

Date:	Examination No.: 1124	Version:1/9/2022	Start: 1/9/22
<b>Module Name - Code</b>	Highway Engineering-Code 1124		
<b>Module Language:</b>	English		
<b>Responsible:</b>	Dr.Abdulhakim Othman Salih Kozapanky		
<b>Lecture (s):</b>	Dr.Abdulhakim Othman Salih Kozapanky		
<b>College:</b>	College of Engineering – Salahaddin University		
<b>Duration:</b>	15 week – 1 semester		
<b>Course outcomes:</b>	At the end of the semester, students would be able to understand: Types, classifications of different types of highways, planning through economic analysis, designing of highways geometrically, drainage elements and intersection types and details.		
<b>Course Content:</b>	<ol style="list-style-type: none"> <li>1. Highway Planning , alignment &amp; deferent methods for economic analysis.</li> <li>2. Geometric design of horizontal, vertical alignments and designing of an over pass bridges.</li> <li>3.Designing of highway drainage, and</li> <li>4. Highway intersections details.</li> </ol>		
<b>Literature:</b>	<ol style="list-style-type: none"> <li>1- AASHTO Material (2013): Part 1: Specifications, Part 2: Tests.</li> <li>2- AASHTO (2013): A Policy on Geometric Design of Highways &amp; Streets.</li> <li>3- SORB: Standard Specifications of Roads &amp; Bridges, Iraq.</li> <li>4- Highway Design Manual, Iraq.</li> </ol>		
<b>Type of Teaching:</b>	<p style="text-align: center;">3 hrs. in lectures 2 hrs. laboratory working.</p>		
<b>Pre-requisites:</b>			
<b>Frequency:</b>	Yearly in fall semester		
<b>Requirements for credit points:</b>	<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><b>Student's attendance is required in all classes and in Laboratory.</b></p>		
<b>Credit point:</b>	<b>5</b>		
<b>Grade Distribution:</b>	<p>The Grade is generated from the examination result(s) with the following:</p> <p>10% Quizes &amp;activities 10% Practical(Lab.) 30% Mid-term exam. 10% Final practical exam. 40% Final theoretical Exam.</p>		
<b>Work load:</b>	The workload is 150h. It is the result of 75hrs. attendance and 75hrs. self- studies.		