

PHD IN MATHEMATICS METHODS AND MODELLING IN SCIENCE AND ENGINEERING (2018-19)

Código: E018	Fecha de aprobación: 12/06/2014	Precio: 300 € por curso académico
Créditos: Not defined	Título: Doctorate (ECTS)	

RAMA

Not defined

PLAN

PHD IN MATHEMATICS METHODS AND MODELLING IN SCIENCE AND ENGINEERING

TIPO DE ENSEÑANZA

Not defined

CENTROS DONDE SE IMPARTE

Doctoral School

ESTUDIO IMPARTIDO CONJUNTAMENTE CON

Solo se imparte en esta universidad

FECHAS DE EXAMEN

[Acceda al listado de fechas de examen para esta titulación.](#)

PLAN DE ESTUDIOS OFERTADO EN EL CURSO 2018-19

Leyenda: No ofertada Sin docencia

ÚNICO

TESIS DOCTORAL				1 créditos
Curso	Título	Créditos	Subject	
-	THESIS	0	66666 - THE DOCTORAL THESIS	

Superado este bloque se obtiene
DOCTOR BY THE UNIVERSITY OF ALICANTE

CONTACT INFORMATION

Phd in Mathematics and modelling in science and engineering

Academic Commission:

Coordinator: [JOSÉ MANUEL FERRÁNDIZ LEAL](#)

Secretary: [ISABEL VIGO AGUIAR](#)

Proposing body:

[Department of Applied Mathematics](#)

[Department of Mathematics](#)

dma@ua.es dmat@ua.es

Doctoral School:

[EDUA-Doctoral School of the University of Alicante](#)

Germán Bernácer building, ground floor

Telephone number 965 90 3466

[Contact EDUA](#)

BASIC AND GENERAL COMPETENCES

BASIC

- CB11 - Systematic comprehension of a field of study and mastery of the skills and research methods related to said field.
- CB12 - Ability to conceive, design or create, put into practice and adopt a substantial research or creation process.
- CB13 - Ability to contribute to the expansion of knowledge barriers through original research.
- CB14 - Ability to carry out a critical and evaluative analysis and synthesize new and complex ideas.
- CB15 - Ability to communicate with the academic and scientific community as well as society in general regarding your fields of knowledge in the modes and languages used normally in your international scientific community.
- CB16 - Ability to foment scientific, technological, social, artistic or cultural advances within a knowledge-based society in academic and professional contexts.

PERSONAL SKILLS AND ABILITIES

- CA01 - To cope with contexts in which there is little specific information.
- CA02 - To find the key questions that must be answered to solve a complex problem.
- CA03 - To design, create, develop and carry out innovating projects in your field of knowledge.
- CA04 - To be able to work as a team and as an individual in an international and multidisciplinary context.
- CA05 - To process knowledge, cope with complexity and formulate judgements with limited information.
- CA06 - To criticise and defend solutions intellectually.

OTHER COMPETENCES

- CG1 - Capacity to carry out research projects in subjects with high mathematical contents, that arise from topics directly related to mathematics or its applications to scientific and engineering problems.

COMMON COMPULSORY TRANSVERSAL TRAINING ACTIVITIES

All students will have to do a series of transversal activities; some are common to all doctoral programs whereas others are specific to each individual program.

The vehicular languages will be Spanish and Valencian.

The activities are the following:

- ACTIVITY 1: Tools for the management and recovery of information.
- ACTIVITY 2: Goals and objectives of research.
- ACTIVITY 3: Scientific communication models.
- ACTIVITY 4: Transfer of knowledge models.

For more information check the [Doctoral School's webpage](#).

SPECIFIC COMPULSORY TRANSVERSAL TRAINING ACTIVITIES

The activities are the following:

- ACTIVITY 1: Seminars and research workshops.
- ACTIVITY 2: Seminars for doctoral students.
- ACTIVITY 3: Presentation of scientific communications.
- ACTIVITY 4: Stays at Universities and Higher Research Centres.

For more information contact the proposing body. [Dept. Applied mathematics](#) and [Dept. Mathematics](#)

RESEARCH AREAS

1. Orbital and rotational dynamics and reference systems
2. Methods of mathematical analysis
3. Space geodesy and global change
4. Data analysis and modelling in sciences and engineering
5. Numeric and analytical methods

ADMISSION

- First of all, the person concerned will have to fill in the pre-enrolment form and afterwards, contact the body responsible for the doctoral program in order for them to transmit your desire to enrol to the corresponding Academic Commission (AC).
- Once the information has been received, the AC will consider the documentation presented through the pre-enrolment form.
- If the person is admitted, the corresponding admission certificate will be issued and sent to the Doctoral School.
- If the application is rejected, an admission certificate will be issued which explains the reasons. This certificate will be sent to the Doctoral School which will then inform the person concerned.

ACCESS

- Once the favourable admission certificate sent by the AC has been received by the Doctoral School, the process to analyse access requirements will begin. If the access degree does not belong to the EHEA (European Higher Education Area), the student will have to pay a fee for the analysis of their documentation.
- If the requirements are met, an academic record will be opened so that the person concerned can fill in their registration.
- If the requirements are not met, the refusal of access and reasons will be communicated. If the person concerned were to hand in the requested documents, the Doctoral School will proceed to open an academic record so that the student can fill in the registration. Otherwise, the record will be archived without further processing.

Registered in the Record of Universities, Centres and Degrees (RUCT)

Authorization Comunidad Valenciana: 28/03/2014

Published BOE 12/06/2014

REGULATION

Royal Decree 99/2011, January 28, which regulates official doctoral degrees ([Official State bulletin number 35. February 10 2011](#))

[Verified Report](#)

[Resolution from the Universities Council: Positive verification](#)

Resolution from the Universities Council: Accreditation renewal

[Authorization from the Valencian Government](#)

INTERNAL QUALITY ASSURANCE SYSTEM (SGIC) OF THE DEGREE

- [Structure of the Centre for Quality](#)
 - [Comission of Internal Quality Guarantee](#)
 - [Other Commissions](#)
- [SGIC Handbook](#)
- [Procedures](#)
 - [Strategic \(PE\)](#)
 - [Key \(PC\)](#)
 - [Support \(PA\)](#)
 - [Measurement \(PM\)](#)

[Management of the SGIC \(Acces to ASTUA\)](#) 

DEGREE MONITORING

- [Self-reports UA](#)
- [AVAP External reports](#)
- [Other reports](#)
- [Improvement plans](#)
- [Progress and learning outcomes](#)