COURSE OUTLINE

(1) GENERAL

SCHOOL	PHYSICAL EDUCATION & SPORT SCIENCE		
SECTION	PHYSICAL EDUCATION & SPORT SCIENCE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AP-197EP	**SEMESTER OF STUDY**	Winter and Spring
COURSE TITLE	**PERFORMANCE ANALYSIS IN SPORT GAMES**		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY HOURSTEACHING**	**CREDIT UNITS**
Lectures	2	4

TYPE OF COURSE *General background, Specific background, Specialisation, General knowledge, Skills development*	Elective
PREREQUISITE COURSES:	-
LANGUAGE OF TEACHING AND EXAMINATION:	Greek /English
THE COURSE IS OFFERED TO STUDENTS ERASMUS	Yes
ELECTRONIC COURSE PAGE (URL)	https://eclass.uoa.gr/courses/PHED739/

(2) LEARNING OUTCOMES

Learning Outcomes

The introduction of students to the Sports Performance Analysis (SPA) for the feedback of the athlete and the coach, and for improving performance and better organisation of training. In addition, the introduction to Information and Communication Technologies (ICT), software, spatial-temporal logging, data management applications and data analysis and visualisation software to support the coach and subsequently improve the information provided to the athlete

Upon successful completion of the course, the student will be able to:

- use ICT to support the coaching work
- organise individual and team performance records, archive training plans, use digital methods of calculating training load
- to recognise the usefulness of software for spatiotemporal recording of racing performance, to select appropriate software according to the sport, age category and level of competition.
- evaluate the competitive performance of players and teams through analysis software
- process racing data with the support of software, and visualise in graphs (dynamic and static) racing data
- interpret analytical results, identify technical weaknesses and regular patterns
- use ICT to communicate analyses to athletes, coaches, print and electronic press

General skills

- Search, analysis and synthesis of data and information, using the necessary technologies
- Decision-making
- Autonomous work
- Teamwork
- Adapting to new situations
- Respect for the natural environment
- Project planning and management
- Demonstrate social, professional and ethical responsibility and sensitivity to gender issues

(3) COURSE CONTENT

Teaching units - Theoretical:

1. Description of the Sport Performance Analysis (AAA)
2. Feedback and provision of information
3. ICT in sport and physical education
4. Create and maintain a record of individual and team performance
5. Use of software for the analysis of skills and Tactic (I)
6. Use of software for the analysis of skills and Tactic (II)
7. Notational analysis
8. Design of a protocol observation in a spreadsheet for various sports
9. Observer reliability - methods for calculating reliability
10. Sports data management of categorical variables
11. Sports data management of tactical variables
12. Data visualisation through spreadsheet applications
13. Communication of SPA results

(4) TEACHING and LEARNING METHODS - EVALUATION

TEACHING METHODS

Live, face to face

USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES

-Support the learning process through the e-class platform.
- Use of ICT tools and applications for the visualisation of the results of the SPA, the observation and recording of sports games, in an integrated protocol analysis of technical movements (skills), the dissemination of the information of the course, the evaluation of the course, and the evaluation of the knowledge provided.
- Use of the teleconferencing platform (https://uoa.webex.com/meet/sodrikos) and online booking of time and place (office or telecall) appointments (https://calendar.app.google/rK8eTh6k9ykzLEGq9)

TEACHING ORGANIZATION

Activity	***Semester load***
Lectures	26
Preparation and presentation of the final project	20
Preparation of assignments (asynchronous micro-activities-ASD-, 5 ASD after the 2^h, 4^h, 6^h, 8^h and 10^h lectures, with a time limit of one (1) week for submission)	20
Independent study	30
Written examination	2
Individual communication with the teacher	2
Total Course (25 hours of workload per credit) 6 ECTS - 150 Educational load	**100**

STUDENT EVALUATION

Description of the evaluation process

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The evaluation includes:

1. Written exams in multiple-choice questions (50%)
2. Preparation and presentation of the final project (30%). Assignment and submission of the project exclusively through the e-class. Assessment according to an evaluation rubric.
3. Elaboration and evaluation of five (5) asynchronous micro-activities (20%). Commissioning and submission of asynchronous micro-activities exclusively through the e-class platform. Evaluation according to an evaluation rubric.

The syllabus, procedures and assessment criteria are communicated to students during lectures, mentioned in the course outline and in

	announcements posted on the e-learning platform.

(5) SUGGESTED REFERENCES

Suggested references:

Mike Hughes, Ian Franks (2023). Fundamentals of Performance Analysis in Sport. Athens: Publications CONSTANTARAS.

Kountouris, P., & Drikos, S. (2014). Analysis and interpretation of competitive performance in volleyball. Athens: ION Publications.

Memmert D. (2022). Match Analysis: How to use data in Professional Sports.

O'Donoghue, P. (2010). *Research methods for sports performance analysis*, Routledge.

Cullinane, A., Davies, G, & O'Donoghue, P. (2024). An Introduction to Performance Analysis of Sport (Routledge, Ed.; 2nd ed.). routledge.

- **Suggested Journals:**
- International Journal of Performance Analysis of Sports, https://www.tandfonline.com/journals/rpan20
- International Journal of Sport Sciences and Coaching, https://journals.sagepub.com/home/spo
- Journal of Human Movement and Exercise, https://www.jhse.es/index.php/jhse
- Journal of Quantitative Analysis in Sports, https://ideas.repec.org/s/bpj/jqsprt.html
- International Journal of Computer Science in Sport, https://sciendo.com/journal/IJCSS