



ROADS AND AIRPORTS

33529 - ROADS AND AIRPORTS (2024-25)

General

Code: 33529

Lecturer responsible:

BAÑON BLAZQUEZ, LUIS

Credits ECTS:	
Theoretical credits:	1,20
Practical credits:	1,20
Distance-base hours:	3,60

Departments involved

- **Dept:** CIVIL ENGINEERING
Area: INFRAESTRUCTURE AND TRANSPORT ENGINEERING
Theoretical credits: 1,2
Practical credits: 1,2
This Dept. is responsible for the course.
This Dept. is responsible for the final mark record.
- **Dept:** GRAPHIC EXPRESSION, COMPOSITION AND PROJECTS
Area: GRAPHIC EXPRESSION IN ENGINEERING
Theoretical credits: 0
Practical credits: 0

Study programmes where this course is taught

- [DEGREE IN CIVIL ENGINEERING](#)
Course type: OPTIONAL (Year: 3)

Competencies and objectives

Course context for academic year 2024-25

This subject belongs to the minor in Construction Technology. It is taught in the sixth semester (3rd year) of the Civil Engineering undergraduate degree.

The course is divided into the following activities: lectures, workshops, laboratory and computer practice. These classroom activities are focused on providing the future graduate scientific and technical training in the field of conception, design, construction and operation of highways, traffic networks and its related infrastructure.

Likewise, the training received by the student will prepare for the development and deepening of content on different disciplines belonging to Highway Engineering, which are studied in specific subjects of subsequent courses.

RELATION TO **SUSTAINABLE DEVELOPMENT GOALS (SDGs)**:

- **SDG 09 - Industries, innovation and infrastructure**
- **SDG 11 - Sustainable cities and communities**

DIGITALIZATION:

- Programming of various practical exercises with calculation tools.
- Use of professional traffic microsimulation software ([AIMSUN Next](#))
- Use of BIM professional software for highway design ([CLIP](#), [Autoturn](#), [Autodesk](#))

Course content (verified by ANECA in official undergraduate and Master's degrees) for academic year {0}

UA Basic Transversal Competences

- **CT10** : Capacitat d'enfrontar, projectar i resoldre problemes reals demandats per la societat en l'àmbit de l'enginyeria.
- **CT12** : Capacitat d'assimilar i adaptar-se a l'evolució contínua de la tecnologia en l'àmbit de desenvolupament professional.
- **CT13** : Capacitat d'adoptar el mètode científic en el plantejament i realització de treballs diversos tant a nivell acadèmic com a professional.
- **CT7** : Capacitat d'exposició oral i escrita.
- **CT8** : Capacitat de planificar tasques i comprometre's en el compliment d'objectius i terminis.
- **CT9** : Capacitat de treball en grup.

Specific Competences (Specific Technology):>>Civil Construction

- **CEC4** : Capacitat per a la construcció i conservació de carreteres, així com per al dimensionament, el projecte i la construcció dels elements que componen les dotacions viàries. Capacitat per a projectar, construir i conservar infraestructures de transport viari.

Specific Competences (Specific Technology):>>Hydrology

- **CEH3** : Coneixement dels projectes de serveis urbans relacionats amb la distribució d'aigua i el sanejament.

Specific Competences (Specific Technology):>>Transit and Urban Services

- **CET1** : Capacitat per a la construcció i conservació de carreteres, així com per al dimensionament, el projecte i la construcció dels elements que componen les dotacions viàries. Capacitat per a projectar, construir i conservar infraestructures de transport viari.

Basic Transversal Competences

- **CB2** : Que els estudiants sàprien aplicar els seus coneixements al seu treball o vocació d'una manera professional i tinguen les competències que se solen demostrar a través de l'elaboració i defensa d'arguments i la resolució de problemes dins de la seua àrea d'estudi.
- **CB3** : Que els estudiants tinguen la capacitat de reunir i interpretar dades rellevants (normalment dins de la seua àrea d'estudi) per a emetre judicis que incloguen una reflexió sobre temes rellevants d'índole social, científica o ètica.
- **CB5** : Que els estudiants hagen desenvolupat les habilitats d'aprenentatge necessàries per a emprendre estudis posteriors amb un alt grau d'autonomia.

Exclusive skill taught in this course

No data

Learning outcomes (Training objectives)

No data

Specific objectives stated by the academic staff for academic year 2024-25

- Acquisition and use of specific vocabulary and regulations used in this technical field.
- Knowledge, understanding and application of the various concepts and terminology used in Highway Engineering.
- Knowledge of the basic characteristics of the supply and demand of road transport and the main actors involved in such activity.
- Ability and skills to analyse, quantify and correct the traffic states in rural and urban roads, as part of the usual techniques of Traffic Engineering.
- Ability and skills to project urban and interurban road segments, specifically including its geometric design, pavement design, connections and road junctions.
- Knowledge of the fundamental characteristics of air transport and aircraft for use in the design of airport infrastructure.
- Acquisition of critical capacity, scalability and deepening of the developed concepts, and analysis skills applied to this Civil Engineering discipline.

Content and bibliography

Content for academic year 2024-25

PART ONE: ROAD NETWORKS AND TRAFFIC ENGINEERING

TOPIC 01: ROAD NETWORKS

Highway Engineering. Road transport. Road networks, elements and functions. Vehicles. Road types. Road elements. Highway planning and financing. Road projects and documents. Regulations and design codes.

TOPIC 02: CONCEPTS AND BASIC RELATIONS IN HIGHWAY TRAFFIC

Concepts of traffic flow, speed and density. Relations between traffic magnitudes. Main parameters and indices in Traffic Engineering. Traffic studies and data gathering.

TOPIC 03: CAPACITY AND LEVELS OF SERVICE ON HIGHWAYS

The Highway Capacity Manual (HCM). Concepts of capacity and level of service (LOS). Influencing factors. Methodology for assessing capacity and level of service on roads and highways.

PART TWO: HIGHWAY DESIGN

TOPIC 04: BASIC PARAMETERS

Introduction. The 3.1-IC Spanish Design Manual: Geometric Design. Specific speed, design speed and planning speed. The driving process. Perception and reaction time. Sight distance and stopping distance, overtakings and crossings.

TOPIC 05: HORIZONTAL ALIGNMENT

General concepts. Types of horizontal sections. Tangents. Circular alignments. Transition curves. Types of horizontal curves. Horizontal curves coordination.

TOPIC 06: VERTICAL ALIGNMENT

General concepts. Vertical grades. Vertical curves. Visibility. Horizontal and vertical alignment combination.

TOPIC 07: CROSS SECTION

Compositional elements. Lanes. Shoulders. Verges. Medians. Cross slope. Superelevation transition. Lane widening. Obstacle analysis and clearings. Special sections in tunnels and viaducts. Merging and diverging sections. Additional lanes and other design elements. 2+1 highways.

TOPIC 08: ROAD CONNECTIONS AND JUNCTIONS

Road connections. Types of junctions and its elements. At-grade intersections. Interchanges. Basic design principles.

PART THREE: HIGHWAY AND AIRPORT INFRASTRUCTURE

TOPIC 09: PAVEMENT ENGINEERING

Pavement functions. Types of pavements. Loads. Structure and materials. Soil classification for road works. Subgrades. The 6.1-IC Pavement Design Spanish Code. Regional pavement design codes. Methodology and design. Design of pavement cross sections.

TOPIC 10: AIRPORTS

General aspects of an airport. Characteristics of aircrafts. Airport layout. Airport pavements. Drainage. Other equipment.

Related links

<http://www.carreteros.org>

Carreteros.org: portal web con normativa e información interesante sobre Ingeniería de Carreteras

http://www.fomento.es/MFOM/LANG_CASTELLANO/DIRECCIONES_GENERALES/CARRETERAS/NORMATIVA_TECNICA/

Ministerio de Fomento: Normativa oficial de carreteras

<http://rua.ua.es/dspace/handle/10045/1788>

Manual de Carreteras (Volumen 1)

<http://rua.ua.es/dspace/handle/10045/1787>

Manual de Carreteras (Volumen 2)

<http://www.habitatge.gva.es/web/carreteras>

Conselleria de infraestructuras con competencias en materia de carreteras. Generalitat Valenciana

http://www.fomento.gob.es/MFOM/LANG_CASTELLANO/DIRECCIONES_GENERALES/CARRETERAS/

Ministerio de Fomento: Área de Carreteras

http://www.fomento.gob.es/MFOM/LANG_CASTELLANO/DIRECCIONES_GENERALES/CARRETERAS/TRAFFICO_VELOCIDADES/M

Mapas de Tráfico del Ministerio de Fomento

http://www.fomento.gob.es/MFOM/LANG_CASTELLANO/ATENCION_CIUDADANO/INFORMACION_ESTADISTICA/

Estadísticas oficiales del Ministerio de Fomento

<https://www.youtube.com/channel/UCyl2uOqvn4ld14SS3bZLLQw>

Videotutoriales sobre diseño de infraestructuras. AORTA Ieraning, grupo de innovación tecnológico-educativa en Ingeniería de Transporte y Territorio

<http://www.traffic-simulation.de>

Web de microsimulación de tráfico

<http://www.youtube.com/user/toolsavideos>

Canal YOUTUBE de TOOL, compañía que desarrolla el programa CLIP de diseño de carreteras

<http://www.wikivia.org/>

Wikivia: Enciclopedia online de Carreteras

<http://www.aopandalucia.es/principal.asp?>

[alias=descarga&t=6&idsejpf=area_tecnica%5CIngenieria%5CRedaccion_de_proyectos%5CICAFIR](http://www.aopandalucia.es/principal.asp?alias=descarga&t=6&idsejpf=area_tecnica%5CIngenieria%5CRedaccion_de_proyectos%5CICAFIR)

ICAFIR - Programa de cálculo analítico de firmes de carreteras

<http://www.mtreiber.de>

Página web de microsimulación de tráfico

<http://www.faa.gov/airports/engineering/>

FAA - Federal Aviation Administration. Airport Engineering

<http://www.idee.es/>

IDEE - Portal de datos cartográficos de España. M^a Fomento

<http://centrodedescargas.cnig.es/CentroDescargas/index.jsp>

CNIG - Descargas Centro Nacional Información Geográfica

<http://www.icao.int/>

ICAO/OACI - Organización de Aviación Civil Internacional

<http://beta.sigcar.es/sigc.php>

SIGCAR - Sistema de Información Geográfica de Carreteras

Trazado. Instrucción de Carreteras, Norma 3.1-IC

Author(s): Dirección General de Carreteras. Ministerio de Fomento

Issue: Madrid : Publicaciones Ministerio de Fomento, 2016;

ISBN: -

Category: Básico

Secciones de firme : instrucción de carreteras Norma 6.1 IC

Author(s): España; Dirección General de Carreteras

Issue: Madrid : Ministerio de Fomento, Centro de Publicaciones, 2004;

ISBN: 978-84-498-0694-0

Category: Básico

Manual de carreteras

Author(s): BAÑÓN BLÁZQUEZ, Luis ; BEVÍA GARCÍA, José F.

Issue: Alicante : Enrique Ortiz e Hijos, Contrastista de Obras, S.A., 2000;

ISBN: 84-607-0267-7 (vol.1) // 84-607-0123-9 (vol.2)

Category: Básico

Carreteras. Volumen I : Red viaria y tráfico

Author(s): PÉREZ ACEBO, Heriberto

Issue: - : UPV-EHU, 2018;

ISBN: 978-84-9082-805-2

Category: Básico

Carreteras. Volumen 2. Trazado

Author(s): Pérez Acebo, Heriberto

Issue: Bilbao : Servicio Editorial de la Universidad del País Vasco, 2016;

ISBN: 978-84-9082-436-8

Category: Básico

Manual de capacidad de carreteras : traducción de HCM-2010

Author(s): Romana, Manuel

Issue: Madrid : Fundación Confemetal, 2017;

ISBN: 978-84-16-67119-9

Category: Básico

Obras de paso de nueva construcción : conceptos generales

Author(s): -

Issue: Madrid : Ministerio de Fomento, Centro de Publicaciones, 2000;

ISBN: 84-498-0474-4

Category: Complementario

Libro de estilo universitario

Author(s): ARROYO JIMÉNEZ, Carlos

Issue: Madrid : Acento, 1997;

ISBN: 84-483-0216-8

Category: Complementario

Manual de ingeniería de taludes

Author(s): Ayala Carcedo, Francisco Javier (director)

Issue: Madrid : Instituto Geológico y Minero de España, 2006;

ISBN: 84-7840-626-3

Category: Complementario

Problemas resueltos de drenaje, explanaciones y firmes

Author(s): DE OÑA LÓPEZ, Juan

Issue: Granada : Grupo Editorial Universitario, 2006;

ISBN: 978-84-8491-422-8

Category: Complementario

Evaluación estructural de pavimentos aeroportuarios

Author(s): CARRASCO RODRÍGUEZ, Pedro Pablo

Issue: Madrid : AENA, 2009;

ISBN: 978-84-92499-17-5

Category: Complementario

Tipología de muros de carretera

Author(s): Dirección General de Carreteras

Issue: Madrid : Ministerio de Fomento, Centro de Publicaciones, 2002, 0;

ISBN: 84-498-0614-3

Category: Complementario

Rehabilitación de firmes : instrucción de carreteras, Norma 6.3.IC

Author(s): Dirección General de Carreteras

Issue: Madrid : Centro de Publicaciones, Ministerio de Fomento, 2005;

ISBN: 84-498-0696-8

Category: Complementario

Pliego de prescripciones técnicas generales para obras de carreteras y puentes : PG-3

Author(s): Dirección General de Carreteras; Ministerio de Fomento

Issue: Madrid : Dirección General de Carreteras; Centro de Publicaciones, Ministerio de Fomento, 2015;

ISBN: -

Category: Básico

Carreteras urbanas

Author(s): ESPAÑA. Dirección General de Carreteras

Issue: Madrid : Ministerio de Fomento, 1993;

ISBN: 978-84-7433-890-4

Category: Complementario

Recomendaciones para el proyecto y construcción del drenaje subterráneo en obras de carretera: Orden circular 17/2003

Author(s): ESPAÑA. Dirección General de Carreteras

Issue: Madrid : Centro de Publicaciones, Ministerio de Fomento, 2008;

ISBN: 978-84-498-0708-4

Category: Complementario

Señalización vertical: instrucción de carreteras norma 8.1-IC

Author(s): España. Ministerio de Fomento

Issue: Madrid : Ministerio de Fomento, 2000;

ISBN: 84-498-0451-5

Category: Complementario

Introducción a la Ingeniería Civil en Aeropuertos

Author(s): Gallego Medina, Juan ; Viyella Ricart, Alejandro

Issue: Madrid : ETS Ingenieros de Caminos, Canales y Puertos, 2007;

ISBN: 978-84-7493-375-8

Category: Básico

Aeropuertos : planificación, diseño y medio ambiente

Author(s): GARCÍA CRUZADO, Marcos

Issue: Madrid : Garceta, 2013;

ISBN: 978-84-1545-279-9

Category: Complementario

El ÁREA Terminal de los Aeropuertos

Author(s): -

Issue: Madrid : Ministerio de Fomento, Centro de Publicaciones, 2000;

ISBN: 84-498-0455-8

Category: Complementario

Descubrir la operación de aeropuertos

Author(s): GARCÍA CRUZADO, Marcos

Issue: Madrid : Garceta, 2008;

ISBN: 9788492499045

Category: Complementario

Ingeniería aeroportuaria

Author(s): García Cruzado, Marcos

Issue: Madrid : Fundación Aena, 2013;

ISBN: 978-84-95567-76-5

Category: Complementario

Proyectos de Participación Público Privada (PPP) para la gestión y financiación de infraestructuras

Author(s): GONZÁLEZ GONZÁLEZ, Oliva

Issue: Madrid : Garceta, 2016;

ISBN: 978-84-1622-825-6

Category: Complementario

Los acondicionamientos de carreteras en los sistemas de gestión

Author(s): GONZALO ORDEN, Hernán

Issue: Burgos : Universidad de Burgos, 2004;

ISBN: 9788496394063

Category: Complementario

Novafir 1 : ingeniería de pavimentos

Author(s): Hernando, David; Romana, Manuel G.; Val, Miguel
Ángel del

Issue: Madrid : Cinter Divulgación Técnica, 2013;

ISBN: 978-84-939305-3-0

Category: Complementario

Descubrir los aeropuertos

Author(s): Iván Tejada Anguiano

Issue: Madrid : Centro de Documentación y Publicaciones
de Aena, 2002;

ISBN: 84-95135-65-5

Category: Complementario

Ingeniería de carreteras

Author(s): Kraemer, Carlos

Issue: Madrid : McGraw-Hill, 2009;

ISBN: 978-84-481-6110-1 (V. 1)

Category: Complementario

Como redactar textos científicos y seguir las normas APA 7ª : (para los trabajos de fin de Grado, de fin de master, tesis doctorales y artículos)

Author(s): León, Orfelio G.

Issue: Madrid : Garceta, 2020;

ISBN: 978-84-1728-950-8

Category: Complementario

Modelos Digitales del Terreno en Ingeniería Civil (MDT)

Author(s): Martínez Marín, Rubén; Marchamalo Sacristán,
Miguel; Álvarez Gallego, Sergio

Issue: Madrid : Garceta, 2018;

ISBN: 978-84-1728-912-6

Category: Complementario

Guía de diseño urbano

Author(s): MARTÍNEZ SARANDESES, José; HERRERO MOLINA, María Agustina; MEDINA MURO, María

Issue: Madrid : Ministerio de Fomento, Centro de Publicaciones, 1999;

ISBN: 978-84-498-0415-1

Category: Complementario

Colección de pequeñas obras de paso: obras de paso de carreteras

Author(s): Ministerio de Obras Públicas y Transportes

Issue: Madrid : Ministerio de Obras Públicas y Transportes, Centro de Publicaciones, 1989;

ISBN: 84-7433-429-2

Category: Complementario

Problemas resueltos de caminos y aeropuertos : trazado

Author(s): OÑA ESTEBAN, Juan A. ; OÑA LÓPEZ, Juan José

Issue: Madrid : Colegio de Ingenieros de Caminos Canales y Puertos, 2004;

ISBN: 978-84-380-0275-9

Category: Básico

Problemas de tráfico resueltos según el Highway Capacity Manual 2010

Author(s): Oña López, Rocío de ; Oña López, Juan de

Issue: Granada : Godel Editorial, 2015;

ISBN: 978-84-16478-32-3

Category: Complementario

Apuntes de Tráfico y Seguridad Viaria

Author(s): PARDILLO MAYORA, José M^a ; JURADO PIÑA, Rafael

Issue: Madrid : Publicaciones ETSICCP UPM, 2017;

ISBN: 978-84-7493-191-4

Category: Complementario

Proyecto, conservación y gestión de firmes

Author(s): PÉREZ JIMÉNEZ, Félix Edmundo

Issue: Madrid : Asociación Española de la Carretera, 2007;

ISBN: 975-84-89875-71-5

Category: Complementario

Firmes y pavimentos de carreteras y otras infraestructuras

Author(s): Recuenco Aguado, Emilio

Issue: Madrid : Garceta, 2014;

ISBN: 978-84-1545-283-6

Category: Complementario

Ingeniería de tráfico vial

Author(s): SÁNCHEZ BLANCO, Victor

Issue: Madrid : Colegio de Ingenieros de Caminos, Canales y Puertos, 1997;

ISBN: 84-380-0126-2

Category: Complementario

Calmar el tráfico : pasos para una nueva cultura de la movilidad urbana

Author(s): SANZ ALDUAN, Alfonso

Issue: Madrid : Centro de Publicaciones, Ministerio de Fomento, 2008;

ISBN: 978-84-498-0822-7

Category: Complementario

Highway capacity manual : a guide for multimodal mobility analysis

Author(s): The National Academics of Sciences, Engineering, Medicine

Issue: Washington : Transportation research board, 2022;

ISBN: 978-0-309-27566-8 (v.1)/978-0-309-27568-2 (v.2)/978-0-309-27569-9 (v.3)

Category: Complementario

Highway capacity manual : a guide for multimodal mobility analysis

Author(s): The National Academics of Sciences, Engineering, Medicine

Issue: Washington : Transportation research board, 2022;

ISBN: 978-0-309-27566-8 (v.1)/978-0-309-27568-2 (v.2)/978-0-309-27569-9 (v.3)

Category: Complementario

Fundamentos de la Seguridad Vial

Author(s): TRUYOLS MATEU, Sebastián ; SAMPEDRO, Ángel

Issue: - : Delta, 2013;

ISBN: 978-84-92954-04-9

Category: Complementario

Transporte aéreo e ingeniería aeroportuaria

Author(s): TRUYOLS MATEU, Sebastián ; ALCUBILLA DE LA FUENTE, Francisco

Issue: Collado Villalba : Delta, 2013;

ISBN: 978-84-15581-19-2

Category: Complementario

Ingeniería de tráfico

Author(s): VALDÉS GONZÁLEZ ROLDÁN, Antonio

Issue: Madrid : Bellisco, 2008;

ISBN: 978-84-96486-77-5

Category: Complementario

Tráfico : por qué el carril de al lado siempre avanza más rápido y otros misterios de la carretera

Author(s): VANDERBILT, Tom

Issue: Madrid : Debate, 2009;

ISBN: 9788483068434

Category: Complementario

Nudos de carreteras: cursos

Author(s): VVAA

Issue: Madrid : Asociación Española de la Carretera, 2005;

ISBN: 84-89875-50-2

Category: Complementario

Problemas resueltos de trazado de carreteras

Author(s): Oña Esteban, Juan de

Issue: Madrid : Garceta, 2020;

ISBN: 978-84-1728-941-6

Category: Básico

Problemas de tráfico resueltos según el Highway Capacity Manual 2022 (HCM 2022)

Author(s): Oña López, Juan de

Issue: Madrid : Garceta Grupo Editorial, 2023;

ISBN: 978-84-1903-431-1

Category: Complementario

Assessment

Assessment procedures and criteria 2024-25

The overall course grade will be obtained from the weighted average of the marks obtained along all the assessment tools. To pass the course, the student must obtain **not less than 5 out of 10 overall rating**.

In each of the following assessment tools: final exam, periodic verification tests, project work and lab reports, the minimum grade to be eligible to pass the subject must be **at least 4 points out of 10**. Otherwise, the final grade of the subject will not exceed 4.5 points out of 10.

IMPORTANT INFORMATION

- The student must observe and accomplish the [Regulations for Learning Assessment](#) approved by the Governing Council of the University of Alicante on date November 27, 2015 (BOUA December 9, 2015).
- Evidences of **plagiarism or copy** that, according to the professor, occur in any of the tests or reports **will suppose automatically the failing of the entire block**, as well as the report of the incident to the center to take appropriate disciplinary action.

Description	Criteria	Type	Weighting system
Practice reports (Retakeable on C4)	Preparation and delivery of reports of the practical sessions in the deadlines previously set by the instructor, and following their instructions for proceeding. Students must attend to a minimum of 80% of the lab sessions scheduled, otherwise they will obtain zero points in this assessment block.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	25
Periodic verification tests (Retakeable on C4)	Several written tests performed during the course to verify student's understanding of the concepts developed in lectures.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	20
Project work (Partly retakeable on C4)	Realization of a project work throughout the term. This work will be proposed by the course instructor at the beginning of the term. Partial deliveries could be set throughout the course to evaluate the progress of the student and deadline compliance, being these in-term grades non-recoverable. Students must attend a minimum of 80% of the scheduled practical sessions; otherwise, they will be rated with zero points in this block.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	15
Course exam (Retakeable on C4)	Written test to verify proper assimilation by the students of fundamental and applied concepts developed along thematic blocks. To qualify to pass the course, students must obtain a overall minimum score of 4 out of 10 .	FINAL TEST	40

Official exam dates for academic year 2024-25

Exam session	Date	Time	Group - Classroom(s) allocated	Comments
(C3) Periodo ordinario para asignaturas de segundo semestre y anuales	29/05/2025			Teoría
(C4) Pruebas extraordinarias para asignaturas de grado y máster	03/07/2025			Teoría

Academic staff



BAÑON BLAZQUEZ, LUIS

Lecturer responsible

THEORY CLASS: Groups: 1 , 2

PROBLEM PRACTICALS / WORKSHOP: Groups: 1

COMPUTER PRACTICALS: Groups: 1 , 3 , 2



PAGAN CONESA, JOSE IGNACIO

LAB PRACTICALS: Groups: 1 , 3 , 2

PROBLEM PRACTICALS / WORKSHOP: Groups: 2

Groups

THEORY CLASS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students	
Gr. 1 (THEORY CLASS) : 1	2S	Morning	Spanish	18	<ul style="list-style-type: none">▪ Allowed VISITING STUDENT EEES▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed VISITING STUDENT NO EEES▪ Allowed INTERNATIONAL MOBILITY PROGRAMME
Gr. 2 (THEORY CLASS) : 2 ENG	2S	Morning	English	2	<ul style="list-style-type: none">▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed VISITING STUDENT NO EEES▪ Allowed VISITING STUDENT EEES

LAB PRACTICALS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students	
Gr. 1 (LAB PRACTICALS) : 1	2S	Morning	Spanish	10	<ul style="list-style-type: none">▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed VISITING STUDENT EEES▪ Allowed DEGREE IN CIVIL ENGINEERING
Gr. 2 (LAB PRACTICALS) : 2	2S	Afternoon	Spanish	8	
Gr. 3 (LAB PRACTICALS) : 3 ENG	2S	Morning	English	2	<ul style="list-style-type: none">▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed VISITING STUDENT EEES▪ Allowed VISITING STUDENT NO EEES

PROBLEM PRACTICALS / WORKSHOP





















Group	Semester	Morning or afternoon session	Language	No. of enrolled students	
Gr. 1 (PROBLEM PRACTICALS / WORKSHOP) : 1	2S	Morning	Spanish	18	<ul style="list-style-type: none">▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed VISITING STUDENT EES
Gr. 2 (PROBLEM PRACTICALS / WORKSHOP) : 2 ENG	2S	All day	English	2	<ul style="list-style-type: none">▪ Allowed VISITING STUDENT NO EES▪ Allowed VISITING STUDENT EES▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed INTERNATIONAL MOBILITY PROGRAMME







COMPUTER PRACTICALS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students	
Gr. 1 (COMPUTER PRACTICALS) : 1	2S	Morning	Spanish	10	<ul style="list-style-type: none">▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed DEGREE IN CIVIL ENGINEERING▪ Allowed VISITING STUDENT EES
Gr. 2 (COMPUTER PRACTICALS) : 2	2S	Afternoon	Spanish	8	
Gr. 3 (COMPUTER PRACTICALS) : 3 ENG	2S	Morning	English	2	<ul style="list-style-type: none">▪ Allowed VISITING STUDENT EES▪ Allowed VISITING STUDENT NO EES▪ Allowed INTERNATIONAL MOBILITY PROGRAMME▪ Allowed DEGREE IN CIVIL ENGINEERING









Timetables

THEORY CLASS



Group	Start date	End date	Day	Start time	End time	Lecture room
1	27/01/2025	27/01/2025	LUN	11:00	12:30	0016P1006 
1	27/01/2025	27/01/2025	LUN	12:30	14:00	0016P1006 
1	03/02/2025	03/02/2025	LUN	11:00	12:30	0016P1006 
1	03/02/2025	03/02/2025	LUN	12:30	14:00	0016P1006 
1	10/02/2025	10/02/2025	LUN	11:00	12:30	0016P1006 
1	10/02/2025	10/02/2025	LUN	12:30	14:00	0016P1006 
1	17/02/2025	17/02/2025	LUN	12:30	14:00	0016P1006 
1	17/02/2025	17/02/2025	LUN	11:00	12:30	0016P1006 
1	24/02/2025	14/04/2025	LUN	11:00	12:30	0016P1006 
1	05/05/2025	12/05/2025	LUN	11:00	12:30	0016P1006 
1	19/05/2025	19/05/2025	LUN	12:30	14:00	0016P1006 
1	19/05/2025	19/05/2025	LUN	11:00	12:30	0016P1006 
2	30/01/2025	30/01/2025	JUE	12:00	13:30	0015P1109 
2	30/01/2025	30/01/2025	JUE	10:30	12:00	0015P1109 
2	06/02/2025	06/02/2025	JUE	10:30	12:00	0015P1109 
2	06/02/2025	06/02/2025	JUE	12:00	13:30	0015P1109 
2	13/02/2025	13/02/2025	JUE	10:30	12:00	0015P1109 
2	13/02/2025	13/02/2025	JUE	12:00	13:30	0015P1109 
2	20/02/2025	20/02/2025	JUE	10:30	12:00	0015P1109 
2	20/02/2025	20/02/2025	JUE	12:00	13:30	0015P1109 




Group	Start date	End date	Day	Start time	End time	Lecture room
2	27/02/2025	10/04/2025	JUE	10:30	12:00	0015P1109 
2	08/05/2025	08/05/2025	JUE	10:30	12:00	0015P1109 
2	15/05/2025	15/05/2025	JUE	10:30	12:00	0015P1109 
2	15/05/2025	15/05/2025	JUE	08:30	10:00	0015P1109 
2	22/05/2025	22/05/2025	JUE	10:30	12:00	0015P1109 
2	22/05/2025	22/05/2025	JUE	08:30	10:00	0015P1109 

LAB PRACTICALS



Group	Start date	End date	Day	Start time	End time	Lecture room
1	17/03/2025	17/03/2025	LUN	09:00	10:30	0015PB114 
1	07/04/2025	07/04/2025	LUN	09:00	10:30	0015PB114 
1	14/04/2025	14/04/2025	LUN	09:00	10:30	0015PB114 
1	05/05/2025	05/05/2025	LUN	09:00	10:30	0015PB114 
1	12/05/2025	12/05/2025	LUN	09:00	10:30	0015PB114 
2	17/03/2025	14/04/2025	LUN	15:30	17:00	0015PB114 
3	20/03/2025	10/04/2025	JUE	08:30	10:00	0015PB114 
3	08/05/2025	08/05/2025	JUE	08:30	10:00	0015PB114 

PROBLEM PRACTICALS / WORKSHOP

Group	Start date	End date	Day	Start time	End time	Lecture room
1	24/02/2025	14/04/2025	LUN	12:30	14:00	0016P1006 
1	05/05/2025	05/05/2025	LUN	12:30	14:00	0016P1006 

Group	Start date	End date	Day	Start time	End time	Lecture room
1	12/05/2025	12/05/2025	LUN	12:30	14:00	0016P1006 
2	27/02/2025	10/04/2025	JUE	12:00	13:30	0015P1109 
2	08/05/2025	22/05/2025	JUE	12:00	13:30	0015P1109 

COMPUTER PRACTICALS

Group	Start date	End date	Day	Start time	End time	Lecture room
1	10/02/2025	10/03/2025	LUN	09:00	10:30	0016P1006 
2	10/02/2025	10/03/2025	LUN	15:30	17:00	0016P1006 
3	13/02/2025	13/03/2025	JUE	08:30	10:00	0039PB055 