

COURSE TITLE:	HEAT AND POWER PLANTS
Institute/Division:	Institute of Process and Power Engineering / Faculty of Mechanical Engineering
Erasmus subject code:	06.1
Number of contact hours:	30
Course duration:	1 semester
ETCS credits:	5
Course description:	Steam power plants, Rankine cycle analysis, gas turbines, internal combustion engines, hydraulic turbines, Stirling engines advanced fossil fuel power systems, energy storage, nuclear power, nuclear fusion, solar thermal energy conversion, wind energy conversion,
Literature:	F. Kreith, The CRC Handbook of Mechanical Engineering, CRC 1998. H.B. Lammer and Woodruff, Steam Power Plant Operation, McGraw-Hill, New York 1967
Course type:	Lectures, classes
Assessment method:	Exam
Prerequisites:	Mathematics, Thermodynamics, Heat Transfer
Primary target group:	2nd year postgraduate Mechanical Engineering students
Lecturer:	Jan Taler, PhD, DSc, Prof.
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Deadline for application:	May 31