COURSE OUTLINE

CIV215

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Course Code: Title	CIV215: PROJECT MANAGEMENT AND LAW
Program Number: Name	4080: CIVIL ENG TECHNICIAN
Department:	CIVIL/CONSTRUCTION
Semester/Term:	18W
Course Description:	This course will provide the student with a general understanding of construction management principles as well as knowledge of applicable laws and regulations related to contracts and construction projects. The student will learn to assist in the planning, scheduling and monitoring of construction projects. The student will develop an understanding of the roles and relationships of project participants as it relates to achieving project objectives.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Substitutes:	CIV210
Vocational Learning Outcomes (VLO's): **Please refer to program web page for a complete listing of program outcomes where applicable.**	**4080 - CIVIL ENG TECHNICIAN** #3. complete duties and assist in monitoring that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field. #5. collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects. #6. collect, process and interpret technical data to produce written and graphical project-related documents. #7. use industry-specific electronic and digital technologies to support civil engineering projects. #9. assist in the scheduling, cost estimation and monitoring of the progression of civil engineering projects by applying principles of construction project management. #11. apply teamwork, leadership and interpersonal skills when working individually or within multidisciplinary teams to complete civil engineering projects.
Essential Employability Skills (EES):	#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. #2. Respond to written, spoken, or visual messages in a manner that ensures effective communication. #5. Use a variety of thinking skills to anticipate and solve problems.

	#6. Locate, select, organize, and document information using appropriate technology and information systems.
Course Evaluation:	Passing Grade: 50%, D
Other Course Evaluation & Assessment Requirements:	Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail)49% and below 0.00 CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. NR Grade not reported to Registrar`s office. W Student has withdrawn from the course without academic penalty. Attendance Students are only allowed to miss three classes without a documented explanation. One mark will be deducted from your overall grade for each undocumented explanation. The maximum deduction in overall grade is not to exceed 15%. Valid documented explanation include: • Medical reason • Family emergency • Child care issue • Transportation problems • And any other reasonable explanation The documented explanation has to be sent to me by e-mail no later than three days from a missed class. A Doctor note, etc., is to be attached as a PDF file to your e-mail.
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Assignments and Activities</td><td>50%</td></tr><tr><td>Final Test</td><td>25%</td></tr><tr><td>Mid-term Test</td><td>25%</td></tr></table>
Books and Required Resources:	Construction Project Management by Frederick E. Gould and Nancy E. Joyce Publisher: Pearson Prentice Hall Edition: 4th Edition ISBN: 9780132877244
Course Outcomes and Learning Objectives:	## Course Outcome 1. Upon successful completion, the student will be able to: 1. Complete duties and assist in monitoring that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field. ## Learning Objectives 1.

1. Identify relevant legislation and bylaws that apply in specific situations e.g., Construction Lien Act, etc.
2. Read and interpret building codes i.e., Ontario Building Code
3. Assist in the review and preparation of typical contracts for compliance with basic legal principles and the tendering process
4. Apply ethical reasoning to social and contractual issues that evolve when implementing civil engineering projects

Course Outcome 2.

Upon successful completion, the student will be able to:
2. Collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.

Learning Objectives 2.

1. Identify the disciplines involved in the planning, designing and implementation of civil engineering projects
2. Identify the rights, roles and responsibilities of project stakeholders associated with civil engineering projects

Course Outcome 3.

Upon successful completion, the student will be able to:
3. Collect, process and interpret technical data to produce written and graphical project-related documents.

Learning Objectives 3.

1. Prepare and modify documents according to established criteria and industry standards e.g., Canadian Construction Documents Committee (CCDC)
2. Select and use appropriate technologies to produce documents for civil engineering projects
3. Read the criteria for the project and identify appropriate information sources.
4. Use systematic approaches and paper-based and computerized techniques to collect civil engineering data

Course Outcome 4.

Upon successful completion, the student will be able to:
4. Use industry-specific electronic and digital technologies to support civil engineering projects.

Learning Objectives 4.

1. Select and use industry specific electronic and digital technologies to design projects, produce plans and to solve project related problems (e.g., project scheduling)

Course Outcome 5.

Upon successful completion, the student will be able to:

5. Assist in the scheduling, cost estimation and monitoring of the progression of civil engineering projects by applying principles of construction project management.

Learning Objectives 5.

1. Identify the phases of the project and their component activities
2. Follow project schedules and cost estimates needed to complete each phase of work
3. Assist in the monitoring of the financial resources, project budgets, human resources and timelines used in civil engineering projects
4. Provide technical information for the development of a project schedule
5. Assist in the development of a project schedule using project management tools and/or software, e.g., MS Project, critical path, Gantt chart

Course Outcome 6.

Upon successful completion, the student will be able to:
6. Apply teamwork, leadership and interpersonal skills when working individually or within multidisciplinary teams to complete civil engineering projects.

Learning Objectives 6.

1. Take initiative and work independently with minimal supervision
2. Use effective time management and organizational techniques to prioritize tasks and goals

Date: Monday, January 8, 2018

Please refer to the course outline addendum on the Learning Management System for further information.