



#### **Coimbra Group Seminar**

#### Innovation in Learning and Teaching in Science, Technology, Engineering and Mathematics (STEM) fields

Granada, 14 November 2019
Salón de Grados, School of Architecture, Campo del Príncipe, Granada

#### **Objectives**

- To share good practices in institutional management and support services for innovation in learning and teaching
- To share useful and sustainable teaching and training experience implemented at Coimbra Group universities
- To promote the development of innovative ideas and good practices in learning and teaching in the field of STEM
- To establish new approaches and action lines for teaching and learning in Higher Education the new European scenarios of Erasmus, Horizon Europe and the Agenda 2030

#### **Participants**

- The seminar is open to the entire academic communities (students and staff) of all Coimbra Group Universities. It will be particularly useful for:
- Institutional coordinators and support officers for services related to innovation in learning and teaching and
- Teachers who are looking for or would like to share innovation in teaching and learning in STEM fields

#### **Programme**

Thursday, 14 October 2019		
09:00	Registration	
09:15	Opening and welcome Inmaculada Ramos Tapia	
	Director General of Universities. Regional Government of Andalusia  Dorothy Kelly	
	Vice-Rector for Internationalization. University of Granada	
	Mª Teresa Pozo Llorente	
	Director for Quality, Teaching Innovation and Planning. University of Granada	
	José María Manzano Jurado	
	Director of the School of Architecture. University of Granada	
	Giulia Licini	
	Chair of the STEM Working Group of the Coimbra Group of Universities. University of Padua	
10:15	Keynote lectures: Innovation in Learning and Teaching. Challenges and developments	

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	Women in STEM: Why so few in Higher Education?
	Nuria Rico Castro, Department of Statistics and Operational Research, University of Granada
	Innovative Teaching Approaches to attract, engage, and maintain women in STEM: W-STEM project
	Francisco José García-Peñalvo, Department of Computer Science and Automation, University of Salamanca
11:15	Coffee Break with poster exhibition
11:45	Round Table: Institutions of Higher Education as generators of innovation
	and good practices in learning and teaching: Organization of services for their development and support
	Jorge Expósito López  Director for Training, Innovation, and Teaching Staff Assessment. University of Granada
	Giulia Licini
	Department of Chemical Sciences. University of Padua
	Francisco José García-Peñalvo
	Department of Computer Science and Automation. University of Salamanca
	Krisztina Lénárt  Head of the Education Development and Talent Support Department, Eötvös Loránd  University, Budapest
	Dorota Malec
	Vice-Rector for University Development. Jagiellonian University. Cracow
	Jean-François Rees  President of the School of Biology, Université catholique de Louvain
13:00	Lunch
14:00	Guided tour to the School of Architecture
	Ricardo Hernández Soriano
	Director for Built Heritage. University of Granada
15:15	Showcasing experiences in innovation and good practices in learning and teaching in STEM fields
	Short communications (10 min)
	Combining Select-and-Fill-In Concept Maps and Peer Instruction in a New
	Evaluation Tool for Large Groups of Learners  Manuela Guisset, Guillaume Lobet and <u>Jean-François Rees</u> Faculty of Sciences / Bioengineering & Louvain Learning Lab, <i>Université catholique de Louvain</i> , Belgium
	Students in the Process of Exam Quizzes Building Jacek Urbaniec
	Head of the eLearning Centre, Jagiellonian University, Cracow
	Teaching4Learning: Promoting Innovative Teaching in Italian Higher Education. The case of University of Padua.
	Concetta Tino Department of Philosophy, Sociology, Pedagogy and Applied Psychology (FISPPA), University of Padua
	Active learning and teaching methods in Science lectures Vidita Urbonienė Institute of Chemical Physics. Vilnius University
	Flash Presentations (5 min)

#### **SPOCs: An Outstanding E-Learning Tool**

Alicia Domínguez-Martín

Department of Inorganic Chemistry. University of Granada

### Design and elaboration of didactic resources for teaching and learning of Mathematics in Primary Education

Esperanza López Centella

Department of Didactics of Mathematics. University of Granada

# An interdisciplinary participatory research as a teaching-learning strategy in the Bachelor of Medicine. Cohort study of lung development in students of Medicine

**Pedro Romero Palacios** 

Department of Medicine. University of Granada

#### Using QR codes as didactic resource in Analytic Chemistry

Ignacio de Orbe Payá

Department of Analytical Chemistry. University of Granada

### Accessing to statistics learning without limitations: A virtual self-learning environment for statistics

Ana María Lara Porras

Department of Statistics and Operational Research. University of Granada

## Preliminary results of the project "Orientation and capacitation of Chemical Engineering students to facilitate their job insertion"

María Ángeles Martín Lara

Department of Chemical Engineering. University of Granada

## The "Horizontal Metaphor" methodology as a tool for captivating architects into structural analysis

Fernando Gómez Martínez

Department of Structural Mechanics and Hydraulic Engineering. University of Granada

### Teaching transmission line innovation: An experience in the field of Electrical Engineering

Jesús Francisco Fornieles Callejón

Department of Electromagnetism and Physics of Matter. University of Granada

### An online repository for hands-on experiments for Experimental Physics classes

Artur Schmitt, María Tirado Miranda, Miguel Ángel Rodríguez Valverde Department of Applied Physics. University of Granada

#### **Questions and feedback**

#### 17:00 Poster exhibition (with coffee)

The authors will be able for questions and further information.

### Innovation in learning and teaching in Science, Technology, Engineering and Mathematics (STEM) fields

Rosario Arrovo González

Department of Didactics and School Organization. University of Granada

### PLEVALUA. Combined evaluation platform: Heteroevaluation, self-evaluation and coevaluation of students

**Antonio Vicente Rodríguez Fuentes** 

Department of Didactics and School Organization. University of Granada

#### Fruit flies and inheritance: A case of project-based learning

Rafael Navajas Pérez

Department of Genetics. University of Granada

#### Innovation in teaching Applied Mathematics at the University of Granada

Pedro González Rodelas

Department of Applied Mathematics. University of Granada

### Project-based learning for promotion of teamwork and communication techniques

María Clavero Gilabert

Department of Structural Mechanics and Hydraulic Engineering. University of Granada

### The historical collection of the Department of Zoology as teaching resource

Francisca del Carmen Ruano Díaz Department of Zoology. University of Granada

#### The virtual museum of Zoology and its evolution

Francisca del Carmen Ruano Díaz

Department of Zoology. University of Granada

#### **Physiotherapy**

Irene Cabrera Martos

Department of Physiotherapy. University of Granada

#### Use of plastinated organs as a support tool for your microscopic study

Cristina Elena Trenzado Romero

Department of Cell Biology. University of Granada

# Gamification and game-based learning for the development of STEAM skills in kindergarten, primary and secondary education. Updating initial teacher training

Alicia Fernández Oliveras

Department of Didactics of Experimental Sciences. University of Granada

## Teaching innovation in designing resources to evaluate competencies with PBL in the Nursing Degree

Carmen Enrique Mirón

Department of Inorganic Chemistry. University of Granada

## Application of the Flipped Classroom methodology in Higher Education: analysis of perceptions of future teachers

Inmaculada Aznar Díaz

Department of Didactics and School Organization. University of Granada

### Training in the early detection of gender violence through simulated clinical experience

Nicolás Mendoza Ladrón de Guevara

Department of Obstetrics and Gynaecology. University of Granada

# Incorporation of the perspective of gender, equity and Human Rights in teaching and learning of sexual and reproductive health

Nicolás Mendoza Ladrón de Guevara

Department of Obstetrics and Gynaecology. University of Granada

# Implementing an open source geographic information system in territorial planning workshops

Francisco Emilio Molero Melgarejo

Department of Urban and Spatial Planning. University of Granada

Virtual support assessment for the competencies of the final year project Maria Adelaida Álvarez Serrano Department of Nursing. University of Granada  Developing resources for teaching to students with Special Educational Needs (SEN) in Anatomy Laura Cabeza Montilla Department of Human Anatomy and Embryology. University of Granada  Application to generate exercises of econometrics Rosa Maria García Fernández Department of Quantitive Methods for Economics and Business. University of Granada  Developing resources for teaching of students with Special Educational Needs (SEN) in Anatomy Laura Cabeza Montilla Department of Human Anatomy and Embryology. University of Granada  Use of new technologies applied in the teaching of Anatomy area subjects Gloria Perazzoli Blomedical Research Centre (CIBM). University of Granada  Design and implementation of a network videogame as a platform for project-based learning: MATILDA (ModulAr Telematic topics related Development platform) Juan José Ramos Muñoz Department of Signal Theory, Telematics and Communications. University of Granada  17:30  Workshops: Looking for the future Dynamic working groups will be set up in order to discuss and design proposals for the future of teacher training and innovation in teaching and learning in Higher Education. Possible topics are (according to the interests of the participants): Group 1: Teacher training, new methodologies and resources Group 2: Sustainable development (Agenda 2030) in teaching and learning Group 3: other topics	project Maria Adelaida Álva Department of Nursing  Developing resources f Needs (SEN) in Anatom Laura Cabeza Montil Department of Human  Application to generate Rosa María García Fe Department of Quantit Granada  Developing resources fo Needs (SEN) in Anatom Laura Cabeza Montil Department of Human  Use of new technologie subjects Gloria Perazzoli Biomedical Research Co  Design and implementa project-based learning: Development platform) Juan José Ramos Mu Department of Signal T Granada  17:30  Workshops: Looking for the Dynamic working groups wil for the future of teacher tra Higher Education. Possible t participants): Group 1: Teacher tr Group 2: Sustainab learning Group 3: other topi	
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	18:30 Reporting from the workship	CS
18:30 Reporting from the workshops		
A speaker of each working group will present the conclusions and proposals for future projects and activities		
TOT TAKATE PROJECTS ATTA ACTIVITIES		
	Farewell and closure	

For further information, please contact:

#### **Prof. Dr. Artur Schmitt**

Department of Applied Physics University of Granada

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