

## BACHELOR DEGREE IN GEOMATIC ENGINEERING



### FIRST YEAR

CODE	SUBJECT	ECTS	TYPE*	SEM
125000401	CALCULUS I	6	BA	1º
125000402	STATISTICS	6	BA	1º
125000406	PHYSICS I	6	BA	1º
125000408	SOFTWARE PROGRAMMING I	6	BA	1º
125000416	GRAPHICAL EXPRESSION	6	BA	1º
125000403	ALGEBRA AND GEOMETRY	6	BA	2º
125000407	PHYSICS II	6	BA	2º
125000417	DATABASES	6	BA	2º
125000427	TOPOGRAPHY/SURVEYING	6	OR	2º
125000409	CARTOGRAPHY	6	OR	2º

### SECOND YEAR

CODE	SUBJECT	ECTS	TYPE*	SEM
125000404	CALCULUS II	4.5	BA	3º
125000435	DIGITAL IMAGES PROCESSING	4.5	OR	3º
125000418	GEOGRAPHIC INFORMATION SYSTEMS	4.5	OR	3º
125000405	ADJUSTMENT OF GEOMATIC MEASUREMENTS	6	OR	3º
125000410	SOFTWARE PROGRAMMING II	4.5	BA	3º
125000428	GEODESY	6	OR	3º
125000445	BUSINESS ORGANIZATION AND MANAGEMENT	6	BA	4º
125000429	SURVEYING METHODS	6	OR	4º
125000431	PHOTOGRAMMETRY	4.5	OR	4º
125000430	REMOTE SENSING	4.5	OR	4º
125000420	MATHEMATIC CARTOGRAPHY	4.5	BA	4º
125000419	SPATIAL DATA INFRASTRUCTURE	4.5	OR	4º

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### THIRD YEAR

CODE	SUBJECT	ECTS	TYPE*	SEM
125008515	GEOMORPHOLOGY AND CLIMATOLOGY	6	BA	5 <sup>o</sup>
125008518	TOPOGRAPHIC/SURVEYING METHODS PROJECTS	6	OR	5 <sup>o</sup>
125008525	NUMERICAL METHODS IN PHOTOGRAMMETRY	4.5	OR	5 <sup>o</sup>
125008526	CLOSE RANGE PHOTOGRAMMETRY	4,5	OR	5 <sup>o</sup>
125008531	CARTOGRAPHIC PRODUCTION	6	OR	5 <sup>o</sup>
125008543	GEOPHYSISC	3	OR	5 <sup>o</sup>
125008527	GEOMATIC APPLICATIONS WITH REMOTELY PILOTED AIRCRAFT SYSTEMS	4.5	OR	6 <sup>o</sup>
125008533	CIVIL ENGINEERING	4.5	OR	6 <sup>o</sup>
125008534	ENVIRONMENT MANAGEMENT	4.5	OR	6 <sup>o</sup>
125008544	PHYSICAL AND SPACE GEODESY	6	OR	6 <sup>o</sup>
125008548	CADASTRE	6	OR	6 <sup>o</sup>
125008549	URBAN AND LAND PLANNING	4,5	OR	6 <sup>o</sup>

### FOURTH YEAR

CODE	SUBJECT	ECTS	TYPE*	SEM
125008519	CIVIL ENGINEERING APPLICATIONS OF SURVEYING METHODS	6	OR	7 <sup>o</sup>
125008532	DESIGN AND MANAGEMENT OF GIS PROJECTS	4.5	OR	7 <sup>o</sup>
125008537	GNSS GEOMATIC APPLICATIONS	3	OR	7 <sup>o</sup>
125008538	ENGINEERING PROJECTS MANAGEMENT	4.5	OR	7 <sup>o</sup>
125008539	GEOMATICS PROJECTS	6	OR	7 <sup>o</sup>
125008550	ENGLISH FOR PROFESSIONAL AND ACADEMIC COMMUNICATION	6	OR	7 <sup>o</sup>
125008553	FINAL DEGREE PROJECT	12	TFG	8 <sup>o</sup>
125008514	<i>CIVIL AND ADMINISTRATIVE LAW</i>	6	OP	8 <sup>o</sup>
125008520	<i>INDUSTRIAL SURVEYING AND METROLOGY</i>	6	OP	8 <sup>o</sup>
125008521	<i>ADVANCED CIVIL ENGINEERING APPLICATIONS OF SURVEYING METHODS</i>	6	OP	8 <sup>o</sup>
125008540	<i>BUILDING INFORMATION MODELLING (BIM)</i>	6	OP	8 <sup>o</sup>
125008545	<i>GEODETTIC CONTROL NETWORKS</i>	6	OP	8 <sup>o</sup>
125008546	<i>NATURAL RISKS</i>	6	OP	8 <sup>o</sup>
125008547	<i>CADASTRAL VALUATION AND MANAGEMENT</i>	6	OP	8 <sup>o</sup>
125008551/2	<i>EXTERNAL INTERNSHIPS (PRACTICUM)</i>	6/12	OP	8 <sup>o</sup>

**Students must select 18 ECTS among the optative subjects from the 8<sup>o</sup> semester.**

\* Type of subject: BA.: basic. OR: orientation OP: Optional