

**Boğaziçi Üniversitesi**  
**MAKİNA MÜHENDİSLİĞİ BÖLÜMÜ**  
**Yıllık Çalışma Raporu**  
**2011**

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## MİSYON VE VİZYON

**BÜ-Makina Mühendisliği Bölümü**  
**31.12.2001**

## **VİZYON**

En kaliteli öğrencilerin ilk tercihi olan,  
En kaliteli öğretim üyelerinin çalışmak istediği,  
Mezunlarının en iyi imkanlarla iş bulabildiği veya yaratabildiği  
Kaynaklarını kendisi yaratabilen,  
Toplumda imajı yüksek  
bir bölüm olmaktır.

## **MİSYON**

1. Farklı sektörlerde çalıştığı zaman artı değer katabilen, üst düzey yönetici vasıflarını edinmeye yatkın, çağdaş makina mühendisleri yetiştiren,
2. Makina Mühendisliği temellerini ve uzmanlık konusunun ayrıntılarını çok iyi bilen ve kullanan çağdaş **makina yüksek mühendisleri** ve özgün araştırma yapabilen, evrensel boyutta bilgi üreten, ürettiği bilgiyi paylaşan çağdaş **doktor mühendisleri** yetiştiren,
3. Uluslararası boyutta bilgi üreterek ve bu bilgiyi eyleme dönüştürerek Türkiye'nin bilimsel ve teknolojik birikimini arttıran,
4. Ürettiği teknolojiyi sanayiye aktarabilen, bilgi ve tecrübesini toplum ve sanayi ile paylaşan ,
5. Devamlı “öğrenebilme yeteneklerine” sahip, kendini ve Üniversite sistemini yenilemeye ve geliştirmeye özen gösteren bir **bölüm** olmaktır.

# 1. EĞİTİM

## 1.1. ÖĞRENCİ SAYILARI

	Hazırlık	1. Sınıf	2. Sınıf	3. Sınıf	4. Sınıf	MS	PhD
İlkbahar	36	77	47	56	92	40	30
Sonbahar	54	53	72	44	92	50	21

## 1.2. ÖĞRENCİ KABUL VERİLERİ

### 1.2.1. Lisans 1. Sınıf (ÖSS Verileri)

Genel Kontenjan	: 57	Puan	: 558.362 – 538.801
		Sıralama	: 307 - 2979
Okul Birincisi	: 2	Puan	: 532.446 – 527.132
		Sıralama	: 4534 -6110
TÜBİTAK	: 1		

Ortalama Puan	: 544.330 (Okul birincileri puanları ortalamaya katılmamıştır)
Ortalama Giriş Sırası	: 1955
Kız/Erkek	: 6 / 51 (%10.5, %89.5)

ÖSS ile kabul edilen tüm öğrencilerin isimleri ektedir. (Ek 1.2.1)

Boğaziçi Üniversitesi Makina Mühendisliği Bölümü, Türkiye’de makina mühendisliği bölümleri arasında en yüksek taban puan ile öğrenci alan bölümdür (ODTÜ Makina’ya ilk giren öğrencinin sıralaması 1300, son giren öğrencinin sıralaması 8160 ve İTÜ Makinaya ilk giren öğrencinin sıralaması 3188, son giren öğrencinin sıralaması 9060). ÖSS sonuçlarına göre Türkiye genelinde öğrenci ilgisi Elektrik-Elektronik, Endüstri, Bilgisayar ve Makina Mühendislikleri şeklinde oluşmaktadır.

## **1.2.2. Yatay Geçiř (Gelen)**

### **2009-2010/II. DÖNEM**

#### **DIŐ:**

Ara dönemde diő yatay geçiř kontenjanı açılmamıřtır.

#### **İÇ:**

Ara dönemde iç yatay geçiřle öđrenci alımı olmamıřtır.

### **2010-2011/I. DÖNEM**

#### **DIŐ:**

2010 – 2011 I. dönem diő yatay geçiřle öđrenci alımı olmamıřtır.

#### **İÇ:**

2010 – 2011 I. dönem iç yatay geçiřle öđrenci alımı olmamıřtır.

## **Yatay Geçiř (Giden)**

2009-2010 II. dönem ve 2010-2011 I. döneminde yatay geçiř olmamıřtır.

## **Deđiřim Öđrencisi (Gelen)**

Taylor Reeves Baylor University, ABD (2010-2011 / I. Dönem)

Justin Williams Indiana-Purdue University, ABD (2010-2011 / I. dönem)

Nicolas Chateau ENSTA ParisTech, Fransa (2010-2011 / I ve II. dönem)

Julien Salvat Ecole des Mines D'ales, Fransa (2010-2011 / I ve II. dönem)

Coretin Altepe INSA Strasbourg, Fransa (2010-2011 / I. Dönem)

## **Özel Öđrenci**

Cihan Akdařlı  
Jeffrey Terziyan

Hochschule Heilbronn Technik, Wirtschaft, Informatik, Almanya  
California State University, ABD

### 1.2.3. Lisansüstü

#### MS

Şubat 2010	Başvuru : 10	Kabul : 5	Kayıt : 1
Mayıs Ön Şartlı Kabul	Başvuru : 12	Kabul : 7	Kayıt : 4
Eylül 2010	Başvuru : 47	Kabul : 15	Hazırlık : 8 Kayıt : 8

#### Geldikleri Üniversiteler:

BÜ : 7 YTÜ : 2 İTÜ : 3 İstanbul Üniv. : 1

#### **Otomotiv Mühendisliği MS programı**

Şubat 2010	Başvuru : 8	Kayıt: 0
Mart Ön Şartlı Kabul	Başvuru : 1	Kayıt : 0
Haziran 2010	Başvuru : 60	Kayıt: 39
Kayıtlı Öğrenci Sayısı: 48		

#### PhD

Şubat 2010	Başvuru : 3	Kabul : 2	Kayıt : 1
Mayıs Ön Şartlı Kabul	Başvuru : -	Kabul : -	Kayıt : -
Eylül 2010	Başvuru : 5	Kabul : 4	Kayıt : 3

#### Geldikleri Üniversiteler:

İTÜ : 2 Marmara Üniv.: 1 İstanbul Üniv: 1

Lisansüstüne kabul edilen tüm öğrencilerin isimleri ektedir. (Ek 1.2.3)

2010 yılında toplam lisansüstü öğrenci sayısı güz dönemi itibariyle 62'tir.

## 1.3. VERİLEN DERSLER

### 1.3.1. İlkbahar

Lisans

	D+U+L	Öğretim	Öğrenci		AA	F
		Elemanı	Sayısı	Ortalama	Sayısı	Sayısı
ME 120.01 Introduction to ME	3+0+0	Anlaş, G.	74	2,82	8	3
ME 210.01 Materials Science (ChE)	3+0+0	Balıkçı, E.	56	2,11	6	8
ME 212.01 Materials Science	3+0+2	Ersoy, N.	52	2,03	3	12
ME 241.01 Statics	3+0+0	Özüpek, Ş.	23	2,09	1	3
ME 242.01 Dynamics	3+1+0	Sönmez F.Ö.	44	2,47	9	6
ME 263.01 Thermodynamics I	4+0+0	Ecder A.	62	2,39	8	10
ME 302.01 Experimental Engineering II	1+0+4	Kalenderoğlu, V.	50	2,54	3	1
ME 318.01 Manufacturing Techniques	3+0+2	Altıntaş, S.	48	1,98	3	10
ME 324.01 Machine Design I	4+0+0	Ersoy, N.	51	2,53	3	-
ME 335.01 Mod. and Control of Dyn. Sys.	4+0+0	Eşkinat, E.	70	1,99	5	14
ME 362.01 Heat Transfer	4+0+0	Bedir, H.	54	2,27	4	6
ME 411.01 Materials Engineering	3+0+0	Balıkçı, E.	26	1,82	1	6
ME 425.01 Mechanical Vibrations	3+0+0	Yılmaz Ç.	30	2,21	5	6
ME 429.01 Mech. & Thermal Design	1+0+6	Aksan, E.	5	0,90	-	1
ME 430.01 Automotive Engineering	3+0+0	Anlaş, G.	27	2,12	3	5
ME 455.01 Fluid Mechanics II	3+0+0	Atalık, K.	10	3,05	3	-
ME 474.01 Heat Engines	3+0+0	Bedir, H.	9	2,67	1	-
ME 485.01 Sp. Tp. (Sustainable Dev. And Energy)	3+0+0	Çelik, M.	38	3,00	12	4
ME 492.01 Project	0+0+8	Yılmaz, Ç.	26	3,08	6	-
ME 492.02 Project	0+0+8	Ertürk, H.	14	3,07	5	-

Lisansüstü

	D+U+L	Öğretim	Öğrenci		AA	F
		Elemanı	Sayısı	Ortalama	Sayısı	Sayısı
ME 502.01 Advanced Eng. Math. II	3+0+0	Çelik, M.	26	2,74	7	4
ME 512.01 Principles of Manufac. Processes	3+0+0	Altıntaş, S.	8	3,43	2	-
ME 521.01 Engineering Design	3+0+0	Sönmez, F.Ö.	9	3,28	2	-
ME 530.01 Advanced Dynamics	3+0+0	Eşkinat, E.	5	2,90	1	1
ME 561.01 Conduction Heat Transfer	3+0+0	Atalık, K.	35	2,71	3	2
ME 579.01 Graduate Seminar	1+0+0	Yılmaz, Ç.	1	-	-	-
ME 579.02 Graduate Seminar	1+0+0	Ertürk, H.	1	-	-	-
ME 613.01 Deformation of Eng. Materials	3+0+0	Aydiner, C.	10	3,29	1	-
ME 632.01 Approximate Solution Techniques	3+0+0	Tezel, A.	9	2,61	-	-
ME 663.01 Radiation Heat Transfer	3+0+0	Ertürk, H.	8	3,00	1	-
ME 687.01 Sp. Top (Robust Control)	3+0+0	Köse, E.	5	2,30	-	1
ME 690.01 M.S. Thesis						
ME 790.01 Ph.D. Thesis						

AUTO 502.01 Vehicle Dynamics	3+0+0	Anlaş, G.	11	2,55	2	1
AUTO 503.01 Noise & Vibrations	3+0+0	Yılmaz, Ç.	15	2,83	2	1
AUTO 504.01 Automotive Control Systems	3+0+0	Köse, E.	11	2,82	1	-
AUTO 525.01 Fuel Cells	3+0+0	Bedir, H.	16	3,09	4	1
AUTO 590.01 Research Project						

### 1.3.2. Sonbahar

Lisans	D+U+L	Öğretim Elemanı	Öğrenci		AA	F
			Sayısı	Ortalama	Sayısı	Sayısı
ME 207.01 Probability and Statistics for ME	3+0+0	Ecder, A.	75	2,11	9	17
ME 210.01 Materials Science	3+0+0	Balıkçı, E.	64	2,69	10	6
ME 241.01 Statics	3+0+0	Aydiner, C.	51	2,20	8	10
ME 301.01 Experimental Engineering I	1+0+4	Aksan, E.	54	2,67	1	1
ME 303.01 Computer Applications in ME	3+1+0	Atalık, K.	55	2,22	7	10
ME 345.01 Mechanics of Materials I	4+0+0	Özüpek, Ş.	64	1,86	7	17
ME 353.01 Fluid Mechanics I	4+0+0	Ecder, A.	62	1,64	3	15
ME 424.01 Mechine Desing II	4+0+0	Sönmez, F.Ö.	61	2,48	8	1
ME 429.01 Mech.Component&Sys. Design	1+0+6	Yılmaz, Ç.	23	2,89	-	-
ME 429.02 Mech.Component&Sys. Design	1+0+6	Ertürk, H.	27	2,93	3	-
ME 435.01 Mechatronics	3+0+0	Eşkinat, E.	46	2,26	4	3
ME 446.01 Applied Solid Mechanics	3+0+0	Ersoy, N.	42	1,67	2	9
ME 466.01 Thermodynamics II	3+0+0	Çelik, M.	34	3,27	16	-
ME 478.01 Design of Thermal Systems	3+0+0	Bedir, H.	14	2,43	2	1
ME 482.01 Sp. Top. İn. ME App. Of the Finite	3+0+0	Özüpek, Ş.	13	2,05	3	4
ME 483.01 Sp. Tp. (Product Design and Dev.)	3+0+0	Altıntaş, S.	22	3,05	7	2
ME 492.01 Project	0+0+8	Aksan, E.	12	2,33	-	-

### Lisansüstü

Lisansüstü	D+U+L	Öğretim Elemanı	Öğrenci		AA	F
			Sayısı	Ortalama	Sayısı	Sayısı
ME 501.01 Advanced Eng. Mathematics I	3+0+0	Çelik, M.	36	2,28	13	13
ME 503.01 Mechanics of Continua I	4+0+0	Tezel, A.	10	2,89	4	2
ME 511.01 Principles of Materials Science	3+0+0	Altıntaş, S.	11	3,09	5	2
ME 523.01 Elasticity	3+0+0	Anlaş, G.	17	1,56	1	8
ME 537.01 State Space Cont. Theory	3+0+0	Eşkinat, E.	6	1,00	-	4
ME 551.01 Advanced Fluid Mechanics	3+0+0	Atalık, K.	17	1,59	1	8
ME 561.01 Conduction Heat Transfer	3+0+0	Bedir, H.	16	2,17	4	6
ME 579.01 Gradute Seminar	1+0+0	Yılmaz, Ç.	4	0	-	1
ME 579.02 Gradute Seminar	1+0+0	Ertürk, H.	5	0	-	-
ME 58C.01 Sp.Top. Solidific.& Single Crystal	3+0+0	Balıkçı, E..	6	1,17	1	4
ME 618.01 Mech. Behavior of Materials	3+0+0	Aydiner, C.	9	2,00	-	3
ME 622.01 Advenced Vibration	3+0+0	Yılmaz, Ç.	10	1,15	-	6
ME 625.01 Optimum Structural Design	3+0+0	Sönmez, F.Ö.	6	2,20	2	2
ME 663.01 Radiation Heat Transfer	3+0+0	Ertürk, H.	7	2,07	2	3
ME 690.01 M.S. Thesis						
ME 790.01 Ph.D. Thesis						



AUTO 501.01 Automotive Engineering	3+0+0	Anlaş, G.	25	3,42	7	-
AUTO 511.01 Vehicle Aerodynamics	3+0+0	Atalık, K.	20	3,13	4	-
AUTO 521.01 Internal Combustion Engines	3+0+0	Bedir, H.	35	2,91	3	-
AUTO 526.01 Heating, Ventilating&Air-Conditioning	3+0+0	Ertürk, H.	28	2,61	2	4
AUTO 541.01 Materials & Manufacturing in AE	3+0+0	Balıkçı, E.	46	2,89	7	1
AUTO 542.01 Finite Element Method	3+0+0	Sönmez, F.Ö.	26	2,81	8	4
AUTO 543.01 Fatigue & Fracture	3+0+0	Ersoy, N.	28	2,71	3	1
AUTO 590.01 Research Project	0+4+0					

### 1.3.3. Yaz

		Öğretim D+U+L Elemanı	Öğrenci		AA	F
			Sayısı	Ortalama	Sayısı	Sayısı
ME 210.01 Materials Science	3+0+0	Balıkçı, E.	25	2,76	4	1
ME 212.01 Materials Science	3+0+2	Altıntaş, S.	16	2,28	2	1
ME 242.01 Dynamics	3+1+0	Eşkinat, E.	28	1,57	1	9
ME 318.01 Manufacturing Techniques	3+0+2	Altıntaş, S.	16	2,30	1	2
ME 324.01 Machine Design I	4+0+0	Sönmez, F.Ö.	11	1,68	1	4

## 1.4. YAPILAN ÖĞRENCİ PROJELERİ

### 1.4.1. ME 492 Bitirme Projesi

#### 2009-2010 / II. Dönem (2010)

**Foucault Pendulum:** [Gizem Dilber, Melih Türkseven, Bekir Kağan Yavuz]

**Siesmometer:** [Mehmet Halit Calayır, Güntaç Kakı, Barış Müstecaplıoğlu ]

**Anti-resonant Vibration Isolator:** [Tareq Dabboor, Merve Orallı, İbrahim Oğuz Odabaş], [İzlem Sınmaz, Koralp Karadağ, Cumail Özgür Karadeniz]

**Mini Tensile Tester:** [Yunus Alıcı, Sertan Alkan, Berk Bülte]

**Ratcheting Continuously Variable Transmission:** [Mustafa Mehmet Devrimci, İbrahim Sabah, Oğuzhan Salihoğlu]

**Wave Water Pump:** [Mert Beşken, Ebru Doğan, Mete Mutlu]

**Passive Magnetic Bearing:** [Mert Ekinci, Hakkı Habip Karaman, Buğra Kaytanlı]

**Rheometer:** [Mustafa Engin Danış]

**Test setup to measure the thermal conductivity of liquids:** [Yunus Durmazkeser, Mustafa Şengör, Seray Göksel Tokgönül]

**Test setup to characterize internal forced convection:** [Oytun Babacan, Okan Çalışkan, Ahmet Yöntem]

**Ultrasonic flaw detection:** [Anıl Dardağan, Mehmet Kurt, Ahmet Deniz Usta]

**Composite wind turbine blade:** [Batuhan Erkut, Yağız Kalpakoğlu, Hakkı Eser Rodop ]

**CNC laser processing work table:** [Zafer Çalık, Sıtkı Teoman Eren, Ahmet Kasım Saruhan]

### 1.4.2. ME 429 Mekanik ve Isıl Tasarım

#### 2010 - 2011 / I. Dönem (2010)

**Phase Change Heat Transfer Test Setup:** [Begüm Ayan, Seyfi Can Babacan, Onur Gülen]

**Bench-top wind tunnel:** [Alp Albayrak, Çağatay Kocaoğlu, Sezai Osman Önder]

**Thermoelectric integrated heat sink:** [Yiğit Bülbül, Mehmet Ozan Tekin, Enes Yıldırım ]

**Cordless iron:** [Cem Mor, Enes Tatbak, Lütfi Uçar ]

**Engine cooling system:** [Kerim Ertem, Ahmet Kemal Kaba, Kerim Kasap ]

**Vehicle catalyst:** [Uğurtan Demirtaş, Çiğdem Naz İçtüzzer, Ahmet Namuslu]

**Thermal vacuum chamber:** [Irmak Arık, Onur Kayahan, Berat Çağdaş Özen, ]

**Mechanical Clock Accuracy Measurement System:** [Erdem Gelal, Aylin Öztürk, Elçin Şendur]

**Citrus Juice Extractor:** [Julien Salvat, Mohammadalı Tabrizimaskan, Oğuzhan Konez]

**Displacement Amplification Mechanism:** [Ömer Genal, Erhan Kapıcı, Muhammed Erkam Özbudak]

**Resonant Fatigue Tester:** [Sezgin Demir, Fevzi Görkem Haykuş, Savaş Volkan Renk]

**Morphing Wing:** [Mehmet Ali Öztürkmen, Ezgi Pamuk, Emre Tekişalp]

**Deformation Measurement System:** [Mustafa Mert Terzi, Mert Tunç, Selçuk Atilla Türköz]

**Residual Stress Measurement Setup:** [İbrahim Ekşi, Hasret Ercişli, Cemresu Kılıç]

Proje konularının kısa özeti ektedir. (Ek 1.4)

## 1.5. MEZUNLAR

### 1.5.1. Lisans, BS: 44 mezun

Bölüm birincisi : Ahmet Yöntem – 3,97  
Bölüm ikincisi : Okan Çalışkan – 3,91  
Bölüm üçüncüsü : Melih Türkseven – 3,78

Yüksek Onur : 6  
Onur : 14  
Mezuniyet Ortalaması : 2.90

Mezunların tam listesi ektedir. (Ek 1.5)

### 1.5.2. Yüksek Lisans, MS: 3 mezun

Soyadı, Adı	GNO	Tez Danışmanı ve Jüri Üyeleri	Dönem Sayısı	Tez Konusu
Dario, Aidin	3.	E. Balıkcı <i>K.Atalık</i> <i>M. Yıldız (Sabancı Üniv.)</i>	6	Segregation and Interface Stability in Germanium-Silicon Single Crystal Alloys
Şahin, İ. Hakkı	3.94	İ.E. Köse E. Eşkinat <i>M.Akar (Elektrik-Elektronik Müh.)</i>	4	Distributed Control of String of Vehicles in Automated Highway Systems
Şahin, Can	3.	E. Köse <i>G. Anlaş</i> <i>M.Akar Elektrik-Elektronik Müh.)</i>	5	

### 1.5.3. Doktora, PhD: 6 mezun

Soyadı, Adı	GNO	Tez Danışmanı ve Jüri Üyeleri	Dönem Sayısı	Tez Konusu
Akbulut, Mustafa	3.17	F. Ö. Sönmez G. Anlaş N. Ersoy	12	Design of Composite Structures For Minimum Weigh
Atam, Ercan	3.75	E. Köse E. Eşkinat H. Bedir H. Luş (İnşaat M) L. Güvenç (İTÜ-Makine)	11	Gain Schedule dair Path System Control and Compressor Air Mass Flow Estimation in Diesel Engines

Mahmutyazıcıođlu, Nazım	3.35	S. Altıntaş M. Savaş T. Özturan (İnşaat M.)	12	Fabrication And Characterization Of Al, AlMgSi and AlSi Foams
Oral, Alpay	4.00	G. Anlaş N. Ersoy  C. Aydıner H. Luş (İnşaat M.) Z. Moumni (ENSTA-Paris Tech)	12	Failure Criteria for Functionally Graded Materials and Application of GTN Model Using Finite Elements
Turan, Erhan	3,88	A. Ecdcr F.Ö.Sönmez Ç. Yılmaz C. Özturan (Bilgisayar M.)	11	A Framework for the Analysis of Coupled-Physics Models Using Adaptive <i>Multi-Level Techniques</i>
Kaptan, Yalın	3.71	A. Ecdcr K. Atalık H. Bedir S. A. Kılıç (İnşaat M.) E. Buyruk (Cumhuriyet Üni.)	12	Numerical Analysis of Surface-Driven Non-Isothermal Viscoelastic Flow

## 1.6. İLİŞKİSİ KESİLENLER

### 1.6.1. Lisans

5 öğrenci

### 1.6.2. Yüksek Lisans

8 öğrenci

### 1.6.3. Doktora

6 öğrenci

İlişkisi kesilen tüm öğrencilerin isimleri ektedir. (Ek 1.6)

## 1.7. İŞ BULMA/EĞİTİME DEVAM VERİLERİ

2010 mezunlarına gönderilen anketlere 31 mezunumuz cevap vermiştir. 22 mezunumuzun yurt içi ve yurt dışı muhtelif üniversitelerde lisansüstü programlarına kayıtlı olduğu, 16 mezunumuzun muhtelif işlerde çalıştığı görülmüştür.

Anket cevapları ektedir. (Ek 1.7)

## 1.8. ULUSLARARASI İLİŞKİLER

### 1.8.1. Değişim Öğrencileri

İbrahim Ekşi	University of Oklahoma, ABD	2009-2010/II
Cem Demirel	University of Southern Danimarka	2009-2010/II
Melike Uysal	University of Southern Danimarka	2009-2010/II
Hasret Ercişli	University of Oklahoma, ABD	2009-2010/II
Emre Tekişalp	Georgia Inst. Of Tech, ABD	2009-2010/II
Ç. Naz İçtüzzer	Syracuse University, ABD	2009-2010/II
Okşan Orhan	Eindhoven Technical University, Hollanda	2009-2010/II
Mehmet Berk Yiğit	Ecole Centrale University, Fransa	2009-2010/II
Necati Özcan	University of Washington, ABD	2010-2011/I
Bahar İrfan	Purdue University, ABD	2010-2011/I
Sercan Uysal	Eindhoven Technical University, Hollanda	2010-2011/I
Eda Sarıdoğan	University of Southern Denmark, Danimarka	2010-2011/I
Baran Yıldız	University of Washington, ABD	2010-2011/I
Seval Haraç	Southern Denmark, Danimarka	2010-2011/I
Emre Kaya	Potitecnico di Milano, İtalya	2010-2011/I
Deniz Temür	KTH, İsveç	2010-2011/I
Engin Çavuşoğlu	Arizona State University, ABD	2010-2011/I

### 1.8.2. Yurtdışı Stajlar

## 1.9. ÖĞRENCİLERE VERİLEN EĞİTİM SEMİNERLERİ

Seminer Konusu	Sunucu	Tarih
Pro/ENGINEER	Informa Group	22 Ekim 2010

## 2. ARAŞTIRMA

### 2.1. ARAŞTIRMA KONULARININ ANA HATLARI

DeneySEL Mekanik, Kırılma Mekanikği ve Hasar Analizi  
 Sistem Dinamiği ve Kontrol  
 Hesaplamalı Mekanik  
 Isı Transferi ve Yanma  
 Kompozit Malzemeler Mekanikği  
 Malzeme ve Üretim Teknikleri  
 Sayısal Akışkanlar Dinamiği  
 Optimum Yapısal Tasarım  
 Mekanik Titreşimler  
 Otomotiv Mühendisliği Uygulamaları  
 Nanoteknoloji

### 2.2. ÖĞRETİM ÜYELERİ UZMANLIK ALANLARI

Prof. Dr. Günay Anlaş	Kırılma Mekanikği, Katı Cisim Mekanikği, Otomotiv Mühendisliği
Prof. Dr. Sabri Altıntaş	Malzeme ve İmalat
Prof. Dr. Akın Tezel	Uygulamalı Mekanik
Prof. Dr. Haluk Örs	Akışkanlar Mekanikği, Enerji
Prof. Dr. Eşref Eşkinat	Kontrol, Titreşim, Mekatronik
Prof. Dr. Emre Köse	Sistem ve Kontrol Teorisi
Doç. Dr. Vahan Kalenderoğlu	DeneySEL Mekanik, Kırılma Mekanikği
Doç. Dr. Fazıl Ö. Sönmez	Yapısal Optimizasyon, Kompozit Malzemeler
Doç. Dr. Hasan Bedir	Reaktif Akışlar, Isı Transferi, Radyasyon, Otomotiv Mühendisliği
Doç. Dr. Kunt Atalık	Teorik ve Hesaplamalı Akışkanlar Mekanikği, Reoloji
Yrd. Doç. Dr. Emre Aksan	Lazer Kaynağı
Yrd. Doç. Dr. Ali Eçder	Hesaplamalı Akışkanlar Dinamiği, Numerik Analiz
Yrd. Doç. Dr. Nuri Ersoy	Kompozit Malzemeler, Yorulma ve Kırılma
Yrd. Doç. Dr. Şebnem Özüpek	Hesaplamalı Mekanik, Katı Mekanikği
Yrd. Doç. Dr. Ercan Balıkçı	Katılaşma, Tek Kristal Büyütme, Fiziksel ve Mekanik Metalurji
Yrd. Doç. Dr. Çetin Yılmaz	Mekanik Titreşimler, Titreşim Yalıtım Sistemleri, Tasarım
Yrd. Doç. Dr. Hakan Ertürk	Isıl Sistemlerin Tasarım ve Kontrolü, Elektronik Sistemlerin Soğutulması
Yrd. Doç. Dr. Murat Çelik	Uzay İtki Sistemleri, Sürdürülebilir Enerji, Plazma Spektroskopi
Yrd. Doç. Dr. Can Aydın	DeneySEL Mekanik, Mikromekanik, Kırılımla Gerinim Ölçümü

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### 2.3.5. PATENT

## 2.4. ARAŞTIRMA FONLARI

### 2.4.1. Üniversite İçi

#### **BAP**

5583 S. Altıntaş ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>, Nano Boyutlu TiO<sub>2</sub> ve Nano Boyutlu Sentetik Hidroksiapatit Seramik Katkılarının Hayvan Kemliğinden Elde Edilen Hidroksiapatitin Mekanik Özelliklerine Etkisi

08HA601D S. Altıntaş Antibakteriyel Özelliğe Sahip Hidroksiapatit Üretilmesi

08A604 K. Atalık Yay Şekilli Oyuklarda Newtonyen Olmayan Akışkanların Kapak Hareketli ve İzotermal Olmayan Akışlarında Isı Taşınımı Etkilerinin İncelenmesi

503 M. Çelik Uzay İtki Sistemlerinde Argon Plasma Işınımının Modellenmesi ve Modelin Spektroskopik Ölçümlerle Deneysel Olarak Doğrulanması

5566 H. Ertürk Spectrally Selective Surface Coatings for Solar Thermal Systems  
Funding Agency: Boğaziçi University  
Görev: Proje Yürütücüsü

5712 F.Ö. Sönmez Yorulma Kırılmasına Maruz Yapıların Şekillerinin Eniyilemesi, Boğaziçi Üniversitesi Bilimsel Araştırma Projeleri  
Proje Yöneticisi

09HA603P Ç. Yılmaz Fonon Kuşak Aralıkları Gösteren Yapıların Sayısal ve Deneysel Analizi

09A603P Ş. Özüpek Stress Analysis of Reinforced Rubber Hose by the Finite Element Method Boğaziçi Üniversitesi Bilimsel Araştırma Projeleri  
Proje Yöneticisi

08A601 E. Balıkcı Süperalaşım IN738LC'deki Nano Boyutlu Çökeltilerin Büyümesine Stresin Etkisi Bitiş Tarihi Mayıs 2010

09A605P C. C. Aydın Kesikle kalıntı stres ölçüm tekniğinde üç boyutlu analiz

09HA602P H.Bedir HCCI Yanma Modunda Çalışan Motor İçin Termodinamik Model Kurulması ve Yanma Prosesinin Araştırılması

## **Döner Sermaye**

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### **2.4.2. Üniversite Dışı**

#### **TÜBİTAK**

**S. Altıntaş** Nano Boyutta Hidroksiapatit Üretimi, Antibakteriyel Özellik Kazandırılması Ve Metal Ana-Yapı Üzerine Kaplanması

Proje No:107M556 Başlama Tarihi: 15.02.2008 Bitiş Tarihi: 15.08.2010

**K. Atalık** "Cisim Etrafı Akışlarda Polimer ve Sürfaktant Katkısının Yüksek Reynolds Sayılarında Akış Özellikleri ve Yapısındaki Etkilerinin Deneysel ve Sayısal Olarak İncelenmesi "

Proje No: 107M390 Başlama Tarihi: Kasım 2007 Bitiş Tarihi: Nisan 2010

**E. Balıkcı** AHP (Axial Processing) Tekniği ile Germanyum-Silikon (Ge-Si) Tek Kristal Büyütmek  
Proje No: 107m058 Başlama Tarihi: Eylül: 2007 Bitiş Tarihi: Eylül 2010

## 2.5. İÇ ARAŞTIRMA ETKİNLİKLERİ

### 2.5.1. Yürütülmekte Olan Doktora Çalışmaları

Tez Konusu	Soyadı, Adı	Öneri Tarihi	Tez Danışmanı ve Jüri Üyeleri
Production of Hydroxyapatite Based Antibacterial Ceramics	İpekoğlu, Mehmet	7/07	<b>S. Altıntaş</b> M. A. Savaş G. Baykal (İnşaat)
Study of Viscoelastic Flow in In Curved Cavities and Around Sysmmetric Bodies	Hatice Mercan	3/08	<b>Kunt Atalık</b> A. Tezel O. Berekçi (İnşaat M.)
Convex Formulationas in Robust Control with Dynamic IQCs	Gökhan Tekeli	3/08	<b>E. Köse</b> E. Eşkinat K. Özçaldıran (Elektrik E. M.)
Multi-Objective Robust Control of Rotor/Active Magnetic Bearing Systems	Sina Kuseyri	7/08	<b>E. Köse</b> G. Anlaş H. Luş (İnşaat M.)
Computational And Experimental Investigation of Low-and Mid-Frequency in Passenger Vehicles	Akın Oktav	11/08	<b>E. Köse</b> G. Anlaş (Eş Danışman) Ç. Yılmaz H. Luş (İnşaat M.)
Robust Numerical Methods for the Computation of Turbulent Transonic Flows	Uğur Türk (AF)		<b>A. Ecdar</b> A. Tezel O. Börekçi (İnşaat M.)
Robust Control of HCCI Engines	Bahadır Akyıldız		<b>E. Köse</b> H. Bedir M. Akar (Elektrik M.)
Multi-grid Techniques for the RANS Equations on Unstrucured Meshes for Flow over 3-D Submarine Geometry	Kayhan Yiğitler (AF)		<b>A. Ecdar</b> A. Tezel E. Otay (İnşaat M.)
Fracture Mechanics Parameters Of Shape Memory Alloy Materials	İ. Selçuk Hazar	06/10	<b>G. Anlaş</b> C. Aydıner Z. Moumni (Paris Tech.)
Process Modelling of Distortions For Fiber Reinforced Composite Materials	Kenan Çınar	12/10	<b>N. Ersoy</b> F. Ö. Sönmez E. M. Sözer (Koç Üniv.)

Turbulent Combustion Modelling Of Diesel Fuel Using Les With Isat Serdar Güryuva

**H. Bedir**  
K. Atalık  
A. E. Aksoylu (*Kimya Müh.*)

### 2.5.2. Bölüm Araştırma Seminerleri

Konu	Konuşmacı	Tarih
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### 2.5.3. BÜ Dışından Araştırmacıların Ziyareti

### 2.5.4. Araştırma ve Eğitimin Etkileşimi (Lisans Öğrencilerinin Araştırmaları)

Konu	Öğrenciler	Yönetici
Tübitak 2209 - Üniversite Öğrencileri Yurt İçi / Yurt Dışı Araştırma Projeleri Destekleme Programı - Duman Yayılımının Sayısal Modeli, Görselleştirilmesi ve Dumanın Ortamdan Uzaklaştırılması İçin Gereken Yapıların Optimizasyonu	Emre Türköz Sinem Ülüş	Ali Ecdar

## 2.6. DIŞ ARAŞTIRMA ETKİNLİKLERİ

### 2.6.1. Katılan Konferanslar

**Özüpek, S.** H. C. Yıldırım, “Structural Assesment of a Solid Rocket Motor”, 2010 Engineering Mechanics Institute Conference, Los Angeles, CA, A.B.D., Ağustos 2010

**Balıkcı E.** The 16TH International Conference On Crystal Growth (Iccg-16), Beijing, China, August 08-13, 2010

**Balıkcı E.** 13. Uluslararası Malzeme Sempozyumu – Imsp 2010, Denizli, Turkey, 13–15 Ekim 2010

**Ersoy N.** 14. Uluslararası Makina Tasarımı Ve İmalatı Kongresi (UMTİK 2010), 29 Haziran -3 Temmuz 2010, Güzelyurt, Kuzey Kıbrıs Türk Cumhuriyeti

### 2.6.2. Editörlük-Hakemlik

Günay Anlaş: Associate Editor ASME (Journal of Eng. Mat. & Tech.)

### **Hakemlik:**

Şebnem Özüpek:	Mechanics of Materials
Ercan Balıkçı :	Metallurgical and Materials Transactions A
Ercan Balıkçı :	Journal of Materials Design and Applications
Ercan Balıkçı :	Journal of Materials Science
C. Can Aydın:	Refereed 1 article for Journal of Applied Physics
C. Can Aydın:	Refereed 1 article for Turkish Journal of Engineering and Environment
Nuri Ersoy:	Composites Part A: Applied Science And Manufacturing (6 Makale)
Hakan Ertürk:	International Communications for Heat And Mass Transfer (1 Makale)
Hakan Ertürk:	ASME Journal of Heat Transfer (1 Makale)
Hakan Ertürk:	Journal Of Quantitative Spectroscopy And Radiative Transfer (7 Makale)
F. Ö. Sönmez:	International Journal Of Engineering, Science And Technology (Ijest)
F. Ö. Sönmez:	International Journal of Aerospace Engineering
F. Ö. Sönmez:	Composites Part B: Engineering

### **2.6.3. BÜ Dışı Kuruluşlarla Yürütülen Ortak Araştırmalar/Projeler**

#### ADI

#### KATILANLAR

### **2.6.4. Düzenlenen Konferanslar**

Ali Ecder , ISPDC 2010 – 9th International Symposium on Parallel and Distributed Computing (Co-Chairs: Can Özturan – Alper Şen) – Organizasyon Komitesi Üyeliği

### **2.6.5. Görevlendirilmeler:**

Ercan Balıkçı GEMTC, havacılık sektöründe kullanılan malzemeler

## **3. HİZMET**

### **3.1. ÜNİVERSİTE**

#### **3.1.1. Yönetim Görevleri**

G. Anlaş	Bölüm Başkanı (Ağustos 2004 - )
G. Anlaş	Rektör Danışmanı (Ağustos 2008 - )
E. Köse	Bölüm Başkan Yardımcısı (Ağustos 2004 - 2010 )
H. Bedir	Bölüm Başkan Yardımcısı (Temmuz 2007 - )
E. Köse	Otomotiv Programı Yürütücüsü (Mayıs 2005- )
Kunt Atalık	Dekan Yardımcısı (Mart 2009 - )
Ç. Yılmaz	Bölüm Başkan Yardımcısı (2010 - )

### 3.1.2. Komisyon-Kurul Üyelikleri

G. Anlaş	Fakülte Kurulu Üyesi
G. Anlaş	Fen Bilimleri Enstitü Kurulu Üyesi
E. Balıkçı	ÖYP Yürütme Kurulu Üyesi
A. Ecdar	OBİKAS Komisyonu Üyesi
K. Atalık	Akademik Kurallar Komisyonu Üyesi (Mart 2009 - )
K. Atalık	Burs Komisyonu Üyesi (Şubat 2008 - )
H. Ertürk	Fikri Mülkiyet Komisyonu Üyesi
N. Ersoy	İleri Teknolojiler Araştırma Merkezi Danışma Kurulu Üyeliği
H. Bedir	Öğrenci Değişim Komisyonu Üyesi
H. Bedir	Ders Değerlendirme Sistemleri Komisyonu Üyesi

### 3.1.3. Öğrenci Danışmanlığı

G. Anlaş	I. Sınıf Danışmanı
H. Bedir	II. Sınıf Danışmanı
E. Köse	III. Sınıf Danışmanı
K. Atalık	IV. Sınıf Danışmanı
A. Ecdar	Irregular Danışmanı
Ç. Yılmaz	Yüksek Lisans Danışmanı
G. Anlaş	Doktora Danışmanı
N. Ersoy	Staj Danışmanı
E. Köse	Otomotiv Mühendisliği Yüksek Lisans Programı Danışmanı
H. Bedir	Özel Öğrenci, Değişim Öğrencileri Danışmanı
F. Ö. Sönmez	Çap Danışmanı
H. Ertürk	Af Öğrencileri Danışmanı
M. Çelik	Hazırlık Öğrencileri Danışmanı

## 3.2. TOPLUM

### 3.2.1. Danışmanlık Hizmetleri (Özel Sektör, Kamu Sektörü)

### 3.2.2. Proje Hakemlik

Hakan Ertürk, TÜBİTAK TEYDEB proje izleyicisi (2 Proje)  
F.Ö. Sönmez, TÜBİTAK – 1001 Araştırma Projeleri Hakemliği  
F.Ö. Sönmez, TÜBİTAK – 1007 Kamu Projeleri Hakemliği  
Çetin Yılmaz, TEYDEB ve KOSGEB Projeleri Hakemlikleri  
Ercan Balıkçı, TÜBİTAK KAMAG  
Ercan Balıkçı, TÜBİTAK TEYDEB  
Nuri Ersoy, TÜBİTAK TEYDEB proje izleyicisi (3 Proje)  
Hasan Bedir, TÜBİTAK Araştırma Projeleri Hakemliği  
Hasan Bedir, TEYDEB Projeleri Hakemliği

### 3.2.3. Sürekli Eğitim Dersleri, Programları (Verilen)

Otomotiv Mühendisliği İkinci Eğitim Programı çerçevesinde sanayiden gelen mühendislere verilen dersler. (1.3'te liselenmiştir)

### 3.2.4. Kurul Üyelikleri

F. Ö. Sönmez TÜBİTAK-TEYDEB: Makine ve İmalat Teknolojileri Grubu üyesi

### 3.2.5. Diğer Yükseköğretim Kurumlarına Destek

#### Ders (Vakıf ve Devlet)

#### Verilen Seminerler

**Semineri Başlığı** :

**Yeri** :

**Görev Alan Öğretim Elemanı** :

**Düzenlendiği Tarih** :

#### Jüri Üyelikleri ( B.Ü. dışı : Doktora, Yard.Doç., Doç., Prof.)

F. Ö Sönmez	Buket O. Baba	2010	Doçentlik	18 Mart Üniv.
F. Ö Sönmez	Ümran Esendemir	2010	Doçentlik	Süleyman Demirel Üniv.
S. Altıntaş	Sarkis Sözkes	2010	Y. Doçentlik	Namık Kemal Üniv.
S. Altıntaş	Erdem Alaca	2010	Doçentlik	Koç Üniv.
S. Altıntaş	Levent Yağmur	2010	Doçentlik	Tübitak MAM
S. Altıntaş	Murat Vural	2010	Doçentlik	Illinois Institute Of Technology
S. Altıntaş	Celalettin Ergun	2010	Doçentlik	İTÜ
S. Altıntaş	Turgut Gülmez	2010	Doçentlik	İTÜ
S. Altıntaş	Can Çoğun	2010	Profesör	ODTÜ

### 3.2.6. Bölüm ve Uzmanlıkları Tanıtma Faaliyetleri (ÖSS, Lisansüstü)

ÖSS 2010'a yönelik olarak bir tanıtma sayfası hazırlanmış, ayrıca Boğaziçi Üniversitesi kitapçığına bir tanıtma yazısı konmuştur. Örneği ektedir. (Ek 3.2.6)

## 4. KAYNAKLAR

### 4.1. İNSAN KAYNAKLARI

#### 4.1.1. Öğretim Elemanları

##### Tam Zamanlı

Sabri Altıntaş	Prof. Dr.	PhD: 1978	BÜ:1979	
Günay Anlaş	Prof. Dr.	PhD: 1992	BÜ:1992	Bölüm Bşk.
Kunt Atalık	Doç. Dr.	PhD: 1999	BÜ:2003	
Can Aydın	Y. Doç. Dr.	PhD: 2004	BÜ: 2008	
Ercan Balıkçı	Y. Doç. Dr.	PhD: 1998	BÜ 2006	
Hasan Bedir	Doç. Dr.	PhD: 1998	BÜ:1998	Bölüm Bşk. Yrd.
Murat Çelik	Y. Doç. Dr.	PhD: 2007	BÜ: 2008	
Ali Ecder	Y. Doç. Dr.	PhD: 1992	BÜ: 1992	
Nuri Ersoy	Y. Doç. Dr.	PhD: 1998	BÜ: 2004	
Hakan Ertürk	Y. Doç. Dr.	PhD: 2002	BÜ: 2007	
Eşref Eşkinat	Prof. Dr.	PhD: 1991	BÜ:1994	
Vahan Kalenderoğlu	Doç. Dr.	PhD: 1980	BÜ:1980	
Emre Köse	Prof. Dr.	PhD: 1997	BÜ:1998	Bölüm Bşk. Yrd.
Haluk Örs	Prof. Dr.	PhD: 1990	BÜ:1990	
Şebnem Özüpek	Y. Doç. Dr.	PhD: 1995	BÜ:2001	
Fazıl Önder Sönmez	Doç. Dr.	PhD: 1995	BÜ:1996	
Çetin Yılmaz	Y. Doç. Dr.	PhD: 2005	BÜ:2007	

##### Kısmi Zamanlı

İlyas İstif	Y. Doç. Dr.	YTÜ		
Emre Aksan	Y. Doç. Dr.	PhD: 1968	BÜ:1971	Emekli
Akın Tezel	Prof. Dr.	PhD: 1964	BÜ:1967	Emekli

##### Adjunct

Arsev Eraslan	Prof. Dr.			
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	<b>Emre Aksan, PhD, Rochester</b> Isı transferi ve enerji sistemleri, mekanik tasarım.		<b>Sabri Altıntaş, PhD, UC Berkeley</b> Malzeme ve üretim teknolojileri, metallerin biçimlendirilmesi.		<b>Günay Anlaş, PhD, Delaware</b> Kırılma mekaniği, kompozit malzemeler mekaniği, mekanik titreşimler, otomotiv mühendisliği.
	<b>Kunt Atalık, PhD, Boğaziçi</b> Sayısal akışkanlar mekaniği, reoloji, dinamik sistemler teorisi, Lie grupları ve uygulamaları.		<b>C. Can Aydın, PhD, Caltech</b> Malzemelerin mikroyapısal mekaniği, ileri kırınım teknikleri		<b>Ercan Balıkcı, PhD, LSU</b> Süperaleşimler, yarı iletken malzemeler, katılma ve tek kristal büyütme.
	<b>Hasan Bedir, PhD, CWRU</b> Kimyasal tepkimeli akışlar, alev modellemesi, gazlarda ışıma ısı transferi, tanecik yanması.		<b>Murat Çelik, PhD, MIT</b> Uzayda itiş teknolojileri ve modelleri		<b>Ali Ecdar, PhD, Yale</b> Sayısal akışkanlar mekaniği ve yüksek performanslı hesaplama, ısı transferi, aerodinamik.
	<b>Nuri Ersoy, PhD, Boğaziçi</b> Polimerik ve kompozit malzemeler, yorulma ve kırılma.		<b>Hakan Ertürk, PhD, UT Austin</b> Isıl sistemlerin tasarım ve kontrolü, elektronik sistemlerin soğutulması, ısı transferi		<b>Eşref Eşkinat, PhD, Lehigh</b> Sistem tanılama yöntemleri, proses kontrol, uçak ve füze kontrol sistemleri, titreşim kontrolü.
	<b>Vahan Kalenderoğlu, PhD, Boğaziçi</b> Enstrümantasyon ve ölçüm sistemleri, ısı transferi, hasarsız muayene teknikleri, deneysel mekanik.		<b>Emre Köse, PhD, UC Irvine</b> Sistem dinamiği, kontrol teorisi ve uygulamaları.		<b>Haluk Örs, PhD, Princeton</b> Sayısal akışkanlar mekaniği, triboloji, enerji sistemleri.
	<b>Şebnem Özüpek, PhD, UT Austin</b> Viskoelastisite, biyomekanik, lastiklerin modellenmesi, kauçukta yorulma ve kırılma.		<b>Fazıl Ö. Sönmez, PhD, UCLA</b> Kompozit malzemeyle tasarım ve üretim, yapısal optimizasyon.		<b>Akın Tezel, PhD, Pittsburgh</b> Sürekli ortamlar mekaniği, uygulamalı mekanik, Newtonian olmayan akışlar.
	<b>Çetin Yılmaz, PhD, Michigan</b> Mekanik titreşimler, titreşim yalıtım sistemleri, tasarım				

#### 4.1.2. Araştırma Görevlileri

Adı	Program	Çalıştığı Öğretim Üyesi
Mustafa Ali Acar	MS	Bölüm
Umut Akalp	MS	Bölüm
Arün Altınçekiç	MS	Bölüm
Mehmet İpekoğlu	PhD	S. Altıntaş
Kamil Koçak	MS	Bölüm
Nazım Mahmutyazıcıoğlu	PhD	S. Altıntaş
Hatice Mercan	PhD	Kunt Atalık
Alpay Oral	PhD	G. Anlaş
İlker Özden	MS	Bölüm
İsmail Hakkı Şahin	MS	Bölüm
Miray Şimşek	MS	Bölüm
Semih Tanıker	MS	Bölüm
Gökhan Tekeli	PhD	E. Köse
Erhan Turan	PhD	A. Ecdar
Erdem Eren	MS	Bölüm
Sevgi Karabulak	MS	Bölüm

#### 35. Madde (Diğer Üniversitelere Öğretim Üyesi Yetiştirme Programı):

Ahmet Hanifi Ertaş	Cumhuriyet Ü.	PhD	F.Ö. Sönmez
Yalın Kaptan	Cumhuriyet Ü.	PhD	A. Ecdar
Kenan Çınar	Namık Kemal Üniv.	Phd	N. Ersoy

#### 4.1.3. Uzman

Akın Oktav

#### 4.1.4. İdari Personel

Hicran Kırılmaz  
Seher Yıldız  
Abdülkadir Alaçam  
İbrahim Mutlu  
Osman Zeytin  
Özlem Ulufer Oral

## 4.2. MALİ HUSUSLAR

### 4.2.1. Bütçe

#### Katma Bütçe (2010 Bölüm Geliri: 49.615,22 YTL)

Harcama	Kullanım	Tutar
Fotokopi Tamir	Bölüm	533,36
Fotokopi Bakım Bedeli	Bölüm	188,80
Kartuş	Bölüm	165,20
Kırtasiye	Bölüm	148,09
Standart Termosifon	Yeni Bina	484,98
Çelik Dolap	Bölüm	1.622,50
Ayaklı Yazı Tahtası	Bölüm	141,60
Güç Kaynağı Yıllık Bakım Bedeli	Bölüm	649,00
Ayaklı Yazı Tahtası	Bölüm	230,10
Hortum, Emiş Nozulu, Hortum Stobu	Bölüm	708,00
Ayaklı Yazı Tahtası	Bölüm	165,20
Kartuş	Bölüm	136,88
Kırtasiye	Bölüm	494,13
Lift Genel Bakım Bedeli	Bölüm	76,70
Dsc-803M 3 Eksen Dijital Gösterge Montaj ve Eğitim	Bölüm	900,00
Kâğıt Bardak	Bölüm	84,96
Poşet Plastik Cırt Kelepçe Siyah, Globe pvc ektrikçi bant	Bölüm	31,86
Makita 6281 DWPLE Akülü Vidalama	Bölüm	287,12
Büyüteçli Masa Lambası	Bölüm	181,72
Güç Kaynağı	Bölüm	96,76
Su Sebili tamiri	Bölüm	70,80
Ayaklı Vantilatör	Bölüm	90,86
Fotokopi Tamir	Bölüm	307,98
Kapıçek	Bölüm	47,20
Klima Bakım	Bölüm	330,40
Bilgisayar	Bölüm	1.300,36
Antifiriz	Bölüm	133,34
Akü	Bölüm	160,48
Koltuk	Bölüm	377,60
Çift Kovalı Temizlik Arabası	Bölüm	106,20
Toner	Bölüm	200,60
Ekran Kartı ASUS 1GB, GeForce PCI-Ex,	Bölüm	134,52
Çekme Test Sistemi	Bölüm	500,00
Makina Testere Laması	Bölüm	424,33
Digital Multimetre	Bölüm	348,69
Temel Program ve Lisans, Çekme Test Programı	Bölüm	6.077,00
Havlu Kâğıt, Sıvı Sabun	Bölüm	404,74
USB 1 TB (2.5)	Bölüm	271,40
Kuru Bakımsız Akü	Bölüm	414,18
Klima Bakım	Bölüm	283,20
5 w30 Motor (Araba) yağı	Bölüm	165,00
Işık Kaynağı Standı	Bölüm	1.657,36

Chiller Grubu	Bölüm	13.730,48
Kırtasiye	Bölüm	1.719,56
Video Kamera	Bölüm	719,80
Hariç Sabit Disk	Bölüm	483,80
Kopmak Telesentrik Lens	Bölüm	4.566,60
Stor Perde	Bölüm	413,00
Masa Üstü PC Core	Bölüm	5.605,00
Aseton, Pudrasız Eldiven	Bölüm	255,18
Çekme Basma Test Makinası Kalibrasyonu	Bölüm	826,00
Bakımsız Kuru Tip Akü	Bölüm	80,00
Kapı Paspası	Bölüm	82,60

**Döner sermaye : 2009 Yılından Devir: 32.256,77 TL 2010 Gelir:332,50 YTL**

Harcama	Kullanım	Tutar
Araç Kiralama Bedeli	Bölüm	400,00

Kalan: 32.189,27 TL

#### **Rektörlük Bütçesinden alınan Malzeme**

Malzeme	Tutar
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#### **ÖYP Alınan Malzeme**

Adı	Tutar
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### ŞARTLI BAĞIŞ Alınan Malzeme

Adı		Tutar
Abaqus Research Edition Yazılım	Şebnem Özüpek	4.229,30
Tüp Kiralama Bedeli	Ercan Balıkçı	977,87
Titanyum Gr5 Saç İstenilen Ölçüde Kesimi	Sabri Altıntaş	896,80
Dizayna göre Titanyum Kesimi	Sabri Altıntaş	487,34
Tüp Kira Bedeli	Ercan Balıkçı	283,20
İş Elbisesi, İş Önlüğü	Bölüm	312,70
COMSOL Multiphysics	Bölüm	21.688,40
Techsmith Camtasia Studio Edu WIN	Bölüm	598,26
Adobe Acrobat 9 Pro	Bölüm	775,26
Telsiz Telefon	Bölüm	149,86
HP Siyah Toner	Bölüm	442,50
CCD Kamera, Odaklanabilir Çift Gauss Lens	Bölüm	31.860,00
Kırtasiye	Bölüm	1.072,33
Yemek	Bölüm	500,00
Yemek	Bölüm	123,00
Yemek	Bölüm	296,00
Yemek	Bölüm	888,95

### 4.2.3. BAP Alınan Cihaz, Malzeme

Adı	Proje Kodu/ Yürütücüsü	Değeri
Kartuş	BAP- 09HA602P Hasan Bedir	300,90
Kalıp Ayırıcı	BAP-09A601P / Nuri B. Ersoy	92,08
Anakart, Power Supply, Harddisk	BAP-08A604 Kunt Atalık	1.864,40
HP Z800 Workstation Base Unit	BAP-09A603P Şebnem Özüpek	15.517,00
Einhell BT-CH 1000 Zincirli Vinç	BAP-09A604P Emre Köse	441,32
Renkli Toner	BAP-09A604P Emre Köse	409,46
Harici Disk	BAP-09A604P Emre Köse	457,84
Dizüstü Bilgisayar Bataryası	BAP-09A604P Emre Köse	280,84
Dizüstü Bilgisayar, Hard Disk	BAP-09A601P / Nuri B. Ersoy	1.849,06

### ÖZEL ÖĞRENCİ Alınan Malzeme

Adı		Tutar
Kartuş	Bölüm	418,90
Gümrükten Malzeme Çekilmesi	Ercan Balıkçı	531,00
Posta Gönderimi	Bölüm	998,28
Gümrükten Malzeme Çekilmesi	Ercan Balıkçı	336,30

## OTOMOTİV MÜHENDİSLİĞİ Alınan Malzeme

Adı	Tutar
Car Marker/Oficce Standard	Bölüm
	6.490,00

### 4.3. KÜTÜPHANE VE BİLGİ TEKNOLOJİLERİ

2010 yılında BÜ Kütüphanesi yabancı dilde toplam 6.789 yeni kitap satın almıştır; Makina Mühendisliği ile ilgili yeni gelen kitap sayısı 54'dır. Makina ve Teknoloji ile ilgili kitap sayısı: , Makina Mühendisliği ile ilgili kitap sayısı: 2.363. 2010 yılı sonu ile toplam basılı dergi sayısı 576 yabancı dilde, 262 Türkçe olmak üzere toplam 838'dir. Elektronik kitap sayısı 71.200, Makina Mühendisliği ile ilgili e-kitap sayısı 869'dur. Elektronik Dergi sayısı ise 52.520 olup 1.085 adedi Makina Mühendisliği ile ilgilidir.

(Makina Mühendisliği ile ilgili basılı yabancı dilde dergi sayısı 70'dir.)

### 4.4. ARAŞTIRMA ALTYAPISI

Bölümümüzde 7 adet lisans eğitimi ve 7 adet lisansüstü eğitimi araştırma laboratuvarı bulunmaktadır. Bunların kısa dökümü ek 4.4 de verilmiştir.

## 5. GELİŞMELER / DEĞERLENDİRMELER

### 5.1. BİREYSEL GELİŞME

#### 5.1.1. Ödül

#### 5.1.2. Ziyaret, Sabbatical (Gidenler)

#### 5.1.3. Yükselmeler

Ali Ecdar Doçent

#### 5.1.4. Yeni Atamalar

## **5.2. BÖLÜM OLARAK GELİŞME**

### **5.2.1. Yeni Girişimler**

- Renault ile Otomotiv programına öğrenci göndermeleri için görüşmeler yapıldı. 29 mühendis Otomotiv Tezsiz Yüksek Lisans Programında ders almaya başladı.
- Renault ile SANTEZ görüşmeleri yapıldı.
- ENSTA – Paris Tech ile ortak araştırma ve doktora öğrencisi konuları görüşüldü.

### **5.2.2. Mezunlarla Toplantı**

2010 yılında mezunlarımızla toplantı yapılmıştır. Mezunlar BÜMED’de yapılan bir yemekte bir araya gelmişlerdir.

## **5.3. DEĞERLENDİRMELER**

### **5.3.1. Öğrenci ve Mezun Geri Beslemesi ve Üniversite Dışı Algılama**

**Bitirme Anketi :** Bitirme anketleri Haziran 2010 tarihinde mezun olan sınıfla Mühendislik Fakültesi çatı katında yapılan toplantı ve akşam yemeği öncesinde gerçekleştirilmiştir. Anketlerin soruları ektedir. (Ek 5.3.1.b)

**Sınıf Toplantıları :** 2010-2011 Akademik yılı başında hazırlık sınıfına tanıtım toplantısı düzenlenmiştir.