

GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

ENGR 201 Professional Practice and Responsibility

Fall 2023

Course Instructor:

Govind Gopakumar PhD

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Dr. Govind Gopakumar is Associate Professor in the Centre for Engineering in Society, Gina Cody School of Engineering and Computer Science, Concordia University, Montreal

Office Hours:

Mondays 11:00 AM - 12:00 PM by Zoom.

Tutors and Tutorials: Please see your class schedule for more details

Tutorial A YA Joarder

ya.joarder@econcordia.com Wednesdays 8:45AM - 9:35AM

Tutorial B Geovana Franca

geovana.franca@econcordia.com Wednesdays 8:45AM - 9:35AM

Tutorial C Saidul Islam

saidul.islam@econcordia.com Fridays 4:15AM - 5:05PM

Tutorial D Akinlolu Ojo

akinlolu.ojo@econcordia.com Fridays 1:15PM - 2:05PM

Tutorial E Saidul Islam

saidul.islam@econcordia.com Thursdays 5:45PM - 6:35PM

Tutorial F Ahad Farnhood Ahmadi

ahad.farnood@econcordia.com Thursdays 5:45PM - 6:35PM

Tutorial G YA Joarder

ya.joarder@econcordia.com Tuesday 4:15PM - 5:05PM

Tutorial H Neha Roy

neha.roy@econcordia.com Tuesdays 4:15PM - 5:05PM

Tutorial I Ahad Farnood Ahmadi

ahad.farnood@econcordia.com Wednesdays 5:45PM - 6:35PM

Tutorial J Romina Hosseini

romina.hosseini@econcordia.com Wednesdays 5:45PM - 6:35PM

Tutorial K Geovana Franca

geovana.franca@econcordia.com Mondays 8:45AM - 9:35AM

Tutorial L YA Joarder

ya.joarder@econcordia.com Mondays 8:45AM - 9:35AM

Course Calendar Description:

Professional Practice and Responsibility is concerned with ethical professional practices and responsibilities for engineers working within Quebec and Canadian legislative frameworks. The course will touch on four main topics: professional systems, the ethics of engineering, the professional duties of an engineer, as well as the legal dimensions of professional practice. It is a core course for all students enrolled in the Bachelor's in Engineering program but is open to all students (no pre-requisites). This course is particularly important because it will directly address CEAB's graduate attributes on professionalism and ethics by seeking to develop among students an understanding of the roles and responsibilities of the professional engineer in society, especially the primary role protection of the public and the public interest.

Prerequisites: N/A Co-requisites: N/A

Specific Knowledge and Skills Needed for this Course:

Students taking this course are expected to have sufficient knowledge of the following topics. Should you have difficulties in any of these topics, you are strongly encouraged to review them before the DNE deadline.

No specific knowledge or skills are needed for this course other than an openness to understand concepts from a range of disciplines such as management, social sciences, and philosophy.

Course materials

Required Textbook: *N/A*

All course materials will be available through the eConcordia platform and can be accessed by logging into the course website with your netname and password at www.econcordia.com.

The material for this course consists of the required online readings and the ENGR 201 course website which includes cases, quizzes, videos, discussion boards and other course material. Each lesson provides study notes, as well as cases and self-tests. Click on Lessons, then chose the chapter you are studying. Also note that solutions to chapter cases, problems and questions are shown only once your response has been entered.

There is a recommended text that is available on short-term loan in the library. Engineering Ethics by Carl Mitcham and R. Shannon Duval, 2008, Pearson.

Grading Scheme

Quizzes (2 * 20% of your grade):

There will be two online quizzes in the semester. These quizzes will try to test your grasp of key concepts, your ability to analyze, and your familiarity with the readings.

Final Exam (40% of your grade):

The final exam for this course will include material from all of the online lessons. The examination will be held online on **November 24th.**

Tutorial (20% of your grade):

Each of you will regularly attend the tutorial section you are assigned to. In the tutorial, the tutor will assign a problem that you will analyze as a team and then submit your work to the tutor.

Knowledge Quest (5% bonus):

When you finish reading the material for each lesson, you will be able to answer about 5 knowledge questions. The questions will be a mix of true or false or multiple choice questions. For each lesson you will receive only one chance to answer the questions. Depending on the number of right answers you get over the 11 lessons you will receive a score between 0-5 in the knowledge quest.

Note: if you received 5 or fewer right answers totally for questions from all the 11 lessons you will receive a score of 0 in this section.

Tentative Course Schedule

FALL 2023 Agenda

Week 1: September 4 - September 10			
	Course Introduction		
	Navigate the Course Website		
	Lesson 1: What is a Profession?		
September 04	Labour Day, university closed		
September 05	Classes begin		
September 05	Discussion Board opens at 2 PM.		
September 05	Tutorial G - Tuesday 4:15 - 5:05 PM		
September 06	Tutorial A - Wednesday 8:45 - 9:35 AM		

September 06	Tutorial I - Wednesday 5:45 - 6:35 PM					
September 07	Tutorial E - Thursday 5:45 - 6:35 PM					
September 08	Tutorial C - Friday 4:15 - 5:05 PM					
Week 2: September 11 - September 17						
	Lesson 1: What is a Profession?					
September 11	Tutorial L – Monday 845 – 935 AM					
September 12	Tutorial H - Tuesday 4:15 - 5:05 PM					
September 13	Tutorial B - Wednesday 8:45 - 9:35 AM					
September 13	Tutorial J - Wednesday 5:45 - 6:35 PM					
September 14	Tutorial F - Thursday 5:45 - 6:35 PM					
September 15	Tutorial D - Friday 4:15 - 5:05 PM					
	Week 3: September 18 - September 24					
	Lesson 2: Professional Systems in Quebec					
September 18	Tutorial K - Monday 8:45 - 9:35 AM					
September 19	Tutorial G - Tuesday 4:15 - 5:05 PM					
September 20	Tutorial A - Wednesday 8:45 - 9:35 AM					
September 20	Tutorial I - Wednesday 5:45 - 6:35 PM					
September 21	Tutorial E - Thursday 5:45 - 6:35 PM					
September 22	Tutorial C - Friday 4:15 - 5:05 PM					
September 18	Deadline to add fall-term courses					
September 18	Deadline for withdrawal with tuition refund (DNE) from fall-term courses					
	Week 4: September 25 - October 1					
	Lesson 3: What are Ethics?					
September 25	Tutorial L – Monday 845 – 935 AM					
September 26	Tutorial H - Tuesday 4:15 - 5:05 PM					
September 27	Tutorial B - Wednesday 8:45 - 9:35 AM					
September 27	Tutorial J - Wednesday 5:45 - 6:35 PM					
September 28	Tutorial F - Thursday 5:45 - 6:35 PM					
September 29	Tutorial D - Friday 4:15 - 5:05 PM					
September 29	Quiz 1 (covers Lessons 1, 2, and 3)					
	Week 5: October 2 - October 8					

October 2 Tutorial K - Monday 845 - 935 AM October 3 Tutorial G - Tuesday 4:15 - 5:05 PM October 4 Tutorial A - Wednesday 8:45 - 9:35 AM October 5 Tutorial E - Thursday 5:45 - 6:35 PM October 6 Tutorial C - Friday 4:15 - 5:05 PM Mid-term break: October 9 - October 15 October 9 Thanksgiving Day, university closed October 10 Mid-term break begins October 15 Mid-term break ends Week 6: October 16 - October 22 Lesson 5: Ethics and Organizations October 17 Tutorial H - Tuesday 4:15 - 5:05 PM October 18 Tutorial B - Wednesday 8:45 - 9:35 AM October 19 Tutorial J - Wednesday 8:45 - 6:35 PM October 19 Tutorial F - Thursday 5:45 - 6:35 PM October 22 Tutorial D - Friday 4:15 - 5:05 PM October 23 Tutorial G - Tuesday 4:15 - 5:05 PM October 24 Tutorial G - Tuesday 4:15 - 5:05 PM October 25 Tutorial G - Tuesday 4:15 - 5:05 PM October 26 Tutorial G - Tuesday 4:15 - 5:05 PM October 27 Tutorial F - Thursday 5:45 - 6:35 PM October 28 Tutorial G - Tuesday 4:15 - 5:05 PM October 29 Tutorial C - Friday 4:15 - 5:05 PM October 29 Tutorial C - Friday 4:15 - 5:05 PM October 29 Tutorial C - Friday 4:15 - 5:05 PM October 30 Tutorial C - Friday 4:15 - 5:05 PM October 31 Tutorial L - Monday 845 - 935 AM October 31 Tutorial L - Monday 845 - 935 AM October 31 Tutorial L - Monday 845 - 935 AM		Leann A. Ethical December				
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October 30 Tutorial L – Monday 845 – 935 AM October 31 Tutorial H - Tuesday 4:15 - 5:05 PM		Week 8: October 30 - November 5				
October 31 Tutorial H - Tuesday 4:15 - 5:05 PM		Lesson 7: Duties to the Profession				
·	October 30	Tutorial L – Monday 845 – 935 AM				
November 1 Tutorial B - Wednesday 8:45 - 9:35 AM	October 31	Tutorial H - Tuesday 4:15 - 5:05 PM				
	November 1	Tutorial B - Wednesday 8:45 - 9:35 AM				

November 1	Tutorial J - Wednesday 5:45 - 6:35 PM					
November 2	Tutorial F - Thursday 5:45 - 6:35 PM					
November 3	Tutorial D - Friday 4:15 - 5:05 PM					
November 3	Quiz 2 (covers Lesson 4, 5, 6 and 7)					
Week 9: November 6 - November 12						
	Lesson 8: Duties Towards the Public					
November 6	Tutorial K - Monday 8:45 - 9:35 AM					
November 7	Tutorial G - Tuesday 4:15 - 5:05 PM					
November 8	Tutorial A - Wednesday 8:45 - 9:35 AM					
November 8	Tutorial I - Wednesday 5:45 - 6:35 PM					
November 9	Tutorial E - Thursday 5:45 - 6:35 PM					
November 10	Tutorial C - Friday 4:15 - 5:05 PM					
November 10	Deadline to register with the Access Centre for Students with Disabilities and receive exam accommodations for the fall 2023 final examination period					
	Week 10: November 13 - November 19					
	Lesson 9: Legal Issues					
November 13	Tutorial L – Monday 845 – 935 AM					
November 14	Tutorial H - Tuesday 4:15 - 5:05 PM					
November 15	Tutorial B - Wednesday 8:45 - 9:35 AM					
November 15	Tutorial J - Wednesday 5:45 - 6:35 PM					
November 16	Tutorial F - Thursday 5:45 - 6:35 PM					
November 17	Tutorial D - Friday 4:15 - 5:05 PM					
	Week 11: November 20 - November 26					
	Lesson 10: Responsibility and Liability					
November 20	Tutorial K - Monday 8:45 - 9:35 AM					
November 21	Tutorial G - Tuesday 4:15 - 5:05 PM					
November 22	Tutorial A - Wednesday 8:45 - 9:35 AM					
November 22	Tutorial I - Wednesday 5:45 - 6:35 PM					
November 23	Tutorial E - Thursday 5:45 - 6:35 PM					
November 24	Tutorial C - Friday 4:15 - 5:05 PM					
November 24	Final Quiz (all lessons)					

Week 12: November 27 - December 3						
	Lesson 11: Issues in Professional Practice					
November 27	Tutorial L – Monday 845 – 935 AM					
November 28	Tutorial H - Tuesday 4:15 - 5:05 PM					
November 29	Tutorial B - Wednesday 8:45 - 9:35 AM					
November 29	Tutorial J - Wednesday 5:45 - 6:35 PM					
November 30	Tutorial F - Thursday 5:45 - 6:35 PM					
December 1	Tutorial D - Friday 4:15 - 5:05 PM					
November 27	Last day for instructor-scheduled tests or examinations					
	December 4 - December 5					
December 04	Tutorial K - Monday 8:45 - 9:35 AM					
December 04	Last day of classes, fall term					
December 05	Deadline for academic withdrawal (DISC) from fall-term courses					
	Examinations Period: December 6 – December 19					
	There is no Final Exam for this class during the Exam Period					

Other information

Please allow for a 24 hour response time during the week (Monday-Friday). Teaching Assistants check their messages once over the 48 hour weekend period and are not available on statutory or university holidays.

Tutorials: Please attend the very same tutorial section that you are assigned to on the class roll. Please do not migrate from one tutorial section to another. Since schedules for tutorial sections are a bit complicated, please remember which days your tutorial meets. The details of the tutorial schedules are also provided in your class agenda.

Please note that the tutorials for Section BL are in-person mandatory tutorials that meet once in two weeks.

Late Submissions and Extensions

- No extensions will be offered on quizzes or case studies.
- If you are unable to complete your work by the deadline or complete an exam on the assigned date, it is your responsibility to advise your Teaching Assistant, copied to the Instructor (govind.gopakumar@concordia.ca)
- You are responsible for the version of the work you upload to the website. If you upload the incorrect version of your work to the website, you can resubmit the correct version prior to the deadline. You can resubmit only one time. If you fail to meet the

deadline, the version of your work located on the website is the one that will be graded. In addition, please note that it is your responsibility to ensure that your case is received before the deadline. Should you be unable to submit your work via the website you must submit your work via e-mail to your TA before the deadline. Please give yourself enough time for online submissions to send your cases via e-mail should a technical issue arise.

• If you have technical issues with an assignment, e.g. your browser crashes, or a quiz is submitted automatically before the time has run out, please use the "Report an Issue" function on the course website to report your problem to an eConcordia administrator. Please do this before contacting a Teaching Assistant or the Instructor.

Graduate Attributes:

The following is the list of graduate attributes (skills) that students use, learn and/or apply throughout the term.

This semester this course will emphasize and develop the Canadian Engineering Accreditation Board (CEAB) graduate attributes of **Ethics and Equity**, **Professionalism**, and **Life-long Learning**.

The ethics and equity attribute is defined by the CEAB as: An ability to apply professional ethics, accountability, and equity. More specifically, students will be assessed on their abilities to:

- Understand what ethics are
- Differentiate between ethics, morals, values, and law
- Identify theoretical basis for ethical reasoning
- Apply ethical reasoning to resolve professional dilemmas
- *Understand of accountability to the engineering profession*
- *Understand of accountability to the public*
- Appreciate challenges to accountability in organizations
- Apply accountability to professional context
- *Identify professional obligations against discrimination*
- Appreciate gender dimensions of equity

This attribute will be assessed in tutorials and the final examination.

The **professionalism** attribute is defined by the CEAB as: An understanding of the roles and responsibilities of the professional engineer in society, especially the primary role of protection of the public and the public interest. More specifically, students will be assessed on their abilities to:

- Appreciate the role filled by professional engineers in society
- Describe the role of engineers in Quebec's professional system
- Differentiate between professional and personal roles
- Distinguish between dimensions of responsibility moral, legal & social
- Identify legal issues on occupational safety and intellectual property
- Apply responsibility in professional context
- Demonstrate a good understanding of liability in Quebec's legal system
- Communicate through accepted professional means

• Identify relevant professional standards

This attribute will be assessed in tutorials, quiz 1 and quiz 2.

The **life-long learning** attribute is defined by the CEAB as: An ability to identify and to address their own educational needs in a changing world, sufficiently to maintain their competence and contribute to the advancement of knowledge. More specifically, students will be assessed on their abilities to:

- Assess a physical problem and identify the knowledge necessary to solve it
- Self-acquire necessary information from different sources
- Show awareness of various engineering organizations for training opportunities

This attribute will be assessed in the "Knowledge Quest" portion of the online course material

Course Learning Outcomes (CLOs):

By the end of this course, learners will be able to:

- 1. Describe the main features of the Professional Order of Engineers in Quebec and Canada
- 2. Analyze ethical dilemmas in the field of engineering using ethical reasoning
- 3. Identify the professional duties and obligations of an engineer
- 4. Recognize the legal dimensions of professional practices.

Health and Safety Guidelines

All health and safety rules specific to this course can be found in the lab manual. General health and safety instructions and available health and safety trainings can be found at:

<u>Safety Programs - Concordia University (https://www.concordia.ca/campus-life/safety/general-safety.html)</u>

If your course has additional information about health and safety guidelines/training, please insert them here.

On Campus Resources

Please visit <u>Student services at Concordia University</u> for the services available Gina Cody School students.