

## MATHEMATICS DEGREE

Centre [\(see\)](#)

ECTS CREDITS	
Basic training (FB)	84
Compulsory (OB)	60
Optional (OP)	84
End-of-degree Project (TFG)	12
<b>Total</b>	<b>240</b>



[CLICK ON THE CODE OF EACH SUBJECT TO ACCESS THE COURSE HANDBOOK](#)

### FIRST YEAR

Code	Subject	Credits	Type	Semester
<a href="#">16440</a>	LABORATORY	6	FB	Annual
<a href="#">16434</a>	CALCULUS I	9	FB	1
<a href="#">16435</a>	LINEAR ALGEBRA I	9	FB	1
<a href="#">16436</a>	SETS AND NUMBERS	9	FB	1
<a href="#">16437</a>	CALCULUS II	9	FB	2
<a href="#">16438</a>	LINEAR ALGEBRA AND GEOMETRY	9	FB	2
<a href="#">16439</a>	NUMERICAL ANALYSIS	9	FB	2

### SECOND YEAR

Code	Subject	Credits	Type	Semester
<a href="#">16441</a>	ANALYSIS	9	OB	1
<a href="#">16442</a>	ALGEBRAIC STRUCTURES	9	OB	1
<a href="#">16443</a>	DISCRETE MATHEMATICS	6	FB	1
	OPTIONAL SUBJECT	6	FB	1
<a href="#">16444</a>	DIFFERENTIAL EQUATIONS	9	OB	2
<a href="#">16445</a>	GEOMETRY OF CURVES AND SURFACES	9	OB	2
<a href="#">16446</a>	PROBABILITY I	6	FB	2
	OPTIONAL SUBJECT	6	FB	2

### THIRD YEAR

Code	Subject	Credits	Type	Semester
<a href="#">16447</a>	TOPOLOGY	6	OB	1
<a href="#">16448</a>	STATISTICS I	6	OB	1
	OPTIONAL SUBJECTS	18	OP	1
<a href="#">16449</a>	COMPLEX ANALYSIS I	6	OB	2

Code	Subject	Credits	Type	Semester
<u>16450</u>	MODELIZATION	6	OB	2
	OPTIONAL SUBJECTS	18	OP	2

## FOURTH YEAR

Code	Subject	Credits	Type	Semester
	OPTIONAL SUBJECTS	48	OP	1 or 2
<u>16451</u>	END-OF-DEGREE PROJECT	12	TFG	Annual

### OPTIONAL SUBJECTS

#### ROUTE: A GROUP

Code	Subject	Credits	Type	Semester
<u>16454</u>	NUMERICAL METHODS FOR ODE	6	OP	1
<u>16456</u>	GALOIS THEORY	6	OP	1
<u>16457</u>	INTEGRATION AND MEASURE THEORY	6	OP	1
<u>16452</u>	PARTIAL DIFFERENTIAL EQUATIONS	6	OP	2
<u>16453</u>	DIFFERENTIAL GEOMETRY	6	OP	2
<u>16455</u>	PROBABILITY II	6	OP	2

#### ROUTE: B GROUP

Code	Subject	Credits	Type	Semester
<u>16460</u>	COMBINATORIAL AND ANALYTIC NUMBER THEORY	6	OP	1
<u>16462</u>	STATISTICS II	6	OP	1
<u>16465</u>	HISTORY OF MATHEMATICS	6	OP	1
<u>16467</u>	LOGIC	6	OP	1
<u>16468</u>	NUMERICAL METHODS FOR PDE	6	OP	1
<u>16471</u>	CRYPTOGRAPHY AND CODING THEORY	6	OP	1
<u>16473</u>	REAL ANALYSIS	6	OP	1
<u>16458</u>	COMMUTATIVE ALGEBRA	6	OP	2
<u>16459</u>	FUNCTIONAL ANALYSIS	6	OP	2
<u>16461</u>	MATHEMATICAL ECONOMY AND FINANCES	6	OP	2
<u>16463</u>	GEOMETRY AND TOPOLOGY	6	OP	2
<u>16466</u>	OPERATION RESEARCH	6	OP	2
<u>16469</u>	DIFFERENTIAL EQUATIONS AND APPLICATIONS	6	OP	2
<u>16472</u>	COMPLEX ANALYSIS II	6	OP	2

#### ROUTE: C GROUP

Code	Subject	Credits	Type	Semester
	UNITS FROM OTHER DEGREE SUBJECTS WITH A SUBSTANTIAL USE OF MATHEMATICS		OP	1 and 2

#### ROUTE: D GROUP

Code	Subject	Credits	Type	Semester
<u>16475</u>	EXTERNAL PRACTICAL	6	OP	Annual
<u>18879</u>	EXTERNAL PRACTICAL	12	OP	Annual
	LANGUAGES	6	OP	1 and 2

Code	Subject	Credits	Type	Semester
	TRANSVERSAL UNITS	6	OP	1 and 2

The student will have to take 84 ECTS in optional subjects, to be chosen between groups A to D (it should be noticed that at least 24 ECTS must belong to group A and at least other 24 ECTS must belong to the union of groups A and B).

## CENTRE

### Faculty of Sciences

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