

Date:	Examination No.: 1122	Version:12/2/2023	Start: 12/2/2023
Module Name - Code	structural Analysis - 1122		
Module Language:	English		
Responsible:	Asst. Prof. Dr Feirusha + M. Abdullah		
Lecture (s):			
College:	College of Engineering – Salahaddin University		
Duration:	15 week – spring semester		
Course outcomes:	<p><u>Students should be able to:</u></p> <p>Use reference, technical literature, and standards to analyze the different types of the structure.</p> <p>Solve problems in the discipline manually by using different methods of analysis.</p> <p>Perform calculations on strength and stiffness in tension-compression, bending by using most popular software and programs.</p> <p>be ready to the next steps (Design of Buildings and Structures).</p>		
Course Content:	<p>Analysis of Statically Determinate Structures</p> <p>Internal Loadings Developed in Structural Members</p> <p>Cables and Arches</p> <p>Influence Lines for Statically Determinate Structures</p> <p>Work– Energy Methods</p> <p>Approximate Analysis of Statically Indeterminate Structures</p> <p>Force Method</p> <p>Moment distribution method</p>		
Literature:	<p>Structural Analysis R. C. Hibbeler.</p> <p>Structural Analysis Aslam Kassimali.</p> <p>Advanced Methods of Structural Analysis, Igor A. Karnovsky, Olga Lebed</p> <p>Structural Analysis, Matthew L. Camilleri</p>		
Type of Teaching:	<p>2 hrs in lectures</p> <p>2 hrs application</p>		
Pre-requisites:	Mechanics of Materials		
Frequency:	Yearly in fall and spring semesters		
Requirements for credit points:	<p>For the award of credit points, it is necessary to pass the module exam.</p> <p>The module exam contains:</p> <p>[Written 120 min]</p> <p>Student's attendance is required in all classes.</p>		
Credit point:	5		
Grade Distribution:	<p>The Grade is generated from the examination result(s) with the following</p> <p>20% activity</p> <p>20% mid-term exam</p> <p>60% final theoretical Exam</p>		
Work load:	The workload is 150h. It is the result of 60h attendance and 90h self studies.		