




## MASTER'S DEGREE IN INTEGRITY AND DURABILITY OF MATERIALS, COMPONENTS AND STRUCTURES.

### COMPULSORY CORE MODULES:

#### MODULE I: BASIC MODULE (8 credits)

Code	Course	ECTS	Semester
7101	Structural Materials	4	Fall
 7102	Theory of Elasticity and Plasticity***	4	Fall

#### MODULE II: STRUCTURAL INTEGRITY (20 credits)

Code	Course	ECTS	Semester
7103	Fracture Mechanics	4	Fall
7104	Fatigue, Stress Corrosion and Creep	4	Fall
7105	Corrosion, Oxidation, Wear and Protection	4	Fall
7106	Numerical Simulation of Materials, Components and Structures	4	Fall
7107	Procedures for Evaluating the Structural Integrity	4	Spring

#### MODULE III: AUXILIARY TECHNOLOGIES OF PROFESSIONAL CHARACTER (12 credits)

Code	Course	ECTS	Semester
7108	Welding and Joining Technologies	4	Fall
7109	Technical Inspection and Non-destructive Tests	4	Spring
7110	Failure Analysis	4	Spring

#### MODULE IV: SPECIALIZED MODULE (8 credits)


Code	Course	ECTS	Semester
7111	Specialized Seminar I	4	Spring
7112	Specialized Seminar II	4	Spring

#### FINAL MASTER'S PROJECT (12 credits)

Code	Course	ECTS	Semester
7113	Final Master's Project	12	Spring

### IMPORTANT INFORMATION

\*\*\* English taught course

 English Friendly Courses.

- Fall Semester = 1<sup>o</sup> Semester
- Spring Semester = 2<sup>o</sup> Semester