University of Wraith Al-Anbiyaa /collage of engineering /civil engineering department

**Course Description** 

## **Course Description Form**

1. Course Name:							
Design of Steel structure							
2. Course Code:							
WCV-41-04							
3. Semester	Year:						
First semester / 2024-2025							
4. Description Preparation Date:							
28/09/2024							
5. Available Attendance Forms:							
Attendance							
	reledit Hours (Total) / Number of Offits (Total)						
2/3							
7. Course a	administrator's name (mention all, if more than one name)						
Name: Dr	:Salam Razaq Jasim						
Email: <u>sa</u>	<u>lam.razaq@uowa.edu.iq</u>						
8. Course O	bjectives						
Course Objectives	Understanding Steel as a Construction Material						
	Design Principles and Methodologies						
	Structural Components Design						
	Analysis of Steel Structures						
9. Teaching	and Learning Strategies						
Strategy       The strategy for designing steel structures encompasses a systematic approach safety, efficiency, and cost-effectiveness, while adhering to codes and st structured strategy for the design of steel structures:							
	Define Design Requirements and Scope						
	Preliminary Design and Conceptual Planning						
	Structural Analysis						
	Detailed Structural Design						
	Use of Design Codes and Standards						
	Optimization of Design						

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IU. Cours	Hours	Pequired	Unit or subject	Evaluation						
Week	nours	Learning	name	method	method					
		Outcomes	lane	methou	method					
1	3	Introduction Steel Structure Basics of Struct	<ul> <li>Properties of structural steel (strength, ductility, weldability, etc.)</li> <li>Advantages and disadvantages of using steel in construction</li> <li>Types of structural steel and steel product</li> </ul>	Thermotical						
2	3	Analysis	Fundamental Principles of Structural Analysis Analysis Methods for Steel Structures							
3 4 5	3 3	Design Tension Members	Introduction to Tension Members Applications							
6		Mid exam Design of Compres	Behavior of Compression	9						
7 8 9	3	Members (Columns)	Members Design of Steel Columns Applications							
10 11 12	3	Design of Beams	Flexural strength and shear strength							
13 14	3	Design of S Connections								
15	3	Final Exam								

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11. Course Evaluation							
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc							
12. Learning and Teaching Resources							
Required textbooks (curricular books, if any)			Steel Design by Segui, Fourth Edition, 2007 Structural Steel Design by Mc Cormac and				
Main references (sources)							
Recommended books and references (scientific			Csernak, Fifth Edition, 2012. 3- AISC-LF Manual, Handbook and Specifications				
journals, rep	oorts…)						
Electronic F	References,	Websites					



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