

1. BASIC INFORMATION

Course	Management of Aquatic Facilities
Degree program	Global Sports Management Degree
School	Medicine, Health and Sports
Year	Third
ECTS	6 ECTS
Credit type	Core
Language(s)	Spanish and English
Delivery mode	Face-to-face and virtual
Semester	S6
Academic year	2025-2026
Coordinating professor	Álvaro Fernández Luna

2. PRESENTATION

Aquatic facilities have undergone a significant transformation in recent years, both externally (with the increase in bleachers and auxiliary spaces) and internally (concerning the design of pools, accessibility, and maintenance). These advances have made aquatic facilities some of the most popular installations due to the ease of access for any type of population throughout the year.

However, swimming pools are probably the sports facilities with the most complex maintenance and therefore the most challenging management, which centers on the correct state of the water, allowing the development of various swimming activities in optimal conditions.

Therefore, the main objective of this course is to provide students with the necessary knowledge about these complex facilities, as well as the tools to efficiently manage all their resources, personnel, and the wide range of activities they offer.

3. LEARNING OUTCOMES

Knowledge

KN02. Describes the design of an entrepreneurship and business development process, from its conceptualization to its implementation and evaluation, taking into account the individual and contextual characteristics of the company, as well as the historical, technical and ethical principles.

CON05. Identifies aspects and characteristics specific to different sports disciplines that serve as the organizational and governance basis for various sports bodies.

KN06. Describes the construction and operation processes of different sports facilities.

KN08. Identifies the appropriate sports materials and equipment for each type of activity, recognizing the technical characteristics of different sports spaces.

KN09. Identifies and knows innovation opportunities as a means of company growth, as well as any other business opportunity in national and international contexts.

Competences

CP04. Plan processes for entrepreneurship, innovation, and the growth of sports companies.

CP07. Fluently develop procedures and protocols for solving sports management problems, including methods, procedures, activities, resources, techniques and processes for different population segments.

CP14. Know and use management tools used in entities that provide physical activity services.

4. CONTENT

- Management of profit centers in aquatic facilities.
- Maintenance of aquatic facilities.
- Personnel management. Water plan
- The management of various aquatic facilities: Water parks, indoor pools, spas, marinas.
- Economic control of an aquatic facility
- Specific laws for the construction of aquatic facilities. Urban planning, environment, design.
- Aquatic facilities and the socio-economic revitalization of the environment.
- Practices and visits to different aquatic facilities.

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Masterclass/Webconference
- Case Method
- Cooperative Learning
- Simulation Environments

6. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Campus-based mode:

Learning activity	Number of hours
Masterclasses	25
Reading of Content Topics	12
Group Participatory Activities (seminars, workshops, forum participation, etc.)	20
External Visits	8
Tutoring	4
Independent Work	30
On-site Knowledge Tests	2
Individual or Group Projects	49
TOTAL	150

Online mode:

Learning activity	Number of hours
Synchronous virtual masterclasses	25
Reading of Content Topics	12
Group Participatory Activities (seminars, workshops, forum participation, etc.)	20
Online forums	8
Online Tutoring	4
Independent Work	30
Online Knowledge Tests	2
Individual or Group Projects	49
TOTAL	150

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Campus-based mode:

Assessment system	Weight
On-site knowledge tests	25% (20-25)
Reports and Writings	40% (40-50)
Problem solving and practical exercises	35% (30-35)

Online mode:

Assessment system	Weight
Online knowledge test	60% (60-60)
Reports and Writings	20% (20-30)
Problem solving and practical exercises	20% (10-20)

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

7.1. First exam period

To pass the course in the first exam period, you must obtain a final course grade of at least 5 out of 10 (weighted average).

In any case, you will need to obtain a grade of at 4.0 in the final exam in order for it to count towards the final grade along with all the grades corresponding to the other activities.

A formative assessment will be carried out, that is, a continuous evaluation will be conducted throughout the entire teaching-learning process so that the student can learn from it and have information about their own learning process.

The deadlines for submitting assignments will be communicated by the teacher (always with at least one week's notice). If submitted late, the teacher will not review or grade the assignments unless otherwise stated due to some factor.

Work is not evaluated by quantity but by quality and may not be accepted or graded if it does not meet minimum requirements.

The continuous assessment of the course, in the regular call, will be based on two blocks:

- Knowledge block in objective tests (25% of the final grade).
- Practice block, both individual and group (75% of the final grade).

7.2. Second exam period

To pass the course in the second exam period, you must obtain a final grade of at least 5 out of 10 (weighted average).

In any case, you will need to obtain a grade of at 4.0 in the final exam in order for it to count towards the final grade along with all the grades corresponding to the other activities.

The student must deliver the activities not successfully completed in the first exam period after having received the corresponding corrections from the professor, or those that were not delivered in the first place.

8. SCHEDULE

This table shows the delivery deadline for each assessable activity in the course:

Assessable activities	Deadline
Activity 1. Analysis of news in media about facilities and possible solutions based on regulations	Weeks 3-4
Activity 2. Checklist in an aquatic facility according to different regulations	Weeks 4-8
Activity 6 (1). Objective test - intermediate	Weeks 9-10
Activity 3. Quality tools in an aquatic facility	Weeks 11-12
Activity 4. Cost calculation in an aquatic facility	Weeks 13-15
Activity 5. Strategic planning of an aquatic facility. Water plan and analytical accounting	Weeks 16-18
Activity 6 (2). Final knowledge test	Weeks 17-18

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any change as and when appropriate.

9. BIBLIOGRAPHY

The main reference work for this subject is:

- Fernández-Luna, Á., & Guerrero, L. (2015). Piscinas en 360 º: consejos y propuestas para su correcto diseño, mantenimiento y explotación (Vol. 147). Ediciones de la Universidad de Castilla La Mancha.

The recommended Bibliography is:

- Fernández-Luna, Á., Burillo, P., Felipe, J. L., del Corral, J., García-Unanue, J., & Gallardo, L. (2016). Perceived health problems in swimmers according to the chemical treatment of water in swimming pools. *European Journal of Sport Science*, 16(2), 256-265.

- Fernández-Luna, Á., Gallardo, L., Plaza-Carmona, M., García-Unanue, J., Sánchez-Sánchez, J., Felipe, J. L., ... & Ara, I. (2013). Respiratory function and changes in lung epithelium biomarkers after a short-training intervention in chlorinated vs. ozone indoor pools. *PloS One*, 8(7), e68447.
- Gallardo, L. (2007). *Censo Nacional de Instalaciones Deportivas 2005*. Madrid: CSD.
- García-Unanue, J., Felipe, J.L., & Gallardo, L. (2013). *Herramienta de ayuda para la gestión económica de servicios deportivos*. Cuenca: Ediciones UCLM.
- Rodríguez Romo, G. (2006). *Piscinas cubiertas y al aire libre: normativa, funcionamiento y mantenimiento*. Madrid, Opade – Altamarca – Círculo de Gestores, 2006. ISBN: 84-611- 2959-8
- Rodríguez Romo, G. Y J. A. Mestre Sancho (2006). *El gestor y las instalaciones deportivas: principios para su planificación, diseño y gestión*. Barcelona, INDE, 2006.
- Rodríguez Romo, G., M. I. Barriopedro, A. (2002). La influencia de diferentes profundidades del vaso sobre la velocidad de los nadadores”, *ICD Serie de Investigación. Estudios sobre Ciencias del Deporte*, 32, 219-238. ISBN: 84-7949-119-1.

10. EDUCATIONAL GUIDANCE AND DIVERSITY UNIT

From the Educational Guidance and Diversity Unit we offer support to our students throughout their university life to help them reach their academic achievements. Other main actions are the students inclusions with specific educational needs, universal accessibility on the different campuses of the university and equal opportunities.

From this unit we offer to our students:

1. Accompaniment and follow-up by means of counselling and personalized plans for students who need to improve their academic performance.
2. In terms of attention to diversity, non-significant curricular adjustments are made in terms of methodology and assessment for those students with specific educational needs, pursuing an equal opportunities for all students.
3. We offer students different extracurricular resources to develop different competences that will encourage their personal and professional development.
4. Vocational guidance through the provision of tools and counselling to students with vocational doubts or who believe they have made a mistake in their choice of degree.

Students in need of educational support can write to us at:

orientacioneducativa@universidadeuropea.es

11. ONLINE SURVEYS

Your opinion matters!

The Universidad Europea encourages you to participate in several surveys which help identify the strengths and areas we need to improve regarding professors, degree programs and the teaching-learning process.

The surveys will be made available in the “surveys” section in virtual campus or via e-mail.

Your assessment is necessary for us to improve.

Thank you very much for your participation.