COURSE INFORMATON							
Course Title	Code	Semester	L+P+L Hour	Credits	ECTS		
Exercise Physiology(Clinical Clerkship)	MED 452	Phase 4/7-8	10 + 22 + 0	2	2*		

<sup>\*</sup> ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites	Students apply to this course in their 4rd year of faculty of medicine.	
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Language of Instruction	Turkish		
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)		
Course Type	ea Elective		
Course Coordinator	Prof. Dr. Mehtap Kaçar		
Instructors	Prof. Dr. Bayram Yılmaz Prof. Dr. Mehtap Kaçar		
Assistants			
Goals	The goals of exercise physiology are to understand how bodily functions are changed and affected by some type of physical activity, to enhance students' knowledge across a broad range of exercise science topics including strength and conditioning, clinical exercise physiology, exercise psychology and the link to overall health.		
This course focuses on how work tissues, organs, and bodily during exercise to maintain life, how a person's body withst conforms to physical activity, and how bodily functions are affected by some type of physical activity. Content of this concludes the benefits and risks of exercise, and prescribing preventive and therapeutic aims. Exercise tests are carried determine important aspects of a patient's health such as concluded and respiratory strength, body composition, and			

<b>Learning Outcomes</b> After participating in this course, students should be able to	Programme Learning Outcomes	Teaching Methods	Assessmen t Methods
Perform and analyse anthropometric and body composition assessments	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C
2) Evaluate of muscular strength, muscular endurance and flexibility.	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C

3) Conduct and interpret cardiorespiratory fitness tests	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C
4) Prescribe and implement exercise programs for patients and healthy person	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C
5) Apply assessment protocols and pre-participation health screening procedures to maximize patients safety and minimize risk.	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C
6) Define and explain benefits and risks of exercise	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C
7) Define and explain FITT principle for prescribing exercise	1.1.1, 1.1.2, 1.1.6, 1.1.11, 1.3.1; 1.5.1; 1.6.1; 2.4.1; 3.1.1; 3.3.1- 3.3.3	1,2,3,4,5	A,B,C

Teaching Methods:	1-Lecture; 2-Team Work; 3-Case Study, 4-Discussion Hours, 5-Practical applying
Assessment Methods:	A: Presentation, B: Homework, C: Project

	COURSE CONTENT				
Day	Topics	Study Materials			
1	Introduction and Overview				
1	Anthropometric measurements and body composition				
2	Principles of cardiorespiratory fitness tests				
2	Other tests in exercise physiology				
2	FITT principles in exercise program				
3	Principles of prescribing exercise				
3	Principles of prescribing exercise				
3	Preventive approach for healthy life and aging				
4	Benefits and risks of exercise				

4	Benefits and risks of exercise	
5	FINAL EXAM	

	RECOMMENDED SOURCES
Textbook	Sport and Exercise Medicine An Essential Guide, Edited By David Eastwood, Dane Vishnubala, 2023 ISBN 9781032017624 ACSM's Guidelines for Exercise Testing and Prescription, American College of Sports Medicine, Editor:Linda S. Pescatello
Additional Resources	Lecture notes

MATERIAL SHARING		
Documents	Google Classroom	
Assignments	Google Classroom	

ASSESSMENT			
IN-COURSE STUDIES	NUMBER	PERCENTAGE	
Class and Laboratory Performance	1	40	
Homework	1	30	
Practical applying	1	30	
Total		100	
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		50	
CONTRIBUTION OF IN-COURSE STUDIES TO OVERALL GRADE		50	
Total		100	

COURSE CATEGORY Expertise/Field Courses	
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COURSE'S CONTRIBUTION TO PROGRAM									
	PODG.1. Basic Professional Competencies			Contribution					
	POD.1.1. Clinical Competencies	1	2	3	4	5			
PO.1.1.1.	values preventive health services, offers primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, provides consultancy on these issues.					Х			

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PO.1.1.2.	<b>employs</b> a patient-centered approach in patient management.				X	
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their					
PO.1.1.4.	emergence mechanisms in clinical conditions.					
	<b>takes</b> medical history from the applicant himself/herself or from the individual's companions.					
PO.1.1.5.	<b>does</b> general and focused physical and mental examination.					
PO.1.1.6.	<b>interprets</b> findings in medical history, physical and mental examination.			X		
PO.1.1.7.	<b>employs</b> diagnostic procedures that are used frequently at the primary health care level.					
PO.1.1.8.	<b>selects</b> tests that have evidence-based high efficacy at the primary health care level and <b>interprets</b> results.					
PO.1.1.9.	makes clinical decisions using evidence-based					
PO.1.1.10.	systematic data in health care service.  performs medical interventional procedures that are					
PO.1.1.10.	used frequently at the primary health care level.					
PO.1.1.11.	manages healthy individuals and patients in the context	<del>                                     </del>		<b>X</b> 7		
	of health care services.			X		
PO.1.1.12.	<b>keeps</b> medical records in health care provision and					
	uses information systems to that aim.					
	POD.1.2. Competencies related to Communication					
PO.1.2.1.	throughout his/her career, communicates effectively					
	with health care beneficiaries, co-workers,					
	accompanying persons, visitors, patient's relatives, care					
	givers, colleagues, other individuals, organizations and					
	institutions.					
PO.1.2.2.	collaborates as a team member with related					
	organizations and institutions, with other professionals and health care workers, on issues related to health.					
PO.1.2.3.	recognizes the protection and privacy policy for health					
F 0.1.2.3.	care beneficiaries, co-workers, accompanying persons and visitors.					
PO.1.2.4.	<b>communicates</b> with all stakeholders taking into consideration the socio-cultural diversity.					
	POD.1.3. Competencies Related to Leadership and Management					
PO.1.3.1.	manages and leads within the health care team in primary health care organization.	x				
PO.1.3.2.	<b>recognizes</b> the principles of health management and					
	health sector economy, models of organization and financing of health care services.					
PO.1.3.3.	<b>recognizes</b> the resources in the health care service, the					
	principles for cost-effective use.					
	POD.1.4. Competencies related to Health Advocacy					
PO.1.4.1.	recognizes the health status of the individual and the					
	community and the factors affecting the health,					
	<b>implements</b> the necessary measures to prevent effects					
DO 1 1 2	of these factors on the health.	-				
PO.1.4.2.	<b>recognizes</b> and <b>manages</b> the health determinants including conditions that prevent access to health care.					
	POD.1.5. Competencies related to Research					
PO.1.5.1.	develops, prepares and presents research projects	X				
	POD.1.6. Competencies related to Health					
	Education and Counseling					

PO.1.6.1.	<b>provides</b> consultancy services and <b>organizes</b> health		X		
	education for the community to sustain and promote the				
	health of individual and community.  PODG.2. Professional Values and Perspectives				
	POD.2.1. Competencies related to Law and				
	Legal Regulations				
PO.2.1.1.	<b>performs</b> medical practices in accordance with the legal				
	framework which regulates the primary health care service.				
	POD.2.2. Competencies Related to Ethical				
	Aspects of Medicine				
PO.2.2.1.	recognizes basic ethical principles completely, and				
PO.2.2.2.	distinguishes ethical and legal problems.  pays importance to the rights of patient, patient's				
I GILILILI	relatives and physicians, and <b>provides</b> services in this context.				
	POD.2.3. Competencies Related to Social and Behavioral Sciences				
PO.2.3.1.	relates historical, anthropological and philosophical				
	evolution of medicine, with the current medical practice.				
PO.2.3.2.	<b>recognizes</b> the individual's behavior and attitudes and factors that determine the social dynamics of the				
	community.				
	POD.2.4. Competencies Related to Social				
	Awareness and Participation				
PO.2.4.1.	<b>leads</b> community with sense of responsibility, behavior and attitudes in consideration of individual behaviors			X	
	and social dynamics of the community, and if there is a				
	necessity, <b>develops</b> projects directed towards health				
	care services.				
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors				
PO.2.5.1.	displays a patient-centered and holistic				
	(biopsychosocial) approach to patients and their				
PO.2.5.2.	problems.  respects patients, colleagues and all stakeholders in				
PU.2.5.2.	health care delivery.				
PO.2.5.3.	displays the proper behavior in case of disadvantaged				
	groups and situations in the community.				
PO.2.5.4.	<b>takes</b> responsibility for the development of patient safety and healthcare quality.				
PO.2.5.6.	evaluates own performance as open to criticism,				
	realizes the qualifications and limitations.				
	PODG.3. Personal Development and Values				
PO.3.1.1.	<b>embraces</b> the importance of lifelong self-learning and <b>implements</b> .				
PO.3.1.2.	embraces the importance of updating knowledge and	X			
*	skills; <b>searches</b> current advancements and <b>improves</b>				
	own knowledge and skills.				
PO.3.1.3.	<b>uses</b> English language at least at a level adequate to follow the international literature and to establish				
	communication related to the profession.				
	POD.3.2. Competencies Related to Career				
	Management				
PO.3.2.1.	<b>recognizes</b> and <b>investigates</b> postgraduate work				
	domains and job opportunities.				
PO.3.2.2.	recognizes the application requirements to postgraduate work/job domains, and distinguishes and				

PO.3.2.3.	<b>prepares</b> a resume, and <b>recognizes</b> job interview methods.			
	POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health			
PO.3.3.1.	implements the rules of healthy living.			X
PO.3.3.2.	<b>displays</b> appropriate behavior specific to work under stressful conditions.			X
PO.3.3.3.	<b>uses</b> self-motivation factors.			X

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION							
Activities	Quantity	Duration (Hour)	Total Workload (Hour)				
Lecture	10	1	10				
Practical applying	11	2	22				
Hours for off-the-classroom study (Pre-study, reinforcement, homework, project)	12	2	24				
Final	1	2	2				
Total Work Load			58				
Total Work Load / 30 (h)			1.93				
ECTS Credit of the Course			2				