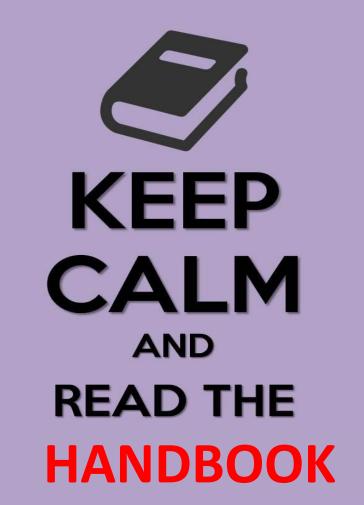**ENGR489 (Final year Project)**

Outline

- Project allocations

- ENGR489 expectations

- Timeline

- IP, supervision

- Proposal

- Marking rubric

- Action Items

Project Allocations

There are a few students who are yet to be allocated.

We will allocate these manually in this week (hopefully).

Sorry if you don't get your first choices...

If you think you just can't work on your assigned project. Let me know and we can discuss if we can find a solution.

ENGR489 expectations

ENGR projects are expected to solve real-world problems using technically innovative solutions.

ENGR projects must show an emphasis on design and provide evidence of the effectiveness of the devised solutions through appropriate evaluation.

Students are expected to demonstrate craft in the design and implementation of their solution, and to use engineering processes and/or notations appropriate for their specialisation.

Design – Implement - Evaluate

Week 1	Students rank projects using project allocation system.
Week 2	Project allocation performed by course coordinator. Students meet with supervisor(s) and begin work.
Week 5 (Friday, 5pm)	**Students submit project proposals and IP forms on ECS Wiki (email confirmation of IP plans is sufficient for internal projects).**
⋮	Work continues; students meet regularly with supervisors.
Week 12 Monday (23:59)	**ENGR489 Students submit their preliminary report.**
Mid-Year Break	Work continues. Students meet with supervisors where possible.
Week 1	Students can arrange to give presentation on preliminary report to elicit feedback (Not Compulsory).
⋮	Work continues; students meet regularly with supervisors.
Week 7 (end of)	Students submit a draft of their final report to their Supevisors.
Week 10	ENGR489 students submit a project snapshot. Not assessed at this point.
Week 12 (end of)	**Students submit final report.**
Second Thursday of T2 Assessment Period - week 14	**Students submit presentation slides by 11:59:59 AM.**
Second Friday of T2 Assessment Period - week 14	**Students present their work during presentation day.**

ENGR489 Timetable

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**IP agreement
Proposal**

Assessment	Due Date	Weight
IP_Agreement	18/03/2022 23:59:00	0%
Proposal	01/04/2022 23:59:00	0%
Preliminary_Report	03/06/2022 23:59:00	20%
Draft_Report	09/09/2022 23:59:00	0%
Snapshot	30/09/2022 23:59:00	0%
Final_Report	14/10/2022 23:59:00	80%
Presentation_Slides	27/10/2022 23:59:00	0%

Templates (industry and standard) available at the course wiki:
https://ecs.wgtn.ac.nz/Courses/ENGR489_2022FY/Resources

Intellectual Property

- Identify those parties who are stakeholders in the project.

- Agreement is very important if its an industry project.

- Why? We had over 5 projects filed for patents as a direct outcome of 489s

Intellectual Property

- Students and staff will typically both have copyright and IP interests in internal projects,

- Students have the right to named as authors when project outputs are disseminated and there is an expectation of mutual consultation prior to the use of project outputs for research or teaching.

- If there is no plans to commercialise the project outputs, then the agreement can be via email to the supervisor.

- The only signed Agreement that should be used with regard to IP is the University Student Intellectual Property Agreement, and only when there is an intention for project outputs to be commercialised

Supervision

- Expect you to meet with your supervisor every week (regularly) for a minimum of 30 minutes (working minimum).

  - For industry projects, weekly meeting with your industry supervisor. VUW supervisor's choice to attend the meeting and not compulsory.

- Provide you with guidance (academic and scholarly)

- Assess your progress and give you feedback

- Guiding to University facilities, help you to comply with Univ. regulations

Supervisor Guidance

- Standards required for this project

- Planning your research

- Skills you need to achieve

- Research Resources

- Methodology

- Literature review support

- Ethical, Legal, Professional, H&S issues

- Expectations of examiners

Your Responsibilities

- Obligation to devote around 10 hours a week

- Including mid trimester and year breaks

- Attended supervisory meetings

- Provide all required documentation to supervisors on time (if you want their prompt feedback)

- Complete H&S and Ethics (if needed) documentation

- Remember **30 points**; weighs more in your honours calculation than other 4XX courses

Proposal

- Meet your supervisor, discuss the project with them and submit your proposal by the end of week 5 (April 1, 2022).

- Generally, the proposal should include the following topics (details in Chapter 2, Handbook 2022):
  - An overview of the problem being addressed by the project.
  - A statement regarding the proposed solution to the problem.
  - A statement regarding the proposed evaluation method.
  - A discussion of any ethical considerations around the project.
  - A statement regarding any budgetary requirements, including appropriate justification.
  - A statement regarding any risks or hazards that the project poses (either in the development itself, or in using the final artefact). – Covid plan (important)
  - Provide a proposed project time line, in the form of a Gantt chart (or similar).

Proposal

- Expected to be **8 pages in length** inclusive (i.e. title page, contents & glossary, Gantt chart, References and Bibliography … All count in the 8 pages).
  - A separate appendix document, which may reference your approved University online repository, may also be submitted but will not receive additional marks.

- 2 important things to note for this year:
  - Include a Covid plan
  - Name of a back-up supervisor

Gantt Chart

Task Name	Q1 2019			Q2 2019		Q3 2019
	Jan 19	Feb 19	Mar 19	Apr 19	Jun 19	Jul 19
Planning						
Research						
Design						
Implementation						
Follow up						

What is Proposal worth?

No marks, but!

- Would help you identify objectives and a plan.

- A small amount of funding is available for every project once the report is accepted (the exact amount depends on the specialisation, and should be justified).

- The funding is primarily to help purchase items necessary for the project.

Feedback

- By 16th April
- Aim of this process?
  - Constructive feedback
  - If the project is viable and sensible for the specialisation
  - Any obvious issues that need addressing

Parameters for Marking (General)

- Clear and concise presentation of the problem and your approach to solve it.

- Amount of work you have done to achieve the objectives of the project

- Critical thinking

- Written communication skills

Parameters for Marking (Preliminary report)

Introduction an background
- Concise outline of the concept and explicit description of the important aspects of the final product. Review of stat-of-the-art
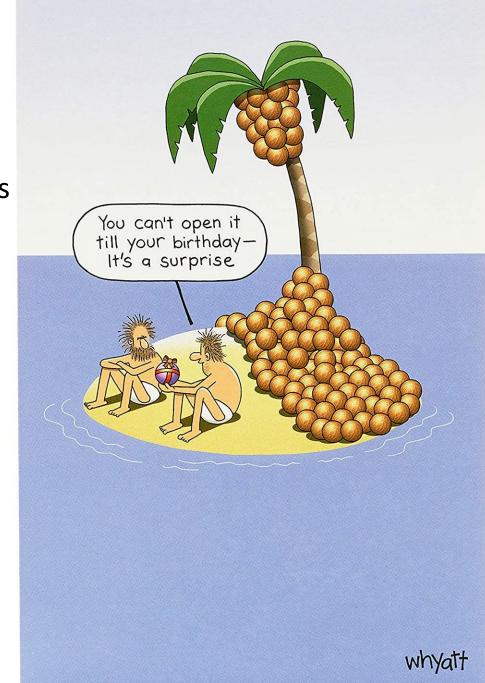
Work done

Future plan

Critical thinking

Written communication

Marking rubric for both Preliminary and Final report will be made available in the course wiki :https://ecs.wgtn.ac.nz/Courses/ENGR489_2022FY/Resources

489 Lectures

- Regular for the first six weeks

- Then as needed, so carefully watch out for emails

- Topics include:

    - Guest lecture on IP

    - Ethics

    - Library resources: Conducting research, referencing and bibliography

    - Latex

    - Any other topic on your request

Action items

ENGR489 Project Allocation to do's

Arrange to chat with supervisor in Week 2/3

Research your project

Work out if Ethics is needed – takes long time

Complete H&S forms on Wiki

ECEN/EEEN–Keep them in your RED folder and on desk

SWEN – Keep them with you