

U! Virtual Exchange Credit Programme in Energy

Course catalogue Spring semester 2021/22

University	Country	Course name	Credits	Professor	Level	Link to Syllabus	Specific requirements for participation	Course beginning/end dates	Additional information
ULisbon - IST	Portugal	Offshore Wind Energy	6	Ricardo Pereira	MSc	https://fenix.tecnico.ulisboa.pt/cursos/mege/disciplina-curricular/1529008521747	not applicable	02.March/08.July	Course offered in both semesters
ULisbon - IST	Portugal	Wave Energy	6	Luís Gato	MSc	https://fenix.tecnico.ulisboa.pt/cursos/mege/disciplina-curricular/1529008521746	not applicable	02.March/08.July	
ULisbon - IST	Portugal	Marine Current and Tidal Energy	6	João Carlos Henriques	MSc	https://fenix.tecnico.ulisboa.pt/cursos/mege/disciplina-curricular/1529008521744	not applicable	02.March/08.July	
Aalto University	Finland	Engineering Materials Seminar	5	Sven Bossuyt	MSc	https://mycourses.aalto.fi/course/view.php?id=29544#section-0	Compulsory prerequisites are a basic course on materials science like the COE-C2004 or KJR-C2004 courses at Aalto, or permission from the teacher.	19.4-3.5.2022	https://oodi.aalto.fi/a/opintjakstied.jsp?OpinKohd=1125619568&haettuOpa=1&Kieli=6
Aalto University	Finland	Fundamentals of Industrial Energy Engineering	5	Henrik Holmberg	MSc	https://mycourses.aalto.fi/course/info.php?id=28412	Basics of thermodynamics and CHP plant (Rankine based process)	11.1-7.4.2022	https://mycourses.aalto.fi/course/view.php?id=28412
Aalto University	Finland	Advances in New Energy Technologies	5	Peter Lund	MSc	https://mycourses.aalto.fi/course/info.php?id=25904	BSc in engineering/physics and basic understanding of energy systems. PHYS-C6370 Fundamentals of New Energy Sources or equivalent recommended, but not compulsory.	12.1-12.4.2022	https://oodi.aalto.fi/a/opintjakstied.jsp?MD5avain=&Kieli=6&OpinKohd=1118106078&OpetTap=1144234500&akaisin=opettaptied.jsp&vltila=&Opa=-
Aalto University	Finland	Solar Energy Engineering D	5	Janne Halme	MSc	https://mycourses.aalto.fi/course/info.php?id=25916	not applicable	10.1-2.6.2022	https://mycourses.aalto.fi/course/info.php?id=25916
Aalto University	Finland	Energy and Environmental Economics	6	Iivo Vehviläinen	MSc	https://mycourses.aalto.fi/course/info.php?id=27604	not applicable	19.4-30.5.2022	https://oodi.aalto.fi/a/opintjakstied.jsp?OpinKohd=1017728499&haettuOpa=1
KTH	Sweden	MJ2410 Energy Management	6	Hatef Madani	Master(2nd cycle)	https://www.kth.se/student/kurser/kurs/MJ2410?l=en	Degree of Bachelor of Science. Preferably knowledge in Applied thermodynamics (e.g. MJ112, 9 ECTS)	18/01/2022 - 07/06/2022	
KTH	Sweden	MJ2412 Advanced Renewable Energy Technology	6	Justin Chiu	Master(2nd cycle)	https://www.kth.se/student/kurser/kurs/MJ2412?l=en	MJ2411 Renewable Energy, 6 credits (https://www.kth.se/student/kurser/kurs/MJ2411?l=en) or the equivalent.	18/01/2022 - 18/03/2022	
KTH	Sweden	MJ2246 Rocket Propulsion	6	Björn Laumert	Master(2nd cycle)	https://www.kth.se/student/kurser/kurs/MJ2246	MJ112 Thermodynamics, 9 hp (https://www.kth.se/student/kurser/kurs/MJ112?l=en), or corresponding knowledge SG1220 Fluid mechanics, 6 hp (https://www.kth.se/student/kurser/kurs/SG1220?l=en) or corresponding knowledge MJ2429 Turbomachinery, 6 hp (https://www.kth.se/student/kurser/kurs/MJ2429?l=en) or corresponding knowledge	18/01/2022 - 18/03/2022	
TU Darmstadt	Germany	Fundamentals and Technology of Solar Cells	4	Prof. Dr. Wolfram Jaegermann	Master(2nd cycle)	https://www.mawi.tu-darmstadt.de/media/materialwissenschaften/responsive/studium_5/studierende/downloads_1/master_3/englisch_6/studienordnung_7/dokumente_16/Modulhandbuch_Master_PO2015.pdf see page 48	recommended: modules "Surfaces and Interfaces", "Quantum Mechanics for Materials; Science", "Electrochemistry in Energy Applications I: Converter Devices"	11.04.2022/15.07.2022	https://www.tucan.tu-darmstadt.de/scripts/mgrqispi.dll?APPNAME=CampusNet&PRGNAME=COURSEDETAILS&ARGUMENTS=-N00000000000002.-N000630.-N0.-N374234645760357.-N374234645730358.-N0.-N0.-N0
Grenoble INP-UGA	France	Optimization for energy systems	6	ahmad.hably@grenoble-inp.fr	Master(2nd cycle)	http://www.gipsa-lab.grenoble-inp.fr/~ahmad.hably/courses.html	programming and some mathematical notions	31/01/2022-11/06/2022	Teaching modality: asynchronous
Grenoble INP-UGA	France	Heat and Mass Transfer	5	samuel.siedel@grenoble-inp.fr	Master	https://ense3.grenoble-inp.fr/en/academics/heat-and-mass-transfers-4eus4hmt	Thermodynamic basis - Thermal modeling Basic - Heat transfer	31/01/2022-11/06/2022	Teaching modality: asynchronous
Grenoble INP-UGA	France	Team Project (various topics)	5	stephane.guillet@grenoble-inp.fr	Master	https://ense3.grenoble-inp.fr/en/academics/team-project-4eus4pro	Compulsory courses in the field of study (depending on the project topic)	31/01/2022-11/06/2022	Synchronous since integrated in a Local Group of students