Universidad Carlos III de Madrid
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SUBJECT: Industrial Informatics II		
DEGREE: Industrial Electronics and Automation Engineering	COURSE: 4	SEMESTER: 1

Weekly Class Schedule

WEEK	CLASS	CLASS CONTENTS	GROUP (marcar X)		Other	2 Teachers	STUDENT WORK		
			B	P			DESCRIPTION	CLASS HOURs	HOURS (Max. 7h a week)
1	1	Topic presentation. It will be explained in detail: Topic content, assessments during course, detailed chronogram, and evaluation system.	X			NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
1	2	JAVA introduction, the language will be explained, including basic concepts and virtual machine.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
2	3	Topic 1. Introduction to Eclipse programming environment. Practical introduction to eclipse.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
2	4	Introduction to JAVA programming. My first program in JAVA.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
3	5	Module 1. Topic 1. Variables and data types in JAVA. It will be studied the concept of variable and the data types in JAVA, practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5

3	6	Module 1. Topic 1. JAVA operators. It will be studied the operators in JAVA. Practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
4	7	Module 1. Topic 2. Class, attributes and methods in JAVA. These Concepts will be studied and practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
4	8	Module 1. Topic 2. Class, attributes and methods in JAVA. These Concepts will be studied and practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
5	9	Module 1. Topic 2. Flow control in JAVA. It will be studied loops and flow control. Practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
5	10	Module 1. Topic 2. String class in JAVA. It will be studied the concepts and practical exercises about the use of strings. Practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
6	11	Module 1. Topic 3. Inputs and outputs. Basics concepts of inputs and outputs in JAVA will be studied, practical exercises will be proposed.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
6	12	Module 1. Topic 3. Vectors and Math class. It will be studied vectors and practical exercises will be proposed. In this class, it will be proposed a practice to be implemented in JAVA.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class Assessment: Practice in JAVA	1,66	5
7	13	Module 1. Topic 4. Exceptions and Errors. Exceptions.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
7	14	Module 1. Topic 4. Exceptions and Errors. Errors			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
8	15	Module 1. Topic 5. Data Structures. FIFO			Informatics	No	Previous reading of class topics Finish the exercises proposed in class	1,66	
8	16	Module 1. Topic 5. Data Structures. LIFO			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
9	17	Module 1. Robocode Practical Exercise. An exercise will be proposed based on Robocode software.			Informatics	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
9	18	Module 1 Evaluation.			Informatics	NO	Assessment: Practical exercise of Robocode	1,66	5
10	19	Module 2. Topic 1. Introduction to Android. It will be studied the basic concepts of the Android Operative System.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
10	20	Module 2. Practice 1. Introduction to Android studio			Laboratory	NO	Previous reading of class topics	1,66	5

							Finish the exercises proposed in class		
11	21	Module 2. Topic2. Android Activities. The life cycle of android applications will be studied.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
11	22	Module 2. Practice 2. Exercises related to the use of Activities in Android.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
12	23	Module 2. Topic 5. Sensors in Android.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	
12	24	Module 2. Practice 3. Exercises of the use of sensors in Android Studio.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
13	25	Module 2. Topic 4. Layouts.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class	1,66	5
13	26	Module 2. Practice 4. Exercises of the use of Layouts.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class		
14	27	Module 2. Topic 5. Fragments.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class		
14	28	Module 2. Practice 5. Exercises of the use of sensors fragments.			Laboratory	NO	Previous reading of class topics Finish the exercises proposed in class Assessment: Practice in ANDROID		
							Subtotal 1	**41,6**	**67**
		Total 1 *(1-14)*							
15		Class recoveries, tutoring, etc							
16		Evaluation						3	40
17									
18									
							Subtotal 2	**3**	**40**
		Total 2 *(15-18)*						43	
TOTAL *(Total 1 + Total 2. Máx 180 hours)*								**149,66**	