



University Cadi Ayyad, from October 11 to 14

Training program on the use of ICT in mathematics teaching, funded by the European Union through the Erasmus+ CBHE project MathICs.

The call for applications is open until September 28 to all professors of mathematics and to all doctoral and master students in mathematics at the Cadi Ayyad University of Marrakech.

Organizers: Prof. M'hammed El Kahoui at elkahoui@uca.ac.ma.

Prof. Mustapha Ouali at m.ouali@uca.ac.ma.

Teaching staff				
Professor	Department	University	Country	Course
Fouad Bennis	Automatique et Robotique	École Centrale de Nantes	France	Pedagogical Approach to hybrid education
José Carmona Tapia	Mathematics	Universidad de Almería	Spain	GeoGebra as a support for Mathematics education
Luis Oyonarte Alcalá	Mathematics	Universidad de Almería	Spain	SageMath as a support for Mathematics education
Fernando Reche Lorite	Mathematics	Universidad de Almería	Spain	R as a support for Mathematics education











Training program on the effective use of ICT in mathematics teaching (MathICs)

PROGRAM

TUESDAY, OCTOBER 11				
	SOFTWARE Courses			
	SageMath	GeoGebra	R	
14:30 - 15:45	Lists & Tuples. Programming I & II	Introduction & General Overview. Dynamic Text Messages	Data Structures. Importing Data	
15:45 - 16:15	Coffee breack			
16:15 - 17:30	Programming III	Using Conditionals . Using Sliders	Basic Operation I & II	

LUNCH

PEDAGOGICAL APPROACH Courses			
9:30 - 10:45	Learning Theories I & II		
10:45 - 11:15	Coffee breack		
11:15 - 12:30	Workshop on Learning Theories		











Training program on the effective use of ICT in mathematics teaching (MathICs)

PROGRAM

WEDNESDAY, OCTOBER 12			
SOFTWARE Courses			
	SageMath	GeoGebra	R
9:30 - 10:45	Arithmetic & Number Theory I	Creating Animations	Building Procedures
10:45 - 11:15	Coffee breack		
11:15 - 12:30	Arithmetic & Number Theory II	Activity Menus I	Graphics I

LUNCH

PEDAGOGICAL APPROACH Courses			
14:30 - 15:45	Instructional Design		
15:45 - 16:15	Coffee breack		
16:15 - 17:30	Workshop on Instructional Design		











Training program on the effective use of ICT in mathematics teaching (MathICs)

PROGRAM

	THURSDAY, OCTOBER 13			
PEDAGOGICAL APPROACH Courses				
9:30 - 10:45	Instructional Design			
10:45 - 11:15	Coffee breack			
11:15 - 12:30	Workshop on Instructional Design			

SOFTWARE Courses			
	SageMath	GeoGebra	R
14:30 - 15:45	Functions & Calculus	Activity Menus II	Graphics II
15:45 - 16:15	Coffee breack		
16:15 - 17:30	Graphics	Randomized Questions I	Graphics III











Training program on the effective use of ICT in mathematics teaching (MathICs)

PROGRAM

FRIDAY, OCTOBER 14			
PEDAGOGICAL APPROACH Courses			
9:30 - 10:45	e-learning Design		
10:45 - 11:15	Coffee breack		
11:15 - 12:30	Workshop on e-learning Design		

SOFTWARE Courses			
	SageMath	GeoGebra	R
14:30 - 15:45	Matrices & Vectors	Randomized Questions II	R Commander I
15:45 - 16:15	Coffee breack		
16:15 - 17:30	Equation Solving	Developing New Tools	R Commander II





