# COURSE SYLLABUS SEMESTER FALL 2020/2021

|  |  |
| --- | --- |
| Name of Course | Structural Analysis II |
| **Course Code** | **SZB069AN-LA-01** |
| **Allotment of Hours per Week** | **2 Hours** |
| **Number of Credits** | **2** |
| **Program** | **BSc Civil Engineering** |
| **Evaluation** | Mid-Semester grade |
| **Semester** | **Autumn** |
| **Prerequisites** | Computer Aided Structural Analysis |
| **Department** | Department of Civil Engineering |
| **Instructor** | **SAIED KASHKASH** |
|  |  |

##  OBJECTIVES

Learn how to model analysis and design different types of Structures (Steel and reinforced concrete) using Finite Element Structural design software Autodesk Robot Structural Analysis Professional

## CONTENTS

**Short description:** This course is aimed to provide basic and intermediate knowledge about the modeling, analyzing and designing structural elements Robot software.
Topics covered by the course include:
**1. Creating a Structural Model**

**2. Analysis and Explore results**

**3. Design Steel Structure**

**4. Design Reinforced concrete Structure**

**Methodology:**

Lab prctice and examples

**Schedule:**

## ATTENDANCE AND GRADING

**Attendance:**

Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

**Grading:**

**Offered exam grade:**

Evaluation in percents Numeric grade

89%-100% 5

77%-88% 4

66%-76% 3

55%-65% 2

0-54% 1

## READINGS AND REFERENCE MATERIALS

1. R.C. Hibbeler Structural Analysis 8th Eddition