



北京理工大学国际特色课程

Beijing Institute of Technology Global Courses

## **MGMT9332 - PROJECT RISK MANAGEMENT**

### *Syllabus*

**July. 1 - July. 19, 2024**

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Term Duration: July. 1 - July. 19, 2024

Credit Points: 4

Level: Postgraduate

Instructor Name: TBA

Home Institution: Beijing Institute of Technology

Lecture Hour: 15:40-18:40

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### ***Course Description***

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This course presents an in-depth exploration of Risk Management practices, tailored to provide students with both the theoretical foundation and practical skills necessary in the field. The curriculum begins with an introduction to core risk concepts and the structure of risk management within organizations. Students will learn about the planning processes, including the creation of risk management plans during dedicated planning meetings. Methodologies for risk practice, project management essentials, and the pivotal role of the project manager are examined. The course further delves into advanced analytical tools like the Delphi Technique, SWOT Analysis, and the Crawford Slip Method, as well as the utilization of risk breakdown structures and risk registers. The latter part of the course focuses on dynamic modeling techniques, including Monte Carlo simulations, and the evaluation of risk factors through performance tracking and technical performance measurement. Students will also engage with futures thinking and other common techniques to review and audit risks, equipping them with a holistic view of risk management in various organizational contexts.

## ***Course Aims:***

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Upon successful completion of this course, students should be able to:

1. design and implement a risk management plan integrating industry standards and best practices;
2. utilize risk assessment tools such as FMEA, SWOT, and risk breakdown structures effectively;
3. employ quantitative techniques including Monte Carlo simulations and PERT for risk analysis;
4. analyze and interpret risk factors to make informed decisions on project management strategies;
5. master the use of risk registers and decision analysis tools to track and manage project risks;
6. demonstrate the ability to manage project schedules, accounting for uncertainties and risks;
7. apply futures thinking to proactively identify emerging risks and trends in project management.

## ***Language of Instruction***

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English

## ***Required Textbook***

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***Risk Management: Concepts and Guidance, 5th Edition***

**Author:** Carl L. Pritchard

**Publisher:** CRC Press

**ISBN:** 9780429438967

Other materials provided by the course lecturer.

## ***Course Hours***

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This course requires 48 hours of contact including 42 hours of lectures and one 6-hour field trip. Lectures are from Monday to Friday.

## ***Prerequisite Course***

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None

## ***Course Schedule***

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Week	Day	Lecture	Topic	Assignment/ Notes
Week 1	Day 1	Lecture 1	Risk Management Practices; Risk Concepts; The Risk Management Structure	Carl L. Pritchard (Chap 1-2)
	Day 2	Lecture 2	The Risk Management Structure; Planning Meetings: The Risk Management Plan;	Carl L. Pritchard (Chap 3,5)
	Day 3	Lecture 3	Risk Practice Methodology; Analogy Comparisons; Plan Evaluation;	Carl L. Pritchard (Chap 6,8,9)
	Day 4	Lecture 4	Qualitative Risk Techniques: Delphi Method	Carl L. Pritchard (Chap 10)
	Day 5	Lecture 5	Crawford Slip Method (CSM); SWOT Analysis; Risk Breakdown Structure	Carl L. Pritchard (Chap 12,13,15)
Week 2	Day 6	Lecture 6	Decision Making in Risk Management: Calculating Expected Monetary Value (EMV) for Risk Decisions	Carl L. Pritchard (Chap 17,19,20)
	Day 7	Lecture 7	Risk Breakdown and Documentation; Expected Monetary Value (EMV)	Carl L. Pritchard (Chap 17,19,20)
	Day 8	Lecture 8	Project Risk Analysis with PERT	Carl L. Pritchard (Chap 22-24)
	Day 9	Lecture 9	Integrating Network Analysis with PERT; Advanced Risk Modeling: From Theory to Practice	Carl L. Pritchard (Chap 22-24)
	Day 10	Industrial Visit		
Week 3	Day 11	Lecture 10	Risk Modeling; Monte Carlo Simulations	Carl L. Pritchard (Chap 28,30)
	Day 12	Lecture 11	Risk Factors; Performance Tracking and Technical Performance Measurement; Risk Reviews and Audits	Carl L. Pritchard (Chap 31,33,34)
	Day 13	Lecture 12	Futures Thinking; Other Common Techniques	Carl L. Pritchard (Chap 27,35)

Day 14	Guided Revision
Day 15	Final Exam

**Note:** Students will be notified if the schedule of the field trip changes according to the situation.

## *Grading Policy*

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Method	Percentage
Participation	10%
Individual Assignment	40%
Group Project	50%
Total	100%

**Participation:** Students are expected to attend all course sessions punctually. Absences will impact the attendance grade. We will have some case studies and group discussion in class and the performance will be considered as partial attendance points or bonus.

**Individual Assignment:** For the Individual Assignment, each student is required to independently compose a comprehensive report. The specific guidelines and criteria for the report will be presented and detailed in class.

**Group Project:** The Group Project entails teams of 3-4 students collaboratively preparing a detailed report. Additionally, each group will deliver a presentation of their findings in class, with an allocated time of approximately 20 minutes per presentation.

## *Academic Honesty*

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Academic honesty is not only a fundamental part of learning and teaching, but also a core value that this course embraces. Behaviors of academic dishonesty, as outlined hereinafter, are unacceptable and will be penalized:

- a) Plagiarism where students present work for assessment, publication or otherwise that is not their own, without appropriate attribution or reference to the original source. Plagiarism can include:
  - i) paraphrasing or copying published and unpublished work without a reference;
  - ii) adopting the ideas or concepts of others, including the structure of an existing analysis without due acknowledgement by way of reference to the original work or source.
- b) Collusion, where students present work as independent work when it has in fact been produced in whole or in part with others unless prior permission for joint or collaborative work has been given by the Course Coordinator. Collusion can include:

- i) a student inappropriately assisting with or accepting assistance with the production of an assessment task;
  - ii) submitting work which is the same or substantially similar as another student's work for the same assessment task.
- c) Cheating, where a student acts in such a way as to seek to gain unfair advantage or assist another student to do so. Cheating can include:
  - i) submitting falsified, copied or improperly obtained data relating to results of practicum, field trips or other work as if they were genuine; submitting an assessment task with the intention of deceiving or misleading the instructor about the student's contribution to the work;
  - ii) submitting an assessment task written or answered for the student by another person or which the student has copied from another person;
  - iii) submitting the same or a substantially similar piece of work for assessment in two different courses (except in accordance with approved study and assessment schemes);
  - iv) a student falsely indicating that they have been present at an activity where attendance is required;
  - v) completing an assessment task outside the conditions specified for that task.
- d) Cheating in Examinations means engaging in dishonest practice or breaching the rules regarding examinations, which can include:
  - i) communicating in any way during an examination with any person who is not an examination supervisor inside or outside the examination venue;
  - ii) giving or accepting assistance from any person who is not an examination supervisor whilst in the examination venue;
  - iii) reading, copying from or otherwise using another student's work in an examination or knowingly allowing a student to do so;
  - iv) possessing, referring to or having access to any material or device containing information directly or indirectly related to the subject matter under examination, other than that explicitly approved by the Course Coordinator;
  - v) acquiring, or attempting to acquire, possess or distribute examination materials or information without approval;
  - vi) permitting another person to attend an examination on a student's behalf or attending an examination on behalf of another student;
- e) Other dishonest acts including but not limited to:
  - i) altering or falsifying any document or record for the purposes of gaining academic advantage;
  - ii) offering or giving money or any item or service to a University staff member or any other person to gain academic advantage for the student or another person;
  - iii) inventing references.