

School of Computer Engineering of Ciudad Real
5-year Degree in Computer Science

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Centre Details	Address	Escuela Superior de Informática Paseo de la Universidad, 4 13071 Ciudad Real
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Description of the Syllabus	Professional Qualification	5-year Degree in Computer Science
	Duration	5 years
	Division in Cycles	2 cycles. First cycle:3 years. Second cycle: 2 years

Name of the Faculty/Centre	School of Computer Engineering of Ciudad Real
Professional Qualification	5-year Degree in Computer Science
Date of the Syllabus	1998
Overall number of classes in UCLM credits	366
Overall number of classes in ECTS credits	300

First Year

Code	Subject	ECTS Credits
42501	Discret Mathematics and Algebra	9
42502	Calculus	7,5
42503	Physical Computing Foundations	7,5
42506	Programming Methodology and Technology	13
42507	Logic	5
42508	Computers Technology	6,5
42509	Numerical Analysis	4
42510	Computer Structure and Technology	7,5

Second Year

Code	Subject	ECTS Credits
42513	Statistics	7,5
42515	Data Information Structures	10
42516	Operating Systems	7,5
42517	Automata Theory and Formal Languages	7,5

42521	Computer Organisation I	5
42522	Ampliation of Programming	7,5
42525	Declarative Programming	7,5
42527	Computer Organisation II	5
	<i>Free Configuration</i>	2,5

Third Year

Code	Subject	ECTS Credits
42529	Databases	7
42532	Advanced Mathematics	5
42534	Ampliation of Operating Systems	5
42536	Electronics	5
42537	Concurrent Programming	5
42539	Simulation	5
	<i>Optional Course</i>	15
	<i>Free Configuration</i>	13

Fourth Year

Code	Subject	ECTS Credits
42540	Computer Architecture and Engineering	7,5
42541	Software Engineering I	7,5
42542	Artificial Intelligence and Knowledge Engineering	7,5
42543	Language Processors	7,5
42544	Computer Networks	7,5
42545	Human-Computer Interaction Systems	7,5
42546	Industrial Automatisation	7,5
42547	Information Systems Planning and Management	7,5

Fifth Year

Code	Subject	ECTS Credits
42551	Software Engineering II	7
42553	Computer Systems (Practical Project)	12,5
	<i>Optional Course</i>	28
	<i>Free Configuration</i>	12,5

First Cycle Optional Courses

Code	Subject	ECTS Credits
42555	Operating Systems Administration	5
42560	Operative Research	5
42561	Programming Tools and Environments	5
42562	Technical English I	5
42563	Technical English II	5
42568	Hardware Design and Synthesis	5
42569	Interfaces and Peripherals	5
42570	Microelectronics	5
42574	Computer Aided Design and Manufacturing	5
42575	Systems and Signals	5
42596	Computer Graphics	5
42598	Promotion of Communication	5

Second Cycle Optional Courses

Code	Subject	ECTS Credits
42600	Information Storage and Retrieval	3,5
42601	Distributed Systems Architecture	3,5
42602	Computer Audit and Security	3,5
42603	Computer Guided Control	3,5
42604	Speech Technology	3,5

42605	User Interfaces	3,5
42606	Advanced Models of Databases	3,5
42607	Artificial Intelligence, Models and Applications	3,5
42608	Multimedia, Hypermedia and Virtual Reality	3,5
42609	Multimedia Data Processing	3,5
42610	Signal Processing	3,5
42611	Robotics	3,5
42612	Learning Systems	3,5
42613	Computer Integrated Production Systems	3,5
42614	Real Time Systems	3,5
42616	Collaborative Systems	3,5
42617	Computer Vision	3,5
42622	High Performance Networks	3,5
42639	Data Communication	3,5
42640	Mobile Networks and Services	3,5
42641	Network Management	3,5
42642	Network Planning and Integration	3,5
42643	Critical Systems Design	3,5
42644	Quality of the Information Systems	3,5