

Course Outline						
1. COURSE INFORMATI	ON					
Session Offered	Winter	Winter 2022				
Course Name	Senior E	Senior Engineering Project				
Course Code	ENG TE	ENG TECH 4FD3				
Date(s) and Time(s) of lectures	Tuesda	Tuesdays, 6:30 – 9:30				
Program Name	Softwar	Software Engineering Technology				
Calendar Description	Researc	Project-based course using the agglomeration of previously acquired knowledge. Research, design, implement and document a software solution to a problem in a real-world application domain.				
Instructor(s)	Dr. Sesh Srinivas		E-Mail: ssriniv@mcmaster.ca Office Hours & Location: through Zoom by request			
2. COURSE SPECIFICS						
Course Description		1	T			
	Code	Туре		Hours per term		
Instruction Type	С	Classroom ins				
	L	Laboratory, workshop or fieldwork				
	Т	Tutorial				
	DE	Distance educ		39		
		Total Hours 39				
Resources		ISBN	Textbook Title & Edition	Author & Publisher		
	Other Supplies		S	ource		
Prerequisite(s)	Registra	Registration in Level IV Software Engineering Technology				
Corequisite(s)	none					
Antirequisite(s)	none	none				
Course Specific Policies	none					
Departmental Policies	Students must maintain a GPA of 3.5/12 to continue in the program.					
In order to achieve the required learning objectives, on average, B.Tech. stucan expect to do at least 3 hours of "out-of-class" work for every scheduled class. "Out-of-class" work includes reading, research, assignments and preprocess and examinations. Where group work is indicated in the course outline, such collaborative works.						
	mandatory. The use of cell phones, iPods, laptops and other personal electronic devices are prohibited from the classroom during the class time, unless the instructor makes an explicit exception.					



Announcements made in class or placed on Avenue are considered to have been

	communicated to all students including those individuals that are not in class. Instructor has the right to submit work to software to identify plagiarism.			
3. SUB TOPIC(S)				
Week 1	Course Introduction and problem selection			
Week 2	Meeting 1 – suitability of project			
Week 3	Meeting 2 – project specification			
Week 4	Design activities			
Week 5	Design Activities			
Week 6	Meeting 3 – design documentation due			
Week 7	Midterm Recess Feb 21 to Feb 27			
Week 8	Meeting 4 – discussion of prototype and progress			
Week 9	Prototype due			
Week 10	Meeting 5 – discussion of prototype and progress			
Week 11	Development activities			

Classes end: Tuesday, April 12th 2022

Presentations I – Final documentation and implementation due Presentations II – Final documentation and implementation due

Final Examination Period: Thursday, April 14 to Friday, April 29 All examinations MUST be written during the scheduled examination period.

Note that this structure represents a plan and is subject to adjustment term by term.

Development activities

The instructor and the University reserve the right to modify elements of the course during the term. The University may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes.

4. ASSESSMENT OF LEARNING *including dates*	Weight
Design Documentation	15
Prototype 1	20
Implementations	45
Final Prototype (40%)	
Final Documentation and Implementation (60%)	
Presentation	20
TOTAL	100%

Percentage grades will be converted to letter grades and grade points per the University calendar.

5. LEARNING OUTCOMES

Week 12

Week 13

Week 14

- 1. Participate in a software engineering project based activities
- 2. Develop a software engineering solution (prototype) that responds to a real-life problem using knowledge and skills acquired in prior learning
- 3. Create professional presentations for a particular audience
- 4. Participate equally and fully in all phases of the senior engineering project life cycle



6. COURSE OUTLINE – APPROVED ADVISORY STATEMENTS

ANTI-DISCRIMINATION

The Faculty of Engineering is concerned with ensuring an environment that is free of all discrimination. If there is a problem, individuals are reminded that they should contact the Department Chair, the Sexual Harassment Officer or the Human Rights Consultant, as soon as possible.

http://www.mcmaster.ca/policy/General/HR/Discrimination Harassment Sexual Harassment-Prevention&Response.pdf

ACADEMIC INTEGRITY

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. It is your responsibility to understand what constitutes academic dishonesty.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/

The following illustrates only three forms of academic dishonesty: The following illustrates only three forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained.
- improper collaboration in group work.
- copying or using unauthorized aids in tests and examinations.

AUTHENTICITY / PLAGIARISM DETECTION

Some courses may use a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. For courses using such software, students will be expected to submit their work electronically either directly to Turnitin.com or via an online learning platform (e.g. A2L, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty.

Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com please go to www.mcmaster.ca/academicintegrity.

COURSES WITH AN ON-LINE ELEMENT

Some courses may use on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

ONLINE PROCTORING

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their



browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

COMMUNICATIONS

It is the student's responsibility to:

- Maintain current contact information with the University, including address, phone numbers, and emergency contact information.
- Use the University provided e-mail address or maintain a valid forwarding e-mail address.
- Regularly check the official University communications channels. Official University
 communications are considered received if sent by postal mail, by fax, or by e-mail to the student's
 designated primary e-mail account via their @mcmaster.ca alias.
- Accept that forwarded e-mails may be lost and that e-mail is considered received if sent via the student's @mcmaster.ca alias.
- Check the McMaster/Avenue email and course websites on a regular basis during the term.

CONDUCT EXPECTATIONS

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the Code of Student Rights & Responsibilities (the "Code"). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, whether in person or online.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students' access to these platforms.

ACADEMIC ACCOMMODATION OF STUDENTS WITH DISABILITIES

Students with disabilities who require academic accommodation must contact Student Accessibility Services (SAS) at 905-525-9140 ext. 28652 or sas@mcmaster.ca to make arrangements with a Program Coordinator. For further information, consult McMaster University's Academic Accommodation of Students with Disabilities policy.

REQUESTS FOR RELIEF FOR MISSED ACADEMIC TERM WORK

McMaster Student Absence Form (MSAF): In the event of an absence for medical or other reasons, students should review and follow the Academic Regulation in the Undergraduate Calendar "Requests for Relief for Missed Academic Term Work".

ACADEMIC ACCOMMODATION FOR RELIGIOUS, INDIGENOUS OR SPIRITUAL OBSERVANCES (RISO)

Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the RISO policy. Students should submit their request to their Faculty Office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests. http://www.mcmaster.ca/policy/Students-AcademicStudies/Studentcode.pdf

COPYRIGHT AND RECORDING





Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, including lectures by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

EXTREME CIRCUMSTANCES

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.