

Course Outline

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UNSW Canberra ZEIT8231 Test and Evaluation

and data analysis such as design of experiments (DOE).

Coupled with ZEIT 8034 Advanced T&E Techniques which focuses on the test design methodology and data analysis, these two courses are intended to cover all the education you need to achieve the 25 T&E competencies listed by the U.S. Defense Acquisition University for work in this field.

Developing Graduate Attributes

The major goal of this course is to provide you with an understanding of test and evaluation as part of the system engineering discipline. The assignment tasks require engagement with the information presented, applying the material to typical situations. This exercises your ability to analyse a problem using the newly learned techniques, and synthesise appropriate test methodologies. The assignment tasks are submitted as written reports in a similar format to those used to communicate test and evaluation plans in typical projects. The focus of this course is on developing the following graduate attributes:

1. GA2 an in-depth engagement with the relevant disciplinary knowledge in its interdisciplinary context;
2. GA3 the capacity for analytical and critical thinking and for creative problem solving; and
3. GA12 the skills of effective communication.

Assessment Requirements

The marks for this course will be allocated to three quizzes and three assignments, in the following way:

Quiz Ð Sections 1-2	10%	2200 Eastern 6 Aug 17
Assignment 1(Pt A) online post	5%	2200 Eastern 13 Aug 17
Assignment 1(Pt B) online critiques	10%	2200 Eastern 20 Aug 17
Quiz Ð Sections 3-4	10%	2200 Eastern 20 Aug 17
Assignment 1(Pt C) TCD	10%	2200 Eastern 27 Aug 17
Assignment 3 Ð Variation in T&E	10%	2200 Eastern 3 Sep 17
Assignment 2(Pt A) Ð Outline Plan	5%	2200 Eastern 10 Sep 17
Quiz Ð Sections 5-7	10%	2200 Eastern 17 Sep 17
Assignment 2(Pt B) T&E Plan	30%	2200 Eastern 15 Oct 17

LATE SUBMISSION OF ASSESSMENT

The assignments are to be submitted via Moodle before the due date above. Assignments submitted after the due date will receive the following penaltiesÑ in marks subtracted from the assignment mark:

Date of submission	Penalty
A ten mark assignment	
One week late	1 mark/10
Two weeks late	2 mark/10
A 30 mark assignment	
One week late	3 marks/30
Two weeks late	6 marks/30

To make it clear, an assignment graded at 22/30 but submitted with a 3 mark penalty would be awarded a final grade as follows: $22-3=19/30$.

Submissions received after the final submission date in the table above will not be marked and a result of ÖzeroÖ will be awarded for the assignment.

No extensions are possible without a formal request for special consideration (see policy link below). Please note that the policy states that: ÖWork commitments are not normally considered a justification.Ö

Please note that lecturer support may NOT be available after the original submission date.

You must achieve at least 50 marks out of a total 100 marks to pass this course. You are not required to pass any one particular piece of assessment; you simply need to pass the course overall. Final marks in this course may be moderated.

Quizzes

Three, thirty-minute, open-book on-line (moodle) quizzes will be conducted as scheduled in the assessment table. There are 15 questions in each quiz drawn in random from a database. Students are not to record questions in any way for the benefit of other students. Students are only permitted two attempts for Quiz One and one attempt for the second and third quiz.

Quiz questions are predominately drawn from the applicable chapters of the notes and their associated revision questions, although additional readings on moodle for each chapter will help synthesise the information for more challenging questions and the assignments.

A practice quiz is on Moodle to ensure your computer has the right interface to support the quizzes. Students are to run this practice quiz well before doing Quiz 1.

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Assignments

The assignments are available on Moodle. Assignment One is about test metrics and test concept planning and is done by all students on a topic set by UNSW.

Assignment Two practices more T&E metrics on a topic of the student's choice and has them write aspects of a

Course Schedule

Students will need to complete the study of the body of knowledge in the supplied course notes with the following program.

Phase	Dates	Topic
Sections 1-2	24 Jul ÷ 6 Aug	Check Practice Quiz works from your computer Read Notes & associated readings for Chapters 1-2, complete revision questions
Quiz 1	6 Aug 17	Undertake Quiz 1
Section 3	7-13 Aug 17	Read Notes & associated readings Chap 3 prepare Ass 1 metrics
Ass 1 Pt A	13 Aug 17	Post T&E metrics
Section 3-4	14-20 Aug 17	Read Notes & associated readings Chap 4 Critique T&E metrics
Ass 1 Pt B	20 Aug 17	Post critiques of T&E metrics
Quiz 2	20 Aug 17	Undertake Quiz 2
Section 4	21-27 Aug 17	Prepare Ass 1 TCD
Ass 1 Pt C	27 Aug 17	Submit
Section 3 - Variation	28 Aug ÷ 3 Sep 17	Review video workshop on variation in systems Complete Ass 3
Ass 3	3 Sep 17	Submit
Sections 5-7	4 Sep ÷ 15 Oct 17	Read Notes & associated readings Chapters 5-7
Ass 2 Pt A	10 Sep 17	Submit
Quiz 3	17 Sep 17	Undertake
Ass 2 Pt A	18 Sep 17	Review Feedback
Ass 2 Pt B	18 Sep ÷ 15 Oct 17	Prepare Ass 2 Pt B
Ass 2 Pt B	15 Oct 17	Submit

Course Evaluation and Development