UNIVERSITY OF WOLLONGONG

Faculty of Engineering and Information Sciences
School of Electrical, Computer and Telecommunications Engineering

SUBJECT OUTLINE
ECTE451 Engineering Project 1

6 Credit Points, Spring Session 2018

Wollongong On Campus

In extraordinary circumstances the provisions stipulated in this Subject Outline may require amendment after the Subject Outline has been distributed. All students enrolled in the subject must be notified and have the opportunity to provide feedback in relation to the proposed amendment, prior to the amendment being finalised.

1. Subject Coordinator

Associate Professor David Stirling
Room: 35.G30
Tel: +61 2 4221 3419
Email: stirling@uow.edu.au
Consultation Times: Mondays 9:00-10:00, Tuesdays 9:30-10:30 and Wednesdays 9:00-11:00. Students are advised to email for an appointment.

2. Teaching Staff

Associate Professor David Stirling
Room: 35.G30
Tel: +61 2 4221 3419
Email: stirling@uow.edu.au
Consultation Times: Mondays 9:00-10:00, Tuesdays 9:30-10:30 and Wednesdays 9:00-11:00. Students are advised to email for an appointment.

3. Subject General Information

Equivalence: ECTE457

4. Subject Description

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In this subject students will be assigned to an individual supervisor drawn from the School's academic staff. The supervisor will provide a topic to the student and give instructions on how to research and carry out other work related to the topic. The student will be expected to meet weekly with the supervisor. At the end of the session, the student is required to produce a written report and a seminar presentation on the respective topic.

5. Subject Learning Outcomes

On successful completion of this subject, students will be able to: Demonstrate an ability to effectively conduct research on a topic of interest in a chosen field of study. Perform preliminary work to extend this topic. Show a high level ability to communicate in writing by producing a detailed report that presents key findings and an analysis of results. Demonstrate high level oral communication skills through the delivery of a seminar presentation speaking to a captive audience.

6. Graduate Outcomes

As a result of this subject, students are expected to develop the following University of Wollongong Graduate Qualities and corresponding Engineering Capabilities that are directly linked to the attributes of graduate engineers as defined by Engineers Australia. Further information with a link to the Engineering Graduate Capabilities Mapping can be found at http://eis.uow.edu.au/secte/current-students/undergraduate/index.html

7. Attendance Requirements and Timetable

The school regularly reviews subjects (both formally and informally) in response to staff and student feedback, and may make changes to courses as appropriate. Relevant changes to this course *may* be documented below.

8. Major Texts and References

Blicq, R, Technically - Write!, Prentice Hall, Englewood Cli s, 1981.AGPS, Style Manual for Authors, Editors and Printers (5th ed), Australian Government Printing Services, 1994.

Note: The list of key references/recommended readings is not intended as an exhaustive list. Students should use the Library catalogue and databases to locate additional resources.

9. Required Materials

Students are required to purchase a Laboratory Logbook. This is a hardcover, bound book with no loose sheets. Students will be advised of any further requirements.

10. Subject Website

The subject has an online support site which will be used for delivery of course material and online assessment. This can be accessed via SOLS.

11. Assessment Task List

Copies of student work may be retained by the University in order to facilitate quality assurance of assessment processes.

In accordance with the Coursework Student Academic Complaints policy, a student may request an explanation of a mark for an assessment task or a final grade for a subject consistent with the student's right to appropriate and useful feedback on their performance in an assessment task. Please refer to the Coursework Student Academic Complaints policy for further information.

Data on student performance and engagement (such as Moodle and University Library usage, task marks, use of SOLS) will be available to the Subject Coordinator to assist in analyzing student engagement, and to identify and recommend support to

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students who may be at risk of failure. If you have questions about the kinds of data the University uses, how we collect it, and how we protect your privacy in the use of this data, please refer to https://www.uow.edu.au/about/privacy/index.html.

The University of Wollongong is committed to the quality assurance and quality enhancement of assessment. The University will meet its legislative and regulatory obligations, to ensure consistent and appropriate assessment through course management and coordination, including assessment quality assurance procedures. An Assessment Quality Cycle is used to describe quality assurance at the points of assessment design, assessment delivery, the declaration of marks and grades, and review and improvement activities.

Assessment Task	Weight	Method of Submission / Acknowledgement	Length, Style and Format Required	Date Due, Time and Location, if Relevant	Penalties for Late Submission
Submission of Project Proposal.	5%	A signed and scanned on-line submission to the associated Moodle drop box	Completed as per 'ECTE451 Project Proposal Review' proforma (e-Learning), maximum 5 pages.	Monday, Week-4, 5:30pm, on-line submission to the associated Moodle drop box	Technical Fail.
Progress of Project work - Supervisor Mark.	30%	Continual, sustained project work over the session.	As required by Project Specification and Plan.	Entire session.	N/A
Project Presentation Pitch	10%	Oral Presentation	As per ECTE451 information booklet on e-learning	As per ECTE451 information booklet on e-learning	Technical Fail.
Thesis Report	55%	In person to location TBA via SOLs mail in Week-12	As described in Information Booklet	Before 4pm Monday, Week 12, at venue TBA + Moodle on-line submission in associated drop box	10% per working day.

In addition to the above, students are advised that School Policies relevant to the assessment of this subject are available on-line on the School webpage under information for Current Students. Students are advised to access this information immediately. Hard copies are available from the School Office (EIS Central 4.G12) on request.

12. Assessment Task Details

Please access the online support site accessible via SOLS in order to obtain full details on each of the specified assessment tasks.

Performance Level

Students should note that passing the subject is conditional on participation in all forms of assessment. All students must participate in ALL forms of assessment (for example, laboratories/practicals and tutorials, where applicable). Students may be awarded a Technical Fail (TF) if they do not achieve at least 40% in ALL components of the assessment.
Please note: the passing grade for most subjects is 50% or above.

Scaling

Marks awarded for any assessment task (including examinations) may be subject to scaling at the end of the session by the School Assessment Committee and/or the Faculty Assessment Committee (FAC). Marks will only be scaled to ensure fairness/parity of marking across groups of students. Scaling will not affect any individual's rank order within their cohort. For more information please refer to Standards for the Finalisation of Student Results Schedule 1: Scaling Guidelines http://www.uow.edu.au/about/policy/UOW039331.html for details.

Supplementary Assessment

Supplementary assessment may be offered to students whose performance in this subject is close to that required to pass the subject, and are otherwise identified as meriting an offer of a supplementary assessment. The precise form of supplementary assessment will be determined at the time the offer of a supplementary is made. For more information refer to the Supplementary Assessment Guidelines

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UOW Grade Descriptors

High Distinction 85% to 100%
Distinction 75% to 84%
Credit 65% to 74%
Pass 50% to 64%
Satisfactory/Unsatisfactory completion (e.g. Professional Experience placements)
Fail < 50%
Technical Fail (where minimum performance level requirements are not met)

Submission and Return of Assessment Items

Assessed work must be handed in by the date and time listed under each assessment task. All assessment tasks must represent the enrolled student's own ORIGINAL work and must not have been previously submitted for assessment in any formal course of study.
All assessment tasks should be completed and submitted. The individual assessments will be combined using the above weightings to produce the final mark and grade.

Late Submission

Penalties for Late Submission are given for each individual assessment task in the assessment table under "Section 11 Assessment Task List" above.
If a late submission penalty has not been specified, the following default late submission scheme will apply:
A late penalty of 20% mark reduction will apply per working day late.
After 5 working days, no marks will be awarded and further submissions will not be allowed.

Extensions

Extensions of time to submit material for assessment can only be granted in exceptional circumstances such as illness, injury, other serious cause, or extenuating circumstance, provided the submission and the approval of academic considerations - further details are available at http://www.uow.edu.au/about/policy/UOW058721.html.
Note: *This Subject Outline provides details of requirements for the subject and this information includes the dates for the submission of work for assessment. Pressure of work, either from employment or from other subjects, is not an acceptable reason for seeking an extension of time.*

Student Academic Consideration

Applications from students for academic consideration should be made only on the grounds of serious or extenuating circumstances. You can apply for academic consideration in Student Online Services (SOLS). Applications for academic consideration are governed by the university's Student Academic Consideration Policy.
Do not assume that an application for academic consideration will be automatically granted.

Reasonable Adjustments

If you have a disability or a medical condition which may disadvantage you in your assessment tasks, you can apply to have the conditions of your exams adjusted to take your disability or condition into account.

Supplementary Exams

If you believe that your performance in an exam has been affected by illness or other causes beyond your control, you can apply for academic consideration in Student On Line Services (SOLS). In some circumstances you may wish to apply for a supplementary exam in addition to or instead of the final exam.
Your application must be submitted within three (3) working days of the final exam for the subject together with documented evidence supporting your application. For more information refer to: http://www.uow.edu.au/about/policy/UOW116801.html.

13. Extensions for Written Work/Academic Consideration

Students who miss a deadline or otherwise find their work in the subject affected by illness or serious misadventure are required to lodge a formal request for Academic Consideration via SOLS. The procedures for lodging a request are available at: http://www.uow.edu.au/about/policy/index.html

14. Return and Retention of Assessed Materials

To submit an assignment using the SATS system, you will need to generate a cover sheet on the web and attach this to your

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assignment. The assignment must be submitted to EIS Central (4.G12). Staff will barcode scan your assignment cover sheet upon submission and you will receive receive a receipt by email. When your assignment has been marked, you will also be emailed informing it is ready to be picked up from EIS Central. To collect your assignment you will need your Student ID card.

For assessments that are not submitted using the SATS system, please refer to the assessment task list for details on the submission and collection location. Alternatively, you will be advised of submission details in class.

End of session examination papers are not returned to students. Students wishing to view their end of session examination paper will need to contact the subject coordinator to arrange a time for viewing. End of session examination papers are held by the School in a secure location for a period of two years before they are disposed of securely.

15. Academic Integrity and Plagiarism

PLAGIARISM WILL NOT BE TOLERATED.

The University's Academic Integrity Policy, Faculty Handbooks and subject guides clearly set out the s expectation that students submit only their own original work for assessment and avoid plagiarising the work of others or cheating. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement or without the explicit permission of the Subject Coordinator. Plagiarism can be detected and has led to students being expelled from the University.

The use by students of any website that provides access to essays or other assessment items (sometimes marketed as "resources"), is extremely unwise. Students who provide an assessment item (or provide access to an assessment item) to others, either directly or indirectly (for example by uploading an assessment item to a website) are considered by the University to be intentionally or recklessly helping other students to cheat. This is considered academic misconduct and students place themselves at risk of being expelled from the University. Students should visit the following University website and become familiar with the University's policy on Plagiarism http://www.uow.edu.au/about/policy/UOW058648.html

16. Grievance Procedures

Students that have a problem or concern in relation to their academic experience will need to consult the University and Faculty of Engineering and Information Sciences

17. School Policies

All School Policies applying to this subject, including academic consideration, grievance procedures and assessment are available from the School's webpage.

Students are advised to familiarise themselves with these requirements.

School Policies do not supersede any University Codes of Practice, Rules and Guidelines. School policies must be read in conjunction with the applicable University requirements.

18. University Codes of Practice, Rules and Guidelines

The University has in place codes of practice, rules and guidelines that define a range of policy issues on both educational and student matters. Students must familiarise themselves with the contents of these requirements:

Faculty of Engineering and Information Sciences Student Representatives
http://eis.uow.edu.au/current-students/get-involved/studentreps/index.html

Academic Integrity
http://www.uow.edu.au/about/policy/UOW058648.html

Assessment and Feedback Policy

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http://www.uow.edu.au/about/policy/alphalisting/UOW222905.html

Code of Practice - Teaching
http://www.uow.edu.au/about/policy/UOW058666.html

Copyright Policy
http://www.uow.edu.au/about/policy/alphalisting/UOW026670.html

Course Progress Policy
http://www.uow.edu.au/about/policy/UOW058679.html

Coursework Student Academic Complaints Policy
http://www.uow.edu.au/about/policy/UOW058653.html

eLearning Guides
http://www.uow.edu.au/student/elearning/guide/index.html

Inclusive Language Guidelines
http://www.uow.edu.au/about/policy/students/UOW140611.html

Intellectual Property
http://www.uow.edu.au/about/policy/UOW058689.html

IP Student Assignment of Intellectual Property Policy
http://www.uow.edu.au/about/policy/UOW058690.html

Occupational Health & Safety
http://staff.uow.edu.au/ohs/index.html

Student Academic Consideration Policy
http://www.uow.edu.au/about/policy/UOW058721.html

Student Conduct
http://www.uow.edu.au/about/policy/UOW058723.html

Subject Delivery Policy
http://www.uow.edu.au/about/policy/alphalisting/UOW222906.html

The Student Charter
http://www.uow.edu.au/student/haveyoursay/studentcharter/index.html

Grade & Mark Descriptor

High Distinction (HD) 85-100%

For performance that provides evidence of an outstanding level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a distinction grade plus (as applicable) one or more of the following:
- consistent evidence of deep and critical understanding
- substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem-solving approaches
- critical evaluation of problems, their solutions and their implications
- use of quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions from this work
- creativity in application as appropriate to the discipline
- eloquent and sophisticated communication of information and ideas in terms of the conventions of the discipline
- consistent application of appropriate skills, techniques and methods with outstanding levels of precision and accuracy
- all or almost all answers correct, very few or none incorrect

Distinction (D) 75-84%

For performance that provides evidence of a superior level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a credit grade plus (as applicable) one or more of the following:
- evidence of integration and evaluation of critical ideas, principles, concepts and/or theories
- distinctive insight and ability in applying relevant skills, techniques, methods and/or concepts
- demonstration of frequent originality in defining and analysing issues or problems and providing solutions
- fluent and thorough communication of information and ideas in terms of the conventions of the discipline

- frequent application of appropriate skills, techniques and methods with superior levels of precision and accuracy
- most answers correct, few incorrect

Credit (C) 65-74%

For performance that provides evidence of a high level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a pass grade plus (as applicable) one or more of the following:
- evidence of learning that goes beyond replication of content knowledge or skills
- demonstration of solid understanding of fundamental concepts in the field of study
- demonstration of the ability to apply these concepts in a variety of contexts
- use of convincing arguments with appropriate coherent and logical reasoning
- clear communication of information and ideas in terms of the conventions of the discipline
- regular application of appropriate skills, techniques and methods with high levels of precision and accuracy
- many answers correct, some incorrect

Pass (P) 50-64%

For performance that provides evidence of a satisfactory level attainment of the relevant subject learning outcomes, demonstrating (as applicable) one or more of the following:
- knowledge, understanding and application of fundamental concepts of the field of study
- use of routine arguments with acceptable reasoning
- adequate communication of information and ideas in terms of the conventions of the discipline
- ability to apply appropriate skills, techniques and methods with satisfactory levels of precision and accuracy
- a combination of correct and incorrect answers

Fail (F) < 50%

For performance that does not provide sufficient evidence of attainment of the relevant subject learning outcomes.

Technical Fail (TF)

When minimum performance level requirements for at least one assessment item in the subject as a whole has not been met despite the student achieving at least a satisfactory level of attainment of the subject learning outcomes.

19. Revision Information

The school regularly reviews subjects (both formally and informally) in response to staff and student feedback, and may make changes to courses as appropriate. Relevant changes to this course *may* be documented below.

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