

SPECIFICATION AND DEVELOPMENT OF SOFTWARE SYSTEMS 2016-2017

Bachelor Degree:	Software Engineering	801G	
Course title:	Specification and development of software systems	830	
Year/Semester:	2/Second Semester	ECTS Credits:	6

DEPARTMENT

Mathematics and Computer Science						
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ENGLISH-FRIENDLY FACULTY

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CONTENTS

UNIT1. Abstraction and formalisms in Programming.

UNIT2. Specification and implementation of data types.

UNIT 3. Abstract data types and object oriented programming.

UNIT 4. Specification of algorithms.

UNIT 5. Syntax and semantics of a simple imperative language.

UNIT 6. Notions on efficiency. Formal verification of algorithm correctness.

REFERENCES

Title

R. D. Tennent. "Specifying software". Cambridge University Press, 2002.

T. Budd. "An introduction to object-oriented programming". Addison-Wesley, 2002.

http://www.oracle.com/technetwork/java/index.html

http://www.eclipse.org/

http://krakatoa.lri.fr/

EVALUATION SYSTEM

70% Final written exam

30% Practical works and team projects

Knowledge on Programming techniques and Java programming language are necessary to follow the course

