

Course:	Risk Management – 403753 (3 Cr. – Core Course)
Catalog Data:	Regulate the daily risks of engineering projects and risk analysis through quantitative and qualitative methods. Develop a risk response strategy and manage projects by using RMP. Definitions of the magnitude of risks, harm reduction, and environmental risk management, measurement, and control.
Prerequisites by Course:	N/A
Prerequisites by Topic:	Students are assumed to have sufficient knowledge of qualitative and quantitative analysis.
Textbook:	Managing Risk in Construction Projects. 2nd Edition by N. Smith. Tony Merna, Paul Jobling. Blackwell Science, 2006
References:	<ul style="list-style-type: none">- Engineering Project Management 2nd Edition by N. J. Smith. Blackwell Science, 2002.- Lecture Notes
Course Website:	
Schedule & Duration:	8 weeks, 16 Lectures, 180 minutes (including exams)
Minimum Student Material:	Textbook, some instructor notes.
Minimum College Facilities:	Classroom whiteboard and projection display facilities.
Course Objectives:	<ol style="list-style-type: none">1. Derive and use different engineering project management principles2. Apply the basic concepts of risk management as part of a decision-making process.3. Analyse different risks associated with a project and develop a risk management strategy in managing a project's risks properly.
Course Outcomes and Relation to Program Outcomes:	<ol style="list-style-type: none">1. Know the course overview and the concepts of project management (1+2+3).2. Know the principles of risk management and their roles in decision making (1+3+7).3. Analyse risk associated with a project and develop a risk register strategy. (1+2+6).4. Learn other analysis techniques such as the Monte-Carlo method, sensitivity analysis (1+6+7).5. Learn the effects of the risks associated with a project on the principles of project management as such the cost, quality, and time (5+6+7).6. Learn the application of risk management process based on studying a full detail of project development (1+3+4+5+6+7).
Course Topics:	<ol style="list-style-type: none">1. Introduction to project management2. Introduction to Risk management3. Engineering risk and its elements

4. Risk management process
5. Case studies

Computer Usage:

MS Excel & @ Risk

Attendance:

Class attendance will be taken every class and the University's policies will be enforced in this regard.

Assessments:

Mid-Term, Attendance and assignment, and Final Exams.

Grading policy:

Mid-term: 35%

Attendance, short quizzes, and project: 25%

Final: 40%

Total: 100%

Instructors:

Dr. Moawiah A. Alnsour

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Office #:

Class Time and Location:

Sunday: (16:00-19:00 PM) Section-01

Program Outcomes (PO)

1.	An in-depth understanding of specialized theories in engineering project Management
2.	Project planning, monitoring and risk management
3.	Classification of Engineering and management techniques for implementing engineering Projects
4.	Creativity and innovation in engineering project management.
5.	Taking appropriate engineering, economic and administrative decisions
6.	Conducting and publishing scientific research.
7.	Solve problems and work in a team spirit
8.	Effective Communication and connection
9.	Commitment to Ethical rules and behaviours

Last Updated: 24 October 2022