INTRODUCTION TO ACCELERATOR PHYSICS											
1	Course Title:	INTROD	DUCTION TO ACCELERATOR PHYSICS								
2	Course Code:	FZK5607	7								
3	Type of Course:	Optional									
4	Level of Course:	Second (Cycle								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Prof. Dr.	NİLGÜN DEMİR								
15	Course Lecturers:	Prof.Dr. I	Nilgün DEMİR								
16	Contact information of the Course Coordinator:	Prof.Dr. I E-mail: d İş Tel:02 Bursa UI 16059 G	Nilgün DEMİR nilgun@uludag.edu.tr, 24 2941702 udağ Üniversitesi Fen Edebiyat Fakültesi, Fizik Bölümü örükle Kampüsü Bursa, Türkiye								
17	Website:										
18	Objective of the Course:	The aim teach the	of the course is to investigate variety of accelerators and to e principle of work.								
19	Contribution of the Course to Professional Development:	The acce physics.(systems	elerators are the most important system at the high energy Graduate students have the opportunity to learn accelerator with this course.								
20	Learning Outcomes:										
		1	The student learns the new technologies and can make to different designs.								
		2	The student can learn the affective of electrical and magnetic field on the particles								
		3	The student knows how to make scientific research by means of homeworks.								
		4	The student knows the basic concept of accelerators.								
		5	The student will have information on beam dynamics								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
		Co	urse Content:								
Week			Practice								
1	I ne historical development of accele	rators									
2	Introduce to relativity	tioles 's									
3	electrical and magnetic fields	ucies in									

4	Maxw electri	ell e cal a	equati and n	ions, n nagne	notior tic fie	n of the Ids	partic	les in												
5	The ty in the	e types of accelerator, linacs and examples he world																		
6	Circul	ar a	ccele	rators																
7	The c	omp	ositic	ons of	accel	erators	;													
8	The fe	eatu	res of	f acce	lerato	r's cavi	ities													
9	The m	nagr	nets																	
10	Other	con	npone	ents in	the a	cceler	eators													
11	Linee	rano	d non	linee	r stua	tions														
12	Linee	rano	d non	linee	r stua	tions														
13	Trans	vers	e an	d long	itudina	ally mo	tion													
14	The a	pplio	catior	n of ac	celera	ators														
22	Textb	ooks	s. Re	ferenc	es an	d/or Ot	ther		S.	Y.Lee.	Accele	erator Pl	hvsics.	World	scientif	C.				
	Mater	ials:	-, -						L.	\ A /' = 1 =		Destitute	, , , , , , , , , , , , , , , , , , ,							
									н. Sp	H. Wiedemann, Particle Accelerator Physics third edition, Springer.										
									CE	CERN Accelerator School Proceedings										
										Gottfried, Kurt Weisskopf, Victor F. Concepts of Particle Physics, Oxford University press										
Activit	Activites								_ Cr 	Chao. Alexander Wu(Editor). A Number Dura					Accelerator Physics. ation (hour) Total Load					
Theore	tical								htt	http4//www.lns.cornell.ed				ff/LEĆ	TURE	\$42000SPAS/				
Practic	L als/Lat)S								0				0.00 0.00						
Self Stu	Self study and preparation									14						42.00				
Homew	TERM LEARNING ACTIVITIES INUMRE									14						56.00				
Midtect	ng Exan	n					0		0.0	0.00						0.00				
Field S	Studies										0					0.00				
Mødtern	ternvækapnoject 1									30000						0.00				
Others	hers									1				ľ		12.00				
Fiotal E	Exams 2									0.00			28.00)		28.00				
Total W	Vork Lo	ad														180.00				
Succes Total w	uccess Grade otal work load/ 30 hr															6.00				
ECTS (ECTS Credit of the Course															6.00				
Total	Ital										100.00									
Measu Course	rement	and	d Eva	luatio	n Tec	hnique	s Use	d in th	e Th	e syste	em of r	elative e	evaluat	ion is a	applied.					
24	ECT	S / '	WO	RKL	OAD	TAB	LE													
25				CON	TRIE	BUTIO	N OI	LE/ م	ARN Qua	ling (Lific	OUTC ATIO	COMES	S TO I	PROC	GRAM	ME				
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	3	;	3	0	0	4	0	0	0	0	0	4	0	0	0	0	0			
ÖK2	4	4 0 0 0 0 0 0 0							0	0	0	0	0	0	0	0	0			
										1				L		1				

ÖK3	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0
ÖK5	0	0	0	4	0	0	0	0	0	0	3	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	b 1 very low		2 low		3 Medium		4 High		5 Very High							