



Ocean Technology

- 5 year + 2 year master program
- Focus on:
 - Environmental monitoring of the ocean
 - Sustainable harvest of sea and seafloor resources
 - Mapping/ exploration of the seafloor
- Study program specializations:
 - 1. Marine Measurement Systems
 - Acoustics
 - Optics
 - Instrumentation
 - 2. Marine Installations
 - Marine construction
- Capacity: 22 students in five year &
 7 students in two-year master program)





1. University of Bergen

- Department of Physics and Technology
- Department of Geophysics
- Department of Earth Science

2. Western Norway University of Applied Sciences

- Institute of mechanical engineering/ marine engineering
- Institute of electrical engineering

3. Royal Norwegian Naval Academy

Interaction with industry and research establishments



 $Study\ plan\ for\ Ocean\ Technology-specialization\ \textit{Marine}\ \textit{Measurement}\ \textit{Systems, Instrumentation}:$

10.sem. –	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)
Spring	Master thesis	Master thesis	Master thesis
9.sem. – Fall	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis
8.sem. – Spring	PHYS271 (10 ECTS) (Acoustics) or PHYS264 (10 ECTS) (Atmospheric and Marine Optics) or PHYS231 (10 ECTS) (Physics of radiation)	ELE301* (10 ECTS) (Industrial IT)	Elective (10 ECTS)
7.sem. – Fall	HTEK301 (10 ECTS) (Selected topics in ocean technology)	ELE306+ (10 ECTS) (Robotics)	Elective (10 ECTS)
6.sem. – Spring	HTEK202 (10 ECTS) (Laboratory course in measurement technology and instrumentation)	ELE102* (10 ECTS) (Programming and micro controllers)	MAS116* (10 ECTS) (Hydrodynamics)
5.sem. – Fall	HTEK201 (10 ECTS) (Measurement Technology)	ELE115* (10 ECTS) (Construction of analog instruments)	PHYS116 (10 ECTS) (Signal and System Analysis)
4.sem. – Spring	MAT121 (10 ECTS) (Linear Algebra)	PHYS114 (10 ECTS) (Basic Measurement Science and Experimental Physics)	EXPHIL-MNSEM (Examen Philosophicum) (10 ECTS)
3.sem. – Fall	STAT110 (10 ECTS) (Basic Course in Statistics)	PHYS112 (10 ECTS) (Electromagnetism I)	HTEK102 (10 ECTS) (Practical Training in Ocean Technology)
2.sem. – Spring	MAT112 (10 ECTS) (Calculus II)	PHYS111 (10 ECTS) (Mechanics I)	ING101 (10 ECTS) (Technology Management, Economics and Entrepreneurship)
1.sem. – Fall	MAT111 (10 ECTS) (Calculus I)	INF100 (10 ECTS) (Introduction to Programming)	HTEK101 (10 ECTS) (Introduction to Ocean Environment)

1) Industry member in study program board



Interaction with industry and research establishments



Study plan for Ocean Technology - specialization Marine Measurement Systems, Instrumentation:

10.sem. – Spring	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis
9.sem. – Fall	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis	HTEK399 (10 ECTS) Master thesis
8.sem. – Spring	PHYS271 (10 ECTS) (Acoustics) or PHYS264 (10 ECTS) (Atmospheric and Marine Optics) or PHYS231 (10 ECTS) (Physics of radiation)	ELE301* (10 ECTS) (Industrial IT)	Elective (10 ECTS)
7.sem. – Fall	HTEK301 (10 ECTS) (Selected topics in ocean technology)	ELE306* (10 ECTS) (Robotics)	Elective (10 ECTS)
6.sem. – Spring	HTEK202 (10 ECTS) (Laboratory course in measurement technology and instrumentation)	ELE102+ (10 ECTS) (Programming and micro controllers)	MAS116* (10 ECTS) (Hydrodynamics)
5.sem. – Fall	HTEK201 (10 ECTS) (Measurement Technology)	ELE115* (10 ECTS) (Construction of analog instruments)	PHYS116 (10 ECTS) (Signal and System Analysis)
4.sem. – Spring	MAT121 (10 ECTS) (Linear Algebra)	PHYS114 (10 ECTS) (Basic Measurement Science and Experimental Physics)	EXPHIL-MNSEM (Examen Philosophicum) (10 ECTS)
3.sem. – Fall	STAT110 (10 ECTS) (Basic Course in Statistics)	PHYS112 (10 ECTS) (Electromagnetism I)	HTEK102 (10 ECTS) (Practical Training in Ocean Technology)
2.sem. – Spring	MAT112 (10 ECTS) (Calculus II)	PHYS111 (10 ECTS) (Mechanics I)	ING101 (10 ECTS) (Technology Management, Economics and Entrepreneurship)
1.sem. – Fall	MAT111 (10 ECTS) (Calculus I)	INF100 (10 ECTS) (Introduction to Programming)	HTEK101 (10 ECTS) (Introduction to Ocean Environment)

1) Study program board including industry member

2) Practical training 2 days pr. week for a full semester



Practical training in Ocean Technology























Interaction with industry and research establishments



Study plan for Ocean Technology – specialization Marine Measurement Systems, Instrumentation:

10.sem. –	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)
Spring	Master thesis	Master thesis	Master thesis
9.sem. – Fall	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)	HTEK399 (10 ECTS)
	Master thesis	Master thesis	Master thesis
8.sem. – Spring	PHYS271 (10 ECTS)	ELE301* (10 ECTS)	Elective (ECTS)
	(Acoustics)	(Industrial IT)	
	<u>or</u>		
	PHYS264 (10 ECTS)		
	(Atmospheric and Marine		
	Optics)		
	OF DUMCARA (10 ECTS)		
	PHYS231 (10 ECTS) (Physics of radiation)		
7.sem. – Fall	HTEK301 (10 ECTS)	ELE306* (10 ECTS)	Elective ECTS)
7.52	(Selected topics in ocean	(Robotics)	
	technology)		
6.sem. – Spring	HTEK202 (10 ECTS)	ELE102* (10 ECTS)	MAS116 DECTS)
	(Laboratory course in	(Programming and micro	(Hydrod nics)
	measurement technology	controllers)	
	and instrumentation)		
5.sem. – Fall	HTEK201 (10 ECTS)	ELE115* (10 ECTS)	PHYS11 ECTS)
	(Measurement	(Construction of analog	(Signal a ystem
	Technology)	instruments)	Analysis
4.sem. – Spring	MAT121 (10 ECTS)	PHYS114 (10 ECTS)	EXPHIL- EM
	(Linear Algebra)	(Basic Measurement	(Examer
		Science and Experimental	Philosop m)
		Physics)	(10 ECT:
3.sem. – Fall	STAT110 (10 ECTS)	PHYS112 (10 ECTS)	HTEK102 (10 ECTS)
	(Basic Course in Statistics)	(Electromagnetism I)	(Practical Training in Ocean Technology)
2.sem. – Spring	MAT112 (10 ECTS)	PHYS111 (10 ECTS)	ING101 (10 ECTS)
z.sem. – spring	(Calculus II)	(Mechanics I)	(Technology
	(22.23.03.11)	(zanamez i)	Management,
			Economics and
			Entrepreneurship)
1.sem. – Fall	MAT111 (10 ECTS)	INF100 (10 ECTS)	HTEK101 (10 ECTS)
	(Calculus I)	(Introduction to	(Introduction to Ocean
		Programming)	Environment)

3) 1 year master project (Internal & external projects)

1) Study program board including industry member

2) Practical training 2 days pr. week for a full semester



Ocean Technology students

Socially active and inclusive students







Participates actively in professional events



3 av 3 vinnere i Innovasjonsløpet 2019



Forskningsdagene 2018



Realfaglige jentarrangementet «Et HAV av muligheter» 2019





Contact persons

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