

Advanced studies 2016-2017

Code: ENG21

Credits: 30 ECTS cr

Responsible Professors: Martti Larmi, Risto Kosonen

Courses

Advanced studies (select 30 cr, please note the prerequisites in Oodi)

Code	Name of the course	Credits	Teaching term	Note
EEN-E9010	Energy Project	5	I-II	
Heat and Power Processes				
EEN-E2001	Computational Fluid Dynamics	5	III-IV	
EEN-E2002	Combustion Technology	5	III	
EEN-E2003	Combustion	5	IV-V	Course has been removed. Can be replaced by: AAE-E3030 Numerical Modeling of Multiphase Flows L
EEN-E2004	Mass Transfer	5	III-IV	
EEN-E2005	Bioenergy I	5	I	Course has been removed. Can be replaced by: AAE-E3050 Bioenergy and Biofuels L
EEN-E2006	Bioenergy II	5	II	Course has been removed.
EEN-E2007	Energy, Environment and Emission Control	5	II	
Energy Systems for Industry and Communities				
EEN-E3001	Fundamentals of Industrial Energy Engineering	5	III-IV	
EEN-E3002	Power Process Simulation	5	IV-V	
EEN-E3003	Industrial Drying and Evaporation Processes	5	IV	
EEN-E3004	District Heating and Cooling	5	III	
EEN-E3005	Exercises in Energy Technology	5	IV-V	
EEN-E3006	Energy Markets	5	I	
EEN-E3007	Process Integration and Energy Optimisation	5	II	
Building and HVAC Technology				
EEN-E4001	Comfortable and Healthy Indoor Environments	5	III	
EEN-E4002	Heating and Cooling Systems	5	III	
EEN-E4003	Ventilation and Air Conditioning Systems	5	IV	
EEN-E4004	Fundamentals of HVAC Design	5	IV-V	
EEN-E4005	Sustainable Building Energy Systems	5	V	
EEN-E4006	Advanced HVAC Design	5	I-II	
EEN-E4007	Building Energy Optimisation	5	I-II	

Courses by other programmes

(can be included in the advanced studies in Energy Technology)

CHEM-E1120	Thermochemical Processes	5	III-V	
ELEC-E8406	Electricity Distribution and Markets	5	III-IV	
MEC-E2010	Computational Fluid Modelling	5	I	