

# FACULTY OF NATURAL SCIENCE AND TECHNOLOGY

## NORDIC MASTER'S PROGRAMME IN INNOVATIVE SUSTAINABLE ENERGY ENGINEERING (MSISEE)

Term 1 and 2\*

### SYSTEM INTEGRATION OF WIND POWER

Ex	Subject no.	Subject title	Note	Cr
		<b>Compulsory courses</b>		
1h	TET4115	POWER SYSTEM ANALYS		7,5
1h	TET4190	POWER ELECTR REN ENER		7,5
1h	TEP4175	ENERGY WIND TIDAL		7,5
1v	TEP4220	ENERGY/ENV CONSEQ		7,5
1v	TET4175	DES/OPER SMART GRID		7,5
1v	TET4185	POWER MARK RES/ENV		7,5
		<b>Optional courses</b>	1	
1h	TEP4223	LIFE CYCLE ASSESSM		7,5
1h	TEP4240	SYSTEM SIMULATION		7,5
1h	TIØ4556	ENERGY MARKETS SC		7,5
1v	-	EXP IN TEAM INT PROJ		7,5
1v	TET4135	ENERGY/SYST PLAN/OP		7,5
1v	TET4180	ELECT POW SYST STAB		7,5
1v	TET4200	MAR/OFFSH POW SYST		7,5

Ex 1h = Term 1, Exam Autumn

Ex 1v = Term 2, Exam Spring

1) Optional courses must be selected to obtain a total of 30 credits in each semester.

The Innovative and Sustainable Energy Engineering (ISEE) programme is a joint Nordic master programme between six Nordic Universities in five Nordic Countries.

\* The second year, term 3 and 4, are taught at the Technical University of Denmark (DTU).

For further information see

[www.msisee.org](http://www.msisee.org)

[www.ntnu.edu/studies/msisee](http://www.ntnu.edu/studies/msisee)

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## NORDIC MASTER'S PROGRAMME IN INNOVATIVE SUSTAINABLE ENERGY ENGINEERING (MSISEE)

Term 3 and 4\*

### SOLAR CELL SYSTEMS AND MATERIALS

Ex	Subject no	Subject title	Note	Cr
		<b>Optional courses</b>	1	
2h	FY3114	FUNC MATERIALS	2	7,5
2h	TFE4145	SEMICON PHYS/ELECTR	2	7,5
2h	TFY4255	MATERIALS PHYSICS	2	7,5
2h	TFY4300	ENERGY/ENV PHYSICS	2	7,5
2h	TMT4322	SOLAR CELLS/PHOTO	2,3	7,5
2h	TMT4326	REFIN/RECYC METALS	3	7,5
2h	TMT4330	RESOU ENERG/ENVIR	3	7,5
		<b>Specialization projects</b>	4	
2h	TFYxxxx	SEMESTER PROJECT		15,0
2h	TMTxxxx	SEMESTER PROJECT		15,0
		<b>Master Thesis</b>	5	
2v	TFY49xx	SOLAR CELL SYST/MATR		30,0
2v	TMT49xx	SOLAR CELL SYST/MATR		30,0

Ex 2h = Term 3, Exam Autumn

Ex 2v = Term 4, Master Thesis Spring

- 1) Optional courses must be selected to obtain a total of 30 credits in each semester.
- 2) Optional courses available for students choosing the Physics specialization.
- 3) Optional courses available for students choosing the Materials specialization.
- 4) One specialization project must be chosen according to the selected specialization.
- 5) The master thesis must be chosen according to the selected specialization.

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