

## CERTIFIES:

That Antón Echevarría, Raúl, with identity card number 71044337M, has taken the following subjects in the Bachelor's Degree in Robotic Intelligence, following the programme of study approved on 15 January 2022:

Year	Subject	Dur.	Type	Cred.	Year	Languages	Exam Period	Grade	
1	IR2101 Mathematics I (Mathematics)	FM	BT	6	23/24	es	1st Ordinary	Good	8.60
1	IR2102 Introduction to Robotic Intelligence	FM	C	6	23/24	ca/es	1st Ordinary	Good	8.30
1	IR2103 Programming I (Computing)	FM	BT	6	23/24	es	1st Ordinary	Very Good	9.30
1	IR2104 Computer Structure (Computing)	FM	BT	6	23/24	es	1st Ordinary	Good	8.50
1	IR2105 English (Modern Language)	FM	BT	6	23/24	en	1st Ordinary	Excellent with Honours	9.00
1	IR2106 Mathematics II (Mathematics)	FM	BT	6	23/24	es	1st Ordinary	Good	8.60
1	IR2107 Physics	FM	BT	6	23/24	ca/es	1st Ordinary	Excellent with Honours	9.80
1	IR2108 Mechanics and Optics (Physics)	FM	BT	6	23/24	es	1st Ordinary	Very Good	9.90
1	IR2110 Programming II (Computing)	FM	BT	6	23/24	ca/es	1st Ordinary	Excellent with Honours	9.10
1	IR2113 Operating Systems Laboratory	FM	C	6	23/24	es	1st Ordinary	Excellent with Honours	9.00
2	IR2109 Business Organisation and Management (Business)	FM	BT	6	24/25	es	1st Ordinary	Good	8.60
2	IR2111 Supplementary Mathematics (Mathematics)	FM	BT	6	24/25	ca	1st Ordinary	Excellent with Honours	9.90
2	IR2112 Statistics and Optimisation (Statistics)	FM	BT	6	24/25	ca/es	1st Ordinary	Excellent with Honours	9.50
2	IR2114 Advanced Programming	FM	C	6	24/25	es	1st Ordinary	Excellent with Honours	9.40
2	IR2115 Introduction to Networks	FM	C	6	24/25	ca/es	1st Ordinary	Good	8.80
2	IR2116 Electronics	FM	C	6	24/25	es	1st Ordinary	Good	8.70
2	IR2117 Robot Programming and Simulation	FM	C	6	24/25	ca/es	1st Ordinary	Excellent with Honours	9.60
2	IR2118 Sensors and Actuators	FM	C	6	24/25	es	1st Ordinary	Good	7.40
2	IR2119 Foundations of Artificial Intelligence	FM	C	6	24/25	es	1st Ordinary	Excellent with Honours	9.20
2	IR2129 Ethics of Robotic Intelligence	FM	C	6	24/25	ca/en	1st Ordinary	Very Good	10.00
3	IR2120 Robotic Manipulation	FM	C	6	25/26	es		Not assessed	
3	IR2121 Mobile Robotics	FM	C	6	25/26	ca/es	1st Ordinary	Excellent with Honours	9.30
3	IR2122 Pattern Recognition	FM	C	6	25/26	ca/es		Not assessed	
3	IR2123 Automated Systems	FM	C	6	25/26	es		Not assessed	
3	IR2124 Advanced Automated Systems	FM	C	6	25/26	es		Not assessed	
3	IR2126 Artificial Vision	FM	C	6	25/26	es		Not assessed	
3	IR2127 Telerobotics	FM	C	6	25/26	es/en		Not assessed	
3	IR2128 Intelligent Systems	FM	C	6	25/26	es/en		Not assessed	
3	IR2160 Design of Digital Systems	FM	C	6	25/26	es		Not assessed	

The General Secretary

The officer of the Teaching and Student Management Service  
Dolores Ten Beltrán

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3	IR2162 Design of Embedded and Real-Time Systems	FM	C	6	25/26	es	Not assessed
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Credits recognised for proven professional or work experience

Year	Subject	Dur.	Type	Cred.	Year	Languages	Exam Period	Grade
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University activities leading to optional credits

Activity	Cred.	C.A.	Languages	Grade
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Recognition of optional credits for mobility programmes

Activity	Cred.	C.A.	Languages	Grade
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Credit summary	Required	Passed
Basic training (BT)	66,0	66,0
Compulsory (C)	150,0	60,0
Optional (O)	6,0	0,0
External Placement (EP)	6,0	0,0
Final-Year Assignment (FYA)	12,0	0,0

Average grade: 9,07

Following Royal Decree 1125/2003, the grading scale is the following:  
Fail: 0-4,9 Pass: 5-6,9 Good: 7-8,9 Very good: 9-10 Excellent with honours: 9-10

(3) Subject studied in another university on an exchange programme.

(4) Subject studied in another university under a double degree agreement.

(5) Subject taken at a host organisation under a mobility programme.

**FM:** four-monthly, **A:** annual, **BT:** basic training, **C:** compulsory, **O:** optional, **EP:** external placement, **FYA:** final-year assignment

Language codes follow the iso-639-1 standard:

**ca:** valencian, **en:** english, **es:** spanish

The General Secretary

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