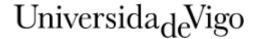
# Subject Guide 2020 / 2021



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IDENTIFYIN					
	habilitation training for phy	sical activity and sports			
Subject	Physical	·			·
	rehabilitation				
	training for				
	physical activity				
	and sports				
Code	P02G050V01914				
Study	(*)Grao en				
programme	Ciencias da				
	Actividade Física e				
	do Deporte				
Descriptors	ECTS Credits	Ch	oose	Year	Quadmester
	6	Op	tional	4th	1st
Teaching language	Spanish				

# Competencies

Department

Coordinator Lecturers

E-mail

Web General description

Code

- A1 Students will have shown they have sufficient knowledge and understanding of an area of study, starting after completion of general secondary education, and normally reaching a level of proficiency that, being mostly based on advanced textbooks, will also include familiarity with some cutting-edge developments within the relevant field of study.
- A2 Students will be able to apply their knowledge and skills in their professional practice or vocation and they will show they have the required expertise through the construction and discussion of arguments and the resolution of problems within the relevant area of study.
- A3 Students will be able to gather and interpret relevant data (normally within their field of study) that will allow them to have a reflection-based considered opinion on important issues of social, scientific and ethical nature.
- A4 Students will be able to present information, ideas, problems and solutions both to specialist and non-specialist audiences.
- A5 Students will acquire the learning skills that are required to pursue further studies with a high degree of independence.
- B1 Conceptualization and identification of the object of study of the Sciences of the Physical Activity and the Sport.
- B2 Knowledge and comprehension of the scientific literature of the area of the physical activity and the sport.
- B3 Knowledge and compression of the physiological factors and biomechanics that determine the practice of the physical activity and the sport
- B5 Knowledge and comprehension of the effects of the practice of the physical exercise on the structure and function of the human body.
- B7 Knowledge and comprehension of the foundations, structures and functions of the skills and bosses of the motricity humanizes.
- B8 Knowledge and comprehension of the structure function and development of the different manifestations of the motricity humanizes.
- B12 Application of the technologies of the information and communication (TIC) to the area of the Sciences of the Physical Activity and of the Sport.
- B13 Habits of excellence and quality in the professional exercise.
- B14 Managing of the scientific basic information applied to the physical activity and to the sport in his different manifestations.
- B17 Aptitude to plan, to develop and control the process of training in his different levels.
- B18 Aptitude to apply the physiological beginning, biomechanics, behavioral and social, to the different fields of the physical activity and the sport.

- B19 Aptitude to evaluate the physical condition and to prescribe physical exercise orientated towards the health
- B20 Aptitude to identify the risks that stem for the health of the practice of physical inadequate activities.
- B21 Aptitude to plan, to develop and control the accomplishment of programs of sport activities.
- B23 Aptitude to select and to be able to use the material and sports equipment adapted for every type of activity.
- C7 Aptitude to plan, to develop and control the process of training in the different levels
- C8 Aptitude to apply the physiological biomechanical, comportamental and social principles, during the process of the sports training
- C9 Aptitude to promote and evaluate the formation of lasting and autonomous habits of practical physical and sports activity in the population who realizes sports training
- C10 Aptitude to identify the risks, which stem for the health of the sportsmen, of the inadequte practice of physical activities in the context of the sports training
- C11 Aptitude to plan, to develop and to control the accomplishment of programs of sports training
- C12 Aptitude to select and to be able to use the material and sports equipment adapted for every type of activity of sports training
- C13 Aptitude to evaluate the physical condition and to prescribe physical exercise orientated towards the health
- C14 Aptitude to promote and evaluate the formation of lasting and autonomous habits of practice of physical activity and sport between the adult population, older and disabled people.
- C15 Aptitude to identify the risks that stem for the health of the development of the physical inadequate activities between the population who realizes physical practice orientated to the health
- C16 Aptitude to apply the physiological, biomechanical, comportamental and social principles to the field of the physical activity and the health
- C17 Aptitude to plan, to develop and control the accomplishment of programs of physical sports activities orientated to the health
- C18 Aptitude to select and to be able to use the material and sports suitable equipment, for every type of activity that the population of adults practises, older and disabled people.

Learning outcomes			
Expected results from this subject	Tr	aining an	d Learning
		Res	
Define rehabilitation training, preventive training, motor relearning, return to daily physical activit	y A4	B1	C16
and return to sports		B2	C17
Differentiate between high medical, high sportive and high functional.	A1	B1	C10
	Α3	B2	C16
			C17
			C18
Understand the roles and the relations between the components of a team interdisciplinar for the	A1	B2	C7
planning and the development of a process of rehabilitation.	A2	B8	C8
		B14	C9
		B17	C15
		B18	C16
		B19	
		B20	
Know the historical evolution of the educational system in our country.			
Describe the protocols of physical training more usual in processes of recovery of injuries.	A1	B18	C7
	A2	B19	C8
	A4	B21	C10
			C13
			C14
			C15
Endels the Continuous that have been discussed to the later of		D1	C18
Explain the fundamental appearances that have to consider in a process of training of rehabilitation.	A1 A4	B1 B2	C7
renabilitation.			C8 C9
	A5	B17 B18	C11
		B19	C11
Identify the most prevalent locomotor device injuries in a context of physical activity practice.	A1	B7	C12
identity the most prevalent locomotor device injuries in a context of physical activity practice.	A1 A5	В7 В17	C10 C11
	AJ	B17	C11
		B19	C13
		B23	C14
Determine the aims, the methods and the systems for the control of the quality in a training of	A3	B18	C7
rehabilitation.	A4	B19	C8
Tendonicoloni	, , ,	B20	C11
		B21	C18
		- D - 1	

Program of individual form, safe and controlled the contents selected for a training of rehabilitation.		B2 B13	C7 C11
	A5	B17	C13
		B18	C14
			C15
			C17
			C18
Determine the optimum load that improve the security and efficiency in programs of intervention.	A1	B1	C7
	A5	B2	C8
		В3	C11
		B12	C15
		B13	C16
		B14	C17
		B19	
		B20	
Apply strategies of prevention for different contexts of practice.	A1	B5	C7
	A2	В7	C8
	Α3	B19	C13
		B20	C14
		B23	C16
			C17
			C18

Contents	
Topic	
1. Definition of key concepts.	Contextualización. Concepts. Aims and basic principles. Sport therapist
	competencies.
2. Multidisciplinary model for the recovery of injuries.	Multidisciplinary team like active part of the process.
3. Injuries of the device locomotor: prevalence,	Fundamental principles of the sportive injuries.
factors of risk and effect of the physical exercise	Factors of risk and effect of the exercise in the prevention and quality of
in prevention, quality of life and recovery.	life.
	Stages and aims of the harmful process.
	Injuries more frequent of the device locomotor.
4. Methodological criteria for the training of	Methodological criteria and of assessment.
rehabilitation.	Prevention and planning of the functional recovery.
5. Strategies of physical training for the	The prevention of injuries from the physical training.
prevention of injuries of the device locomotor.	Cases of prevention of injuries of the device locomotor.
	Recovery of injuries from the training in different types of populations.
of the physical condition in sporty population and	Cases of recovery of injuries in sporty population and no sporty.
population no sporty.	
7. Procedures of evaluation and control in a	Assessment of the physical qualities of the.
process of training of rehabilitation.	Turn to the sport from a perspective objectifiable and quantifiable.

Planning			
	Class hours	Hours outside the classroom	Total hours
Mentored work	1	40	41
Lecturing	18	0	18
Case studies	4	10	14
Problem solving	4	10	14
Portfolio/dossier	1	15	16
Laboratory practical	20	7.5	27.5
Presentation	2	10	12
Flipped Learning	1	5	6
Objective questions exam	1.5	0	1.5

<sup>\*</sup>The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Mentored work	The student, in small group, elaborates a document on the thematic of the matter agreed previously with the professor/to.

Lecturing	The character of the matter does necessary to combine several types of methodologies, depending on the nature of the aims to reach and the contents to treat. It will plead for an active methodology, alternating exhibitions classroom and work in small group in the theoretical sessions and experience of the different proposals of tasks (of the professor and of the own students) in the sessions practise.  Besides, the student will have of a virtual support of support to the teaching, through the platform FEAR (http://www.uvigo.es/faitic), with which will be able to make a partially on-line follow-up of the matter.  Organisation of the teaching: The sessions of theoretical and practical character will develop in schedule and location fixed by the centre.
Case studies	Activity in which they formulate studies of case and exercises related with the subject that the student has to develop
Problem solving	Activity in which they formulate problems and/or exercises related with the subject. The student has to develop the suitable or correct solutions by means of the exercising of routines, the application of formulas or algorithms, the application of procedures of transformation of the available information and the interpretation of the results. It is used to use as I complement of the classroom.
Portfolio/dossier	Document where collect practical and exercises resolved.
Laboratory practical	Activities of application of the knowledges to concrete situations and of acquisition of basic skills and procedural related with the matter object of study.
Presentation	Presentation and exhibition of works and practical
Flipped Learning	The student will receive through the platform of teleconference faitic documentation so that it can work on her and later can pose to the professor doubt or problems of learning related with these contents

## Personalized assistance

Methodologies	Description
Flipped Learning	In the schedule of tutorials will resolve concrete doubts on the practical contents. Like consequence of the COVID-19 and in accordance with the extraordinary and urgent measures for or development of the educational organisation in the course 2020/2021 in case of sanitary crisis, approved by the Council of Goberno of 12 June 2020 and of the Resolution Rectoral of 17 June 2020 for his implementation, elaborated an instruction from the VOAP for the preparation of the educational guides. In base to this, the tutorials of this matter in case of burgeon of the COVID-19 will be attended by means of virtual modality, well through the virtual dispatches of the professors (2438, prof. Dr. Virginia Serrano Gómez), or of email.
Mentored work	In the schedule of tutorials will resolve concrete doubts on the practical contents. Like consequence of the COVID-19 and in accordance with the extraordinary and urgent measures for or development of the educational organisation in the course 2020/2021 in case of sanitary crisis, approved by the Council of Goberno of 12 June 2020 and of the Resolution Rectoral of 17 June 2020 for his implementation, elaborated an instruction from the VOAP for the preparation of the educational guides. In base to this, the tutorials of this matter in case of burgeon of the COVID-19 will be attended by means of virtual

Assessment			
	Description	Qualification	Training and Learning Results
Mentored work	The student, in small group, elaborates a document on the thematic of the matter agreed previously with the professor/to.	20	
Portfolio/dossier	Dossier of exercises and practical	15	
Presentation	Presentation/ exhibition of works and practical	5	
Objective questions e	xamExamination of objective questions	60	

or of email or by means of the forums of the platform of teleconference faitic.

modality, well through the virtual dispatches of the professors (2438, prof. Dr. Virginia Serrano Gómez),

## Other comments on the Evaluation

All students, whether they attend class or not, have the right to be evaluated (by examination or as established by the teaching guide).

- a) In the first call, the exam will be assessed at 60%, the work at 20%, presentations at 5%, and the dossier/practical sessions at 15% (they must attend at least 80% of the sessions). Students who do not attend 80% of the sessions will have to take a practical exam and/or an extra development question/s will be included in the short answer exam/test.
- It is essential to pass the theoretical exam with a minimum score of 5 points in order to pass the subject.
- b) If the subject is not passed in the first call, the competences not acquired will be evaluated in the 2nd call. In this 2nd edition the exam will have a valuation of 80%. The dossier of exercises 5% and the work 15% (these will be a requirement to be able to take the exam).

## Sources of information

**Basic Bibliography** 

## **Complementary Bibliography**

Bahr, R., Lesiones deportivas: diagnóstico, tratamiento y rehabilitación., Médica Panamericana, 2007

Balius, R., Pedret, C., Lesiones musculares en el deporte., Médica Panamericana, D.L., 2013

Boyle, M., El entrenamiento funcional aplicado a los deportes., Ed. Tutor., 2017

Chicharro, J.L. y Sánchez, D., Fisiología y Fitness para corredores., Ed. Prowellness, 2014

Doral, M. y Karlsson, J., **Sports Injuries: Prevention, Diagnosis, Treatment and Rehabilitation.**, Ed. SpringerVerlag., 2015

Freese, J., **Fitness Terapeútico.**, Paidotribo, 2006

García, O. & Serrano, V. (Coord.), **Entrenamiento Personal. Guía para el desarrollo profesional**, Médica Panamericana, 2017

Hall, C.M., Brody, L.T., Ejercicio terapéutico. Recuperación Funcional., Paidotribo, 2006

Joyce D., Lewindo D., Sports Injury Prevention and Rehabilitation: Integrating Medicine and Science for Performance Solutions. London., Taylor and Francis Ltd., 2016

Mayr, H. y Zaffagnini, S., Prevention of Injuries and Overuse in Sports: Directory for Physicians, Physiotherapists, Sport Scientists and Coaches, Ed. ESSKA, 2015

Romero, D., Tous, J., **Prevención de lesiones en el deporte. Claves para un rendimiento deportivo óptimo**, Médica Panamericana, 2010

#### Recommendations

## Subjects that are recommended to be taken simultaneously

Physical exercise and wellbeing programs/P02G050V01910

## Subjects that it is recommended to have taken before

Human anatomy: Human anatomy and kinesiology/P02G050V01201

Fitness activities/P02G050V01901

Biomechanics of sports techniques/P02G050V01903

Planning and methodology in sports training 1/P02G050V01502

Planning and methodology in sports training 2/P02G050V01604

Evaluation and prescription of physical exercise for health/P02G050V01503

## **Contingency plan**

## **Description**

Like consequence of the COVID-19 and in accordance with the extraordinary and urgent measures for or development of the educational organisation in the course 2020/2021 in case of sanitary crisis, approved by the Council of Goberno of 12 June 2020 and of the Resolution Rectoral of 17 June 2020 for his implementation, elaborated an instruction from the VOAP for the preparation of the educational guides.

In base to this, the teaching of this matter in case of burgeon of the COVID-19 will be by means of virtual face-to-face modality, in which neither the professor neither the students assist to the classroom of fitness. The classes and the evaluation carried out by remote campus and by means of the platform \*moodle. Arrived the case would activate this modality by means of RR.

They keep the contents of the matter, so many theorists like practical and the system of evaluation.

The educational methodology in this case will base fundamentally in the reverse learning "Flipped Learning" in replacement of the others methodologies, where the student will work of autonomous form the documents facilitated by the professor through the platform of teledocencia Faitic and in the virtual face-to-face classes will pose and will resolve the problems, doubts and lacks detected by the student and by the professor.