

# Polytechnics Institute of Portalegre

## COMPUTER ENGINEERING Undergraduate Degree - 3 years

Year	Semester	Curricular Unit	ECTS
1	Winter	Digital Electronics	7.5
1	Winter	Introduction to Programming	7.5
1	Winter	Mathematical Analysis	5
1	Winter	Linear Algebra and Analytical Geometry	5
1	Winter	Technical English	5
1	Spring	Computational Physics	5
1	Spring	Object Oriented Programming	7.5
1	Spring	Algorithms and Data Structures	5
1	Spring	Computer Architecture	7.5
1	Spring	Probability and Statistics	5
2	Winter	Databases I	7.5
2	Winter	Human-Machine Interface	5
2	Winter	Computer Graphics	5
2	Winter	Operating Systems	7.5
2	Winter	Numerical Methods and Optimization	2.5
2	Winter	Computer Theory	2.5
2	Spring	Web Programming with Databases	5
2	Spring	Artificial Intelligence	5
2	Spring	Databases II	7.5
2	Spring	Computer Networks I	7.5
2	Spring	System Analysis and Design	5
3	Winter	Computer Project Management	5
3	Winter	Computer Networks II	7.5
3	Winter	Software Engineering	5
3	Winter	Distributed Systems	7.5
3	Winter	Information Systems Technological Architectures	5
3	Spring	Systems Administration	5
3	Spring	Industrial Computing	5
3	Spring	Entrepreneurship	2.5
3	Spring	Security	2.5
3	Spring	Project	15