## Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences



Training design form			
Training	ICT tools in Higher Education		
Educational program / project			
Trainers	Luis J. Rodríguez-Muñiz, Laura Muñiz-Rodríguez, Noelia Rico-		
	Pachón		
Participants (profile, number)	University teachers, 50		
Learning outcomes	To know ICT environments for preparing, editing and sharing		
	presentations, enriched videoclips, quizzes, tests and learning		
	environments for university-level teaching		
Place, dates	Online (taught from Oviedo), 9, 10 and 11 December 2020		

		Session:	Methods	Materials
9 <sup>th</sup> December	AM	10-11:30	Module 1A. Recording and editing quality videoclips	Presentation and video conference
2020	AM	11:30-13	Module 1B. Blended and flipped learning	Video conference
10 <sup>th</sup> December 2020	AM	10-13	Module 2A. eXeLearning as a tool for creating digital content	Presentation and video conference
11 <sup>th</sup> December 2020	AM	10-13	Module 2B. R as a tool for creating randomize test models exportable to Moodle	Presentation and video conference
	PM			

## Support and materials needed from the organizers:

Trainers report form		
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Preparation flow	The course has been designed based on University of Oviedo
	trainers' expertise. The preparation has been developed in
	contact with the coordination of project TeComp, during a total
	of 10 working days, started in June and finishing in December.
	The three trainers gather experience and expertise on the
	different fields and software. Luis J. Rodríguez Muñiz has been
	used video clip editing and recording software like OBS and
	OpenShot for more than 6 years, embedded into a flipped
	learning experience in University level (also using EdPuzzle for
	enriching the clips). Laura Muñiz Rodríguez has been using
	ExeLearning from their research in teacher training and has
	taught different courses for teachers at Secondary and
	University level. Noelia Rico Pachón is an expert in R and its
	different packages, particularly, she usually teaches courses
	about randomizing exams using R for University researchers and
	PhD students.
Methods used	Presentations, video conference, demos.
Learning outcomes, tasks for	Participants have to develop their own materials to train
participants after the training,	teachers in their universities about the ICT in the course
follow up	
Group dynamics observation	High level of participation, with many questions and suggestions
	during all the sessions
Trainers interventions,	None, everything ran as expected
changes regarding the plan	
Summed evaluation of the	
training course	
Recommendation for the	
organizers	
Other comments	

<b>☑</b> List of participants
☐ Evaluation forms
☐ Training design form
☐ Presentations and materials
Date:
Place:
Trainers: