

STORAGE AND DISTRIBUTION NETWORKS

Responsible professor: OLEGARIO CASTILLO LÓPEZ

Credits: 2,5 ECTS

Brief description of the contents:

- Introduction to the calculation of hydraulic conditions
- Hydraulic calculations for a water supply network
- Water supply network modelling
- Pump units. General characteristics of centrifugal pumps. Types of pumps
- Calculation of a characteristic pump curve. Best operating point. Identical pumps in series and in parallel
- Water hammer in pressurised pipes

Detailed programme:

Detailed programme.		
LEARNING BLOCK	TOPIC OR ACTIVITY	
B1	Theory: Introduction to the calculation of hydraulic conditions.	
B2	Theory/practical: Hydraulic calculations for a water supply network.	
В3	Computer class (I): Water supply network modelling	
B4	Computer class (II): Water supply network modelling	
B5	Theory: Pump units. General characteristics of centrifugal pumps. Types of pumps.	
В6	Theory/practical: Calculation of characteristic pump curve. Best operating point. Identical pumps in series and in parallel.	
В7	Laboratory class (I): Calculation of characteristic pump curve.	
B8	Laboratory class (II): Calculation of characteristic pump curve.	
В9	Theory/practical: Water hammer in pressurised pipes.	

Evaluation system

valuation system:	
SYSTEM	WEIGHT
Final exam	40 – 60
Written essays	40 – 50
Presentation of exercises, topics and projects	5 – 10
Laboratory practices and/or practice report	