



1. General information

Course: INFERENTIAL STATISTICS

Type: BASIC

Degree: 403 - UNDERGRADUATE DEGREE PROGRAMME IN AEROSPACE
ENGINEERING

Center: 303 - E.DE INGENIERÍA INDUSTRIAL Y AEROESPACIAL DE TOLEDO

Year: 1

Main language: Spanish

Use of additional
languages:

Web site:

Code: 56706

ECTS credits: 6

Academic year: 2023-24

Group(s): 40

Duration: C2

Second language:

English Friendly: Y

Bilingual: N

Lecturer: ISIDRO HIDALGO ARELLANO - Group(s): 40

Building/Office	Department	Phone number	Email	Office hours
	MATEMÁTICAS		Isidro.Hidalgo@uclm.es	

Lecturer: LICESIO JESUS RODRIGUEZ ARAGON - Group(s): 40

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Edificio Sabatini / 1.47	MATEMÁTICAS	6489	l.rodriguezaron@uclm.es	

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course

Course competences

Code	Description
CA01	Ability to carry out bibliographic searches, use databases and other sources of information for its application in tasks related to Technical Aeronautical Engineering.
CA04	Ability to select advanced tools and techniques and their application in the field of Aeronautical Technical Engineering.
CA05	Knowledge of the methods, techniques and tools as well as their limitations in the application for the resolution of problems typical of Aeronautical Technical Engineering.
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
CE01	Ability to solve mathematical problems that may arise in engineering. Ability to apply knowledge of: linear algebra; geometry; differential geometry; differential and integral calculus; differential and partial derivative equations; numerical methods; numerical algorithmic; statistics and optimization.
CT02	Knowledge and application of Information and Communication Technologies (ICT).
CT03	Correct use of oral and written communication.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

6. Units / Contents

Unit 1:

Unit 2:

Unit 3:

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CA01 CA04 CA05 CB02 CB03 CB05 CT03	0.88	22	Y	N	

Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	CA05 CB02 CB03 CB05 CE01 CT03	0.64	16	Y	N	
Group tutoring sessions [ON-SITE]	Guided or supervised work	CA05 CB02 CB05 CE01 CT03	0.08	2	N	-	
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities	CA04 CA05 CB02 CB03 CB05 CE01 CT02 CT03	0.56	14	Y	Y	
Formative Assessment [ON-SITE]	Assessment tests	CA01 CA04 CA05 CB01 CB02 CB03 CB05 CE01 CT02 CT03	0.24	6	Y	N	
Writing of reports or projects [OFF-SITE]	Cooperative / Collaborative Learning	CA01 CA04 CA05 CB02 CB03 CB05 CE01 CT03	0.8	20	Y	Y	
Study and Exam Preparation [OFF-SITE]	Self-study	CA01 CA04 CA05 CB02 CB03 CB05 CE01 CT02	2.8	70	Y	N	
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Assessment of problem solving and/or case studies	20.00%	20.00%	
Laboratory sessions	10.00%	10.00%	
Mid-term tests	70.00%	0.00%	
Final test	0.00%	70.00%	
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	22
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	16
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	14
Formative Assessment [PRESENCIAL][Assessment tests]	6
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	70
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	22
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	16
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	14
Writing of reports or projects [AUTÓNOMA][Cooperative / Collaborative Learning]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	70
Formative Assessment [PRESENCIAL][Assessment tests]	6
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
M. H. DeGroot	Probabilidad y estadística	Addison-Wesley Iberoamericana		0-201-64405-3	1988	Signatura Biblioteca: D 10454
R.S. Kenet y S. Zacks	Estadística Industrial Moderna	Thomson		970-686-027-4	2000	Signatura Biblioteca: 519.2 KEN
S. J. Álvarez Contreras	Estadística aplicada	CLAG		84-921847-4-4	2011	Signatura Biblioteca: 519.2 ALV
W. Mendenhall	Probabilidad y estadística para ingeniería y ciencias	Pretice Hall		968-880-960-8	1997	Signatura Biblioteca: D 519.2(076) MEN
I. Espejo Miranda, F. Fernández Palacín y M.A. López Sánchez	Inferencia estadística: teoría y problemas	Servicio de Publicaciones de la Universidad de Cádiz		9788498285581	2016	
	https://elibro.net/es/ereader/bibliotecaucm/33882?page=1					
Devore, Jay L.	Probabilidad y estadística para	CENGAGE		978-607-522-827-3	2016	

Walpole, Ronald E.	ingeniería y ciencias I Probabilidad y estadística para ingeniería y ciencias	Learning, Pearson Educación	978-970-26-0936-0	2007	
S. M. Ross y T. Valdés Sánchez	Introducción a la estadística https://elibro.net/es/ereader/bibliotecaclm/46782?page=1	Editorial Reverté	9788429151916	2014	
D. Peña	Fundamentos de estadística	Alianza Editorial	978-84-206-8380-5	2008	Signatura Biblioteca: 519.2 PEÑ
D. S. Moore	Estadística aplicada básica https://elibro.net/es/ereader/bibliotecaclm/60046?page=1	Antoni Bosch	978-84-95348-04-3	2009	TEXTO DOCENTE Signatura Biblioteca: 519.2 MOO
E. Gutiérrez González y O. Vladimirovna Panteleeva	Estadística inferencial para ingeniería y ciencias https://elibro.net/es/ereader/bibliotecaclm/40474?page=1	Grupo Editorial Patria	9786077444879	2016	
F.J. Martín Pliego López y otros	Problemas de inferencia estadística	Thomson- Paraninfo	84-9732-355-6	2002	Signatura Biblioteca: 519.2(076) MAR
H. A. Quevedo Urías y B. R. Pérez Salvador	Estadística para ingeniería y ciencias https://elibro.net/es/ereader/bibliotecaclm/39467?page=1	Grupo Editorial Patria	9786074389395	2014	
I. Espejo Miranda y otros	Estadística descriptiva y probabilidad: teoría y problemas https://elibro.net/es/ereader/bibliotecaclm/33854?page=1	UCA	978-84-9828-467-6	2009	
J.L. Devore	Probabilidad y estadística para ingeniería y ciencias. 6ª edición. https://elibro.net/es/ereader/bibliotecaclm/40026?page=1	Thomson	970-686-457-1	2005	Signatura Biblioteca: 519.2 DEV
M. Febrero Bande y otros	Prácticas de Estadística en R http://eio.usc.es/pub/pateiro/files/pubdocentepracticaseestadistica.pdf	Universidad Santiago de Compostela	978-84-691-0975-1	2008	