

**Module title:** Chemical Engineering Technical Language

**Module Code:** 24-18-050-01

**Module Credit:** 2

**Term:** Second Term 1398-99

**Lecturer:** Prof. A. Samimi  
a.samimi@eng.usb.ac.ir

**Lecturing time:** Sun. (9:30-11:30)

**Assessments:** Final term exam 60%  
Home works 20%  
Technical article and seminar 20%

**Class attendance:** REGULAR ATTENDING IS IMPORTANT AND EACH SESSION YOUR ATTENDANCE WILL BE CHECKED

**References:** ENGLISH FOR CHEMISTRY and CHEMICAL ENGINEERING *Exercise Book*

Basic Principles and Calculations in Chemical Engineering  
David M. Himmelblau

Handover Papers

**Module Subjects:** The chemical engineering technical language course is included of the following subjects:

- 1- Introduction to chemical engineering
  - Essence and etymology of chemical engineering
  - History of chemical engineering
- 2- General chemical engineering concept

- Chemical reaction
  - Fluid mechanics
  - Thermodynamics
  - Heat transfer
  - Mass transfer
  - Unit operations
- 3- Branches of chemical engineering
- Nanotechnology
  - Biochemical engineering
  - Ceramics
  - Food engineering
  - Polymer engineering
  - Material science
- 4- Scientific and technical writing in English
- 5- M.Sc. and Ph.D. entrance examinations