



Partnership				
		Cours	e Outline	
1. COURSE INFORMATION	N			
Session Offered	Winter	2022		
Course Name	Project Management			
Course Code	GEN TE	GEN TECH 4PM3		
Date(s) and Time(s) of lectures	Fridays during the "Winter 2022" academic term.			
Program Name	Civil Engineering Infrastructure Technology / Software Engineering Technology / Energy Engineering Technologies / Manufacturing Engineering Technology			
Calendar Description	Introduction to best practice in project management including the use of planning, software and people management.			
Instructor(s)	РМР		E-Mail: ghbnn@mcmaster.ca Office Hours & Location: The best way to obtain lengthy feedback is to see me at the end of each lecture. If there are questions, I will stay up to an hour after the lecture to respond to questions on a first come, first serve basis. If there a lot of questions, I reserve the right to "triage" them based on my assessment of how urgent and well served by other sources they are.	
2. COURSE SPECIFICS				
Course Description		•		
	Code		Туре	Hours per term
Instruction Type	C	Classroom ins		
	L T	Laboratory, w Tutorial	orkshop or fieldwork	
	DE	Distance educ	ation	39
		Distance cade	Total Hours	
Resources		ISBN	Textbook Title & Edition	Author & Publisher
	ISBN: 9781628253825 Support: ISBN: 9781628256642		A Guide to the Project Management Body of Knowledge (PMBOK <sup>®</sup> Guide) — Sixth Edition, Published 2017	Project Management Institute
			A Guide to the Project Management Body of Knowledge (PMBOK <sup>®</sup> Guide) — Seventh Edition, Published 2021	Project Management Institute
		Support: 18022276	Project Management: A Systems Approach to Planning, Scheduling,	Harold Kerzner

and Controlling (11th Edition), Published 2013.





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	Other Supplies		Source
Prerequisite(s)	None		
Corequisite(s)	None		
Antirequisite(s)	None		
<b>Course Specific Policies</b>	-	•	ents should be aware that when
		-	e, private information such as first
			e-mail accounts, and program
		••	dents in the same course. The
	available information is	dependent on the techno	logy used. Continuation in this
	course will be deemed	consent to this disclosure	. If you have any questions or
	concerns about such disc	closure, please discuss this v	with the course instructor.
	Chudout Evenentations		
	Student Expectations		
	Expectations of the stude	ent are broadly defined as f	ollows:
	participate in cla learning in this materials (read preparation for schedule have be previously. 2. Group work is re	ssroom discussion. Studer blended course by havin ing, introductory video, an online tutorial. The o een structured such that ea quired in this course; such vo reports of the group as box on A2L.	s before the lectures, attend and its accept responsibility for their g examined the weekly course weekly tutorial materials) in course agenda and assignment ich class builds on things learned collaborative work is mandatory. signments, and submit them on
	directed at provi in, or soon to be will come from people in differe with the class w concepts being d	ding practical training to st employed in, technical wor understanding and contra nt industries and situations hen you think these are rel liscussed.	ns with the class. This is a course tudents either already employed rk. As such, much of the learning ast the experience of different s. Please share your experiences levant to illustrating the tools or
			s and assignment work and to
		ited package. The bulk of y	our learning will happen outside
	the classroom.		
	Attendance/Participation	1	
	I appreciate that most	of you have busy work	and family schedules and that
			aving been said, we have packed
		,	<b>,</b> , , , , , , , , , , , , , , , , , ,





	lecture and assignment pla	ans, so regular attendance is impo	ortant both to your results
	and to your contributions in class. In particular:		
	think you will find things hang toget other class membe b. We will be going t	hrough at least one Worked Exa ant to the marked group assig	nt to understanding how ical insights from me and imple most weeks. These
	Class Participation		
	or theory that can be studi science," and more likely it are properly functioning,	t physics. It does not consist of i ed and understood independentl is a framework for organizing ex and some commonly accepted vork. It means the more real-wo epts involved the better.	y. At best, it is an "applied operiences of how projects tools and vocabulary for
Departmental Policies	<ul> <li>All assignments must be submitted in two Reports and must be submitted to the Dropbox on Avenue to Learn in a compiled one single file using the following formats: Microsoft Word document (.doc, .docx), or Text PDF (.pdf). Group participation is mandatory. All students must attend and participate in group presentations.</li> <li>Students must maintain a GPA of 3.5/12 to continue in the program.</li> </ul>		
	In order to achieve the rec can expect to do at least 3	uired learning objectives, on ave hours of "out-of-class" work for includes reading, research, assig	erage, B.Tech. students every scheduled hour in
	Where group work is indic mandatory.	ated in the course outline, such o	collaborative work is
	-	ds, laptops and other personal e com during the class time, unles	
		class or placed on Avenue are ents including those individuals the second	
	Instructor has the right to	submit work to software to iden	tify plagiarism.
3. SUB TOPIC(S)			
	Course Introduction:		
Week 1	<ul> <li>Introductions</li> </ul>		
	Course Outline Re		
	Course Administra	tion	





	Project Management Framework: • The Project as a Process • The Role of Projects within an Organization • The Project Life Cycle
	<ul> <li>The Project Management Life Cycle</li> <li>Project Management Constraints</li> <li>Project Selection Methods</li> <li>Project finance and selection: Analysis and concepts</li> </ul>
	(PV, NPV, IRR, Payback, etc.)
	Organizational Context
Week 2	<ul> <li>Project environment (internal &amp; external)</li> <li>Typical enterprise program management organizations: Functional, Matrix, and Projectized organizational structure</li> <li>PMO formation and roles</li> <li>Critical Stakeholder roles: project management; functional management; sponsors; project team</li> <li>Project Integration Management:</li> </ul>
	Develop project charter
	Develop a project management plan
	Direct and manage project execution
	Manage project knowledge
	Monitor and control project work
	Perform integrated change control
	Close project phase
	Scope and Requirements Management:
	Requirements Management
Week 3	Define Scope
Week 5	Create WBS
	Scope Verification
	Control Scope
	Schedule Management
	Time Management: More than "Scheduling."
	Define Activity
Week 4	Activity Sequencing
	Activity Duration Estimating
	Schedule Development
	Schedule Control
	Schedule Development Software Project
	Project Cost Management
Week 5	<ul> <li>Types of Costs: Direct vs. Indirect; Overhead; Recurring vs. Non-recurring</li> <li>Cost Estimating         <ul> <li>Types and Purposes of Estimates</li> </ul> </li> </ul>
	<ul> <li>Estimating Methods</li> </ul>



	Partnership	
	<ul> <li>The Estimating Process</li> </ul>	
	Cost Budgeting	
	<ul> <li>Budget Allocation and concepts: work</li> </ul>	
	packages/planning packages,	
	allocated/unallocated budgets,	
	management reserve	
	<ul> <li>Cost Baseline</li> </ul>	
	<ul> <li>Budget, Control Accounts, and Work</li> </ul>	
	Authorization	
	Cost Control	
	<ul> <li>Project Cost Accounting and integration</li> </ul>	
	within the Enterprise: Cost Accounts,	
	links to enterprise accounting	
	<ul> <li>Cost Forecasting:</li> </ul>	
	• Cost Control and Reporting: Variance Reporting,	
	Intro to EV analysis	
	Cost Development Software	
	Due in week 6	
Report (1) Assignment	Submitted via Dropbox on A2L as a SINGLE file	
	Project Quality Management	
	Quality Management Introduction	
	<ul> <li>Costs of Quality and the Project Life Cycle</li> </ul>	
	<ul> <li>Plan Quality:</li> </ul>	
	<ul> <li>Assessment of Critical-to-Quality items</li> </ul>	
	<ul> <li>Designing in Quality: Six Sigma Concepts</li> </ul>	
	Manage Quality/ Quality Assurance:	
Week 6	<ul> <li>Methods of Assuring Quality: Project</li> </ul>	
	Management and Design Reviews,	
	Product Verification and Validation	
	Control Quality:	
	<ul> <li>Measures of project quality</li> </ul>	
	Dealing with non-conformances: definition of root cause	
	and corrective action; documentation, conformance	
	and non-conformance	
	Project Resources Management	
	Resource Planning	
	Resource Estimating	
	<ul> <li>Resource planning: Responsibilities</li> </ul>	
	Allocation Matrix (RAM); Resource	
	Histogram; Org Chart	
Week 7	<ul> <li>Acquire the Project Team</li> </ul>	
	<ul> <li>Allocation of functional resources</li> </ul>	
	<ul> <li>Use of resources</li> </ul>	
	<ul> <li>Developing the program team: Forming;</li> </ul>	
	Storming; Norming; Performing	
	<ul> <li>Managing the Project Team</li> </ul>	





	Farthership
	<ul> <li>Introduction to team management concepts: team maturity; situational leadership; war room</li> <li>Managing Diversity: functional; ethnic; national</li> <li>Virtual Teams</li> <li>Team Work Challenges</li> </ul>
Week 8	Project Stakeholder Management <ul> <li>Identify, analyze and manage stakeholders</li> <li>Plan and control stakeholder management</li> </ul> <li>Project Communications Management <ul> <li>Communications Planning <ul> <li>Intra-team communications: formats;</li> <li>distribution requirements</li> <li>External communication: Chain of</li> <li>command; communications channels</li> <li>definitions</li> </ul> </li> <li>Typical communications methods (memo's, email, action lists, network directory, Webenabled communications/shareware)</li> <li>Team meetings: planning, attendance, agenda/notification, conduct, follow-up (action item lists)</li> <li>Management reviews: typical management review requirements</li> </ul></li>
Week 9	<ul> <li>Risk Management Processes, Risk Management Plan</li> <li>Definition of risk: probability x impact; types of risk; expected monetary value</li> <li>Risk management process: Identification; Assessment; Mitigation Planning; Control</li> <li>Risk Identification <ul> <li>Use of Risk Breakdown Structure for brainstorming and reporting</li> <li>Risk ID tools: SWOT; Fishbone; Decision Tree</li> </ul> </li> <li>Risk Qualitative Analysis <ul> <li>Probability/Impact Matrix - use of scoring guides</li> <li>Risk Scoring/Prioritization - Top Risks</li> </ul> </li> <li>Risk Quantitative analysis <ul> <li>Risk Assessment Tools</li> </ul> </li> <li>Risk Response Planning <ul> <li>Techniques</li> <li>Implement Risk Responses</li> </ul> </li> </ul>





Risk Monitoring and Control
Risk Monitoring and Control
Procurement and Contracts Management
<ul> <li>Role of the program manager in contract and subcontract management</li> <li>Introduction to Contracts: Characteristics; Contract Forms and Purposes; Typical Contract Format</li> </ul>
Contracts Management
Procurement Management
• The Procurement Process
<ul> <li>The Make-or-Buy Decision</li> </ul>
Procurement Planning
RFP preparation
Subcontract Management Considerations:
Selection; Monitoring; Change Control
Contract Control
Due in week 11
Submitted via Dropbox on A2L as a SINGLE file
<ul> <li>Program Management Integration: Managing through</li> <li>the Project Life Cycle <ul> <li>Pre-project activities: projects and company strategy; project selection; proposal support</li> <li>Kicking off the project</li> <li>Changing roles of the project manager throughout the project</li> <li>Controlling and monitoring work</li> <li>Managing project changes: contract changes; baseline changes; technical changes and configuration management</li> <li>Compliance Matrices</li> <li>WBS, Responsibilities Allocation Matrix, Cost Account Structure</li> <li>Quality Development</li> <li>Risk Management Plan</li> <li>Controlling and monitoring risk through the life cycle: Technical and Phase Gate reviews</li> </ul> </li> <li>Project life cycle; the project management organization</li> <li>10 main aspects of project management: Scope; Cost: Time: Quality: Risk: Communications:</li> </ul>
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	Partnership	
	<ul> <li>Change management</li> <li>Program control and management through the life cycle</li> <li>Project Closure</li> <li>Questions</li> <li>Project Review and Exam Orientation</li> </ul>	
Week 12	Project Team Presentations Recorded and Online Presentations for each Group	
	Project	
	Project Team Presentations	
Week 13	Recorded and Online Presentations for each Group Project	
	Classes end: Tuesday, April 12 <sup>th</sup> 2022	•
Fin	al Examination Period: Thursday, April 14 to Friday, April 2	29
	nations MUST be written during the scheduled examinatio	
The instructor and the Universimaty change the dates and de	sents a plan and is subject to adjustment term by term. sity reserve the right to modify elements of the course du adlines for any or all courses in extreme circumstances. le notice and communication with the students will be giv hanges.	f either type of modification
4. ASSESSMENT OF LEARN	NING *including dates*	Weight
Assignments		30%
Report (1) Assignment, due or	n the day of Lecture # 6 15%	
Report (2) Assignment, due or	-	
Project Presentation		10%
Class Quizzes		
Final examination (tests cumu		10%
That examination (tests canta	lative knowledge)	10%
		50%
Percentage grades will be con	TOTAL	50% <b>100%</b>
		50% <b>100%</b>
5. LEARNING OUTCOMES	TOTAL verted to letter grades and grade points per the University	50% <b>100%</b> / calendar.
<ol> <li>LEARNING OUTCOMES</li> <li>Define, discuss and an</li> </ol>	TOTAL verted to letter grades and grade points per the University halyze the concepts of project management and related to	50% 100% / calendar. pics.
<ol> <li>LEARNING OUTCOMES</li> <li>Define, discuss and an</li> <li>Illustrate the significant</li> </ol>	TOTAL verted to letter grades and grade points per the University halyze the concepts of project management and related to nce of (performance, cost, time and scope) as targets of a	50% 100% / calendar. pics. project to be accomplished.
<ol> <li>LEARNING OUTCOMES         <ol> <li>Define, discuss and an</li> <li>Illustrate the significant</li> <li>Apply methods used to</li> </ol> </li> </ol>	TOTAL verted to letter grades and grade points per the University halyze the concepts of project management and related to nce of (performance, cost, time and scope) as targets of a o manage the eight aspects critical to program implement	50% 100% / calendar. pics. project to be accomplished. ration: scope; schedule;
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<ol> <li>LEARNING OUTCOMES         <ol> <li>Define, discuss and an</li> <li>Illustrate the significar</li> <li>Apply methods used to cost; quality; risk; com</li> <li>Analyze and test the c</li> </ol> </li> </ol>	TOTAL verted to letter grades and grade points per the University halyze the concepts of project management and related to nce of (performance, cost, time and scope) as targets of a o manage the eight aspects critical to program implement	50% 100% / calendar. pics. project to be accomplished. ation: scope; schedule; and integration.
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<ol> <li>LEARNING OUTCOMES         <ol> <li>Define, discuss and an</li> <li>Illustrate the significar</li> <li>Apply methods used to cost; quality; risk; com</li> <li>Analyze and test the construction of a well-managed procession</li> <li>Integrate the different of a well-managed procession</li> <li>Learn enhanced common facilitate an open exch</li> <li>Produce typical projection</li> </ol> </li> </ol>	TOTAL verted to letter grades and grade points per the University halyze the concepts of project management and related to nee of (performance, cost, time and scope) as targets of a o manage the eight aspects critical to program implement immunications; human resources, contracts/sub-contracts a characteristics of the project components, project manage eative and organized way. It aspects of project management and various forms project oject. nunication skills and work as a team, adapt the message to hange of ideas. It management deliverables and tools, (WBS, SOW compli	50% 100% y calendar. pics. project to be accomplished. ation: scope; schedule; and integration. ment processes and ct organizations into phases to the listener or group,



- 9. Illustrate the link between the tasks of project management and people's attitude to work, teamwork, conflict handling, problem solving, decision making and sustainable project implementation methods.
- 10. Apply project management concepts by working on a group project as team leader or active team member.

# 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-proceduresguidelines/

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. <u>http://www.mcmaster.ca/policy/Students-</u>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.