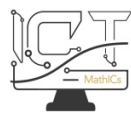




Université Mohammed V
Faculté des Sciences
Rabat



MathICs
STRENGTHENING MATHEMATICS EDUCATION
BY THE USE OF ICTs IN MOROCCO



Training program

<http://www2.ual.es/MathICs>

MONDAY, JUNE 27	
PEDAGOGICAL APPROACH (Faculté des Sciences de Rabat)	
9:30 - 10:45	Learning Theories I
10:45 - 11:15	Coffee break
11:15 - 12:30	Learning Theories II

SOFTWARE (Ecole nationale supérieure des mines de rabat)			
	SageMath	GeoGebra	R
14:30 - 15:45	Lists, Tuples, Sets & Dictionary	Introduction & General Overview	Data Structures
15:45 - 16:15	Coffee break		
16:15 - 17:30	Programming I	Dynamic Text Messages	Importing Data

TUESDAY, JUNE 28	
PEDAGOGICAL APPROACH (Faculté des Sciences de Rabat)	
14:30 - 15:45	Workshop on Learning Theories
15:45 - 16:15	Coffee break
16:15 - 17:30	Workshop on Learning Theories

SOFTWARE (Ecole nationale supérieure des mines de rabat)			
	SageMath	GeoGebra	R
9:30 - 10:45	Programming II	Using Conditionals	Basic Operation I
10:45 - 11:15	Coffee break		
11:15 - 12:30	Programming III	Using Sliders	Basic Operation II

WEDNESDAY, JUNE 29**PEDAGOGICAL APPROACH (Faculté des Sciences de Rabat)**

14:30 - 15:45	Instructional Design
15:45 - 16:15	Coffee break
16:15 - 17:30	Instructional Design

SOFTWARE (Ecole nationale supérieure des mines de rabat)

	SageMath	GeoGebra	R
9:30 - 10:45	Arithmetic & Number Theory	Creating Animations	Building Procedures
10:45 - 11:15	Coffee break		
11:15 - 12:30	Arithmetic & Number Theory	Activity Menus I	Graphics I

THURSDAY, JUNE 30**SOFTWARE (Ecole nationale supérieure des mines de rabat)**

	SageMath	GeoGebra	R
9:30 - 10:45	Functions & Calculus	Activity Menus II	Graphics II
10:45 - 11:15	Coffee break		
11:15 - 12:30	Graphics	Randomized Questions I	Graphics III

PEDAGOGICAL APPROACH (Faculté des Sciences de Rabat)

14:30 - 15:45	Workshop on Instructional Design
15:45 - 16:15	Coffee break
16:15 - 17:30	Workshop on Instructional Design

FRIDAY, JULY 1**SOFTWARE (Ecole nationale supérieure des mines de rabat)**

	SageMath	GeoGebra	R
9:30 - 10:45	Matrices & Vectors	Randomized Questions II	R Commander I
10:45 - 11:15	Coffee break		
11:15 - 12:30	Equation Solving	Developing New Tools	R Commander II

PEDAGOGICAL APPROACH (Faculté des Sciences de Rabat)

15:00 - 16:15	e-learning Design
15:15 - 16:30	Coffee break
16:30 - 18:00	e-learning Design

