



IDENTIFYING DATA

Analysis of Sports Performance

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|---------------------|--|----------|------|------------|
| Subject | Analysis of Sports Performance | | | |
| Code | P02M156V01204 | | | |
| Study programme | (*)Máster Universitario en Investigación en Actividade Física, Deporte e Saúde | | | |
| Descriptors | ECTS Credits | Choose | Year | Quadmester |
| | 20 | Optional | 1st | 2nd |
| Teaching language | Spanish Galician | | | |
| Department | Special Didactics | | | |
| Coordinator | García García, Óscar Gutierrez Santiago, Alfonso | | | |
| Lecturers | García García, Óscar Gutierrez Santiago, Alfonso Rey Eiras, Ezequiel | | | |
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| Web | | | | |
| General description | | | | |

Competencies

| | |
|------|---|
| Code | |
| A2 | The students known to apply the acquire knowledge and be able to solve problem in new environment or less known in wider contexts (or multidisciplinary) related with their study area. |
| A5 | The students own the ability of learn to continuous studying, in wide range, on a self-directed and autonomous way. |
| B2 | Be able to devise, design, put in to practice and adopt a research process rigorously academics in the physical activity, health and sports study ambit. |
| B4 | Critically analyze, evaluate and synthesize new and complex ideas in the physical activity, health and sports study ambit. |
| C2 | Develop scientific thoughts capacity to research in the physical activity, health and sports study ambit. |
| C4 | Show link attitudes with excellence habits, ethical commitment and quality in the research exercise physical activity, health and sports study ambit |
| C5 | Known and dominant the information search procedures and tools, both en primary and secondary sources in physical activity, health and sports. |
| C6 | Be able to analyze organized, select, classify and compile information about physical activity, health and sports study ambit. |
| C7 | Assess, manage and combine different techniques of physical activity, health and sports sciences research. |
| C9 | Be able to design and implement a research work in the physical activity, health and sports study ambit. |
| C10 | Manage software packages for the introduction and data analyze collected in the physical activity, health and sports study ambit. |
| C13 | Execute the most used statistical analyzed technique of the physical activity, health and sports research. |
| C16 | Be able to incorporated new technologies and integrate knowledge from other professional and scientific ambits. |
| C21 | Develop on a efficient manner own task[s] of the design, implementation, analyzed and publish work related wit the sports performance ambit. |
| D1 | Critically assess the knowledge, the technology and the available information to solve problems. |
| D2 | Effectively communicate in academic and informative ambits ideas and concepts linked with the physical activity, health and sports studies. |
| D3 | Be able to promote in academic and professional contexts activities to improve the technological advance, social and cultural, in physical activity, health and sports sciences field. |

D4 Use basic tools of information and communication technologies (ICTs) needed for their profession exercise and for the lifelong learning.

Learning outcomes

| Expected results from this subject | Training and Learning Results | | | |
|--|-------------------------------|----------|--|----------------------|
| The student will be able to realise an analysis of the sportive performance in a determinate sport, using like variables of study those that have showed to be determinated factors of the performance in this sport | A2 A5 | B2 | C2 C4 C5 C6 C7 C9 C16 C21 | D1 D3 D4 |
| The student will be able to interpret the results, giving felt to the most notable findings of his research, work and analysis of the data | | B2 B4 | C2 C10 C13 | D1 D2 D3 D4 |

Contents

| Topic | |
|--|---|
| The scientific method in the analysis in the sports | Identification of factors of the performance Hierarchy of the factors of the performance |
| Designs of investigation for the analysis of the sports | Designs of investigation for the analysis of the sports of situation Designs of investigation for the analysis of the sports bioenergetics |
| Implementation of a design for the analysis of one or several sports | Implement a design of investigation to analyse a concrete sport |
| Collected and processing of corresponding data to a design for the analysis of one or several sports | Collected and processing of corresponding data to a design for the analysis of the sport chosen |
| Oral communication and written of a design for the analysis of one or several sports | Oral communication and written of the design for the analysis of the sport chosen |

Planning

| | Class hours | Hours outside the classroom | Total hours |
|----------------------------|-------------|-----------------------------|-------------|
| Autonomous problem solving | 0 | 100 | 100 |
| Group tutoring | 12 | 30 | 42 |
| Seminars | 12 | 30 | 42 |
| Laboratory practices | 70 | 150 | 220 |
| Lecturing | 6 | 25 | 31 |
| Short answer tests | 0.5 | 32 | 32.5 |
| Essay | 0.5 | 32 | 32.5 |

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

Methodologies

| | Description |
|----------------------------|--|
| Autonomous problem solving | The student will resolve the tasks proposed by the educational |
| Group tutoring | Discussion in small groups on the contents of the matter |
| Seminars | They will treat specific subjects of form very concentrated |
| Laboratory practices | They will propose practices of laboratory |
| Lecturing | Theoretical classes-practical given by the educational |

Personalized attention

| Methodologies | Description |
|----------------------|---|
| Laboratory practices | Will resolve the doubts that can arise to the student on the use of different instruments, methods, designs, etc. |

Assessment

| Description | Qualification | Training and Learning Results |
|-------------|---------------|-------------------------------|
|-------------|---------------|-------------------------------|

| | | | | | | |
|--------------------|---|----|----|----------|--|----------------------|
| Short answer tests | The proof will consist in answering to a battery of ten questions of short answer | 25 | A5 | B4 | C2 C4 C6 C7 | D1 |
| Essay | The work will consist in the design of a project of investigation related with the analysis of the performance in a determined sport. The student realized a theoretical positioning using the existent bibliography and from ahi developed the aims, hypothesis, and method of a possible design of investigation. | 75 | A2 | B2 B4 | C2 C4 C5 C6 C7 C9 C10 C13 C16 C21 | D1 D2 D3 D4 |

Other comments on the Evaluation

The student will have to surpass all the proofs of evaluation to be able to surpass the subject. In case of not having surpassed the *asignatura in the first announcement, the no purchased competitions will be evaluated in the announcement of July. The evaluation in successive announcements will realise of the same forms that the posed initially with the two proofs. The official dates of the examinations can consult in the page web of the faculty of Sciences of the Education and of the Sport <http://fcced.uvigo.es>

Sources of information

Basic Bibliography

Hohmann, A., Lames, M., y Letzeier, M., **Introducción a la ciencia del entrenamiento.**, 1, Paidotribo, 2005

Tomas, J.R. y Nelson, J.K., **Métodos de investigación en actividad física.**, 1, Paidotribo, 2006

McGarry, T.; O'Donogue, P. y Sampaio, J., **Handbook of Sports performance analysis.**, 1, Routledge, 2013

Complementary Bibliography

Nacleiro, F., **Entrenamiento Deportivo: fundamentos y aplicaciones en diferentes deportes.**, 1, Medica panamericana, 2011

Neumaier, A. de Marees, H., Seiler, R., **Entrenamiento de la técnica. Contribuciones para un enfoque interdisciplinario.**, 1, Paidotribo, 2002

Magnusson, M.S., **Hidden real-time pattern in intra- and inter-individual behavior.**, European Journal of Psychological Assessment, 12(2), 1996

Beck, T. W., **The importance of a priori sample size estimation in strength and conditioning research**, Journal of Strength and Conditioning Research/Nati, 2013

Hopkins, W. G., Marshall, S. W., Batterham, A. M., & Hanin, J., **Progressive Statistics for Studies in Sports Medicine and Exercise Science**, Medicine & Science in Sports & Exercise, 4, 2009

Turner, A., Brazier, J., Bishop, C., Chavda, S., Cree, J., & Read, P., **Data Analysis for Strength and Conditioning Coaches: Using Excel to Analyze Reliability, Differences, and Relationships.**, Strength & Conditioning Journal, 37(1), 76-83., 2015

Recommendations

Subjects that it is recommended to have taken before

Exploratory Data Analysis and Inferential Analysis/P02M156V01108

Multivariate Analysis/P02M156V01109

Observation Designs Applied to Sports Research/P02M156V01105

Research Methods in Physical Activity and Sports Sciences/P02M156V01101

Scientific Communication and Documentation Sources in Physical Activity and Sports Sciences/P02M156V01102

Qualitative Methods in Physical Activity and Sports Sciences/P02M156V01106

Experimental and Quasi-experimental Methods in Physical Activity and Sports Sciences/P02M156V01103

Selective Correlational Methodology/P02M156V01104

Systematic Review and Meta-analysis/P02M156V01107