

SUBJECT TEACHING GUIDE

G1750 - Workshop on Projects

Degree in Civil Engineering

Academic year 2021-2022

1. IDENTIFYING DATA			
Degree	Degree in Civil Engineering	Type and Year	Optional. Year 4
Faculty	School of civil Engineering		
Discipline	Optional Subjects: Open to all Itineraries		
Course unit title and code	G1750 - Workshop on Projects		
Number of ECTS credits allocated	6	Term	Semester based (1)
Web	https://moodle.unican.es/login/index.php		
Language of instruction	English	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIA GEOGRAFICA Y TECNICAS DE EXPRESION GRAFICA
Name of lecturer	VALENTIN GOMEZ JAUREGUI
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Other lecturers	

3.1 LEARNING OUTCOMES
- The student will have increased the ability to project civil works, in accordance with the indications on the specific competences described in the official curriculum.
- The student will have increased the knowledge and skills in the use of CAD / CAE tools applied to civil engineering projects, in accordance with the indications on the specific competences described in the official curriculum .
- The student will have improved in the development of engineering projects in English, in accordance with the indications on the specific competences described in the official curriculum..

4. OBJECTIVES

Improving the ability of carrying out self-learning on civil engineering projects in English.
Improving the ability of projecting civil engineering works
Improving the skills in the use of CAD/CAE/BIM methods for civil engineering, particularly in English language
Improving the skills for civil engineering design, particularly in English language
Improving the English language skills and particularly those related to civil engineering

6. COURSE ORGANIZATION

CONTENTS	
1	<p>1. GENERAL ENGLISH AND TECHNICAL ENGLISH FOR CIVIL ENGINEERING</p> <p>1.1. Roads and railroads.</p> <p>1.2. Hydraulics, hydrology and coastal works</p> <p>1.3. Structures and foundations.</p> <p>1.4. Transportation and urban planning</p> <p>1.5. Management and exploitation of civil works</p> <p>1.6 Other related fields of engineering</p>
2	<p>2."BIM MODELER" IN CIVIL ENGINEERING</p> <p>2.1. Digital terrain models.</p> <p>2.2. Corridor modeling: alignments, profiles, superelevation, cross sections, corridors, regions, etc.</p> <p>2.3. Design of corridors, junctions and roundabouts.</p> <p>2.4. Measurements and reports</p> <p>2.6. Earthworks, sanitary and urban development</p> <p>2.5. BIM models: introduction to Revit. Projects, families, templates. Levels of detail. Commands. Walls, levels, views, profile views, cross sections. Building Information Modelling, Industry Foundation Classes.</p>
3	<p>3. "BIM DESIGNER" IN CIVIL ENGINEERING</p> <p>Practical work in the classroom.</p>
4	<p>4. OTHER ACTIVITIES AND TEACHING METHODS</p>

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
BLOCK 1. ENGLISH Continuous Evaluation in Lab	Laboratory evaluation	No	Yes	30,00
BLOCK 2. CAD / CAE SYSTEMS Continuous Evaluation in Lab	Laboratory evaluation	No	Yes	30,00
BLOCK 3. PROJECTING CIVIL ENGINEERING Continuous Evaluation in Lab	Laboratory evaluation	No	Yes	40,00
TOTAL				100,00
Observations				
<p>Class attendance is mandatory. It is the only assessment method. All proposed activities and work in class are part of the evaluation and must be delivered at the end of each session. Deliveries after the deadline are not accepted Maximum number of accepted absences: 20% Maximum number of undelivered tasks at the end of the class: 20% Exceeding these ratios results in losing the possibility of assessment</p>				
Observations for part-time students				
<p>Students enrolled in Part-time mode can benefit from the article 15th of the Regulation of Evaluation. They have the right to be evaluated in a single date, that will be set by the academic board. Nevertheless, it is very advisable that these students talk to the lecturer at the very beginning of the course.</p>				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Curso Moodle de la asignatura: <https://moodle.unican.es/login/index.php>
 Métodos on-line de inglés general
 Métodos on-line de inglés para ingeniería civil
 Manuales de AutoCAD Civil 3D y REVIT
 Proyectos ejecutados por alumnos de la Escuela de Caminos de Santander en años anteriores
 Curso OCW : WORKSHOP ON PROJECTS. Plan innovación docente UC, Curso 2014-15