EXPANDED COURSE DESCRIPTION
ENGINEERING
Lassonde School of Engineering
Earth and Space Science and Engineering
LE / ENG 2001 3.0 SECTION E
ENG PROJS: MANAGEMENT, ECONOMICS & SAFETY
FALL 2017 / WINTER 2018

COURSE CALENDAR DESCRIPTION

Introduction to the management, economics and safety as they relate to engineering projects, including the following. Project management: work breakdown structures, Gantt charts, logic diagrams and change management. Engineering economics: time value of money, comparison methods, rates of return. Workplace safety. Group design projects. Weekly tutorial. Prerequisites: LE/ENG 1101 4.00 or LE/ENG 1000 6.00.

INSTRUCTOR(S)

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<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
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<td>Lee, Regina S. K.</td>
<td>Sec. E / LECT / F</td>
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LIST OF LEARNING OUTCOMES AND EXAMPLES OF

Course Learning Outcome

- Define project management, organizational arrangements and roles and responsibilities through the project lifecycle
- Explain statement of work (SOW) and project charter, the stages of risk management and its importance, and the progress of project during its life-cycle.
- Create a work breakdown structure (WBS), Gantt chart, and project network diagram and the critical path
- Recognize basic project management techniques and project constraints.
- Demonstrates the clear understanding of Health and Safety guidelines and identify appropriate procedure
- Recognize the relationship between time and money (time value of money), the difference between simple and compound interests and calculate them
- Develop a cash flow for each alternative solution of a project, convert one type of cash flow to another type of cash flow using compounding factors
- Compare different investment alternatives based on quantitative methods, and choose the best alternative

ADDITIONAL INFORMATION

ACADEMIC INTEGRITY LINKS

- Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
- Academic Integrity - http://lassonde.yorku.ca/academic-integrity

STUDENT LINKS

- Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
- Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
• Academic Accommodation for Students with Disabilities -
  http://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/
• Counselling and Disability Services - http://cds.info.yorku.ca/

Many courses utilize Moodle, York University’s course website system. If your course is using Moodle, click here to access it.
Moodle @ York University