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Course title	Personal Training-Resistance Training				
Course code	TRAN106				
Course type	Theoretical and Practical				
Level	Diploma				
Year / Semester	1st Year / 1st 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 for students to understand the basic principles of designing a resistance training programme, to consolidate the basic techniques of resistance exercises, and to adopt ways to motivate the trainees to stay motivated and achieve their fitness goals.				
Learning outcomes	 Knowledge Recognise the basic resistance equipment as well as the correct technical execution of the exercises using resistance machines. Recognise the types of muscle contraction as well as the types of strength training Recognise what information requires further analysis when it comes to the development of a training programme Have a basic knowledge on space organisation and safety Define the training load and the training method Skills Perform the basic exercises with machines and resistance dumbbells with correct technique Identify poor posture and incorrect execution of the exercise to minimize the chances for an injury. Apply various tests and somatometric evaluation measurements, in order to record the real needs and goal-setting. Implement behaviour change strategies that will empower trainees to remain motivated towards lifelong fitness Competences Evaluate the readiness of the trainees with the use of interviews and questionnaires. 				





Prerequisites	Required		
	Introduction to Personal Training – role and responsibilities of a personal trainer		
	 Medical History, anthropometric assessment, readiness interview and goal setting. 		
	 Mechanics of resistance training: Strength, types of muscle contraction and types of strength training. 		
	The methodology of teaching exercises with weights		
	The Theory of physical fitness and its evaluation		
Course content	 Introduction to the principles of exercise (individual differences, specialisation, burden, progressivity, adaptation, reversibility, etc.) 		
	 Introduction to the principles of strength training (Load, intensity, duration, withdrawal, etc.) 		
	 Equipment and safety principles (warm-up, recovery, breathing, equipment maintenance, aids, etc.) 		
	 Details of the technical execution of the exercises (grips, rate of execution of repetitions, breathing, common errors of execution of exercises, etc.) 		
	Technical analysis and practical application of an exercise program with resistance machines, free weights, and cardiorespiratory machines.		
	Advantages and disadvantages of machines and Free weights		
	Major and minor muscle groups involved in each exercise		
	Introduction to training programme design		
	Strategies for adherence to exercise		
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 strengthening]. 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. Αντωνιάδης, Κ. (2009). Εισαγωγή στην άσκηση με βάρη [Introduction to weight exercise], 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 		



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ





 Delavier, F. (2012). Προπόνηση για αύξηση της μυϊκής δύναμης: Λειτουργική ανατομική των μυών. Εκδόσεις Π. Χ. Πασχαλίδης. 3^η Έκδοση. ISBN: 9789963744107 English Bibliography Bryant, C. X., and Green, D. J. (2010). ACE Personal trainer manual: The ultimate resource for fitness professionals. 4th Edition. American Council on Exercise. ISBN: 9781890720292 American College of Sports Medicine (2018). ACSM's Resources for the Personal Trainer. 5th 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	