Summary
The course will bring the major elements on energy storage, principles and physical means

Content
Fundamentals of energy storage, Ragone representation, energy density, power density.
Electrochemical storage components
Supercapacitors
Hydraulic storage
Flywheels
Compressed air energy storage
Transportation, mobile applications
Power electronics and grid connected systems

Learning Prerequisites
Required courses
Energy conversion
Power electronics

Learning Outcomes
By the end of the course, the student must be able to:
• Understand the techniques of energy storage
• Designe correctly a storage system regarding power demand, energy content, energy efficiency

Assessment methods
Written exam