

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Hereditary Dis	seases						
Course Code		TL071		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	54 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To learn the causes, symptoms, diagnosis, treatment of inherited diseases and have knowledge about prevention.							
Course Content		poligenic defe	cts, polyploidy diseases cau	y, aneuploidy sed by mutat	, trisomi ty ion in gene	pes of somatic	chromoson	somal, monogeniones, sex chromoso eases, clinical labo	me
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Discussion	on, Case St	udy, Problem Solv	ing	
Name of Lecturer(s)		Ins. Adem KE	SKİN, Ins. Tu	ğçe OKTAV					

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	40					
Final Examination	1	70					

Recommended or Required Reading							
1	Klug, W.S. and Cummings, M.R. 2002. Genetik Kavramlar. Palme yayınevi, Ankara, 816 s.						
2	 Başaran, A. 2010. Tıbbi Biyoloji, Ders kitabı. Pelikan yayıncılık, Ankara. 584 s. Bozcuk, A.N. 2000. Genetik. Palme yayıncılık, Ankara, 320 s 						
3							
4	Campbell, N.A. and Reece, J.B. 2008. Biyoloji. Palme yayıncılık, Ankara, 1247 s.						

Week	Weekly Detailed Course Contents					
1	Theoretical	The terms of genetic and heredity				
2	Theoretical	Chromosomes				
3	Theoretical	Mutation				
4	Theoretical	Chromosomal, monogenic and poligenic defects				
5	Theoretical	Changes in chromosome number: Polyploidy, aneuploidy				
6	Theoretical	Trisomi types of somatic chromosomes: Patau syndrome, Edward syndrome, Down syndrome				
7	Theoretical	Sex chromosome aneuploidies: Turner syndrome, Klinefelter syndrome, Jacobs syndrome				
8	Intermediate Exam	Midterm				
9	Theoretical	Autosomal Dominant Diseases: Huntington's disease, Marfan Syndrome				
10	Theoretical	Autosomal Recessive Diseases: Phenolketonuria, Tay-Sacs Disease				
11	Theoretical	Autosomal Recessive Diseases: SMA (Spinal Muscular Atrophy)				
12	Theoretical	Sex-linked inherited diseases				
13	Theoretical	Diseases Related to X Chromosome				
14	Theoretical	Diseases Related to Y Chromosome				
15	Theoretical	Diseases Related to X and Y Chromosomes				

Workload Calculation							
Activity	Quantity	Preparation		Duration	Total Workload		
Lecture - Theory	14		0	2	28		
Individual Work	12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	0.5	18		
Midterm Examination	1		3	1	4		
Final Examination	1		3	1	4		
Total Workload (Hours)							
	2						
*25 hour workload is accepted as 1 ECTS							



Learning Outcomes 1 To learn the terms belong to genetic and heredity. 2 To learn mutation and mutagens. 3 To learn chromosomal inherited diseases . 4 To learn inherited diseases related to gene mutation. 5 To learn diagnosis, treatment process of inherited diseases and preventation .

Programme Outcomes (Physiotherapy)

- To be able to recall the information of research methods and statistics so as to follow the developments, monitor and interpret scientific literature
- To have the appropriate knowledge of basic sciences at the level of interest, to use specific medical terms and terminology of physical therapy
- To be able to recall knowledge of the general structure and proporties of musculoskeletal system and the joints and to evaluate the story of musculoskeletal diseases.
- 4 To be able to comprehend the methods of measurement of the range of motion of joints and to measure it.
- 5 To be able implement a general evaluation of posture analysis and gait analysis.
- To be able to recall the knowledge about general characteristics of musculoskeletal diseases, osteoporosis, osteoarthritis, rheumatoid arthritis, ankylosing spondylitis, especially rheumatic diseases, mechanical low back and neck pain, disc herniation, soft tissue disorders and to apply appropriate physiotherapy.
- To be able to recall the knowledge and gain skills about the devices and the agents of heater used in physical therapy, indications and contraindications of using, and the necessary information about how to apply on patients.
- 8 To be able to recall the knowledge of the electromagnetic field.
- To be able to recall what Elektroakapunktur, Laser, Biofeedback, cervical and lumbar traction systems, pneumatic compression therapy are, and how to apply them, which one is applicable to patients.
- 10 To be able to recall what manipulation-mobilization is and which patients are suitable for this application.
- 11 To be able to recall what massage and hydrotherapy treatments are and which patients are suitable for these applications.
- To be able to gain the professional and ethical awareness, apply gained knowledge and skills in reallife situations and transfer gained knowledge to individuals around her/his environment, and improve behavior of life-long learning.
- 13 To gain knowledge about methods of diagnosis, protection and treatment of diseases
- To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to neurological disorders.
- To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to cardiopulmonary disorders.
- To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to pediatric patients.
- 17 To be able to gain knowledge about the effects of fitness and exercise on metabolism and responses of body systems to them.
- 18 To have knowledge about rehabilitation services
- 19 To become individuals who can do interdisciplinary team work, with a sense of social responsibility and entrepreneur.
- 20 To be able to recall the knowledge about Ataturk's Principles and the History of Turkish Revolution.
- To be able to gain the knowledge and ability to become contemporary individuals who can use Turkish language grammar well and know a foreign language knowledge necessasary to follow the developments in the profession.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2:Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P2	3	3	3	3	3
P14	3	3	3	3	3

