

## **1- About the program**

### **Program Aim:**

The MS in **construction materials technology engineering** prepares graduate students to:

1. Knowledge of the properties, standards of quality, standards of classification of the construction materials.
2. Understand the uses and limitation of the construction materials.
3. Understand of the requirements for proper placing, installation, or workshop of the construction materials.
4. Ability to select the appropriate type and producer for the use of the construction materials according to construction requirements.
5. Understand the requirements of these materials, their behavior and mechanism of deterioration.

### **Mode and Duration of Study**

The Construction materials technology engineering master's program extends over a two academic years. Courses are offered through two semesters during the first academic year. In the second academic year, the student required to conduct thesis research.

### **Medium and Course Assessment**

The program will be taught in English.

Besides the on campus, online coursework and a list of suggested readings will be provided to help students to grasp the fundamental concepts of construction engineering materials. Assessment of each course may include assignments, mid-term examinations, project papers, and course work, as well as a final examination, which is normally held at the end of the semester.

### **Graduation Requirements**

Students are required to successfully complete 13 courses (34 credits), and a research in the related subject (12 credits) to be a total of 46 credits.

Those who have failed a course are allowed a second attempt and those who failed again are expelled from the program.

## **2- Curriculum Structure**

Total credits required: 46  
 34 credits for courses  
 12 credits for capstone project

### 3- Courses

- 1<sup>st</sup> academic year – 1<sup>st</sup> semester

No.	Subject	No. of Credits
1.	Theory of Elasticity & Plasticity	3
2.	Special Construction Material	3
3.	Advanced Concrete Tech. I	3
4.	Numerical & Eng. Analysis	3
5.	Constructions Materials Tech. I	3
6.	English Language	2
<b>Total</b>		<b>17</b>

- 1<sup>st</sup> academic year – 2<sup>nd</sup> semester

No.	Subject	No. of Credits
1.	Constructions Materials Tech. II	3
2.	Advanced Concrete Tech. II	3
3.	Technology of Construction	2
4.	Economic & Eng. Management	2
5.	Quality Control & ISO	2
6.	Selective Topics	3
7.	English Language	2
<b>Total</b>		<b>17</b>