

Ministry of Higher Education
Universidad Central "Marta Abreu" de Las Villas
Santa Clara, Cuba

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Faculty: Mathematics, Physics and Computing
Master's in: COMPUTER SCIENCE

Master's Certificate of Completion

I certify that Mr César Soto Valero, Student ID 89091931786, completed and passed the modules required for this Master's course, the twelfth year of which began on 20th April 2015 and ended with a dissertation viva voce on 7th December 2016. Below are the modules taken by the student:

	<u>Module Title</u>	<u>Hours</u>	<u>Credits</u>	<u>Grade</u>
1	Databases for Decision-Making	96	2	Excellent
2	Neuro-Fuzzy Computing	96	2	Excellent
3	Parallel Computing	96	2	Excellent
4	Pattern Recognition	96	2	Excellent
5	Artificial Neural Networks	96	2	Good
6	Knowledge-Based Systems	96	2	Excellent
7	Computer Communications and Networks	144	3	Pass
8	Advanced Data Structure	144	3	Excellent
9	Software Project Management	144	3	Pass
10	Computational Mathematics	144	3	Good
11	Scientific Research Methodology	144	3	Excellent
12	Data Modelling and Knowledge	144	3	Excellent
13	Advanced Programming Techniques	144	3	Good
14	Advanced Problem-Solving Methods	192	4	Pass
	Totals:	<u>1776</u>	<u>37</u>	

The Academic Board approved the student's non-taught credits, awarding them 28 credits.

The student also presented and defended their dissertation entitled:

Applying predictive models to baseball

in public before the relevant assessors and received a grade of Excellent, obtaining 25 credits. Therefore, having amassed 90 credits in total, the student received the academic degree of Master's in:

COMPUTER SCIENCE

Signed: 10th January 2017

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[signature]

Mr Juan Manuel Navarro Céspedes MSc
Faculty Teaching Secretary

[signature]

Dr María Matilde García Lorenzo
Coordinator

[signature]

Dr Yanet Rodríguez Sarabia
Dean

