

Code	IE554
Name	Sustainable Energy Systems
Hour per week	3 (3+0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall or Spring
Type	Elective
Prerequisites	IE511, IE521
Content	Grand challenges in energy systems; current trends in energy demand and supply and greenhouse gas emissions; a review of incumbent technologies (fossil fuels, hydro and nuclear power generation) and renewable technologies (solar, wind, biomass, hydrogen and fuel cells); optimization applications in the above subjects.