DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING
INDUSTRIAL ENGINEERING PROGRAM, BSC.

Course Syllabus

1. **Course number and name**
   IE 577 Risk Management

2. **Credits and contact hours**
   (3+0) 3 credit hours, 3 contact hours

3. **Course Type**
   Onsite

4. **Instructor's or course coordinator's name**
   Dr. Nader Al Theeb

5. **Textbook information**
   Paul Hopkin. Fundamentals of Risk Management : Understanding, Evaluating and Implementing Effective Risk Management. Kogan Page Publishers, 4th ed. ISBN 0749479612

   a. **Other supplemental materials**
      -handouts.

6. **Specific course information**
   a. **Catalog description**
   Approaches to Defining Risk, Impact of Risk on Organizations, Types of Risks, Scope of Risk Management, Enterprise risk management, project risk management, Principles and Aims of Risk Management, Risk Classification Systems, Risk Analysis and Evaluation, risk in Supply Chain Management

   b. **Prerequisites or co-requisites**
   Prerequisite: Human factor and safety

   c. **The course is:**
      Required in the Industrial Engineering program.

7. **Specific goals for the course**
   a. **Course outcomes:**
      After completion of the course, students are expected to be able to:
      1. Define, analyze, and evaluate risks.
      2. Classify the risks and introduce methods to avoid them
      3. Get knowledge about case studies in risks such as in projects, supply chains, and enterprises management.

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b. The following student outcomes are addressed by the course:

SO-(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

8. Learning Outcomes and their Alignment with Program Educational Objective (PEO's), Methods of Delivery, and Assessment Methods:

Learning Outcomes	Program PEOs	Method of Delivery	Assessment Method
Course Outcomes			
CO(1): Define, analyze, and evaluate risks.	-	Lectures	Assignment, quiz, and Discussion
CO(2): Classify the risks and introduce methods to avoid them	-	Lectures (Example and Problems)	Assignment and Quiz
CO(3): Get knowledge about case studies in risks such as in projects, supply chains, and enterprises management.	-	Lectures (Example and Problems)	Assignment and Quiz
Student Outcomes			
SO-(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		Lectures (Example and Problems)	Midterm Exam, assignments, and project

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9. Weekly Teaching Plan

Lecture	Topic	Method of Delivery
Lec_1	Chapter - 01: Approaches to Defining Risk;	Lecture
Lec_2	Chapter - 01: Approaches to Defining Risk;	Lecture
Lec_3	Chapter - 01: Approaches to Defining Risk;	Lecture
Lec_4	Chapter - 02: Impact of Risk on Organizations;	Lecture
Lec_5	Chapter - 02: Impact of Risk on Organizations;	Lecture
Lec_6	Chapter - 02: Impact of Risk on Organizations;	Lecture
Lec_7	Chapter - 03: Types of Risks;	Lecture
Lec_8	Chapter - 03: Types of Risks;	Lecture
Lec_9	Chapter - 03: Types of Risks;	Lecture
Lec_10	Chapter - 04: Scope of Risk Management;	Lecture
Lec_11	Chapter - 04: Scope of Risk Management;	Lecture
Lec_12	Chapter - 04: Scope of Risk Management;	Lecture
Lec_13	Chapter - 05: Principles and Aims of Risk Management;	Lecture
Lec_14	Chapter - 05: Principles and Aims of Risk Management;	Lecture
Lec_15	Chapter - 05: Principles and Aims of Risk Management;	Lecture
Lec_16	Chapter - 08: Enterprise Risk Management;	Lecture
Lec_17	Chapter - 08: Enterprise Risk Management;	Lecture
Lec_18	Chapter - 08: Enterprise Risk Management;	Lecture
Lec_19	Chapter - 11: Risk Classification Systems;	Lecture
Lec_20	Chapter - 11: Risk Classification Systems;	Lecture
Lec_21	Chapter - 11: Risk Classification Systems;	Lecture
Lec_22	Chapter - 12: Risk Analysis and Evaluation;	Lecture
Lec_23	Chapter - 12: Risk Analysis and Evaluation;	Lecture
Lec_24	Chapter - 12: Risk Analysis and Evaluation;	Lecture
Lec_25	Chapter - 12: Risk Analysis and Evaluation;	Lecture
Lec_26	Chapter - 12: Risk Analysis and Evaluation;	Lecture
Lec_27	Chapter - 16: Risk Control Techniques;	Lecture
Lec_28	Chapter - 16: Risk Control Techniques;	Lecture
Lec_29	Chapter - 16: Risk Control Techniques;	Lecture
Lec_30	Chapter - 23: Control of Selected Hazard Risks;	Lecture

Lec_31	Chapter - 23: Control of Selected Hazard Risks;	Lecture
Lec_32	Chapter - 23: Control of Selected Hazard Risks;	Lecture
Lec_33	Chapter - 30: Operational Risk Management;	Lecture
Lec_34	Chapter - 30: Operational Risk Management;	Lecture
Lec_35	Chapter - 30: Operational Risk Management;	Lecture
Lec_36	Chapter - 30: Operational Risk Management;	Lecture
Lec_37	Chapter - 31: Project Risk Management;	Lecture
Lec_38	Chapter - 31: Project Risk Management;	Lecture
Lec_39	Chapter - 31: Project Risk Management;	Lecture
Lec_40	Chapter - 31: Project Risk Management;	Lecture
Lec_41	Chapter - 32: Supply Chain Management;	Lecture
Lec_42	Chapter - 32: Supply Chain Management;	Lecture
Lec_43	Chapter - 32: Supply Chain Management;	Lecture
Lec_44	Chapter - 32: Supply Chain Management;	Lecture
Lec_45	Chapter - 32: Supply Chain Management;	Lecture

10. Grade distribution

Assessment	Grade	Date
- Midterm Exam	30%	
-Project Reports /Quizzes/ Seminar /Homeworks ….)	20%	
- Final Examination	50%	

Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.