Course title	title Resistar	Resistance training – Functional evaluation of movement				
Course code	code TRAN21	TRAN210				
Course type	type Lectures	Lectures and practical exercise				
Level	Diploma	Diploma				
Year / Semester	Semester 2 nd Year	2 nd Year / 3 rd Semester				
Teacher's name	r's name Antonis	Antonis Polyviou				
ECTS	6	Lectures / week	3	Laboratories / week		
Course purpose and objectives	purpose and ves related to with discompose with discompose identifying localised musculo.	The aim of the course is to equip the students with all the necessary knowledge related to of strength exercise, while at the same time the students become engage with discussions on anatomical analysis of the joints, the limit of the range of movement, the muscles, etc. At the same time, the course emhpasises on identifying the factors that seem to impair the musculoskeletal movement (injuries, localised stress / fatigue, etc.). Ultimately, the course discusses the solutions to musculoskeletal movement impairment, which can have positive effects on the quality of movement and the reduction of injury risks.				
Learning outcomes	Knowled 1. D jc 2. E a 3. R th 4. D te Skills 5. P	Upon the completion of the course, the students are expected to: Knowledge 1. Describe and understand the function of the muscles, bones, ligaments and joints that make up the human body. 2. Explain basic functional movement anatomy and the types of muscle activation 3. Recognise common mistakes observed during the technical execution of the exercises. 4. Describe what is proper bracing based on the various breathing techniques and why it is important for the correct execution of an exercise				



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Symptom Studio Assuments	$\mathbf{v}_{\mathbf{i}}$	40

	9. Apply the basic training systems (Drop set, Rest Volume Training, etc.)	and pause, Ger	rman		
	Responsibility and Autonomy				
	10. Be able to analyse the musculoskeletal movement, the factors that affect it (e.g. Injuries, localised stress, etc.) and to be able to deal with such issues, presenting corrective solutions which are important to the quality of life, the performance, and the limitation of risks associated with injuries.				
	Personal Training-Resistance Training TRAN106				
Prerequisites	Specialised Personal Training – Resistance Training TRAN119	Required			
Course content	Theory, benefits and parameters of functional muscle anatomy as well as functional training				
	Bones, joints, ligaments and muscles of the human body and their function.				
	Technique improvement and practical application of exercises (Upper torso, lower torso, core) with hip dominant, knee-dominant, pushing, pulling and core exercises.				
	Stability and mobility training				
Course content	Basic exercise routine and balance exercises				
	Measurements of functional mobility (body posture, mobility, balance and flexibility)				
	Planning exercise programmes with the aim of increasing strength and mobility.				
	Functional anatomy of the motor system and movement disorders.				
	Discussion of cases (case studies)				
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	 Greek Bibliography Τερζής, Γ. (2022). Μυϊκή Ενδυνάμωση [Muscle strength]. Kallipos, Open Academic Editions. Ανακτήθηκε από https://dx.doi.org/10.57713/kallipos-26 American College of Sports Medicine (2008). Το εγχειρίδιο του προσωπικού γυμναστή [The manual of the personal trainer], Αθλότυπο, ISBN 978-960-7378-82-8. Delavier, F. (2012). Προπόνηση για αύξηση της μυϊκής δύναμης: Λειτουργική ανατομική των μυών [Training to increase muscle strength: Functional anatomy of muscles]. Εκδόσεις Π. Χ. Πασχαλίδης. 3η Έκδοση. ISBN: 9789963744107 Φατούρος, Γ.Ι. & Χατζηνικολάου, Θ. (2012). Προπόνηση με βάρη, διδασκαλία, ασφάλεια και οργάνωση ασκήσεων [Training with weights, teaching, safety and exercise planning], ISBN 978-960-8410-97-8 				



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

CYQAA CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



	 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 the athletes]. Kallipos, Open Academic Editions. https://hdl.handle.net/11419/4443 			
	English Bibliography			
	 Boyle M. (2010). Advances in Functional Training: Training Techniques for Coaches, Personal Trainers and Athletes. On Target Publications. ISBN: 978-1931046015. Harris, Philip, Robertson, Angus, Ranson, Craig (2015). Anatomy for Problem Solving in Sports Medicine. Keswick, Cumbria: M&K Update Ltd. EBSCOHost. Thomas A. Toth (2015). Technology for Trainers. 2nd Edition. Alexandria, VA: Association for Talent Development. EBSCOHost. Bret Contreras (2013), Human kinetics, Bodyweight Strength Training Anatomy, ISBN 9781450466400 			
Assessment	 Attendance and class participation: 10 % Intermediary practical examination: 20% Final practical examination: 30% Final written examination: 40% 			
Language	Greek or English			