

Academic Year: 2023-2024		Semester: Fall		Starting Date: 15-10-2023																					
Course Name	Mega Construction Management																								
Module Language	English																								
Instructor	Ass. Prof. Dr. Dilshad K. Jaf																								
Teaching Assistance(s)	None																								
College/University	College of Engineering – Salahaddin University-Erbil																								
Department	Civil Engineering																								
Semester Duration	15 weeks																								
Course Overview	<ul style="list-style-type: none"> • This course provides an understanding of construction Management for Mega Projects, including definition, challenges, contracts, cost estimating, procurement, planning, scheduling, subcontracting, cost control, claims, risks, safety, quality management and project closeout. • Illustrate the Mega construction project life cycle, innovation, flexibility, decision making, stakeholders and leadership. Identify the roles and importance of various stakeholders in Mega construction project, differentiate between various project delivery methods, Create the control mechanisms, and prepare accurate progress reports of the project and create a comprehensive project management plan. 																								
Course Objectives	<p>The objective of this course is:</p> <ul style="list-style-type: none"> • To discuss principles of Mega Construction management and its functions in construction organization. • To proactive problem-solving solutions through a megaproject's lifecycle with regard to stakeholders' needs and professional standards related to the built environment. • To promote and support innovation and progress in megaproject development and management. 																								
Course Contents	<p>Week Lecture</p> <table border="1"> <tr> <td>1st</td> <td>Introduction and Characteristics of Megaprojects</td> </tr> <tr> <td>2nd</td> <td>Procurement and safety in Mega Construction</td> </tr> <tr> <td>3rd</td> <td>Quality Management System and Life Cycle</td> </tr> <tr> <td>4th</td> <td>Scope baseline and Risk Management</td> </tr> <tr> <td>5th</td> <td>Cost benefit analysis in Mega Construction Management</td> </tr> <tr> <td>6th</td> <td>Megaproject Management Planning and Scheduling</td> </tr> <tr> <td>7th</td> <td>Challenges and Causes of Failure in Mega projects</td> </tr> <tr> <td>8th</td> <td>Successful Mega Project Management</td> </tr> <tr> <td>9th</td> <td>Midterm Exam</td> </tr> <tr> <td>10th</td> <td>Innovation in Mega Projects</td> </tr> </table>					1st	Introduction and Characteristics of Megaprojects	2nd	Procurement and safety in Mega Construction	3rd	Quality Management System and Life Cycle	4th	Scope baseline and Risk Management	5th	Cost benefit analysis in Mega Construction Management	6th	Megaproject Management Planning and Scheduling	7th	Challenges and Causes of Failure in Mega projects	8th	Successful Mega Project Management	9th	Midterm Exam	10th	Innovation in Mega Projects
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Textbooks and References	<p>1. The Oxford Handbook of MEGAPROJECT MANAGEMENT by BENT FLYVBJERG</p> <p>2. Project Management Approaches in Mega Construction Projects in Developing Countries: Cases from Pakistan by Taha El Baba, Amr Makhdumi & Zainul Abidin Farrukh</p> <p>3. MEGAPROJECT MANAGEMENT: LESSONS ON RISK AND PROJECT MANAGEMENT FROM THE BIG DIG By Virginia A. Greiman</p>										
Teaching Style	3 hrs. in Class										
Requirements for credit points	<p>For the award of credit points, it is necessary to pass the module exam. It contains:</p> <p>An examination during the academic semester, Quizzes, Assignments, Article review, and Final examination.</p> <p>Student's attendance is required in all classes.</p>										
Credit ECTS	6										
Grade Distribution	<p>The following grade system is used for the evaluation of the module exam: The module exam is based on the summation of two categories of evaluations: First: (50%) of the mark is based on the academic semester effort which includes</p> <ol style="list-style-type: none"> 1. without Article Review <ul style="list-style-type: none"> - Midterm Exam = 20%. - Quiz = 15% - Seminar = 15% 2. with Article Review <ul style="list-style-type: none"> - Midterm Exam = 20%. - Quiz = 5% - Seminar = 10% - Review Article = 15% <p>Second: (50%) of the mark is based on the final examination that is comprehensive for the whole of the study materials reviewed during the academic semester.</p>										
Workload	Workload 10hrs/w (150hrs/s): Contact face-to-face 3hrs/w (45hrs/s) and Non-Contact Self learning 7hrs/w (105hrs/s)										