	ADVANCED	EXE	RCISE PHYSIOLOGY					
1	Course Title:	ADVANO	CED EXERCISE PHYSIOLOGY					
2	Course Code:	BED511	0					
3	Type of Course:	Optional						
4	Level of Course:	Second	Cycle					
5	Year of Study:	1						
6	Semester:	2						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	2.00						
9	Practice (hour/week):	0.00						
10	Laboratory (hour/week):	0						
11	Prerequisites:	none						
12	Language:	Turkish						
13	Mode of Delivery:	Face to	face					
14	Course Coordinator:	Prof. Dr.	Şerife VATANSEVER					
15	Course Lecturers:	Prof. Dr	. Şerife VATANSEVER					
16	Contact information of the Course	serife@u	uludag.edu.tr					
	Coordinator:	U.Ü Spo	r Bilimleri Fakültesi					
17	Website:							
18	Objective of the Course:	To intoduce the cell-tissue –organs and the systems that make up the human body  To explain and implement how the energy sources come into being in the long and short terms, the effects of physical efforts on yhe respiratory-circulatory-nerves system and other systems in various circumstances  To teach the effects and the practice of the physical changes that come into being under various circumstances  To compare the effects of the long term adaptations to training sessions on the systems						
19	Contribution of the Course to Professional Development:	To follow	v current developments in exercise physiology					
20	Learning Outcomes:							
		1	To establish a relationship between exercise and physiology					
		2	To define the exercise physiology					
		3	To explain the basic fields of the exercise and physiology					
		4	To establish a link between the basic fields of exercise physiology and those of physiology education and sports					
		5	To be able to use the tools that are necessary for the exercise physiology practices					
		6	To compare the basic areas of exercise physiology and those training knowledge					
		7	To comprehend the basics between the exercise physiology practices and those of the training science					
		8	To be able to explain energy metabolism					

		9	To explain the adaptation of the exercise						
		10	Explain the relationship between exercise physiology and performance						
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Introduction of cell muscle tissue and organelles								
2	Energy systems (phosphogen, lactic a aerobic).	acid,							
3	Energy production during aerobic and anaerobic exercises and recovery per								
4	Muscle tissue, general characteristics skeletal Muscle tissue, general characteristics of skeletal muscle and functions, district of fibers in muscle, and effects on sporperformance	cteristics ribution							
5	Muscle contraction types (isometric, concentric, isotonic, isokinetic contractand movement samples	ctions)							
6	Cardiovascular system and functions structure of heart and blood vessels a functions, Chronic responses of cardiovascular system to different typ	and							
Activit	es		Number	Duration (hour)	Total Work Load (hour)				
Theore	tical		14	2.00	28.00				
	als/Labs		0	0.00	0.00				
Self stu	Endocrine system, functions of glands dy and preperation their normones, general hormonal res	s ano sponse	14	3.00	42.00				
Homew	orks or the state of the state		4	5.00	20.00				
Pr <b>bje</b> ct	Exercise in different conditions (therm	nal	0	0.00	0.00				
Field St			0	0.00	0.00				
Mindzern	<b>Fexiagms</b> and recovery in Sport		1	10.00	10.00				
Others			0	0.00	0.00				
Final E	Coservation of training adaptation adaptatio	aptation	1	20.00	20.00				
Total W	/ork Load				120.00				
Tolal w	Observation of training adaptation ad	aptation			4.00				
ECTS (	Credit of the Course				4.00				

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterm Exam	1	40.00						
Quiz	0	0.00						
Home work-project	0	0.00						
Final Exam	1	60.00						
Total	2	100.00						
Contribution of Term (Year) Learning Activities Success Grade	es to	40.00						
Contribution of Final Exam to Success Grade	)	60.00						
Total		100.00						
Measurement and Evaluation Techniques Us Course	ed in the	Project, Seminar and classic exam						

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	0	0	0	3	0	4	0	3	0	0	0	0	0	0	0
ÖK2	2	4	0	5	0	3	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	3	4	3	0	3	0	0	4	0	0	0	2	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	4	0	4	4	0	5	0	0	0	0	0	0	0	0	0	0
ÖK8	4	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contrib ution Level:	1	very		т	ning C	bjec	1	s P Medi			m Qu 4 Higl	alifica	tions		y High	