



Universitat de Lleida

DEGREE CURRICULUM
**INNOVATIVE TEACHING AND
INITIATION TO EDUCATIONAL
RESEARCH - PHYSICAL
EDUCATION**

Coordination: CASTAÑER BALCELLS, MARTA

Academic year 2021-22

Subject's general information

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| Subject name | INNOVATIVE TEACHING AND INITIATION TO EDUCATIONAL RESEARCH - PHYSICAL EDUCATION | | | |
| Code | 14305 | | | |
| Semester | ANUAL CONTINUED EVALUATION | | | |
| Typology | Degree | Course | Character | Modality |
| | Master's Degree in Secondary Education Teacher, Training and Language Teaching | 1 | OPTIONAL | Blended learning |
| Course number of credits (ECTS) | 5 | | | |
| Type of activity, credits, and groups | Activity type | PRAULA | TEORIA | |
| | Number of credits | 1 | 4 | |
| | Number of groups | 2 | 2 | |
| Coordination | CASTAÑER BALCELLS, MARTA | | | |
| Department | k | | | |
| Teaching load distribution between lectures and independent student work | 20 % Class Presencial 80 % holding a permit autonomous Work of the student | | | |
| Important information on data processing | Consult this link for more information. | | | |
| Language | Català i anglès | | | |
| Distribution of credits | 3 theoretical credits of the matter 1 theoretical - practical credit intermatter 1 practical credit | | | |

| Teaching staff | E-mail addresses | Credits taught by teacher | Office and hour of attention |
|----------------------------------|--------------------------|---------------------------|------------------------------|
| CAMERINO FOGUET, OLEGUER | ocamerino@inefc.udl.cat | 2 | |
| CASTAÑER BALCELLS, MARTA | mcastaner@inefc.es | 3 | |
| HERNÁNDEZ GONZÁLEZ, VICENÇ JOSEP | vicenc.hernandez@udl.cat | 3 | |
| REVERTER MASIA, JOAQUIN | joaquim.reverter@udl.cat | 2 | |
| RODRÍGUEZ ARREGUÍ, ROSA MARÍA | rrodriguez@inefc.es | 0 | |

Subject's extra information

In case of the sessions attend them, it is compulsory to attend like minimum to 80 % of the sessions any time there are no sanitary impediments on the part of the pupils and/or on the part of the university.

Four practical sessions will be realized attend them in the pavilion by what it is needed that the students dress clothes adapted for the practice.

Learning objectives

To acquire an open mind towards innovation and educational investigation in order to design projects of teaching innovation with support of searches of specific indexed publications.

To design didactic interdisciplinary sequences after applying practical situations that integrates proper procedures of innovative models of the EF with other scholar subjects of the secondary education.

To analyze, in an objective way, by means of the observational methodology the optimal verbal and paraverbal communicative style applied into situations of innovative procedures in EF.

Define and characterize research and educational innovation by establishing common points between research and educational innovation from Physical Education.

To know the different modalities of educational research describing the fundamental stages to investigate as well as the own sections that compose a research work.

Know the main procedures for searching for sources and resources of information based on quality criteria and impact factor of publications as well as the means to disseminate the results of innovation work in Physical

Education.

Know the scientific writing and its application to the writing of the Final Master's Thesis.

Guide and demonstrate the importance of a good bibliographic review for writing a Final Master's Thesis.

Learn and perform proper information retrieval and manage it operationally, quickly and efficiently.

Competences

Generic:

CG1. Team work and at interdisciplinary teams.

CG2. Oral and written communication.

CG3. Capacity of analysis and of synthesis.

CG5. Skills of management of the information.

CG10. With regard to the right equality essentials between men and women, to the promotion of the Human rights and to the proper values of the culture of the peace and to the democratic values.

CG11. Use of the foreign language.

CG12. Aptitude to design and to manage a project.

Specific:

CE22. To know and to apply innovative teaching proposals in the ambience of the experienced specialization.

CE23. To analyze critically the task of the teaching, of the good practices and of the orientation using indicators of the quality.

CE24. To identify the problems relative to the education and learning of the matters of the specialization and to raise alternatives and solutions.

CE25. To know and to apply methodologies and educational basic skills of investigation and evaluation and to be capable of designing and of developing research projects, innovation and evaluation.

Subject contents

The first block: Type and procedures of educational innovation in Physical education

Introduction to the Innovation in EF

- Typology and resources of implementation of innovation in EF.
- The current educational innovation based on the methods and the pedagogic models.

The interdisciplinary curricula between scholar subjects and the creative skills: procedure and strategies for the innovation in EF

- Design of interdisciplinary didactic sequences as modularity for the Didactic Units.
- Search of instruments of teaching innovation and use of the TIC and the TAC in the Physical education in Secondary.

The optimization of the teaching communication as a key to promote strategies of teaching innovation.

- The analysis of the verbal teaching communication and paraverbal.

- Analysis of the proper verbal communication paraverbal (cinesics; proxemics; cronemics and of paralanguage) in different specific situations of physical and sports education.

The second block: Project of innovation and investigation in the Physical education

The scientific method:

- o Quantitative research designs in EF
- o Qualitative research designs in EF
- Critical analysis of articles. Tools and strategies for innovation and research in Physical Education.
- Solvent procedures for finding sources and information resources based on quality indicators and impact factors for publications.
 - o The search for information in WoS, Scopus and Scholar.
- Structures of innovation and research reports and master's theses.
- From the project to the innovation and research report.
- Means of disseminating the results of innovation and research work in Physical Education in Secondary Education.

Methodology

In consonance to active pedagogics there will get together theoretical sessions and practices relative to two blocks of contents that the module contributes.

The search of indexed papers of educational innovation transverses to all the contents blocks. The teachers of the block will offer the materials that the students must work previously to the sessions.

Some interventions of the students will be of design and implementation of practical situations in which the students, working like teaching collaborative teams, will have to use procedures and innovative resources.

The students have to show self-management capabilities based on their previous baggage and the desire to improve as a professional role, a self-analysis of their communicative skills and put into practice throughout innovative resources.

Virtual classes. Oral presentations by the teacher, the use of didactic and technological resources adjusted with this modality of virtual-asynchronous teaching will be used. The contents will be exposed from an applied perspective (checking, visualizing or experimenting), ordering in a systematic way the contents and, encouraging the participation on the part of the student, from a critical perspective from the reflection, remembering, asking, criticizing and actively participating in its development.

Evaluation

The FIRST BLOCK: two compulsory evidences a) and b) of 30 % and 30 % that are overcome by 5 points over 10 points. It is compulsory to attend to 80 % of the whole of 4 practical days. (Teachers: Marta Castañer and Oleguer Camerino)

The SECOND BLOCK: a compulsory evidence of 40 %. To overcome the evidence it is necessary to come with 5 on 10 points. (Teachers: Joaquim Reverter and Vicenç Hernández)

THE FIRST BLOCK: Type and procedures of educational innovation in Physical education.

Description of the evidences of evaluation:

a) Evidence related to the curricular interdisciplinary between scholar subjects and the creative skills: procedure and strategies for the innovation in EF

Group work: the innovative and creative design is evaluated in the application of a practical session of curricular interdisciplinary (sports facilities INEFC during January - February) and the consequent design of a small didactic sequence in which the implemented session would be included (to present in power point format or similar applications of six slides, ruled previously by the teachers corresponding to six innovative paragraphs of the didactic sequence that are described in the following indicators)

Indicators:

The structure of every practical session has to fulfill the aspects that the teachers have explained in class: temporality and place of application; clear description of the contents and targets to work according to the place that the session has inside the set of the didactic sequence; activities adapted at the level of knowledge of the participants and that show an interdisciplinary and not juxtaposed contents making. At the end of the session a validation will be conducted together of the strong and weak points of the session as well as the innovative features that the students of the session will gather as report and will present like a point of in the exhibition of the didactic sequence of the second evidence.

The interdisciplinary didactic sequence will be exhibited in 15' or will be delivered (dependent on the current situation on the COVID19) with a power point or applications similar to 6 slides ruled by the students that it will be possible to unload of the paragraph resources of the virtual campus, which will include: innovative title of interdisciplinary appearance; brief differentiation of: introduction - description-justifying; relation stage between the contents, the competences and the targets; possible relations with a PEC and a pedagogic Project of teaching team; orientations for the pedagogic intervention; chaining and conductive thread of the sessions that would accompany the session put into practice and report of the strong and weak points of the practical session.

Clarification: A didactic sequence is not a unit of programming or didactic unit (UD) which it is developed in another module of the Master's degree. The didactic sequences are a small set of sessions with an of integration conductive thread (Dressing room and Castañer (2013): Guides Praxis E.S.O. Wolters Klouwert) that can nourish one YOU.

Dates: each group will apply the practical session the assigned day of January and February. The didactic sequence will be exposed or will deliver a week after the practical sessions. Second date: the same evidence with maximum date of delivery: two weeks after having finished the classes of the innovation module.

Value: 30 %

Competences to be evaluated: E22 Saber and to apply innovative teaching proposals in the ambience of the experienced specialization. E24 Identifying the problems relative to the education and learning of the matters of the specialization and to raise alternatives and solutions. E25. To know and to apply methodologies and educational basic skills of investigation and evaluation and to be capable of designing and of developing research projects, innovation and evaluation. G12 Aptitude to design and to manage a project. G1 Work in team and in interdisciplinary teams. G11 Use of a foreign language.

b) Evidence related to the optimization of the teaching communication, key to promote the strategies of teaching innovation

Individual work analyzing in an objective way, by means of the observational method and the reading of specific scientific articles, the optimal verbal and paraverbal communicative style in three situations of EF differentiated.

Indicators:

The work has to include: three situations of approximately 5 minutes of EF. The student will do a descriptive

analysis of the paraverbal categories that the teachers will have explained and the student will conduct a self-criticism in relation to the models and used innovative methods.

Dates: the week after the practical sessions. Second date: the same evidence two weeks after having finished the classes of the innovation module.

Value: 30 %

Competences to be evaluated: E25 To know and to apply methodologies and educational basic skills of investigation and evaluation and to be capable of designing and of developing research projects, innovation and evaluation. E23 Analyzing critically the task of the teaching, of the good practices and of the orientation using indicators of the quality. E24 To identify the problems relative to the education and learning of the matters of the specialization and to raise alternatives and solutions. G5 Skill of management of the information. G3 Capacity of analysis and of synthesis. G11 Use of the foreign language. G2 Oral and written communication. G10 Respect the right equality foundations between men and women, to the promotion of the Human rights and to the proper values of the culture of the peace and to the democratic values.

THE SECOND BLOCK: Project of innovation and investigation in the Physical education

Description of the evidences of evaluation:

c) Evidence relating to: Procedures for finding reliable sources and information resources based on quality indicators and impact factors of publications.

Individual work: analysis of scientific articles. The student will initially have to select all the scientific journals included in the category "Sport Sciences" or "Education & Educational Research" or "Hospitality, Leisure, Sport & Tourism" in the WoS database, through the Journal Citation Reports (JCR) within the Social Sciences Citation Index (SSCI) or Expanded Science Citation Index (SCIE).

Subsequently, you must list the journals included in this database that are available at the University of Lleida / INEFC. From these latest journals, he will select 4 articles published in the year beginning the academic year. The 4 articles must correspond to different topics from those taught in the syllabus of the subject (eg: Recommendations of EF in school; optimization of the subject of physical education; recommendations of physical condition in the classroom, ...).

For the first two articles the student must answer in a concrete way the following questions:

1. What has not yet been researched on the subject?
2. What goal do the authors pursue?
3. Which subjects has been assessed?
4. What evaluation methodology has been used?
5. What is the main conclusion?

For the last two articles the student must also answer the following questions:

6. What are the limitations of the study?
7. What research work associated with the article would be interesting to do?

Indicators:

Written work such as public presentation must meet the following criteria:

- Integrates knowledge to build a brief synthesis.
- Master the scientific language in Catalan, Spanish or a third language and communicate correctly o Communicates information orally correctly.
- Identifies and answers the questions being asked.
- Updates its bibliographic references and manages them with the help of databases and document managers efficiently.

Dates:

Delivery of the written document may be submitted one week after the last virtual session . The public defence in front of classmates and teachers will be the last virtual class (Group 1: 11/02/21; Group 2: 10/02/21). Recovery: they will be able to redo the work following the recommendations of the teachers. They will have a maximum of one week to redo and resubmit the work with a 20% penalty on the total of the second block.

Score: 40%

Competences to evaluate: G2 Oral and written communication. G5 Information and management skills. G3 Capacity for analysis and synthesis. G11 Use of the target language. G12 Ability to design and manage a project. E23 Critically analyse the work of teaching, good practices and guidance using quality indicators. E24 Identify problems related to the teaching and learning of specialization subjects and propose alternatives and solutions.

Alternative evaluation

For the first block it is essential to attend the sessions that will be dated by the teachers. The same evaluation evidence will have to be made as those indicated in the continuous evaluation with the same dates of presentation and delivery as well a search in Web of Science of five international scientific papers of the thematic of the block 1. Students will have to make a critical and annotated summary of at least three pages of each article. **For the second block** it is essential to attend the last work defence session. The student will defend his work through the sakai video conferencing tool or through any audio-visual montage. The duration will be 5 min. Even if the student is unable to attend the synchronous classes, he / she must present the same written evidence within the deadlines.

Bibliography

- Aibar, A., Julián, J. A., Murillo, B., García-González, L., Estada, S., and Bois, J. (2015). Actividad física y apoyo de la autonomía: El rol del profesor de Educación Física. *Revista de Psicología del Deporte*. 24(1), 155-161.
- Anguera, M. T., Camerino, O., Castañer, M., and Sánchez-Algarra, P. (2014). Mixed methods en actividad física y deporte. *Revista de Psicología del Deporte*. 23, 123–130.
- Anguera, M. T., Camerino, O., Castañer, M., Sánchez-Algarra, P., and Onwuegbuzie, A. (2017). Sports Sciences: Moving Forward in Mixed Methods Research and Proposals for Achieving Quantitative and Qualitative Symmetry. *Frontiers in Psychology*. 8:2196. doi: 10.3389/fpsyg.2017.02196
- Belando, N., Ferriz-Morell, R., and Moreno-Murcia, J. A. (2012). Propuesta de un modelo para la mejora personal y social a través de la promoción de la responsabilidad en la actividad fí-sico-deportiva. *RICYDE*, 8(29), 202-222. doi:10.5232/ricyde2012.02902
- Camerino, O., and Castañer, M. (coord.) (2013): *Guías Praxis para ESO de Educación Física*. Ciss-Praxis- Wolters Kluwer. ISBN: 9788471974792
- Camerino, O., Castañer, M., and Anguera, M. T. (2012). *Mixed Methods Research in the Movement Sciences: Cases in Sport, Physical Education and Dance*. Abingdon: Routledge.
- Camerino O, Valero-Valenzuela A, Prat Q, Manzano Sánchez D i Castañer M (2019) Optimizing

- Education: A Mixed Methods Approach Oriented to Teaching Personal and Social Responsibility (TPSR). *Frontiers in Psychology* 10:1439. doi: 10.3389/fpsyg.2019.01439
- Castañer M., Aiello, S., Prat Q, Andueza, J., Crescimanno, G. i Camerino O. (2020). Impulsivity and physical activity: A T-Pattern detection of motor behavior profiles. *Physiology & Behavior*, 219, 112849. <https://doi.org/10.1016/j.physbeh.2020.112849>
- Castañer, M., Camerino, O., & Anguera, M. T. (2013). Mixed Methods in the Research of Sciences of Physical Activity and Sport. *Apunts. Educación Física y Deportes*, 112, 31-36. [https://doi.org/10.5672/apunts.2014-0983.es.\(2013/2\).112.01](https://doi.org/10.5672/apunts.2014-0983.es.(2013/2).112.01)
- Castañer, M., Camerino, O., Anguera, M. T., and Jonsson, G. K. (2013). Kinesics and proxemics communication of expert and novice PE teachers. *Quality and Quantity*. 47:4, 1813-1829.
- Castañer, M., Camerino, O., Anguera, M. T., and Jonsson, G. K. (2016). "Paraverbal Communicative Teaching T-Patterns Using SOCIN and SOPROX Observational Systems," in *Discovering Hidden Temporal Patterns in Behavior and Interaction*, eds M. S. Magnusson, J. K. Burgoon, and M. Casarrubea (New York: Springer), 83-100. doi: 10.1007/978-1-4939-3249-8.
- Castañer, M., Franco, S., Rodrigues, J., and Miguel, C. (2012). Optimizing verbal and nonverbal communication in PE teachers, instructors and sport coaches. In *Mixed Methods Research in the Movement Sciences: Cases in Sport, Physical Education and Dance*, eds O. Camerino, M. Castañer, and M. T. Anguera (UK: Routledge), 177-214.
- Creswell, J. W. (2015). *A Concise Introduction to Mixed Methods Research*. Thousand Oaks, CA: Sage.
- Deci, E. L., and Ryan, R. M. (2012). "Self-determination theory," in *Handbook of Theories of Social Psychology*, eds P. A. M. Van Lange, A. W. Kruglanski, and E. T. Higgins (Thousand Oaks, CA: Sage), 416–437. doi: 10.4135/9781446201022
- Escartí, A., Wright, P., Pascual, C. and Gutiérrez, M. (2015). Tool for Assessing Responsibility-based Education (TARE) 2.0: Instrument Revisions, Inter-rater Reliability, and Correlations between Observed Teaching Strategies and Student Behaviors. *Universal Journal of Psychology*, 3(2), 55-63, 2015 <http://www.hrpub.org> Doi: 10.13189/ujp.2015.030205
- Escartí, A., Llopis-Goig, R., and Wright, P. M. (2018). Assessing the Implementation Fidelity of a School-based Teaching Personal and Social Responsibility Program in Physical Education and Other Subject Areas. *J. Teach. Phys. Educ.* 37:1, 12-23. doi: 10.1123/jtpe.2016-0200
- Fernández-Río, J. (2014). Another step in models-based practice: Hybridizing Cooperative Learning and Teaching for Personal and Social Responsibility. *The Journal of Physical Education, Recreation and Dance*, 85(7), 3-5.
- Fernández-Río, J. (2015). Models-Based Practice Reloaded: Connecting Cooperative Learning and Adventure Education. *The Journal of Physical Education, Recreation and Dance*, 86(6), 5-7.
- Hellison, D., Martinek, T., and Walsh, D. (2008). *Sport and responsible leadership among youth*. En N.L. Holt (Ed) *Positive youth development through sport* (pp. 49-60). New York: Routledge.
- Lorente, E, and Joven, A. (2011). The impact of physical education based on autonomy and responsibility on students' everyday life: A longitudinal study. *Exercise and Quality Life*, 3(2), 1-18.º
- Metzler, M.W. (2000). *Instructional models for physical education*. Needham Heights, Massachusetts: Allyn & Bacon.
- Gabin, B., Camerino, O., Anguera, M. T., & Castañer, M. (2012). Lince: multiplatform sport analysis software. *Procedia - Social and Behavioral Sciences*, 46. 4692-4694.
- Gibbs, P.; Cartney, P.; Wilkinson, K.; Parkinson, J.; Cunningham, S.; James-Reynolds, C.; Zoubir, T.; Brown, V.; Barter, P.; Sumner, P.; MacDonald, A.; Dayananda, A., and Pitt, A. (2016) Literature

review on the use of action research in higher education, *Educational Action Research*, 25(1), 3-22. DOI: 10.1080/09650792.2015.1124046

Gillies, R. M. (2016). Cooperative Learning: Review of Research and Practice. *AJTE*, 41(3), 39-54. doi: 10.14221/ajte.2016v41n3.3

Goodyear, V. A. (2017). Sustained professional development on cooperative learning: Impact on six teachers' practices and students' learning. *Research quarterly for exercise and sport*, 88(1), 83-94. doi: 10.1080/02701367.2016.1263381

Hastie, P. A., de Ojeda, D. M., and Luquin, A. C. (2011). A review of research on Sport Education: 2004 to the present. *Phys. Educ. Sport Pedagog.*, 16(2), 103-132.

Hellison, D. (2011). *Teaching responsibility through physical activity*. 3rd ed. Champaign, IL: Human Kinetics.

Lorente, E., and Kirk, D. (2016). Student teachers' understanding and application of assessment for learning during a physical education teacher education course. *European Physical Education Review*, 2 2(1) 65–81.

Pozo, P., Grao-Cruces, A., and Pérez-Ordás, R. (2016). Teaching personal and social responsibility model-based programmes in physical education. *Eur. Phys. Educ. Rev.* 24:1, 56-75. doi: 10.1177/1356336X16664749

Prat, Q., Camerino, O., Castañer, M., Andueza, J., and Puigarnau, S. (2019). The Personal and Social Responsibility Model to Enhance Innovation in Physical Education. *Apunts. Educación Física y Deportes*, 136, 83-99. [https://doi.org/10.5672/apunts.2014-0983.es.\(2019/2\).136.06](https://doi.org/10.5672/apunts.2014-0983.es.(2019/2).136.06)

Reverter-Masia, J., Hernández-González, V., Jové-Deltell, C., and Blanco i Felip, P. (2015). Productividad de los programas de máster oficiales en Ciencias del Deporte en España. Programas de Máster en Ciencias del Deporte. *Revista del Congrés Internacional de Docència Universitària i Innovació (CIDUI)*, 2. <https://www.cidui.org/revistacidui/index.php/cidui/article/view/734>

Reverter-Masia, J., Farràs, M., and Hernández-González, V. (2014). Com ensenyar a investigar. Avaluació a través de mini-article en un màster de ciències de l'esport. *Revista Moviment humà*, 6, 63-80. <https://repositori.udl.cat/handle/10459.1/49427>

Reverter-Masia, J., Jové-Deltell, C., Daza-Sobrino, G., and Hernández-González, V., (2013). Las revistas españolas en Ciencias de la actividad Física i el Deporte. Cómo elegir la revista donde publicar. *Educatio siglo XXI*, 30(1), 217-232. <https://revistas.um.es/educatio/article/view/149211>

Reverter-Masia, J., and Hernández-González, V. (2012). Artículos científicos: tipos secciones y publicación. *Revista Moviment humà*, 3, 9-15. <https://repositori.udl.cat/handle/10459.1/48348>

Reverter-Masia, J., and Hernández-González, V. (2012). Evaluación de un artículo científico. *Revista Moviment humà*, 3, 9-14. <https://dialnet.unirioja.es/servlet/articulo?codigo=4203584>

Reverter-Masia, J., and Hernández-González, V. (2011). Uso de las revistas científicas en los profesionales de la Educación Física. *Revista Moviment humà*, 2, 9-10. <https://repositori.udl.cat/handle/10459.1/48348>

Soto, A., Camerino, O., Iglesias, X., Anguera, M. T., and Castañer, M. (2019). LINCE PLUS: Research Software for Behaviour Video Analysis. *Apunts. Educación Física y Deportes*, 137, 149-153. [https://doi.org/10.5672/apunts.2014-0983.es.\(2019/3\).137.11](https://doi.org/10.5672/apunts.2014-0983.es.(2019/3).137.11)

Tissington, P., and Senior, C. (2017). Research Activity and the New Pedagogy: Why Carrying Out Research Is Essential for Effective Learning. *Front. Psychol.* 8:1838. doi: 10.3389/fpsyg.2017.01838

Valero-Valenzuela, A., Gregorio García, D., Camerino, O., and Manzano, D. (2020). Hybridisation of the Teaching Personal and Social Responsibility Model and Gamification in Physical Education. *Apunts. Educación Física y Deportes*, 141, 63-74. <https://doi.org/10.5672/apunts.2014-0983.es>

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