

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil Technology College	
Department	Construction & materials technology	
Module Name	Advanced material of construction	
Module Code		
Academic profile	 - 1978 awarded his B.Sc in University of Mosul - Up to 1989 worked as a civil engineer in supervising, execution of Projects. - Participated in various committees in final measurement and acceptance of projects. - In 1985 awarded MSc in civil and structural ingineering in College of Engineering- Civil Engineering Department, University of Manchester.UK. - In 2019 awarded PhD in civil engineering/Turkey - 1990 up-to-date: - Taught many subjects in all class years of Deploma and BSc students in Erbil And Shaklawa Technical colleages,. Taught many subjects in Cihan University, college of engineerin - Published several papers - Presented several seminars - Participated in many Workshops), inside and outside the Region. - Participated many committees in department, college and university. - Chaired several committees (in the college and department) 	
Semester	4	
Qualification	PhD geotechnical engineering	

Scientific Title	Ass. Prof.		
ECTS (Credits)	5		
Module type	Prerequisite Core Assist.		
Weekly hours	4		
Weekly hours (Theory)	(2)hr Class		
Weekly hours (Practical)	(2)hr Class		
Number of Weeks	13		
Lecturer	Ferzand kamal ahmed medhat		
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Websites			

Course Book

	General concepts of this subject is to explain in detail the
	various construction materials used in civil engineering
	projects, its specifications are also reviewed
	•
Course Description	
	11. Course objective:
	The objective of this subject is to guide students advanced
	construction materials, and directing construction
Course objectives	operations in a manner that will attain the best possible
	results. It will assist the student in more fully
	understanding the total construction process, from
	inception of the idea through start-up.
	Attendance : :Students should make every effort to maintain good
	attendance in their classes.
	Participation: Each student should participate in the
	classroom. Discussing relevant subjects at appropriate times
	can spark new conversations and produce valuable debates.
	Questions: Asking questions about unclear material is an important part of the alegargem experience. It is not uncommon for students to
Student's obligation	part of the classroom experience. It is not uncommon for students to have similar difficulties, so speaking up will help everyone
Student's obligation	understand the discusse information. Teachers can also benefit from
	a student's questions.
	Respect: Students need to respect the ideas and opinions of their
	classmates in and outside of the classroom They should not ridicule
	someone for having a different viewpoint, and they should be willing
	to listen to alternative perspectives.
	Preparation: Instructors expect students to study outside of
	the classroom. Students should complete assignments

	(submitting Homework and reports),		
	 performing home works,, quizzes and exams in prespecified 		
	time.		
	Conducting a field trips to the factories.		
Dogwined Learning	• presenting lecturers by using white board,		
Required Learning			
Materials	Demonstration method implies presenting information with the help		
	of visual aids.		
	- data show		
	- video		
	visiting project site as practical aid of teaching and		
	applications,		
	Written method implies the following forms of activity: copying,		
	taking notes, composing theses, writing essay etc.		
	• E-learning implies using the Internet and multi-media means in the process of teaching.		
	 Cooperative teaching is a teaching strategy in the process of which 		
	each member of a group not only has to learn the subject himself,		
	but also to help his fellow-student to learn it better.		
	• submitting reports and/or homework,		
	Quizzes and exams		
	Site visits to the projects.		
	Conducting seminers in various civil engineering topics.		
	1- The student will be conversant with the properties of		
	construction materials and their manufacture methods and the new alternative materials and their properties 2-The student will be able to deal with deferent tests for the		
Specific learning			
	construction materials to know how much they are compatible		
outcome:	with the specifications and to decide the ability of using it in		
	construction projects		
	3- The student will be able to write test reports and		
	specification reports ,also how he is deal with the local and		
	foreign standard specifications for construction materials		
	The method to evaluate the student understanding and reacts are to		
	carry out two main examines, five quizzes, twohome works,		
	reports, class tutorials and presentations.		
	- Mid term exam 24%		
Assessment scheme	- Quizzes ,reports, seminers attendance and		
	homework's 36%		
	- Final exam 40%		
	Total 1000/		
	Total 100% 1-ASTMC856-14,standard practice for petrographic Examination of		
	hardened concrete ASTO,2014,		
Course References:	2-BS 476-3;2004, Fire tests on building materials and		
	structures.Classification and method of test for external fire exposure to		
	roofs, 2004.		
	3-The concrete society, Assessment and repair of fire damaged structures		
	technical report 33,1990.		

Course topics	Week	Learning Outcome
Refractory linings /quiz1	1	
Glass / quiz2	2	
Light weight concrete/application s/quiz3	3	
Fiber reinforced concrete/applications	4,5	
Med term exam		
Scientific visit to the factories	6	
Ferrocement/applications/quiz4	7	
Insulations materials/kinds of thermal insulations	8	
Seminers and video presentations	9	
Asbestos/quiz5	10	
paints	11	
Asientific visit/debates	12	
Final exam	13	