

COURSE NAME

Name: CONSTRUCTION PROCEDURES

Code: 101139 Curriculum: DEGREE IN CIVIL ENGINEERING Name of the module to which it belongs: COMMON MODULE FOR THE CIVIL BRANCH Subject: CONSTRUCTION PROCEDURES AND PROJECTS Nature: OBRIGATORY Duration: SECOND SEMESTER ECTS Credits: 3 Classroom Face-to-face classroom percentage: 40% Non-contact

FACULTY DETAILS

Name: BRAVO MÁRQUEZ, MANUEL JOSÉ (Coordinator) Department: RURAL ENGINEERING Area: CONSTRUCTION ENGINEERING Location of the office: ESCUELA POLITECNICA DE BELMEZ E-Mail: ir1brmam@uco.es Year: 2

Classroom hours: 30 Non-contact hours: 45

Phone number: 635546600

SKILLS

- CB1 Have and understand specific knowledge of the study area of the Degree that gives skills for the exercise of the profession of Technical Civil Engineering.
- CB2 Have and understand updated and cutting-edge knowledge related to the field of study of the degree of Technical Civil Engineering.
- CB3 Be able to apply the knowledge acquired to their work or vocation in a professional manner. Prepare and defend arguments in the relevant knowledge area.
- CB4 Solve problems within the study area of Civil Engineering.
- CEC14 Knowledge of construction procedures

OBJECTIVES

For the student to learn the machinery and construction procedure for earthworks, the machinery and procedure for extracting and treating natural and recycled aggregates, the machinery and procedures for manufacturing and installing concrete and the machinery and procedures for manufacturing and installing bituminous mixtures.

CONTENTS:

1. Theoretical contents

- Block I Machinery and procedures for extracting and treating natural and recycled aggregates
- TOPIC 1 Installations of natural and recycled aggregates
- Block II General concepts of earthworks
- TOPIC 2 Earthworks
- UNIT 3 General considerations of earth moving machinery
- TOPIC 4 Yields and production

Block III - Machinery and construction procedures for earthworks and road

surfaces

- TOPIC 5 Excavation equipment, pushing equipment and loading equipment.
- TOPIC 6 Excavation, loading and hauling machinery
- TOPIC 7 Levelling machinery and compacting machinery
- TOPIC 8 Soil stabilizing machinery



Block IV - Machinery and procedures for manufacturing and installing bituminous mixtures TOPIC 9 - Facilities for manufacturing and installing bituminous mixtures Block V - Machinery and procedures for manufacturing and installing concrete UNIT 10 - Facilities for manufacturing and installing concrete

2. Practical contents.

- Numerical problem solving
- Searching for machinery on the market and comparison of yields and costs
- Analysis of construction procedure and material manufacturing (group work)