## **Department of Industrial Chemistry**

**Faculty of Science** 

IC (209)411 Silicate Technology 3(2/2-1/3)

Abbreviation

Prerequisite IC 312

This course is opened for MAJOR ELECTIVE COURSE (PLAN I), MAJOR COMPULSORY COURSE (PLAN II)

## **Course Description**

Relationship between ceramic materials and technology, relationship between ceramic raw materials and technology, relationship between ceramic body and technology, technology of ceramic forming process, technology of ceramic drying process, technology of ceramic firing process, and finishing

## **Objectives**

- 1. Students will be able to understand the relationship between ceramic materials and technology.
- 2. Students will be experienced with laboratories involving ceramic manufacturing technology.

Course Content	Lecture Hours
1. Relationship between ceramic materials and technology	3
2. Relationship between ceramic raw materials and technology	5
3. Relationship between ceramic body and technology	5
4. Technology of ceramic forming process	5
5. Technology of ceramic drying process	2
6. Technology of ceramic firing process	8
7. Finishing	2
Total	30

Laboratory Topics	Laboratory hours
1. Technology of ceramic raw materials treatment	6
2. Technology of comminution process	6
3. Technology of mixing process	6
4. Technology of drying process	3
5. Technology of slip forming process	6
6. Technology of plastic forming process	6
7. Technology of press forming process	6
8. Technology of firing process	6
Total	45