

Date:	Examination No.: 1142	Version:4/2/2023	Start: 4/2/2023
Module Name - Code	Pavement Design and Performance-Code 1142		
Module Language:	English		
Responsible:	Dr.Abdulhakim Othman Salih Kozapanky		
Lecture (s):			
College:	College of Engineering – Salahaddin University		
Duration:	15 week – 2nd semester		
Course outcomes:	At the end of the semester, students would be able to understand: Structural design of flexible and rigid pavements, construction of different types of roads, pavement layers, stabilization ,asphalt material and designing of asphalt concert and its performance through maintenance of pavements in view of failures and their remedies		
Course Content:	<ol style="list-style-type: none"> 1. Pavements: types and Components. 2. Soil stabilization 3. Structural Design of flexible pavements through different methods. 4. Structural Design of rigid pavements and joints by different methods. 5. Types of roads: their components and construction. 6. Asphalts: types, their production, properties required & grade selection. 7. Bituminous mixes: properties required of bituminous mixes & Mix design procedure. 8. Maintenance of asphalt surfacing: causes and their remedies. 		
Literature:	<ol style="list-style-type: none"> 1- AASHTO Material (2013): Part 1: Specifications, Part 2: Tests. 2- SORB: Standard Specifications of Roads & Bridges, Iraq. 3- Highway Design Manual, Iraq. 		
Type of Teaching:	<p style="text-align: center;">3 hrs. in lectures 2 hrs. Laboratory working.</p>		
Pre-requisites:			
Frequency:	Yearly in spring semester		
Requirements for credit points:	<p>For the award of credit points, it is necessary to pass the module exam. Quizzes, assignments, and reports for lab. Tests.</p> <p>The module exam (practical and theoretical) contains: [Written 150 min for theoretical] [Written 30min for practical]</p> <p>Student's attendance is required in all classes and in Laboratory.</p>		
Credit point:	5		
Grade Distribution:	<p>The Grade is generated from the examination result(s) with the following:</p> <p>15% Quizes & activities 15% Practical(Lab.) 20% Mid-term exam. 10% Final practical exam. 40% Final theoretical Exam.</p>		
Work load:	The workload is 150h. It is the result of 75hrs. attendance and 75hrs. self- studies.		