

Energy

Energy optimisation

IDENTIFICATION

CODE : GEN-5-S1-EC-EX-OPT
ECTS : 2.0

HOURS

Lectures :	10.0 h
Seminars :	10.0 h
Laboratory :	0.0 h
Project :	0.0 h
Teacher-student contact :	20.0 h
Personal work :	0.0 h
Total :	20.0 h

ASSESSMENT METHOD

Final exam

TEACHING AIDS

TEACHING LANGUAGE

English

CONTACT

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AIMS

Objectives:

Acquire methods for the rational use of energy in energy systems. Provide efficient energy integration solutions.

CONTENT

- Pinch Analysis
- Exergy Analysis
- Thermo-economic analysis (F-P-L approach)

BIBLIOGRAPHY

on Moodle platform

PRE-REQUISITE

- Thermodynamics (energy and mass balances, cycles and heat engines)
- Heat and mass transfer (heat exchanger)