



COURSE DATA

Data Subject

Code	33222
Name	Sports training: physical preparation
Cycle	Grade
ECTS Credits	6.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. year	Period
1312 - Degree in Physical Activity and Sport Sciences	Faculty of Physical Education and Sport Sciences	2	Other cases
1331 - Degree in Physical Activity and Sport Sciences (Ontinyent)	Faculty of Physical Education and Sport Sciences	2	Other cases

Subject-matter

Degree	Subject-matter	Character
1312 - Degree in Physical Activity and Sport Sciences	18 - Sports training: physical preparation	Obligatory
1331 - Degree in Physical Activity and Sport Sciences (Ontinyent)	18 - Entrenamiento Deportivo: Preparación Física	Obligatory

Coordination

Name	Department
BLASCO LAFARGA, MARIA CRISTINA	122 - Physical and Sports Education
ROLDAN ALIAGA, AINOA	122 - Physical and Sports Education

SUMMARY

The progress of research on sports performance, leisure and health, together with the current interest in physical activity as a social, economic or health resource, has given the contents related to Sports Training and Physical Preparation a special relevance in the field of motor. Both the coach and the physical trainer have a wide range of resources to improve the performance of their athletes. But in order to trace the straight path to the optimization of personal capacities, it is necessary to fluently handle everything related to the loads (types of stimulus and level of stress), their concretion in the form of practical proposals (tasks and / or exercises, progressions, training cycles, etc.), and in general all the



processes and the dynamics and synergies that are generated around them in each of their fields (neuromuscular, bioenergetic and informational). Skills such as identifying, correcting, adapting, designing or planning are the essence of this subject, which should allow future graduates to start designing the best training programs for each situation, optimizing the result and minimizing the effort, cost and risks to their athletes.

The implementation of ecological models around improving performance, the holistic vision of the sciences that are complementary, the support of new technologies with a high impact on the future professional capacity of the graduates, and in general the numerous contributions of the applied research in recent years, make this subject an essential content for the training of future graduates in Physical Activity and Sports Sciences.

As for its imbrication within the curriculum, "Sports Training: physical preparation" has a core nature and is structured on a quarterly basis, being taught in the 2nd year of Physical Education and Sports Science degree, when the students have already studied basic contents such as anatomy or physiology.

It is presented with a structure of 6 credits and is based on an experimental and applied view, so its contents are divided into theoretical and practical sessions, closely related to each other concerning objectives, competencies, etc. In this way, its 6 credits are structured in 3 theoretical credits and 3 practical credits, divided into two classes a week within a four-month period: 2 hours of basically conceptual content and 2 hours of a more procedural nature. The mixed nature of the theoretical-experimental subject is achieved by combining sessions in the classroom together with others in the computer room, the weight room, the performance laboratory or sports courts, among others. Its organization ensures that theoretical knowledge, which is based on practical learning, is consolidated thanks to the theoretical-practical work that progresses in parallel throughout the four-month period.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

Students should know basics of anatomy, physiology and biomechanics, along with pedagogical and methodological aspects, which facilitates learning and mastery of the content of this field. It is therefore recommended to have approved at least physiology and anatomy before studying it.

Domain of virtual environments and software at user level (Word, Excel). The faculty has a training internet channel where you can find tutorials on these resources.



OUTCOMES

1312 - Degree in Physical Activity and Sport Sciences

- Programar sistemas de entrenamiento en función de sus efectos y objetivos.
- Planificar actividades físicas adecuadas a los objetivos buscados.
- Aplicar acciones de intervención en el ámbito de la actividad física y deporte de manera coherente y eficaz.
- Know the use and suitability of health products linked to nursing care, paying special attention to differences according to age and gender.
- Know and understand the fundamentals of physical fitness for physical activity and sport.
- Apply the principles of fundamental rights, gender equality, equal opportunities, universal accessibility for people with disabilities, solidarity, environmental protection, the culture of peace and democratic values.
- Design, implement and evaluate the teaching-learning processes related to physical activity and sport, paying attention to the individual, collective and contextual characteristics of people.
- Promote and evaluate the acquisition of enduring and autonomous habits of practising physical activity and sport.
- Plan, implement and evaluate physical activity and sports programmes targeted at special populations.
- Select and know how to use sports material and equipment, suitable for each type of activity and population.
- Apply information and communication technologies (ICTs) in the field of physical activity and sport sciences.
- Develop leadership, interpersonal and teamwork skills.
- Develop habits of professional excellence and quality.
- Know and understand the different applied training systems and components.
- Apply physiological, biomechanical, behavioural and social principles to the different fields of physical activity and sport.
- Programme training systems according to their effects and objectives
- Plan physical activities appropriate to the objectives pursued.
- Implement intervention actions in the field of physical activity and sport in a coherent and effective manner.
- Be independent and competent to design and programme physical-sports activities depending on the objectives and populations targeted.
- Know terminologies and be able to use them in the field of training, both in Spanish and in English.



- Apply information and communication technologies (ICTs) in the field of physical activity and sport sciences.
- Develop resources to adapt to new situations and to solve problems, and for independent learning and creativity.
- Develop habits of professional excellence and quality.
- Know and act under the ethical principles required for proper professional practice.

LEARNING OUTCOMES

Once the course has finished, the students should be able to:

- Identify and properly interpret the fitness level of their sport people.
- Plan physical activities appropriate to the objectives sought.
- Schedule training systems in terms of the context (individual, group, situation, etc.).
- Monitor and quantify the loads and their effects on the improvement process.
- Implement intervention activities in the field of sport and physical activity in a consistent and effective plan.

DESCRIPTION OF CONTENTS

1. GENERAL CONTENTS

The contents of the components of this matter are as follows:

The training loads and its implementation.

Overview of sports training context.

Bioenergetics and training (Stamina and Endurance Training).

The neuromuscular capacities (strength, speed and range of movement trainability in sport).

Informational prerequisites Training (Training perceptual-motor and tactical processes).

Fundamentals of programming and planning of sport training.

Planning and scheduling the physical condition.

The basis of periodization for sports training.

Trends and models in sport training.

**2.****3.****WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Classroom practices	30,00	100
Development of group work	25,00	0
Development of individual work	10,00	0
Study and independent work	30,00	0
Readings supplementary material	10,00	0
Preparation of evaluation activities	10,00	0
Resolution of case studies	5,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

The subject is taught periodically as 2 theoretical plus 2 practical hours.

- The theoretical lessons take place in the classroom, with the whole big group.
- For the practical lessons the group is divided into three small subgroups; facilities are itinerant, including the performance and health teaching laboratories, the tracks or sports facilities of the University, and the computer room (since the final works are presented in Excel format).

The use of active methodologies such as learning and evaluation based in projects is encouraged. In fact, we are now immersed in a Teaching Innovation Project on EVALUATION THROUGH PROJECTS. Tutoring hours are essential to guide these works.

Group dynamics and cooperative learning are also important teaching tools, especially in the practical cases solving.

**EVALUATION****9.1. Continuous evaluation:**

For those attending to the 80% of the lessons and presenting at least the 80% of the tasks requested along the semester. Excused and unexcused absences are not distinguished. The student must reserve the margin of the 20% of absences allowed for his/her personal needs.

*** 5% Various practices section; it integrates attitudinal contents, class participation and the tasks requested through the virtual classroom.**

Scoring only once overpassed the 80%, of both, the attendance and the tasks, it encourages the students participation and personal experiencing. It also checks their understanding of the practical contents. The tasks will be delivered in the virtual classroom according to an agreed format and deadline. Failure to comply with these minimums implies the loss of continuous evaluation.

*** 45% Evaluation by projects: Initiation to physical conditioning in the sports field**

Tutored Project carried out in groups of 3 to 5 people, supervised by a qualified teacher-tutor, following an academic rubric. The professors tutor will set a time-schedule to guide the project with at least three mandatory tutorials.

The project will be delivered through the virtual classroom on a predetermined date and form. The presentation calendar (either face-to-face or through the Blackboard Collaborate platform) is agreed with the students on a date close to the official calls for the course (1st and / or 2nd call).

- **3.5 points of these 4.5** correspond to the group qualification according to the following distribution:

- 2.5 points for written work

- 1 point for the group presentation the day of the orals.

- **1 point of these 4.5** corresponds to the individual mark (individual presentation and debate with the teachers).

To add this section the student needs at least a 1.75 in the group part and a 0.5 in the individual mark.

*** 50% theoretical exam including physical conditioning training concepts and problem solving:**

Written test consisting of 3 different types of questions: Multiple choice questionnaire plus Short open questions about concepts and / or interpretation of the main physical conditioning effects (3 to 3.35 points); together with theoretical-practical assumptions (1.75 to 2 points). The failed questions subtract 33% of the value of the approved ones.

There will be no partial exams; only the final exam on the date set by the Faculty. It is essential to have a grade of 2 out of 4.5 points to add the rest of the sections.

9.2. Once lost the continuous evaluation:



Students who do not attend 80% of the classes must carry out additional work and / or practical demonstration of skills. In addition, some questions are added in the theoretical exam to compensate for the lack of information (which is usually collected from the continuous attendance).

9.3. Special features for the repeating students (Group C)

Those students who have exceeded the 80% of attendance, with approved practical contents and > 1 point (out of 5) in the previous theoretical call, in the previous year, will benefit from an evaluation system based on projects and problem solving. As it is a continuous assessment system, it requires also the 80% of attendance in the current course.

On the other hand, and by the Intellectual Protection Laws, it is forbidden the total or partial reproduction of the works of others, and its breach can lead at offenses or criminal offenses.

"The literal, total or partial copy of works of others presented as their own is considered unacceptable behavior in academia".

ALL THE CONTENST WILL BE DEMANDED IN FURTHER EXAMS, IF NEEDED. THE MARKS FROM THE PRACTICAL WORKS WILL REMAIN FOR ONE YEAR AFTER THE FIRST EXAM.

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