Course title	Specialised Personal Training – Resistance Training				
Course code	TRAN119				
Course type	Lectures and practical exercises				
Level	Diploma				
Year / Semester	1 st Year / 2 nd Semester				
Teacher's name	Costa- Ioannou Froso				
ECTS	6	Lectures / week	1	Laboratories / week	2
Course purpose and objectives	The purpose of the course is to provide the students with the knowledge, skills, and competences so that they are able to design and implement specialised protocols according to the specific needs and goals of the trainees. Furthermore, the purpose of the course is to teach the students how to correctly execute and deliver a training programme of free weights and pulleys.				
Learning outcomes	Upon the completion of the course, the students are expected to: Knowledge 1. Explain the basic forms of strength and methods of improving them. 2. Mention resistance training techniques and methods 3. Mention the main characteristics of chronic diseases, such as diseases of the cardiovascular system, respiratory system, musculoskeletal system, etc. (causes, symptoms, intervention through exercise protocols) 4. Explain various techniques that can assist with machines or free weights resistance training 5. Comprehend the effect that the sudden stop of training can have on the various body tissues and human performance. Skills 6. Apply the necessary fitness and health assessment metrics. 7. Apply resistance training techniques and systems 8. Perform, with proper technique, exercises with free weights and pulleys for the whole body 9. Apply resistance training assistance techniques depending on the type of machine or free exercise Competences 10. Identifying and correcting technical exercise mistakes				
Prerequisites		6 Personal Training- ce Training	Required	t	



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Course content	Physical Performance and Health Tests: Organising, evaluating and interpreting the results				
	Strength training systems				
	Main forms of power and methods of improvement.				
	Adaptation of bones, muscle and tissue to exercise				
	Hormonal adaptations to resistance exercise				
	Special populations and exercise – chronic conditions (causes, symptoms, exercise adjustments based on guidelines of national organisations)				
	Resistance training for children, women and older population.				
	 Practical application and technical analysis of exercises with free weights and pulleys (front & back sit-ups, high & low bar sit-ups, deadlifts and variations, barbell and dumbbell rows, bench presses and variations, pull- ups, chest/triceps dips, good morning exercise, hip thrusters, Bulgarian squat etc.) 				
	Warming up and stretching				
	Training Assistance Technique with resistances and exercise adaptations				
	 Sudden stop of exercise and its effect on the various body tissues and human performance 				
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.				
	Greek Bibliography				
Bibliography	 Γεροδήμος, Β., Καρατράντου Κ. (2021). Ασκηση για την Υγεία, Πρόληψη και αποκατάσταση [Exercise for Health, Prevention and Rehabilitation], Κωνσταντάρας, ISBN 978-960-608-051-7 American College of Sports Medicine (2008). Το εγχειρίδιο του προσωπικού γυμναστή [The personal trainer's handbook]. 1^η Έκδοση. 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. 3^η Έκδοση. ISBN: 9789963744107 Αντωνιάδης, Κ. (2009). Εισαγωγή στην άσκηση με βάρη [Introduction to weight training], Τελέθριον, ISBN 978-960-8410-54-1 Φατούρος, Γ.Ι. & Χατζηνικολάου, Θ. (2012). Προπόνηση με βάρη, διδασκαλία, ασφάλεια και οργάνωση ασκήσεων [Weight training, teaching safety and exercise management], ISBN 978-960-8410-97-8 English Bibliography Bryant, C. X., and Green, D. J. (2010). ACE Personal trainer manual: The ultimate resource for fitness professionals. 4th Edition. American Council 				
	ultimate resource for fitness professionals. 4 th Edition. American Council on Exercise. ISBN: 9781890720292				



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ





		American College of Sports Medicine (2018). <i>ACSM's Resources for the Personal Trainer</i> . 5 th Edition. ISBN: 978-1496322890.		
Assessment	 Attendance and class participation: Intermediary practical examination Final practical examination: Final written examination: 	10% 20% 30% 40%		
Language	Greek or English			