shafer, D., & Shafer, L. (2002). *Quality Software Project Management.* Prentice-Hall.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Alireza Abbasi		Room 362, Building 21, UNSW Canberra, Northcott Dr	+61 2 5114 5108	Please email to make an appointment for consultation during normal working hours	No	Yes

Other Useful Information

Academic Information

Course Evaluation and Development

One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of each course.

Students can also provide feedback during the semester via: direct contact with the lecturer, the "On-going Student Feedback" link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups (where applicable). Student opinions really do make a difference. Refer to the Moodle site for your course to see how the feedback from previous students has contributed to the course development.

Important note: Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct.

https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf

Equitable Learning Services (ELS)

Students living with neurodivergent, physical and/or mental health conditions or caring for someone with these conditions may be eligible for support through the Equitible Learning Services team. Equitable Learning Services is a free and confidential service that provides practical support to ensure your mental or physical health conditions do not adversely affect your studies.

Our team of dedicated **Equitable Learning Facilitators** (ELFs) are here to assist you through this process. We offer a number of services to make your education at UNSW easier and more equitable.

Further information about ELS for currently enrolled students can be found at: https://www.student.unsw.edu.au/equitable-learning

Academic Honesty and Plagarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. All students are expected to adhere to UNSW's Student Code of Conduct. Find relevant information at: Student Code of Conduct (unsw.edu.au)

Plagiarism undermines academic integrity and is not tolerated at UNSW. It is defined as using the words or ideas of others and passing them off as your own, and can take many forms, from deliberate cheating to accidental copying from a source without acknowledgement.

For more information, please refer to the following:

https://student.unsw.edu.au/plagiarism

Submission of Assessment Tasks

Special Consideration

Special Consideration is the process for assessing and addressing the impact on students of short-term events, that are beyond the control of the student, and that affect performance in a specific assessment task or tasks.

Applications for Special Consideration will be accepted in the following circumstances only:

- Where academic work has been hampered to a substantial degree by illness or other cause;
- The circumstances are unexpected and beyond the student's control;
- The circumstances could not have reasonably been anticipated, avoided or guarded against by the student; and either:

(i) they occurred during a critical study period and was 3 consecutive days or more duration, or a total of 5 days within the critical study period; or

(ii) they prevented the ability to complete, attend or submit an assessment task for a specific date (e.g. final exam, in class test/quiz, in class presentation)

Applications for Special Consideration must be made as soon as practicable after the problem occurs and at the latest within three working days of the assessment or the period covered by the supporting documentation.

By sitting or submitting the assessment task the student is declaring that they are fit to do so and cannot later apply for Special Consideration (UNSW 'fit to sit or submit' requirement).

Sitting, accessing or submitting an assessment task on the scheduled assessment date, after applying for special consideration, renders the special consideration application void.

Find more information about special consideration at: https://www.student.unsw.edu.au/special/consideration/guide

Or apply for special consideration through your MyUNSW portal.

Late Submission of assessment tasks (other than examinations)

UNSW has a standard late submission penalty of:

- 5% per day,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

Electronic submission of assessment

Except where the nature of an assessment task precludes its electronic submission, all assessments must be submitted to an electronic repository, approved by UNSW or the Faculty, for archiving and subsequent marking and analysis.

Release of final mark

All marks obtained for assessment items during the session are provisional. The final mark as published by the university following the assessment review group meeting is the only official mark.

School-specific Information

The Leaning Management System

Moodle is the Learning Management System used at UNSW Canberra. All courses have a Moodle site which will become available to students at least one week before the start of semester. Please find all help and documentation (including Blackboard Collaborate) at the Moodle Support page.

UNSW Moodle supports the following web browsers:
• Google Chrome 50+
• Safari 10+
Internet Explorer is not recommended. Addons and Toolbars can affect any browser's performance.

Operating systems recommended are:
• Windows 10,
• Mac OSX Sierra,
• iPad IOS10

Further details:

[Moodle System Requirements](#)

[Moodle Log In](#)

If you need further assistance with Moodle:

For enrolment and login issues please contact:

IT Service Centre

Email: itservicecentre@unsw.edu.au

Phone: (02) 9385-1333

International: +61 2 9385 1333

For all other Moodle issues please contact:

External TELT Support

Email: externalteltsupport@unsw.edu.au

Phone: (02) 9385-3331

International: +61 2 938 53331

Opening hours:

Monday – Friday 7:30am – 9:30 pm

Saturday & Sunday 8:30 am – 4:30pm

[Study at UNSW Canberra](#)

Study at UNSW Canberra has lots of useful information regarding:

• Where to get help

• Administrative matters

• Getting your passwords set up

• How to log on to Moodle

• Accessing the Library and other areas.

[UNSW Canberra Student Hub](#)

For News and Notices, Student Services and Support, Campus Comminity, Quick Links,

Important Dates and Upcoming Events

School Contact Information

Deputy Head of School (Education): Dr Erandi Hene Kankanamge

E: e.henekankanamge@adfa.edu.au

T: 02 5114 5157

Syscom Admin Support: syscom@unsw.edu.au

T: 02 5114 5284

Syscom Admin Office: Building 15, Level 1, Room 101 (open 10am to 3pm, Mon to Fri)