

1st semester (30 credits) – Lappeenranta University of Technology (Finland)		
	lecturer(s)	credit points
Obbligatory Courses		
Academic Writing in English	Riitta Gröhn	3
Design of an Electrical Machine	Dmitry Egorov, Juha Pyrhönen	6
Fluid machinery	Aki-Pekka Grönman, Jonna Tiainen, Antti Uusitalo	4
Fundamentals of Computational Fluid Dynamics	Teemu Turunen-Saaresti	6
Introduction to Electrical Power Systems*	Juha Pyrhönen	5
<i>*Course is required if student does not have suitable electrical engineering studies in his/her bachelor degree. If this course is required workload for first semester is 35 ECTS</i>		
Elective Courses:		
Advanced Topics in Modelling of Energy Systems	Juha Kaikko, Jouni Ritvanen, Teemu Turunen-Saaresti, Tero Tynjälä, Esa Vakkilainen, Juhani Vihavainen	6
Bioeconomy	Eeva Jernström, Samantha Kiljunen, Mika Sillanpää	5
Bioenergy	Tapio Ranta	3
Biorefineries	Eeva Jernström	5
Electricity Market	Samuli Honkapuro	5
Energy Efficient Environment I	Mika Luoranen	3
Energy Recovery from Solid Waste	Ivan Deviatkin, Mika Luoranen	4
Energy Resources	Christian Breyer, Ashish Gulagi	6
Energy Systems Engineering	Juha Kaikko	6
Steam Boilers	Esa Vakkilainen	6
Maintenance Management	Juha Kaikko	4
Power Exchange Game for Electricity Market	Nadezda Belonogova	3
Power Plant Design	Juha Kaikko, Kari Luostarinen	6
Solid Waste Management Technology	Jouni Havukainen, Mika Horttanainen	7
Sustainable Water Use	Risto Soukka Heli Kasurinen	6
course details on: https://weboodi.lut.fi/oodi/vl_kehys.jsp?Kieli=6&MD5avain=&vl_tila=2&Opas=312&Orq=16194548		
2nd semester (30 credits) – Peter the Great St. Petersburg Polytechnic University (Russia)		
	lecturer(s)	credit points
Obbligatory Courses		
Internship (obtaining Primary Professional Skills)	Alena Aleshina, Yaroslav Vladimirov, Associate Professors, Ph.D. in Technology	6
Modeling of Vaporization Processes	Natalia Agafonova	2
Numerical Methods in Heat and Mass Transfer II	Ekaterina Kitanina	3
Power Supply Systems for Enterprises		2
Thermal Hydraulics	Ekaterina Kitanina	2
Thermal Power Plants	Anikina Irina	4
Turbine-driven Compressors	Alexander Lebedev, Lubov Gileva	4
Elective Courses:		
Designing of High Voltage Insulation	Sergey Dudkin	2
Electrical Power Systems	Evgeniy Sheskin	6
Russian Language in Professional Activities		4
Technical Superconductivity	Petr Toman	4
course details on: http://english.spbstu.ru/education/programs/double-degree-programs/energy-technology/		
3rd semester (30 ECTS) – Leibniz University of Hanover (Germany)		
	lecturer(s)	credit points
Obbligatory Courses		
Combustion Technology	Friedrich Dinkelacker, Kalyan Kuppa	5
Electric Power Systems	Thomas Leveringhaus	5
Electrical Energy Storage	Astrid Bensmann, Boris Bensmann	5
Electrical Machines and Drives	Amir Ebrahimi	5
Electrothermal Processing (Electrotechnologies)	Bernard Nacke	5
Power Electronics	Jens Friebe	5
Heavy-Duty Gas Turbines	Jörg Seume	5
Electrical Machines for eAutomotive Traction Applications	Boris Dotz	5
course details on: https://www.dbs.uni-hannover.de/et-inf/modkat/lvk/index.php		
4th semester (30 ECTS)		
Scientific and Research Work. Master Thesis Completion. Final Examination		30