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### BME/ECE/SENG 499 – Design Project II

Term – Summer 2018 (201805)

#### Instructor

Dr. T. Ilamparithi  
Phone: 250 721 8679  
E-mail: ilampari@uvic.ca

#### Office Hours

Days: By appointment  
Time: By appointment  
Location: EOW 407

#### Course Objectives

The Design Project course provides you an opportunity to acquire formal design experience by working on a project in a team of 4 or 5 persons. You and your team mates will select and execute a project approved and supervised by a faculty member. You will also get an opportunity to demonstrate your work to public towards the end of the term.

#### Intended Learning Outcomes

By the end of the course, you should be able to

- Formulate a problem definition and design objectives for a design activity based on the requirements and constraints imposed by the client/stakeholder.
- Generate and evaluate conceptual design ideas by performing a detailed literature review.
- Explain the social implications of the proposed engineering work.
- Apply appropriate mathematical methods for the analysis of the engineering design.
- Participate effectively in teamwork during engineering design.
- Produce a functional prototype or perform extensive simulation of the design.
- Test, evaluate and document the performance of the prototype.
- Prepare professional reports detailing the design activity.
- Create a webpage to publicize the design activity.

#### Syllabus

N/A

#### A-Section(s):

BME 499 A01 / CRN 30060  
ECE 499 A01 / CRN 30299  
SENG 499 A01 / CRN 30712

TA: Philip Alipour  
TA Email: philipbaback\_orbsix@msn.com

Days: Wednesdays

Time: 4:30 to 5:20 PM

Location: David Strong Building (DSB) C103

#### Required Text

N/A

**Assessment:**

Progress Report	20%	June 13
Work log	05%	
Webpage	20%	
Final report	55%	Aug 1

**Note:**

Failure to complete all course requirements will result in a grade of N being awarded for the course.

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

<https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/grading.html>

**There will be no supplemental examination for this course.**

**Note to students:** Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Assistant to set up an appointment.

**Accommodation of Religious Observance:**

<https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/religious-observanc.html>

**Policy on Inclusivity and Diversity:**

<https://web.uvic.ca/calendar2018-05/general/policies.html>

**Standards of Professional Behaviour:** You are advised to read the Faculty of Engineering document Standards for Professional Behaviour, which contains important information regarding conduct in courses, labs, and in the general use of facilities. <https://www.uvic.ca/engineering/assets/docs/professional-behaviour.pdf>

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the entry in the current Undergraduate Calendar for the UVic policy on academic integrity.

<https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/academic-integrity.html>

**Equality:** This course aims to provide equal opportunities and access for all students to enjoy the benefits and privileges of the class and its curriculum and to meet the syllabus requirements. Reasonable and appropriate accommodation will be made available to students with documented disabilities (physical, mental, learning) in order to give them the opportunity to successfully meet the essential requirements of the course. The accommodation will not alter academic standards or learning outcomes, although the student may be allowed to demonstrate knowledge and skills in a different way. It is not necessary for you to reveal your disability and/or confidential medical information to the course instructor. If you believe that you may require accommodation, the course instructor can provide you with information about confidential resources on campus that can assist you in arranging for appropriate accommodation. Alternatively, you may want to contact the Resource Centre for Students with a Disability located in the Campus Services Building.

The University of Victoria is committed to promoting, providing, and protecting a positive, and supportive and safe learning and working environment for all its members.

**Course Lecture Notes:** Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.