

SYLLABUS COURSE DESCRIPTION

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SCIENTIFIC SECTOR INF/01 DEGREE Bachelor in Computer Science SEMESTER 2nd YEAR 1st CREDITS 9 TOTAL LECTURING HOURS 30 PREREQUISITES Students should be familiar with the basic knowledge of object oriented programming and Java, as taught in the course "Computer Programming" COURSE PAGE SPECIFIC EDUCATIONAL OBJECTIVES The course is designed to give specific professional skills. It will proving students with advanced techniques in Java. In particular, students we acquire knowledge in the overall architecture and components of Java and JRE, use of advanced programming techniques (e.g. multi-thread reading/writing streams, generics, regular expressions, exception handling and testing) and code documentation (e.g. generate API documentation) the software developed. LECTURER TBA SCIENTIFIC SECTOR OF THE LECTURER TEACHING English	COURSE TITLE	Programming Project
DEGREE Bachelor in Computer Science SEMESTER 2nd YEAR 1st CREDITS 9 TOTAL LECTURING HOURS 30 PREREQUISITES Students should be familiar with the basic knowledge of object oriented programming and Java, as taught in the course "Computer Programming" COURSE PAGE SPECIFIC EDUCATIONAL OBJECTIVES The course is designed to give specific professional skills. It will proving students with advanced techniques in Java. In particular, students who acquire knowledge in the overall architecture and components of Java SC and JRE, use of advanced programming techniques (e.g. multi-thread reading/writing streams, generics, regular expressions, exception handling and testing) and code documentation (e.g. generate API documentation) the software developed. LECTURER TBA SCIENTIFIC SECTOR OF THE LECTURER TEACHING English	COURSE CODE	76204
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LANGUAGE	:	INF/01
OFFICE HOURS TRA		English
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of five fields	OF THE LECTURER TEACHING	



TEACHING ASSISTANT OFFICE HOURS	TBA TBA
LIST OF TOPICS COVERED	 Memory models in Java Virtual functions, late binding, overriding, and overloading Exception handling Reflection and runtime type identification Generics and collections I/O, serialization and XML/JSON processing Designing large applications: design patterns Multithreading Code optimization
TEACHING FORMAT	Frontal lectures Lab exercises Individual projects

LEARNING OUTCOMES	 Knowledge and understanding Know basic and advanced programming techniques Have a basic knowledge of the most important data structures and their use in programming languages Applying knowledge and understanding Be able to develop small and medium size programs using Java Be able to solve problems through the application of programming methods Making judgments Be able to work autonomously according to the own level of knowledge and understanding Communication skills Be able to structure and write scientific documentation Learning skills Have acquired learning capabilities to pursue further studies with a high degree of autonomy
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ASSESSMENT	
ASSESSMENT LANGUAGE	English
EVALUATION CRITERIA AND CRITERIA FOR AWARDING MARKS	

REQUIRED READINGS	
SUPPLEMENTARY READINGS	



SOFTWARE LISED	
JOI I WAILE GOLD	