

According to the information contained in this Department, D. Francisco Javier Jiménez Fernández with National Identification Number 26807340N has passed the university studies leading to the award of Bachelor's Degree in Physics (Official Spanish Gazette, November 26<sup>th</sup> 1997) studies are listed below, with the following qualifications:

### FIRST STAGE

Credits needed:	Core: 103.5	Mandatory: 24	Optional: 37.5	Free Elective: 15
Credits achieved:	Core: 103.5	Mandatory: 24	Optional: 37.5	Free Elective: 15

Subject	ThCred	PrCred	Grade	Passed in
<b>Core Subjects</b>				
<i>ELECTROMAGNETISM</i>	7	3.5	NOTABLE: 7.0	JUN 03/04
6671111 ELECTROMAGNETISM	7	3.5		
<i>QUANTUM PHYSICS</i>	7	3.5	PASS: 5.0	JUN 03/04
6671112 QUANTUM PHYSICS	7	3.5		
<i>MECHANICS AND WAVES</i>	7	3.5	NOTABLE	JUN 02/03
6671113 MECHANICS AND WAVES	7	3.5		
<i>MATHEMATICAL METHODS</i>	22	11		
6671114 MATHEMATICAL METHODS IN PHYSICS I	4	2	NOTABLE	FEB 01/02
6671115 MATHEMATICAL METHODS IN PHYSICS II	8	4	OUTSTANDING	JUN 01/02
6671116 MATHEMATICAL METHODS IN PHYSICS III	4	2	PASS	JUN 01/02
6671117 MATHEMATICAL METHODS IN PHYSICS IV	6	3	NOTABLE	JUN 02/03
<i>OPTICS</i>	7	3.5		
6671118 OPTICS	7	3.5	OUTSTAND: 9.0	JUN 03/04
<i>EXPERIMENTAL TECHNIQUES IN PHYSICS</i>	3	15		
667111B EXPERIMENTAL TECHNIQUES IN PHYSICS II	1.5	9	OUTSTAND: 9.0	JUN 03/04
6671119 EXPERIMENTAL TECHNIQUES IN PHYSICS I	1.5	6	OUTSTANDING	SEP 02/03
<i>THERMODYNAMICS</i>	7	3.5		
667111E THERMODYNAMICS	7	3.5	NOTABLE: 7.0	JUN 04/05
<b>Mandatory Subjects</b>				
667111F PHYSICS FUNDAMENTALS I	5	2.5	NOTABLE	JUN 01/02
667111G PHYSICS FUNDAMENTALS II	3	1.5	NOTABLE	SEP 01/02
667111I NUMERICAL SIMULATIONS IN PHYSICS	4	2	OUTSTANDING	SEP 02/03
667111H BASIC EXPERIMENTAL TECHNIQUES	2	4	CUMLAUDE	JUN 01/02
<b>Optional Subjects</b>				
99900C0 ENGLISH FOR SPECIFIC PURPOSES I	4.5	0	CUMLAUDE	FEB 01/02
99900CS ENGLISH FOR SPECIFIC PURPOSES II	4.5	0	CUMLAUDE	JUN 02/03
66711F6 BIOPHYSICS	3	1.5	CUMLAU.: 9.5	JUN 05/06
66711F7 COLLOIDAL PHYSICS	4	2	OUTSTAND: 9.0	JUN 05/06
66711F1 FLUID PHYSICS	4	2	CUMLAU.: 10	FEB 05/06
66711C5 ENVIRONMENTAL PHYSICS	4	2	CUMLAU.: 9.5	FEB 04/05
66711C7 MATHEMATICAL PHYSICS (INTEG. AND PART. DIFFERENTIAL EQUATIONS)	4	2	OUTSTAND: 9.0	JUN 03/04
<b>Free Elective Subjects</b>				
99900IT RECREATIONAL PHYSICS	2	2.5	OUTSTAND: 9.0	JUN 03/04
999006Z MATHEMATICA FOR PHYSICISTS	1.5	3	CUMLAU.: 10	FEB 04/05
99900VE RHEOLOGY: FUNDAMENTALS AND APPLICATIONS	3	3	OUTSTAND: 9.3	JUN 04/05

**This student HAS PASSED the first stage of this degree. Average Grade: 2.692 (out of 4) and 8.477 (out of 10).**

## SECOND STAGE

Credits needed:	Core: 55.5	Mandatory: 0	Optional: 49.5	Free Elective: 15
Credits achieved:	Core: 55.5	Mandatory: 0	Optional: 52.5	Free Elective: 15

Subject	ThCred	PrCred	Grade	Passed in
<b>Core Subjects</b>				
<i>CLASSICAL ELECTRODYNAMICS</i>	5	2.5		
6671121 CLASSICAL ELECTRODYNAMICS	5	2.5	NOTABLE: 8.0	JUN 04/05
<i>ELECTRONIC</i>	6	6		
6671122 ELECTRONICS I	4	2	PASS: 6.0	SEP 04/05
6671123 ELECTRONICS II	2	4	NOTABLE: 8.5	FEB 05/05
<i>SOLID STATE PHYSICS</i>	5	2.5		
6671124 SOLID STATE PHYSICS	5	2.5	CUMLAU.: 10	FEB 05/06
<i>STATISTICAL PHYSICS</i>	5	2.5		
6671125 STATISTICAL PHYSICS	5	2.5	PASS: 6.5	JUN 04/05
<i>NUCLEUS AND PARTICLE PHYSICS</i>	5	2.5		
6671126 NUCLEUS AND PARTICLE PHYSICS	5	2.5	PASS: 5.5	JUN 04/05
<i>QUANTUM MECHANICS</i>	5	2.5		
6671128 QUANTUM MECHANICS	5	2.5	NOTABLE: 7.0	FEB 04/05
<i>THEORETICAL MECHANICS</i>	4	2		
6671129 THEORETICAL MECHANICS	4	2	OUTSTAND:9.0	FEB 04/05
<b>Optional Subjects</b>				
99900ZI CIRCUITS AND LINEAR SYSTEMS ANALYSIS	3	3	OUTSTANDING	SEP 02/03
99900ZM COMPUTER BASICS I	3	3	NOTABLE	JUN 01/02
99900ZN PROGRAMMING BASICS	3	1.5	NOTABLE	FEB 01/02
66711E3 ELECTRONICS PHYSICS	4	2	OUTSTAND:9.0	JUN 05/06
66711D3 PHYSICS OF VISION	3	1.5	OUTSTAND:9.0	JUN 05/06
66711E6 PHYSICS OF MATERIALS	5	2.5	OUTSTAND: 10	JUN 05/06
66711F3 PROPAGATION AND RADIATION OF ELECTROMAGNETIC WAVES	3	1.5	NOTABLE: 7.6	FEB 05/06
66711C2 RADIOACTIVITY AND APPLICATIONS	3	1.5	OUTSTAND:9.0	JUN 04/05
18711A6 RADIOMETRY, PHOTOMETRY AND COLOUR	6	3	CUMLAU.: 10	FEB 05/06
<b>Free Elective Subjects</b>				
9900X7 THE MEANING OF THE THEORY OF RELATIVITY	4.5	0	OUTSTAND:9.3	FEB 05/06
99003A PHYSICS OF CLOUDS AND AEROSOLS	4	2	CUMLAU.: 10	JUN 04/05
99900XS MECHANICS CONCEPTUAL HISTORY & GENESIS	3.5	1	NOTABLE: 7.5	FEB 03/04

**This student HAS PASSED the second stage of this degree. Average Grade: 2.512 (out of 4) and 8.368 (out of 10).  
 >> This student WAS ELIGIBLE for obtaining this Bachelor's Degree in JUN 2005/2006  
 >> AVERAGE grade per credit of this degree: 2.619 (out of 4) and 8.433 (out of 10).**

*	Equivalences to the average grade (out of 4): (1 Pass, Validated), (2 Notable), (3 Outstanding), (4 CumLaude) Calculated in accordance with Royal Decree 1497/87, partially amended by Royal Decree 1044/03 and under Commission Agreements Single District University of Andalusia.
**	Equivalences to the average grade (out of 10, when the subjects have not been rated numerically): (6 Pass, Validated), (8 Notable), (9.5 Outstanding), (10 CumLaude) Calculated in accordance with art. 5 of Royal Decree 1125/03 and the Sole Additional Provision of Royal Decree 1044/03.