

# **INDUSTRIAL GLASS AND CERAMICS PROGRAM**

## **Program Introduction**

Industrial Glass and Ceramics program was established in 2002. The program was established under the name of the Industrial Ceramics Program and took its current name in 2009. Those who successfully complete all compulsory-elective courses and internships graduate. Our program is within the scope of formal education and the language of education is Turkish. The quota of formal education is 25 students each year. The aim of the program is to educate the students as a technician for the glass and ceramics industry. Industry needs well-educated technicians who will play an important role between engineers and workers. Our program fulfills this demand. Students graduated from Industrial Glass and Ceramics program have work discipline and ethics and they can follow the technological developments, use related machinery. So, they will have a key role at the production continuity and at the development of the product quality.

## **Our Mission**

The mission of the Industrial Glass and Ceramics program is; to be a leading and respected program in the national arena that carries out contemporary education, training and research activities.

## **Our vision**

The vision of the Industrial Glass and Ceramics program; in the light of universal values, to train qualified technicians who can use of science, technology and personal experience to serve at national and international level, lead in the creation and implementation of contemporary education and research strategies.

## **Program Outcomes**

To apply the knowledge of mathematics, science and analytics in related experiments.

To know the basic concepts about ceramic and glass technologies.

To recognize ceramic and glass raw materials, knows their basic properties.

To design and develop body and glaze recipes.

To carry out experimental studies related to his/her subject and obeys professional ethical rules.

To do quality control and research-development studies.

To design ceramic products.

To know and apply measures related to occupational safety, human health and environmental protection.

To use information technologies and communication tools.

To be prone to teamwork, is creative, communicates easily.

## **Laboratory Opportunities of the Program at the School**

### **Existing Equipments :**

1.Laboratory kiln (max.1320°C)

2.Application kiln(max.1050°C)

3.Bending strength device

4.Precision balance

5.Pycnometer

6.Ford Cup No.4

7.Jars Turner Roller

8.Jet Mill

9.Hydraulic press

10. Screen printing apparatus

### **Tests Performed:**

1. Determination of water absorption values

2. Determination of elongation values

3. Determination the density of body and glaze samples

4. Determination the viscosity of body and glaze samples

5. Firing the ceramic samples at different temperatures

6. Preparation of body and glaze recipes.

## Employment Opportunities for Graduates of the Program

Graduates of the program are employed as technicians in Ceramic Production Factories, Glass Production Factories, Refractory Factories, Iron-Steel Factories, Ceramic Workshops in private and public areas.

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