



BURSA ULUDAĞ ÜNİVERSİTESİ
DERS PLAN FORMU-1
ÇİFTANADAL DERS PLANLARI

FR 1.1.1_01

2025-2026 EĞİTİM-ÖĞRETİM YILI

FAKÜLTE/YÜKSEKOKUL/KONSERVATUVAR/MYO : FEN EDEBİYAT FAKÜLTESİ
BÖLÜM/ PROGRAM: FİZİK

I.YARIYIL/GÜZ YARIYILI					*Dersin Durumu	II.YARIYIL/BAHAR YARIYILI					* Dersin Durumu
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
ATA101	ATATÜRK İLKELERİ ve İNKILAP TARİHİ I	2	0	0	2	ATA102	ATATÜRK İLKELERİ ve İNKILAP TARİHİ II	2	0	0	2
TUD101	TÜRK DİLİ I	2	0	0	2	TUD102	TÜRK DİLİ II	2	0	0	2
YAD101	YABANCI DİL I (İNGİLİZCE I)	2	0	0	2	YAD102	YABANCI DİL II (İNGİLİZCE II)	2	0	0	2
YAD111	YABANCI DİL I (ALMANCA I)	2	0	0	2	YAD112	YABANCI DİL II (ALMANCA II)	2	0	0	2
YAD121	YABANCI DİL I (FRANSIZCA I)	2	0	0	2	YAD122	YABANCI DİL II (FRANSIZCA II)	2	0	0	2
FZK1005	MEKANİK	5	0	0	6	FZK1004	ELEKTRİK VE MANYETİZMA	5	0	0	6
FZK1055	MEKANİK LABORATUVARI	0	0	2	2	FZK1054	ELEKTRİK VE MANYETİZMA LABORATUVARI	0	0	2	2
KMY1037	KİMYA I	3	0	0	4	KMY1038	KİMYA II	2	0	0	3
MAT1003	MATEMATİK I	3	2	0	6	KMY1068	KİMYA II LABORATUVARI	0	0	2	1
FZK1007	TEMEL BİLGİSAYAR PROGRAMLARI	2	0	2	4	MAT1004	MATEMATİK II	3	2	0	6
FZK1003	KARİYER PLANLAMA (*)	1	0	0	1	FZK1006	FİZİKTE SAYISAL HESAPLAMALAR I	2	0	2	6
FZK1009	ÜNİVERSİTEDE YAŞAM	1	0	0	1	SEÇMELİ DERSLER	AKTS ALAN İÇİ SEÇMELİ				
							AKTS ALAN DIŞI SEÇMELİ DERS				
							SEÇİLECEK				
	YARIYIL KREDİSİ	20	2	4	30		YARIYIL KREDİSİ	18	2	6	30

III.YARIYIL/GÜZ YARIYILI					*Dersin Durumu	IV.YARIYIL/BAHAR YARIYILI					* Dersin Durumu
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
İSG201	İŞ SAĞLIĞI VE GÜVENLİĞİ	2	0	0	2	İSG202	İŞ SAĞLIĞI VE GÜVENLİĞİ II	2	0	0	2
FZK2005	DALGALAR	5	0	0	6	FZK2006	ATOM VE MOLEKÜL FİZİĞİ	5	0	0	6
FZK2055	DALGALAR LABORATUVARI	0	0	2	2	FZK2056	ATOM MOLEKÜL FİZİĞİ LABORATUVARI	0	0	2	1
FZK2003	FİZİKSEL MATEMATİK I	4	0	0	6	FZK2004	FİZİKSEL MATEMATİK II	4	0	0	6
MAT2485	DİFERANSİYEL DENKLEMLER	3	2	0	6	FZK2008	ELEKTRONİĞE GİRİŞ	4	0	0	5
FZK2007	MESLEKİ YABANCI DİL	2	0	0	2	FZK2058	ELEKTRONİĞE GİRİŞ LABORATUVARI	0	0	2	1
	SEÇMELİ DERSLER						SEÇMELİ DERSLER				
	ALAN İÇİ SEÇMELİ	3	0	0	6		ALAN İÇİ SEÇMELİ	3	0	0	6
	ALAN DIŞI SEÇMELİ						ALAN DIŞI SEÇMELİ	3	0	0	3
	YARIYIL KREDİSİ	20	0	2	30		YARIYIL KREDİSİ	21	0	4	30

V.YARIYIL/GÜZ YARIYILI					*Dersin Durumu	VI.YARIYIL/BAHAR YARIYILI					* Dersin Durumu
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
FZK3009	KUANTUM MEKANİĞİ	5	0	0	6	FZK3006	KATIHAL FİZİĞİNE GİRİŞ	5	0	0	6
FZK3011	İSTATİSTİK FİZİK VE TERMODİNAMİK	5	0	0	6	FZK3056	KATIHAL FİZİĞİNE GİRİŞ LABORATUVARI	0	0	2	1
FZK3151	İSTATİSTİK FİZİK VE TERMODİNAMİK LABORATUVARI	0	0	2	2	FZK3008	NÜKLEER FİZİK	5	0	0	6
FZK3013	KLASİK MEKANİK	5	0	0	6	FZK3058	NÜKLEER FİZİK LABORATUVARI	0	0	2	2
FZK3015	BİLİM ETİĞİ	2	0	0	2	FZK3010	ENDÜSTRİYEL FİZİK	2	0	0	2
	SEÇMELİ DERSLER						SEÇMELİ DERSLER				
	ALAN İÇİ SEÇMELİ	2	0	2	5		ALAN İÇİ SEÇMELİ	3	0	2	5
	ALAN İÇİ SEÇMELİ						ALAN İÇİ SEÇMELİ	3	0	2	5
	ALAN DIŞI SEÇMELİ	3	0	0	3		ALAN DIŞI SEÇMELİ	3	0	0	3
	YARIYIL KREDİSİ	20	0	2	30		YARIYIL KREDİSİ	19	0	8	30

VII.YARIYIL/GÜZ YARIYILI					*Dersin Durumu	VIII.YARIYIL/BAHAR YARIYILI					* Dersin Durumu
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
FZK4011	PROJE ÇALIŞMASI I	4	0	0	6	FZK4012	PROJE ÇALIŞMASI II	4	0	0	6
FZK4009	ELEKTROMANYETİK TEORİ	5	0	0	6						
	SEÇMELİ DERSLER						SEÇMELİ DERSLER				
	ALAN İÇİ SEÇMELİ	3	0	0	6		ALAN İÇİ SEÇMELİ	3	0	0	6
	ALAN İÇİ SEÇMELİ	3	0	0	6		ALAN İÇİ SEÇMELİ	3	0	0	6
	ALAN İÇİ SEÇMELİ	3	0	0	6		ALAN İÇİ SEÇMELİ	3	0	0	6
	ALAN İÇİ SEÇMELİ						ALAN İÇİ SEÇMELİ	3	0	0	6
	ALAN DIŞI SEÇMELİ						ALAN DIŞI SEÇMELİ				
	YARIYIL KREDİSİ	18	0	0	30		YARIYIL KREDİSİ	16	0	0	30

(*) Bu dersin AKTS kredisi, yarıyıl ile mezuniyet toplam AKTS kredi toplamına dahil değildir.

MUAF EDİLECEK DERSLER

ATA101	ATATÜRK İLKELERİ ve İNKILAP TARİHİ I	2	0	0	2
TUD101	TÜRK DİLİ I	2	0	0	2
YAD101	YABANCI DİL I (İNGİLİZCE I)	2	0	0	2
ATA102	ATATÜRK İLKELERİ ve İNKILAP TARİHİ II	2	0	0	2
TUD102	TÜRK DİLİ II	2	0	0	2
YAD102	YABANCI DİL II (İNGİLİZCE II)	2	0	0	2
KIM1037	KİMYA I	3	0	0	4
FZK1003	KARİYER PLANLAMA (*)	1	0	0	1
FZK1009	ÜNİVERSİTEDE YAŞAM	1	0	0	1
KMY1038	KİMYA II	2	0	0	3
KMY1068	KİMYA II LABORATUVARI	0	0	2	1
İSG201	İŞ SAĞLIĞI VE GÜVENLİĞİ I	2	0	0	2

Muaf Edilecek Derslerin AKTS Toplamı : 24
Alması Gereken Derslerin AKTS Toplamı : 216
Toplam AKTS 240

(*) Bu dersin AKTS kredisi, yarıyıl ile mezuniyet toplam AKTS kredi toplamına dahil değildir.

	AKTS
Toplam Seçmeli Ders Kredisi :	78
Toplam Mezuniyet Kredisi :	240
Toplam Seçmeli Ders Kredi Oranı	33%

FACULTY : FACULTY of ARTS & SCIENCE
DEPARTMENT/ PROGRAM : DEPARTMENT OF PHYSICS

I.TERM/FALL SEMESTER						*Type Of Course	II.TERM/SPRING SEMESTER						*Type Of Course
		COURSE HOUR PER WEEK							COURSE HOUR PER WEEK				
CODE	COURSE	T	A	L	ECTS		CODE	COURSE	T	A	L	ECTS	
ATA101	ATATURK'S PRINCIPLES and HISTORY of REVOLUTIONS I	2			2		ATA102	ATATURK'S PRINCIPLES and HISTORY of REVOLUTIONS II	2		2		
TUD101	TURKISH LANGUAGE I	2			2		TUD102	TURKISH LANGUAGE II	2		2		
YAD101	FOREIGN LANGUAGE I (ENGLISH I)	2			2		YAD102	FOREIGN LANGUAGE II (ENGLISH II)	2		2		
YAD111	FOREIGN LANGUAGE I (GERMAN I)	2			2		YAD112	FOREIGN LANGUAGE II (GERMAN II)	2		2		
YAD121	FOREIGN LANGUAGE I (FRENCH I)	2			2		YAD122	FOREIGN LANGUAGE II (FRENCH II)	2		2		
FZK1005	MECHANICS	5	0	0	6		FZK1004	ELECTRICITY AND MAGNETISM	5	0	0	6	
FZK1055	MECHANICS LABORATORY	0	0	2	2	UD	FZK1054	ELECTRICITY AND MAGNETISM LABORATORY	0	0	2	2	
KMY1037	CHEMISTRY I	3	0	0	4		KMY1038	CHEMISTRY II	2	0	0	3	
MAT1003	MATHEMATICS I	3	2	0	6		KMY1068	CHEMISTRY II LABORATORY	0	0	2	1	
FZK1007	BASIC COMPUTER PROGRAMS	2	0	2	4		MAT1004	MATHEMATICS II	3	2	0	6	
FZK1003	CAREER PLANNING (*)	1	0	0	1		FZK1006	NUMERICAL CALCULATIONS IN PHYSICS I	2	0	2	6	
FZK1009	LIFE AT UNIVERSITY	1	0	0	1								
ELECTIVE COURSES							ELECTIVE COURSES						
FIELD COURSE							FIELD COURSE						
NON-FIELD COURSE							NON-FIELD COURSE						
	TERM CREDITS	20	2	4	30			TERM CREDITS	18	2	6	30	

III.TERM/FALL SEMESTER						*Type Of Course	IV.TERM/SPRING SEMESTER						*Type Of Course
		COURSE HOUR PER WEEK						COURSE HOUR PER WEEK					
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS		
ISG201	OCCUPATIONAL HEALTH AND SAFETY I	2	0	0	2		ISG202	OCCUPATIONAL HEALTH AND SAFETY I	2	0	0	2	
FZK2005	WAVES	5	0	0	6		FZK2006	ATOMICS AND MOLECULAR PHYSICS	5	0	0	6	
FZK2055	WAVES LABORATORY	0	0	2	2	UD	FZK2056	ATOMICS AND MOLECULAR PHYSICS LABORATORY	0	0	2	1	
FZK2003	PHYSICAL MATHEMATICS I	4	0	0	6		FZK2004	PHYSICAL MATHEMATICS II	4	0	0	6	
MAT2485	DIFFERENTIAL EQUATIONS	3	1	0	6		FZK2008	INTRODUCTION TO ELECTRONICS	4	0	0	5	
FZK2007	PROFESSIONAL FOREIGN LANGUAGE	2	0	0	2		FZK2058	INTRODUCTION TO ELECTRONICS LABORATORY	0	0	2	1	
ELECTIVE COURSES							ELECTIVE COURSES						
FIELD COURSE							FIELD COURSE						
NON-FIELD COURSE							NON-FIELD COURSE						
	TERM CREDITS	19	2	2	30			TERM CREDITS	21	0	4	30	
V.TERM/FALL SEMESTER						*Type Of Course	VI.TERM/SPRING SEMESTER						*Type Of Course
		COURSE HOUR PER WEEK						COURSE HOUR PER WEEK					
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS		
FZK3009	QUANTUM MECHANICS	5	0	0	6		FZK3006	INTRODUCTION TO SOLID STATE PHYSICS	5	0	0	6	
FZK3011	STATISTICAL PHYSICS AND THERMODYNAMICS	5	0	0	6		FZK3008	NUCLEAR PHYSICS	5	0	0	6	
FZK3151	STATISTICAL PHYSICS AND THERMODYNAMICS LABORATORY	0	0	2	2	UD	FZK3056	INTRODUCTION TO SOLID STATE PHYSICS LABORATORY	0	0	2	1	
FZK3013	CLASSICAL MECHANICS	5	0	0	6		FZK3058	NUCLEAR PHYSICS LABORATORY	0	0	2	2	
FZK3015	ETHICS OF SCIENCE	2	0	0	2		FZK3010	INDUSTRIAL PHYSICS	2	0	0	2	
ELECTIVE COURSES							ELECTIVE COURSES						
FIELD COURSE							FIELD COURSE						
NON-FIELD COURSE							NON-FIELD COURSE						
	TERM CREDITS	20	0	2	30			TERM CREDITS	19	0	8	30	
VII.TERM/FALL SEMESTER						*Type Of Course	VIII.TERM/SPRING SEMESTER						*Type Of Course
		COURSE HOUR PER WEEK						COURSE HOUR PER WEEK					
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS		
FZK4011	PROJECT WORK I	4	0	0	6		FZK4012	PROJECT WORK II	4	0	0	6	
FZK4009	ELECTROMAGNETIC THEORY	5	0	0	6								
ELECTIVE COURSES							ELECTIVE COURSES						
FIELD COURSE							FIELD COURSE						
FIELD COURSE							FIELD COURSE						
FIELD COURSE							FIELD COURSE						
FIELD COURSE							FIELD COURSE						
NON-FIELD COURSE							NON-FIELD COURSE						
	TERM CREDITS	18	0	0	30			TERM CREDITS	16	0	0	30	

the total

Prof.Dr. Nilgün DEMİR

.../.../2025

EXEMPTED COURSES					
ATA101	ATATURK'S PRINCIPALS and HISTORY of REVOLUTIONS I	2	0	0	2
TUD101	TURKISH LANGUAGE I	2	0	0	2
YAD101	FOREIGN LANGUAGE I (ENGLISH I)	2	0	0	2
ATA102	ATATURK'S PRINCIPALS and HISTORY of REVOLUTIONS II	2	0	0	2
TUD102	TURKISH LANGUAGE II	2	0	0	2
YAD102	FOREIGN LANGUAGE II (ENGLISH II)	2	0	0	2
KMY1037	CHEMISTRY I	3	0	0	4
FZK1009	LIFE AT UNIVERSITY	1	0	0	1
FZK1003	CAREER PLANNING (*)	1	0	0	1
KIM1038	CHEMISTRY II	2	0	0	3
KMY1068	CHEMISTRY II LABORATORY	0	0	2	1
ISG201	HEALTHY AND SAFETY I	2	0	0	2

ECTS Total of Courses to be Exempted: 24
ECTS Total of the Courses to be Taken: 216
Total ECTS: 240

(*) Bu dersin AKTS kredisi, yayınlı ile mezuniyet toplam AKTS kredi toplamına dahil değildir

of Exempted
of the
Courses 78
240

Total
ECTS:

33%



BURSA ULUDAĞ ÜNİVERSİTESİ
ÇİFTANADAL DERS PLAN FORMU-2
SEÇMELİ DERSLER LİSTESİ

FR 1.1.1_01

2025-2026 EĞİTİM-ÖĞRETİM YILI

FAKÜLTE/YÜKSEKOKUL/KONSERVATUVAR/MYO : FEN EDEBİYAT FAKÜLTESİ

BÖLÜM/ PROGRAM : FİZİK BÖLÜMÜ

I.YARIYIL/GÜZ						* Dersin Durumu	II.YARIYIL/BAHAR						* Dersin Durumu
ALAN İÇİ SEÇMELİ DERSLER					HAFTALIK DERS SAATİ		ALAN İÇİ SEÇMELİ DERSLER				HAFTALIK DERS SAATİ		
KOD	DERSİN ADI	K	U	L	AKTS		KOD	DERSİN ADI	K	U	L	AKTS	
ALAN DIŞI SEÇMELİ DERSLER						ALAN DIŞI SEÇMELİ DERSLER							

III.YARIYIL/GÜZ						* Dersin Durumu	IV.YARIYIL/BAHAR						* Dersin Durumu
ALAN İÇİ SEÇMELİ DERSLER					HAFTALIK DERS SAATİ		ALAN İÇİ SEÇMELİ DERSLER				HAFTALIK DERS SAATİ		
KOD	DERSİN ADI	K	U	L			AKTS	KOD	DERSİN ADI	K		U	
FZK2407	AKIŞKANLAR MEKANİĞİ	3	0	0	6	IMD	FZK2416	MALZEME KARAKTERİZASYON TEKNİKLERİ	3	0	0	6	IMD
FZK2409	TERMODİNAMİĞE GİRİŞ	3	0	0	6	IMD	FZK2420	FİZİK TARİHİ	3	0	0	6	IMD
FZK2411	MALZEME FİZİĞİ	3	0	0	6.0	IMD	MAT2498	FİZİKSEL LİNEER CEBİR	3	0	0	6	IMD
ALAN DIŞI SEÇMELİ DERSLER							ALAN DIŞI SEÇMELİ DERSLER						
	ALAN DIŞI SEÇMELİ I							ALAN DIŞI SEÇMELİ I	3	0	0	3	
	ALAN DIŞI SEÇMELİ II							ALAN DIŞI SEÇMELİ II					

V.YARIYIL/GÜZ						* Dersin Durumu	VI.YARIYIL/BAHAR						* Dersin Durumu
ALAN İÇİ SEÇMELİ DERSLER					ALAN İÇİ SEÇMELİ DERSLER								
KOD	DERSİN ADI	K	U	L	AKTS		KOD	DERSİN ADI	K	U	L	AKTS	
FZK3409	FİZİKTE SAYISAL HESAPLAMALAR II	2	0	2	7.0	IMD	FZK3418	SONLU ELEMANLAR YÖNTEMİ	3	0	2	6	IMD
FZK3411	SAYISAL ELEKTRONİK	2	0	2	7.0	IMD	FZK3416	MANYETİZMA VE UYGULAMALARI	3	0	2	6	IMD
FZK3413	ENERJİ DEPOLAMA SİSTEMLERİ	2	0	2	7.0	IMD	FZK3412	ELEKTRONİK	3	0	2	6	IMD
							FZK3414	AKUSTİK ve OPTİK	3	0	2	6	IMD
ALAN DIŞI SEÇMELİ DERSLER							ALAN DIŞI SEÇMELİ DERSLER						
	ALAN DIŞI SEÇMELİ I	3	0	0	3			ALAN DIŞI SEÇMELİ I	3	0	0	3	
	ALAN DIŞI SEÇMELİ II							ALAN DIŞI SEÇMELİ II					

VII.YARIYIL/GÜZ						* Dersin Durumu	VIII.YARIYIL/BAHAR						* Dersin Durumu
ALAN İÇİ SEÇMELİ DERSLER					HAFTALIK DERS SAATİ		ALAN İÇİ SEÇMELİ DERSLER				HAFTALIK DERS SAATİ		
KOD	DERSİN ADI	T	U	L			AKTS	KOD	DERSİN ADI	T		U	
FZK4107	FİZİKTE İSTATİSTİK YÖNTEMLER	3	0	0	6.0	IMD	FZK4102	RADYASYON FİZİĞİ	3	0	0	6.0	IMD
FZK4203	SENSÖRLER	3	0	0	6.0	IMD	FZK4104	YARIİLETKEN FİZİĞİ	3	0	0	6.0	IMD
FZK4205	OPTOELEKTRONİK	3	0	0	6.0	IMD	FZK4110	YOĞUN MADDE FİZİĞİ	3	0	0	6.0	IMD
FZK4207	MANYETİK REZONANS	3	0	0	6.0	IMD	FZK4202	GÜNEŞ ENERJİSİ	3	0	0	6.0	IMD
FZK4213	TEMEL PARÇ.FİZİĞİNE GİRİŞ	3	0	0	6.0	IMD	FZK4204	FİZİKTE KALİTE KONTROL YÖNTEMLERİ	3	0	0	6.0	IMD
FZK4215	NÖTRON FİZİĞİ	3	0	0	6.0		FZK4206	DENEYSEL YÜKSEK ENERJİ FİZİĞİ	3	0	0	6.0	IMD
FZK4217	NANO TEKNOLOJİYE GİRİŞ	3	0	0	6.0		FZK4208	KRİSTAL YAPI VE ANALİZ TEKNİĞİ	3	0	0	6.0	IMD
							FZK4214	NÜKLEER TIP FİZİĞİ	3	0	0	6.0	IMD
							FZK4216	SAĞLIK FİZİĞİ	3	0	0	6	IMD
ALAN DIŞI SEÇMELİ DERSLER							ALAN DIŞI SEÇMELİ DERSLER						
	ALAN DIŞI SEÇMELİ I							ALAN DIŞI SEÇMELİ I					
	ALAN DIŞI SEÇMELİ II							ALAN DIŞI SEÇMELİ II					



BURSA ULUDAĞ UNIVERSITY
CURRICULUM FORM-2
ELECTIVE COURSES LIST

FR 1.1.1_01

2025-2026 ACADEMIC YEAR

FACULTY : FACULTY OF SCIENCE
DEPARTMENT/PROGRAM : PHYSICS

FACULTY : FACULTY AND SCIENCE
DEPARTMENT/PROGRAM : PHYSICS

I TERM/FALL SEMESTER						*Type Of Course	II TERM/SPRING SEMESTER						*Type Of Course
COURSES IN THE FIELD							COURSES IN THE FIELD						
CODE	COURSE	T	A	L	ECTS		CODE	COURSE	T	A	L	ECTS	
COURSES OUT OF FIELD							COURSES OUT OF FIELD						

III.TERM/FALL SEMESTER						*Type Of Course	IV.TERM/SPRING SEMESTER						*Type Of Course
COURSES IN THE FIELD							COURSES IN THE FIELD						
CODE	COURSE	T	A	L	ECTS		CODE	COURSE	T	A	L	ECTS	
FZK2407	FLUID MECHANICS	3	0	0	6	IMD	FZK2416	MATERIAL CHARACTERIZATION TECHNIQUES	3	0	0	6	IMD
FZK2409	INTRODUCTION TO THERMODYNAMICS	3	0	0	6	IMD	FZK2420	HISTORY OF PHYSICS	3	0	0	6	IMD
FZK2411	MATERIAL PHYSICS	3	0	0	6.0	IMD	MAT2498	PHYSICAL LINEAR ALGEBRA	3	0	0	6	IMD
						IMD							
COURSES OUT OF FIELD							COURSES OUT OF FIELD						
	NON-FIELD COURSE I							NON-FIELD COURSE I	3	0	0	3	
	NON-FIELD COURSE II							NON-FIELD COURSE II					

V.TERM/FALL SEMESTER						*Type Of Course	VI.TERM/SPRING SEMESTER						*Type Of Course
COURSES IN THE FIELD							COURSES IN THE FIELD						
CODE	COURSE	T	A	L	ECTS		CODE	DERSİN ADI	T	A	L	ECTS	
FZK3409	NUMERICAL CALCULATIONS IN PHYSICS II	2	0	2	7.0	IMD	FZK3418	FINITE ELEMENTS METHOD	3	0	2	6	IMD
FZK3411	DIGITAL ELECTRONICS	2	0	2	7.0	IMD	FZK3416	MAGNETISM AND APPLICATIONS	3	0	2	6	IMD
FZK3413	ENERGY STORAGE SYSTEMS	2	0	2	7.0	IMD	FZK3412	ELECTRONICS	3	0	2	6	IMD
							FZK3414	ACUSTICS AND OPTICS	3	0	2	6	IMD
COURSES OUT OF FIELD							COURSES OUT OF FIELD						
	NON-FIELD COURSE I	3	0	0	3			NON-FIELD COURSE I	3	0	0	3	
	NON-FIELD COURSE II							NON-FIELD COURSE II					

VII.TERM/FALL SEMESTER						*Type Of Course	VIII.TERM/SPRING SEMESTER						*Type Of Course
COURSES IN THE FIELD							COURSES IN THE FIELD						
CODE	COURSE	T	A	L	ECTS		CODE	COURSE	T	A	L	ECTS	
FZK4107	STATISTICAL METHODS IN PHYSICS	3	0	0	6.0	IMD	FZK4102	RADIATION PHYSICS	3	0	0	6.0	IMD
FZK4203	SENSORS	3	0	0	6.0	IMD	FZK4104	SEMICONDUCTOR PHYSICS	3	0	0	6.0	IMD
FZK4205	OPTOELECTRONICS	3	0	0	6.0	IMD	FZK4110	CONDENSED MATTER PHYSICS	3	0	0	6.0	IMD
FZK4207	MAGNETIC RESONANCE	3	0	0	6.0	IMD	FZK4202	SOLAR ENERGY	3	0	0	6.0	IMD
FZK3403	INTRODUCTION TO THE ELEMANTARY PARTICLE PHYSI	3	0	0	6.0	IMD	FZK4204	QUALITY CONTROL METHODS IN PHYSICS	3	0	0	6.0	IMD
FZK3405	NEUTRON PHYSICS	3	0	0	6		FZK4206	EXPERIMENTAL HIGH ENERGY PHYSICS	3	0	0	6.0	IMD
FZK4217	INTRODUCTION TO NANOTECHNOLOGY	3	0	0	6		FZK4208	CRYSTAL STRUCTURE AND ANALYSIS TECHNIQUES	3	0	0	6.0	IMD
							FZK4214	NUCLEAR MEDICAL PHYSICS	3	0	0	6.0	IMD
							FZK4216	HEALTH PHYSICS	3	0	0	6	IMD
COURSES OUT OF FIELD							COURSES OUT OF FIELD						
	NON-FIELD COURSE I							NON-FIELD COURSE I					
	NON-FIELD COURSE II							NON-FIELD COURSE II					

