GRADUATE DIPLOMA TECHNOLOGY PROJECT MANAGEMENT

Summary
- Degree offered: Graduate Diploma
- Registration status options: Full-time; Part-time
- Language of instruction: English
- Program option (expected duration of the program):
  - within one year
- Academic units: Faculty of Engineering (https://engineering.uottawa.ca), Telfer School of Management (http://www.telfer.uottawa.ca/en)

Program Description
The graduate diploma is awarded upon successful completion of 15 units.

Other Programs Offered Within the Same Discipline or in a Related Area
- Master of Engineering Engineering Management (MEng)

Fees and Funding
- Program fees:
  The estimated amount for university fees (https://www.uottawa.ca/university-fees) associated with this program are available under the section Finance your studies (http://www.uottawa.ca/graduate-studies/programs-admission/finance-studies).

  International students enrolled in a French-language program of study may be eligible for a differential tuition fee exemption (https://www.uottawa.ca/university-fees/differential-tuition-fee-exemption).

  To learn about possibilities for financing your graduate studies, consult the Awards and financial support (https://www.uottawa.ca/graduate-studies/students/awards) section.

Notes
- Programs are governed by the general regulations (http://www.uottawa.ca/graduate-studies/students/general-regulations) in effect for graduate studies.
- In accordance with the University of Ottawa regulation, students have the right to complete their assignments, examinations, research papers, and theses in French or in English.

Program Contact Information
Graduate Studies Office, Faculty of Engineering (https://engineering.uottawa.ca/graduate-studies-office)
STE 1024
800 King Edward Ave.
Ottawa ON Canada
K1N 6N5
Tel.: 613-562-5347
Fax.: 613-562-5129
Email: engineering.grad@uottawa.ca

Twitter | Faculty of Engineering (https://twitter.com/uOttawaGenie?lang=en)
Facebook | Faculty of Engineering (https://www.facebook.com/uottawa.engineering)

Admission Requirements
For the most accurate and up to date information on application deadlines, language tests and other admission requirements, please visit the specific requirements (https://www.uottawa.ca/graduate-studies/programs-admission/apply/specific-requirements) webpage.

To be eligible, candidates must:
- Have a bachelor’s degree in engineering or science with a minimum average of 70% (B)
  Note: International candidates must check the admission equivalencies (https://www.uottawa.ca/graduate-studies/international/study-uottawa/admission-equivalencies) for the diploma they received in their country of origin.
- Pay the $100 ($CDN non-refundable) application fee.

Language Requirements
Applicants must be able to understand and fluently speak the language of instruction (English) in the program to which they are applying. Proof of linguistic proficiency may be required.
Applicants whose first language is neither French nor English must provide proof of proficiency in the language of instruction.

Language tests recognized by the University of Ottawa:

- TOEFL: 550 (paper-based) or 79-80 (internet-based); or
- IELTS: Overall 6.5 – Individual 5.0 (paper-based or internet-based); or
- An equivalent language test (http://www.uottawa.ca/graduate-studies/programs-admission/apply/required-documents).

Note: Candidates are responsible for any fees associated with the language tests.

Notes

- The admission requirements listed above are minimum requirements and do not guarantee admission to the program.
- Admissions are governed by the general regulations (http://www.uottawa.ca/graduate-studies/students/general-regulations) in effect for graduate studies.
- Admission to the program is very competitive. Preference will be given to candidates who have a few years of full-time experience in engineering or a related field as well as a high level of proficiency in the English language.
- A maximum of three units in equivalencies or advanced standing may be granted. To be eligible, the units in question must not have counted towards the requirements of a previous diploma or degree. Candidates who have already successfully completed some of the compulsory units may be allowed to replace those units with elective units. For details, see section B.2.7. of the general regulations.

Documents Required for Admission

In addition to the documents required (http://www.uottawa.ca/graduate-studies/programs-admission/apply/required-documents) for graduate and postdoctoral studies, candidates must submit the following documents:

- A resume
- Two confidential letters of recommendation from professors who have known the applicant and are familiar with their work. You are strongly encouraged to contact your referee(s) prior to submitting your application in order to confirm their email address and their availability to complete your letter of recommendation.
- Transcripts from all universities attended:
  - You must submit official transcripts from all the universities you have attended. This applies to all courses and programs at any university you attended, including regular programs (completed or not), exchanges, letters of permission, online or correspondence courses, courses taken as a special student or visiting student, etc.
  - If the transcript and degree certificate are not in English or French, a certified translation (signed and stamped/sealed) must be submitted.

Note: Documents that are not required for admission will not be consulted, conserved or returned to the student. These documents will be destroyed according to our administrative procedures.

Transfer from the Diploma to the Master’s Program

Students registered in the Graduate Diploma in Engineering Management may apply for transfer to the Master of Engineering degree in Engineering Management, obtain advanced standing for courses completed under the Graduate Diploma in Engineering Management, complete the remaining units, and finally obtain the Master of Engineering degree.

Students who have completed the Graduate Diploma in Engineering Management may apply for admission to the Master of Engineering in Engineering Management, obtain advanced standing for courses completed under the Graduate Diploma in Engineering Management, complete the remaining units, and obtain the Master of Engineering degree.

Advanced standing will not be granted for courses completed at other institutions under any circumstances.

Information about how to apply to this program is available under the Apply Now (http://www.uottawa.ca/graduate-studies/programs-admission/apply/#apply-now) section.

Students should complete and submit their online application with supporting documentation (if applicable) by the deadline indicated above.

Program Requirements

Graduate Diploma

Students are strongly encouraged to attend a seminar series to be offered in a variety of topics including: Continuous Risk Management, IT Procurement, and Software Rollout.

Students must meet the following requirements:

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<tr>
<th>Compulsory Courses:</th>
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<tbody>
<tr>
<td>12 compulsory units from:</td>
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<tr>
<td>ADM 6260 Project Management I</td>
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<tr>
<td>EMP 5100 Introduction to Engineering Management</td>
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<tr>
<td>EMP 5111 Creativity and Innovation</td>
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<tr>
<td>MBA 5235 Management Skills I</td>
</tr>
<tr>
<td>MBA 5241 Managerial Accounting Information and Decisions</td>
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<tr>
<td>MBA 5250 Introduction to Corporate Finance</td>
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<tr>
<th>Optional Courses:</th>
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<tr>
<td>3 optional course units from:</td>
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<tr>
<td>ADM 6261 Project Management II</td>
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<tr>
<td>ADM 6274 International E-Business Strategies</td>
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<tr>
<td>ADM 6275 Business Intelligence Technologies and Big Data Analytics</td>
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<tr>
<td>ADM 6276 Enterprise Resource Planning Systems Management</td>
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<td>ADM 6281 Supply Chain Management</td>
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<td>EMP 5101 Industrial Organization</td>
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<tr>
<td>EMP 5102 Systems Engineering and Integration</td>
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<tr>
<td>EMP 5103 Reliability, Quality and Safety Engineering</td>
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<tr>
<td>EMP 5109 Topics in Engineering Management</td>
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http://catalogue.uottawa.ca/en/graduate/graduate-diploma-technology-project-management/index.html
EMP 5116 Issues in Management and Operation of Communication Networks
EMP 5117 Foundations of Software Engineering
EMP 5119 Project Information Management
EMP 5120 Product Development and Management
EMP 5121 Planning of Experiments in Engineering Design
EMP 5169 Advanced Topics in Reliability Engineering
EMP 5179 Manufacturing Systems Analysis
EMP 5910 Directed Studies
GNG 5120 Technology entrepreneurship for Engineers and Computer Scientists
MBA 5270 Knowledge and Information Management
MBA 5320 Strategic Marketing Management
MBA 5330 Organization Behaviour and Human Resources Management

Note(s):

1. Compulsory core courses provide core principles pertaining to the analysis, planning, organization, funding and successful implementation of engineering-focused projects and operations. Mandatory core courses comprise 6 units of engineering-content courses and 6 units of management-content courses.

2. Optional courses enable students to develop knowledge and skills in an area of interest. Although every effort is made towards offering listed optional courses every year, students accepted in the program should verify course availability and plan accordingly. Various other courses are offered on an irregular basis as Special Topics.

Minimum Requirements
The passing grade in all courses is C+.
Failure in 6 units leads to withdrawal from the program.

Research
Research Fields & Facilities
Located in the heart of Canada’s capital, a few steps away from Parliament Hill, the University of Ottawa is among Canada's top 10 research universities.

uOttawa focuses research strengths and efforts in four Strategic Areas of Development in Research (SADRs):

- Canada and the World
- Health
- e-Society
- Molecular and Environmental Sciences

With cutting-edge research, our graduate students, researchers and educators strongly influence national and international priorities.

Research at the Faculty of Engineering
Areas of research:

- Chemical and Biological Engineering
- Civil Engineering
- Electrical Engineering and Computer Science

- Mechanical Engineering

For more information, refer to the list of faculty members and their research fields on Uniweb.

IMPORTANT: Candidates and students looking for professors to supervise their thesis or research project can also consult the website of the faculty or department (https://www.uottawa.ca/graduate-studies/students/academic-unit-contact-information) of their program of choice. Uniweb does not list all professors authorized to supervise research projects at the University of Ottawa.

Courses
ADM 6260 Project Management I (1.5 unit)
Project management methods based on standards, including the Guide to Project Management Body of Knowledge (PMBOK) of the Project Management Institute (PMI); project success and stakeholders; project charter and project plan; managing a project throughout its life cycle (identification, design, planning, realization and close-out). Students will have hands-on experience using MS Project.
Course Component: Lecture

ADM 6261 Project Management II (1.5 unit)
Focus on projects that have incomplete and/or unstable requirements such as IT projects or software development projects. Topics covered include: portfolio management; risk management; determining requirements and solutions; quality management; communication management; design methods (Quality Function Deployment, Value Analysis); iterative and adaptive project management; fast tracking and concurrent methods of project management.
Course Component: Lecture

ADM 6276 Enterprise Resource Planning Systems Management (1.5 unit)
Course Component: Lecture

EMP 5109 Topics in Engineering Management (3 units)
Current topics in industrial practice
Course Component: Lecture, Lecture
Corequisite: EMP 5100, EMP 5111, MBA 5241, MBA 5250, MBA 5235, ADM 6260

EMP 5118 Technology Project Management Practice (3 units)
Technological project management process. Project team management involving multiple technological and engineering experts. Configuration management during project development. Coordination of outsourcing in large multinational projects. Management of inprocess change of technology.
Course Component: Lecture, Lecture
EMP 5100, EMP 5111, MBA 5241, MBA 5250, MBA 5235, ADM 6260 are corequisite to EMP 5118.
EMP 5119 Project Information Management (3 units)
Topics relating to the contractual relationship within the project team, including the different types of contracts and their application, the preparation of project documents, the evaluation of different types of project organization structures and associated project delivery systems, bidding strategies, network analysis using deterministic and stochastic methods for time and cost management.
Course Component: Lecture, Lecture
EMP 5100, EMP 5111, MBA 5241, MBA 5250, MBA 5235, ADM 6260 are corequisite to EMP 5119.

EMP 5120 Product Development and Management (3 units)
Product development and management, including engineering aspects of the process. The latest trends and practices, insight into processes which facilitate product management and development, understanding of product management and development practices via case studies, development of the leadership and management skills required to create, initiate, develop, bring to market and implement new technological products and services.
Course Component: Lecture, Lecture
EMP 5100, EMP 5111, MBA 5241, MBA 5250, MBA 5235, ADM 6260 are corequisite to EMP 5120.

EMP 5121 Planning of Experiments in Engineering Design (3 units)
Course Component: Lecture, Lecture
EMP 5100, EMP 5111, MBA 5241, MBA 5250, MBA 5235, ADM 6260 are corequisite to EMP 5121.

MBA 5241 Managerial Accounting Information and Decisions (1.5 unit)
This course focuses on the role of the accounting function internal to the organization. It takes a broad view of managerial accounting, introducing students to various costing systems, cost behaviour patterns and cost structures. It demonstrates the use of accounting for the evaluation of product, managerial and divisional performance thus helping students to understand what accounting can do for decision makers and how accounting choices affect decisions. Emphasis on the strategic importance of aligning accounting systems with firm technologies and goals. Current issues in management accounting and internal reporting are discussed.
Course Component: Lecture

MBA 5250 Introduction to Corporate Finance (1.5 unit)
Course Component: Lecture
Prerequisite: MBA 5340

MBA 5270 Knowledge and Information Management (1.5 unit)
Role of information in organizations. Overview of systems used to capture, transform and disseminate information to managers. Linkages between information and knowledge management. The process of knowledge creation and application within and among organizations.
Course Component: Lecture

MBA 5320 Strategic Marketing Management (3 units)
Overview of the Marketing process: key concepts, tools and procedures, in the context of a technology-intensive global economy. Definition of Marketing, the Marketing Concept and Marketing Management, and the significance of operating in a technology-intensive global economy. Analyzing market opportunities, setting performance goals, formulating marketing and implementation plans to meet those goals. Introduction to e-marketing management and some of the e-marketing tools available. MBA 5120 and MBA 5125, together, are equivalent to MBA 5320.
Course Component: Lecture

MBA 5330 Organization Behaviour and Human Resources Management (3 units)
The strategic advantage of understanding and integrating organizational behaviour (OB) frameworks in designing and implementing effective human resource (HR) activities (namely attraction, development, maintenance and retention of employees), in measuring performance and in achieving high-performance outcomes in various global organizational contexts. OB topics covered include motivation, rewards, leadership, group dynamics, organizational politics, job and organization design, and culture.
Course Component: Lecture
Prerequisite: MBA 5235 for MBA students only. MBA 5131 and MBA 5132, together, are equivalent to MBA 5330.