

T.C.
İSTANBUL TEKNİK ÜNİVERSİTESİ
DENİZCİLİK FAKÜLTESİ
DERS TANITIM FORMU

Bölümü: Gemi Makinaları İşletme Mühendisliği

Dersin Adı	Kodu	Ders Tipi	Yarıyılı	Kredisi	Ders	Uygulama	Laboratuvar
					(saat/hafta)		
Manufacturing Processes	GMI 122E	Kredili			2	0	0
<i>Dersin Verildiği Bölüm</i>	Gemi Makinaları İşletme Mühendisliği						
<i>Dersi Veren ve Görüşme Saatleri</i>	Prof..Dr.Burkay ALNIPAK						
<i>Dersin Dili</i>	İngilizce (English)						
<i>Zorunlu/Seçmeli</i>	Zorunlu (Compulsory)						
<i>Derslik ve Dersin Saati</i>	C2 Salı 13.30-17.30						
<i>İçeriği</i>	To gain general and necessary knowledge about on the casting,forming,machining and welding. Projects and safety rules, using of machinery tools, shape, lathe, mill, drilling machine, cutting machine, bending pipe, fixed connections, rivet, solder, electric arc welding equipments and positions, fundamentals of welding, welding of carbon steel, oxy-acetylene gas welding and equipments, working procedures.						
<i>Dersin Amaçları</i>	The students who pass the course:Be familiarized with the principles and application fields of material processes,Be familiarized with the advantages and limitations of manufacturing technologies with respect to each other's depending on the application fields, Recognize the tool and machines used in manufacturing and select proper tool and machines in the applications, Select the best manufacturing method at design stage of machine components, Use the principles and do the basic calculations for traditional manufacturing processes, Select proper process parameters in manufacturing,						
<i>İçerdiği Konular ve İşleniş Tarihleri</i>	1. Week : Fundamentals of metal casting 2. Week : Metal casting processes 3. Week : Fundamentals of metal forming 4. Week : Bulk deformation processes in metal working 5. Week : Sheet metalworking 6. Week : Theory of metal machining 7. Week : Mid Term Exam 8. Week : Machining operations and machine tools 9. Week : Cutting-tool technology 10. Week : Economic and product design considerations 11. Week : Grinding and other abrasive processes 12. Week : Nontraditional machining and thermal cutting 13. Week : Fundamentals of welding and Welding processes 14. Week : Brazing, soldering, and adhesive bonding						
<i>Önkoşul Dersleri</i>	none						
<i>Ders Kitabı</i>	Fundamentals of modern manufacturing, M.P. Groover, 3 rd ed., 2007, Wiley						
<i>Yararlanılacak Diğer Kaynaklar</i>	2. Manufacturing Processes for Engineering Materials, S. Kalpakjian, Addison Wesley, 1999.6 th Ed.						
<i>Ders Değerlendirme Yöntemi</i>					Sayısı	Oranı (%)	
	Ara Sınavları				1	30	
	Kısa Sınav				2	5	
	Ev Ödevleri				1	10	
	Laboratuvar				1	10	
	Diğer					Attendance	5
Yarıyıl Sonu Sınavı					1	40	

Hazırlayan

Öğretim Elemanı: Prof.Dr.Burkay ALNIPAK

Tarih:14.02.2012