



## Module (Course Syllabus) Catalogue 2023-2024

<b>College/ Institute</b>	<b>Erbil Technology College</b>
<b>Department</b>	<b>Construction &amp; materials technology</b>
<b>Module Name</b>	<b>Material construction process</b>
<b>Module Code</b>	<b>MPP474</b>
<b>Academic profile</b>	<ul style="list-style-type: none"><li>- 1978 awarded his B.Sc in University of Mosul</li><li>- Up to 1989 worked as a civil engineer in supervising, execution of Projects.</li><li>- Participated in various committees in final measurement and acceptance of projects.</li><li>.</li><li>- In 1985 awarded MSc in civil and structural engineering in College of Engineering- Civil Engineering Department, University of Manchester.UK.</li><li>- In 2019 awarded PhD in civil engineering/Turkey</li><li>- 1990 up-to-date:<ul style="list-style-type: none"><li>- Taught many subjects in all class years of Deploma and BSc students in Erbil And Shaklawa Technical colleages,.</li><li>- .Taught many subjects in Cihan University,college of engineerin</li><li>-</li><li>- Published several papers</li><li>- Presented several seminars</li><li>- Participated in many Workshops), inside and outside the Region.</li></ul></li><li>- Participated many committees in department, college and university.</li><li>- Chaired several committees (in the college and department)</li></ul>
<b>Semester</b>	<b>7</b>
<b>Qualification</b>	<b>PhD geotechnical engineering</b>

Scientific Title	Ass. Prof.	
ECTS (Credits)	4	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours	4	
Weekly hours (Theory)	( 2 )hr Class	
Weekly hours (Practical)	( 2 )hr Class	
Number of Weeks	13	
Lecturer	Ferzand kamal ahmed medhat	
E-Mail & Mobile NO.	<a href="mailto:Ferzand.medhat@epu.edu.iq">Ferzand.medhat@epu.edu.iq</a>	
Websites		

## Course Book

<b>Course Description</b>	<p><b>.Students will gain knowledge about construction material process,,for most common and advanced building materials.Understanding of typicaland potential applications of these materials.also understanding of importance of experimental verification of materialprocess and properties,</b></p>
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<p><b>Course objectives</b></p>	<p><b>11. Course objective:</b>  The objective of this subject is to guide students advanced construction materials, and directing construction operations in a manner that will attain the best possible results. It will assist the student in more fully <u>understanding the total construction process, from inception of the idea through start-up.</u></p>
<p><b>Student's obligation</b></p>	<ul style="list-style-type: none"> <li>● Attendance : :Students should make every effort to maintain good attendance in their classes.</li> <li>● Participation: Each student should participate in the classroom. Discussing relevant subjects at appropriate times can spark new conversations and produce valuable debates.</li> <li>● Questions: Asking questions about unclear material is an important part of the classroom experience. It is not uncommon for students to have similar difficulties, so speaking up will help everyone understand the discusse information. Teachers can also benefit from a student’s questions.</li> <li>● 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.</li> <li>● Preparation: Instructors expect students to study outside of the classroom. Students should complete assignments (submitting Homework and reports),</li> <li>● performing home works,, quizzes and exams in prespecified time.</li> </ul> <p><b>Conducting a field trips to the factories.</b></p>
<p><b>Required Learning Materials</b></p>	<ul style="list-style-type: none"> <li>● presenting lecturers by using white board,</li> <li>● Demonstration method implies presenting information with the help of visual aids. <ul style="list-style-type: none"> <li>- data show</li> <li>- video</li> </ul> </li> <li>● visiting project site as practical aid of teaching and applications,</li> <li>● Written method implies the following forms of activity: copying, taking notes, composing theses, writing essay etc.</li> <li>● E-learning implies using the Internet and multi-media means in the process of teaching.</li> <li>● 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.</li> <li>● submitting reports and/or homework,</li> <li>● Quizzes and exams</li> <li>● Site visits to the projects.</li> </ul> <p><b>Conducting seminars and debates in various civil engineering topics.</b></p>

<b>Specific learning outcome:</b>	<b>All reasonable efforts will be made to meet the individual needs of the student in the field of construction material process.</b>
<b>Assessment scheme</b>	<p>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.</p> <ul style="list-style-type: none"> <li>- Mid term exam 24%</li> <li>- Quizzes ,reports, seminars attendance and homework's36%</li> <li>- Final exam 40%</li> </ul> <p>-----  <b>Total 100%</b></p>
<b>Course References:</b>	<p>1- Building materials and process engineering. IAB Weimar gGmbH 2023.</p> <p>2- Constuction technology and Building Materials.</p>

<b>Course topics</b>	<b>Week</b>	<b>Learning Outcome</b>
Introduction ot Building material construction process	1	
Glass / quiz1	2	
Soils sand and stone,,,bricks,cement,steel factory	3	
Continued,Quiz 2	4,5	
Med term exam		
Scientific visit to the factories	6	
Ferrocement/applications/quiz3	7	
Insulations materials/kinds of thermal insulations	8	
Seminers and video presentations	9	
Wood/Timber/quiz4	10	
Paints,Tiles,Quiz 5	11	
Asientific visit/debates	12	
Final exam	13	

