

(Construction Techniques I) Course Catalogue

2022-2023

College	Erbil Technology	
Department	Construction & Materials Technology Engineering	
Module Name	Construction Techniques I	
Module Code	COT242	
Semester	4	
Credit	6	
Module type	Theory & Practical	
Weekly hours	4	
Weekly hours (Theory)	(1)hr Class	() hr Workload
Weekly hours (Practical)	(3)hr Class	() hr Workload
Lecturer (Theory)	Yassin Ali Ibrahim	
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Lecturer (Practical)	Yassin Ali Ibrahim	
Email	Yassin.ibrahim@epu.edu.iq	

Course Book

▪ **Course overview:**

In this module, students will be trained the construction work in general and the execution of the reconstruction, geometric, functional, the construction business management, guidance of supervisions and financial engineering work.

▪ **Course objective:**

Through this module, students will learn how to project management and implementation of all clauses of the construction engineering.

The content of scientific view:

- How to implement occupational safety at work and how to write a report.
- Training the student how to manufacture kinds of wooden molds and how to complete work on reinforcing bars (beam, slab-column,).
- Training the student how to build walls of different blocks, clay bricks, and thermotonus, as well as the way of fumes, whiteness, prose, and dyes of all kinds.
- Train the student how to apply ceramic tile eshtakr, functioning water and thermal insulation of buildings.
- Training the student on the works of water and sanitary installations, electricity networks and the way of working types of manholes, tank, and tank sedimentation wells.
- Work on air ducts and types of foundations for central cooling devices, types of dictates and how to isolate them.

▪ **Student's obligation**

- Students should be informed that the method of teaching the material is evaluated daily.
- After each practical work, report must be prepared.
- At the end of each week, a seminar should be presented.

▪ **Forms of teaching**

During the academic year, Data Show is used for full detailing, besides that a white board is used to solute the examples, and a software copy of the lecture will be handed, finally, a home work for the coming week will be announced.

▪ **Assessment scheme**

Erbil Polytechnic University										
Erbil Technology College					Select		Min.			
Construction & Materials Technology Engineering					1 ECTS = 27		working hours			
Program: Technical Diploma (120 ECTS)					Lecturer Name					
Total No. of Weeks/Semester:			20 weeks		Yassin Ali					
Module Name:		Construction Techniques I			ECTS = 6		Theory	Practical	Tutorial	
Module Code:		COT242	Group:		All		1	3		
ECTS Workload Calculation Form										
Activity	S	Description	Activity Type	No.	T.F. Range		Specific T. F.	Time Factor	Workload	
					Min	Max				
Course	1	Theory	In class	f	10			1	10	
			Online	f	2			1	2	
	2	Preparation (1-2) * Theory Hr.		h	12	1	2	2	24	
	3	Practical		f	12			3	36	
	4	Preparation (1-1.5) * Practical Hr.		h	12	3	4.5	3	36	
	5	Tutorial		f	12					
Site Visits and Lab Experiments	7	Scientific/Field Trips		f	1	2	6	3	3	
	8	Practical/Lab Reports		h	5	1	2	1	5	
Assignment	9	Homework		h	2	1	4	1	2	
	10	Report		h	5	1	4	1	5	
	11	Seminar		h	5	2	10	2	10	
	12	Paper		h						
	13	Essay		h						
Assessment	14	Project/Poster		h	1	4	15	5	5	
	15	Quiz		h	4	1	2	1	4	
	16	Mid Term	Theory		f	1			1	
	17		Preparation (1.5-3) * Theory Hr.		h	1	1.5	3	2	2
	18		Practical		f	1			1	1
	19		Preparation (1-2) * Practical Hr.		h	1	3	6	3	3
	20	Final	Theory		f	1			2	2
	21		Preparation (3-5) * Theory Hr.		h	1	3	5	4	4
22	Practical		f	1			1	1		
23	Preparation (2-4) * Practical Hr.		h	1	6	12	6	6		
Face to face hours (f)/12 week		4.4		Face to face hours (f)				56		
Home hours (h)/16 week		6.8		Home hours (h)				106		
Total hours/16 week		10.1		Total hours				162		
ECTS (Total hours 162 / 27) ≈ 6							Accept		6	
(Min. 12 weeks active lecturing (Including Min Term exams with no stopping of lectures)+ 3 weeks Final & Re-sit Exams (Including one week break in between))										
Select time factor range from (Min., Av. or Max) in cell J2, if necessary write specific time factor in column J.										
f: Face to face activity hours			h: Household activity hours							
Directorate of Quality Assurance and Accreditation					بهرۆ بهێرا بهێتی دانیایی جۆری و متمانە بهێخشین					
Yassin Ali										

<ul style="list-style-type: none"> ▪ Specific learning outcome: After the end of the semester, the student has learned how to implement and supervise all construction work and the implementation of all construction work <p>The content of scientific view:</p> <ul style="list-style-type: none"> ▪ How to implement occupational safety at work and how to write a report. ▪ Training the student how to manufacture kinds of wooden molds and how to complete work on reinforcing bars (beam, slab-column,). ▪ Training the student how to build walls of different blocks, clay bricks, and thermotonus, as well as the way of fumes, whiteness, prose, and dyes of all kinds. ▪ Train the student how to apply ceramic tile eshtaikr, functioning water and thermal insulation of buildings. ▪ Training the student on the works of water and sanitary installations, electricity networks and the way of working types of manholes, tank, and tank sedimentation wells. ▪ Work on air ducts and types of foundations for central cooling devices, types of dictates and how to isolate them. 		
<p>- Course Reading List and References:</p> <ul style="list-style-type: none"> ▪ Key references: ▪ Useful references: Construction Technology ▪ Magazines and review (internet): Engineering Magazines 		
<ul style="list-style-type: none"> ▪ Course topics (Theory) 	Week	Learning Outcome
Not applicable		
Practical Topics (If there is any)	Week	Learning Outcome
1. Health & Safety in construction work, How to write a report	1	
2. General discussion on different formwork	2	
3. Beams formwork practical work	3	
4. Columns formwork practical work	4	
5. Slabs formwork practical work	5	
6. Cut & bent reinforcement bars for beams, slabs & columns	6	
7. Concrete work, concrete corridors, pavements	7	
8. Masonry {(Block Work) (Brick work from thickness of 12, 24, 36 & 48 cm)(Thermo stone)}	8	
9. Curbstone		
10. Surface Works	9	
11. Stairs	10	
12. Cladding	11	
	12	

<p>19. Examinations:</p> <p>This Subject does not have exam, marks are set weekly based on continuous assignment, seminar, report and project.</p>		
<p>▪ Extra notes:</p> <p>None</p>		
<p>▪ External Evaluator</p>		