

Course Outline

Instructor	Dr. Osman G. ERSOY osman.g.ersoy@hotmail.com osman.ersoy@boun.edu.tr 0532 562 46 26		
Assistant	İlayda Çelenk ilayda.celenk@boun.edu.tr		
Prerequisite	PHYS 121, CHEM 105		
Textbook	Manufacturing Engineering and Technology by S. Kalpakjian & S.R. Schmid		
Class hours	Monday	15:00-16:00 (Online)	
	Friday	09:00 – 12:00 (Online)	
Grading	Homeworks&reports&attendance	20%	
	Mid-Terms (2)	40%	
	Final	40%	



Course Content

- Introduction to Manufacturing
- Material Properties & testing
- Metal alloys and phase diagram
- Iron and steel making
- Metal Casting
- Forming and Shaping Processes
- Sheet-Metal working Processes
- Polymers and Polymer Processing
- Machining
- Advanced manufacturing methods (Additive Manufacturing and Prototyping)