SUBJECT TEACHING GUIDE

G1473 - Computer-Aided-Design in Telecommunications Engineering

Degree in Telecommunication Technologies Engineering

Academic year 2021-2022

1. IDENTIFYING DATA					
Degree	Degree in Telecommunication Technologies Engineering			Type and Year	Optional. Year 3
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Optional Subjects				
Course unit title and code	G1473 - Computer-Aided-Design in Telecommunications Engineering				
Number of ECTS credits allocated	6	Term		Semester based (1)	
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIA GEOGRAFICA Y TECNICAS DE EXPRESION GRAFICA
Name of lecturer	CRISTINA MANCHADO DEL VAL
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Other lecturers	CESAR ANTONIO OTERO GONZALEZ

3.1 LEARNING OUTCOMES

- Understanding of CAD tools related to Telecommunication Applications Technologies.
  Understanding of BIM tools for buildings and MEP systems.
  3D Model development for creating presentations

4. OBJECTIVES

Provide the students the knowledge of Computer Aided Design tools for managing the essential graphic information for their professional practice.

6. COURSE ORGANIZATION

CONTENTS	
1	1. 3D Modelling with Autodesk Inventor. Parts design. Assembly design. Drawing creation. Presentations, renders and animation.
2	Building Information Modeling (BIM) with Autodesk Revit. Construction and MEP.
3	Developing scenarios with Autodesk Infraworks. Information exchange and presentations.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Evaluation covering part 1	Laboratory evaluation	No	Yes	30,00
Evaluation covering part 2	Laboratory evaluation	No	Yes	50,00
Evaluation covering part 3	Laboratory evaluation	No	Yes	20,00
TOTAL				100,00

Observations

- Continuous assessment. Attendance is essential. Classwork is taken into account
- The exercises are developed at class, delivering them at the end of the week.
- NOTE: Given the current uncertain health situation, in case the competent health and educational authorities don't allow any physical evaluation in the classroom / lab, a distance evaluation modality will be adopted using online technologies

Observations for part-time students

Equal conditions for all students (part time and full time).

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Autodesk Inventor: https://help.autodesk.com/view/INVNTOR/2021/ENU/
Autodesk Revit: https://help.autodesk.com/view/RVT/2021/ENU/
Autodesk Infraworks: https://help.autodesk.com/view/INFMDR/ENU/