Course title	Exercise for Special Population – Guidelines for exercise adjustment								
Course code	TRAN208								
Course type	Lectures								
Level	Diploma								
Year / Semester	2 nd Year / 3 rd Semester								
Teacher's name	Assos Charalambos								
ECTS	6	Lectures / week	3	Laboratories / week					
Course purpose and objectives	The purpose of the course is to provide students with a theoretical foundation on the pathophysiology of chronic diseases (coronary artery disease, hypertension, obesity, cancer, thyroid disorders, etc.). Additionally, during the course, specific protocols are presented based on guidelines from national organisations to ensure effective and safe exercise for the trainees.								
Learning outcomes	Upon the completion of the course, the students are expected to: Knowledge 1. Recognise the immediate and long-term physiological effect of exercise on people with chronic illnesses (heart patients, diabetics, obese, etc.) 2. Explain how specific chronic conditions affect physical function and exercise capacity 3. Explain the guidelines for adapting exercise for special populations, including individuals with chronic conditions, the elderly, pregnant women, and others. Skills 4. Design and implement safe training programmes to improve the functionality and physical condition of the trainees. Competences 5. Determine the intensity of the exercise depending on the type of the chronic condition.								



Prerequisites	Required					
Course content	 Evaluation and medical history of people with chronic illnesses Exercise & Hypertension Exercise and Obese people Exercise and Cancer Metabolic syndrome and exercise Exercise and diabetes Exercise and thyroid conditions Exercise and people with arthritis Exercise and people with osteoporosis Exercise to prevent and restore musculoskeletal problems Exercise and mental health Exercise during pregnancy Special populations and exercise adaptation according to guidelines from national organizations and associations 					
Teaching methodology	The content of the course is taught through lectures with the help of a computer, video projector, electronic presentations and multimedia and the use of a whiteboard. Active student participation is ensured through guided discussions. The practical part of the course is carried out in an accredited gym centre.					
Bibliography	 Τοκμακίδης Σ. (2003). Άσκηση και χρόνιες παθήσεις [Exercise and chronic illness]. Εκδόσεις Πασχαλίδη. Γεροδήμος, Β., Καρατράντου Κ. (2021). Άσκηση για την Υγεία, Πρόληψη και αποκατάσταση [Exercise for health, prevention and rehabilitation]. Κωνσταντάρας, ISBN 978-960-608-051-7 Θεοδωράκης, Ι. (2017), Άσκηση, ψυχική υγεία και ποιότητα ζωής [Exercise, psychological health and quality of life], Αφοί Κυριακίδη Εκδόσεις Α.Ε., ISBN 978-960-602-168-8. Sharkey, Brian J. (2017). Άσκηση και υγεία: Ολοκληρωμένος οδηγός [Exercise and health: A complete guide]. Τη Έκδοση. Παρισιάνου Α.Ε., ISBN 978-960-583-171-4. Beneka, A., Malliou, P., Pafis, G., Malliou, V., & Koutra, C. (2015). Θεραπευτική άσκηση [Therapeutic exercise]. Kallipos, Open Academic Editions. https://hdl.handle.net/11419/372 Καρατζαφέρη, Κ., et al. (2015). Εγχειρίδιο για την σωματική αξιολόγηση αθλητών: δοκιμασίες εργαστηρίου και πεδίου για την επιστημονική 					

υποστήριξη του αγωνιστικού αθλητισμού [Manual for the body evaluation of



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ





	the https:	<i>athletes].</i> ://hdl.handle.net	Kallipos, :/11419/4443	Open	Academic	Editions.		
	 Morc Coulson (2013). The Complete Guide to Teaching Exercise to Special Populations. London: Bloomsbury Sport. EBSCOHost. Ayan Perez, C., Cancela C., Jose M., Martinez, V., S. (2010). Aerobic Exercise in Special Populations. New York: Nova Science Publishers, Inc. EBSCOHost. 							
Assessment		dance and class Inment:	s participation:)% 0%			
	• Final	written assignm			0%			
	• Final	practical assign	ment	3	0%			
Language	Greek or Eng	glish						