

European Virtual Exchange



Sorbonne Université	Mobile devices programming (UI452)		
Course description	This course aims at providing the major concepts of mobile device programming. It focus on both iOS and Android and presents : the principles, the involved languages (when new) and the use of dedicated sensors.		
Domain	Computer science		
Keywords	Programming	Mobile devices	iOS Android
Prerequisites	The knowledge of Object Oriented programming is requested. Java will be used of Android and Swift will be used for iOS.		
Level	Master		
Language	English		
Number of credits and workload	6 credits	4-5 hrs per week	56-60 hrs in total
Semester period and Start date course	Semester 1	Start date: 18-Sep-18	
Application deadline	17-Sep-18		
Full course description	The objective of this course is to address the programming of mobile devices and show the possibilities they offer for developing new usages and applications. The course focuses on iOS first to illustrate the main challenges of such programming. Then, it shows how these mechanisms are implemented in Android (what is common and the different concepts). This course also puts some emphasis on practice by proposing each week, to apply the presented concepts by means of the development of mobile applications.		
Platform and link to course description	Dedicated companion web site	https://lip6.fr/Fabrice.Kordon/51452-2017/ (for 2017/2018)	
Lecturer(s)	Fabrice Kordon and Etienne Renault		
Final examination date and time / period			7-12 January 2019
Examination registration deadline or drop-out deadline	Examination registration before: N/A Drop- out deadline: N/A		
Type of examination	On computer		

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Midterm examination?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Practical work every active week + a project for Android
Previous exam papers available	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
Specific rules for examinations	Examination is in 3 parts: practical work every active week, a project for Android and an examination on computers for iOS.	
Resit? and date	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	11-17 June
Grade release and transcript release	February	

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Available places	60 equally distributed to the partners	
	Interested	10 places per university
UC Louvain	<input type="checkbox"/> yes	Click or tap here to enter number
EPFL	<input type="checkbox"/> yes	Click or tap here to enter number
UC3M	<input type="checkbox"/> yes	Click or tap here to enter number
Leiden	<input type="checkbox"/> yes	Click or tap here to enter number
Wageningen	<input type="checkbox"/> yes	Click or tap here to enter number
TU Delft	<input type="checkbox"/> yes	Click or tap here to enter number

General information	Sorbonne Université
Date start academic year:	3-Sep-18
Semester periods:	1st from 3-Sep-18 to 21-Dec-18 Additional information on semester 1 2nd from 21-Jan-19 to 11-May-19 Additional information on semester 2
Application deadline semester 1:	3-Sep-18 or enter text
Application deadline semester 2:	21-Jan-19 or enter text
Holiday periods:	27.10.2018 to 04.11.2018 22.12.2018 to 06.01.2018 20.04.2019 to 05.05.2018
Student data required for application:	First and last name, email address, study level, home university
General web site	https://www.sorbonne-universite.fr/
Virtual Exchange web site	http://www.telesciences.upmc.fr/fr/european-virtual-exchange.html
Virtual Exchange contact person(s) operational	Sabine Bottin-Rousseau
Virtual Exchange Email address	bottin@insp.jussieu.fr

List of courses available per semester

1st semester:

Introduction à la mécanique (BA1)

Calculus (BA1)

Si on parlait sciences (BA1)

Thermodynamics (BA3)

Introduction to Quantum Mechanics(BA3)

Concurrent Programming (BA3)

Bases of functional analysis 1 and 2 (Master1)

Programming on mobile platform IOS (Master2)

2nd semester:

Calcul matriciel (BA1)

Systèmes mécaniques et systèmes électroniques (BA1)