

**FACULTY OF NATURAL SCIENCES AND TECHNOLOGY**  
**MSC-PROGRAMME IN MEDICAL TECHNOLOGY (MSMEDTEK)**

Term 1, 2, 3 and 4

Ex	Subject no.	Subject title	Note	Cr	Specialization				
					1	2	3	4	5*
		<b>Compulsory and optional courses</b>							
1h	BI3013	EXP CELL BIOLOGY		7,5	-	-	-	-	v
1h	FY2302	BIOPHYSICS I		7,5	-	-	-	v	-
1h	IT3604	ORGANIZATION/ICT		7,5	-	v	-	-	-
1h	MFEL3010	MED FOR STUD OF NAT		7,5	o	o	o	o	-
1h	MOL3000	INTRO MOL MEDICINE		7,5	-	-	-	-	o
1h	MOL3005	IMMUNOLOGY		7,5	-	-	-	-	o
1h	MOL3014	NANOMED 1		7,5	-	-	-	-	v
1h	TBT4135	BIOPOLYMERS		7,5	-	-	-	-	v
1h	TBT4145	MOL GENETICS		7,5	-	-	-	-	o
1h	TDT4138	KNOW REPR/MODEL		7,5	-	-	v	-	-
1h	TDT4200	PARALLEL COMPUTING		7,5	-	-	v	-	-
1h	TDT4210	HEALTHCARE INFORM		7,5	-	o	v	-	-
1h	TDT4245	COOPERATION TECHN		7,5	-	v	-	-	-
1h	TDT4250	MODEL DRIVEN DEV IS		7,5	-	v	-	-	-
1h	TFY4225	NUCLEAR/RAD PHYS		7,5	-	-	-	o	-
1h	TFY4265	BIOPHYSICAL MICROMET		7,5	-	-	-	v	-
1h	TFY4310	MOLECULAR BIOPHYSICS		7,5	-	-	-	v	-
1h	TTK4160	MEDICAL IMAGING		7,5	o	-	v	-	-
1h	TTT4130	DIGITAL COMMUN		7,5	v	-	-	-	-
1h	TTT4155	REMOTE SENSING		7,5	v	-	-	-	-
1h	TTT4175	MARINE ACOUSTICS		7,5	v	-	-	-	-
1v	-	EXP IN TEAM INT PROJ		7,5	o	o	o	o	o
1v	BI2012	CELL BIOLOGY		7,5	-	-	-	-	v
1v	BI3018	PAT/COMMERCIALIZAT		7,5	-	-	-	-	v
1v	BI3073	GENETIC TOXICOLOGY		7,5	-	-	-	-	v
1v	DT8112	RES TOP HEALTH INFO		7,5	-	v	-	-	-
1v	MOL3007	FUNCTIONAL GENOMICS		7,5	-	-	-	-	v
1v	MOL3015	NANOMED II THERAPY		7,5	-	-	-	-	v
1v	MOL4010	MOL BIOL FOR TECH	1	7,5	-	-	o	-	-
1v	MTEK3001	APPL BIOINFORMATICS		7,5	-	-	o	-	-
1v	TDT4215	WEB INTELLIGENCE		7,5	-	v	-	-	-
1v	TDT4240	SOFTWARE ARCHITECT		7,5	-	v	-	-	-
1v	TDT4242	REQUIREMENTS/TESTING		7,5	-	o	-	-	-
1v	TFY4280	SIGNAL PROCESSING		7,5	-	-	-	v	-
1v	TFY4315	BIOPHYS IONIZ RADIAT		7,5	-	-	-	o	-
1v	TFY4320	MEDICAL PHYSICS		7,5	v	-	-	o	-
1v	TMA4300	COMP STAT METHODS		7,5	-	-	o	-	-
1v	TTK4165	SIGNAL PROC MED IMAG		7,5	o	-	-	-	-
1v	TTK4170	MOD/IDENT BIOL SYS		7,5	-	-	-	v	-
1v	TTT4125	INFO THEORY COD/COMP		7,5	o	-	-	-	-
1v	TTT4240	STAT SIGNAL THEORY		7,5	v	-	-	-	-
1v	TTT4245	MARINE ACOUSTICS II		7,5	v	-	-	-	-

cont.

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Ex	Subject no.	Subject title	Note	Cr	Specialization				
					1	2	3	4	5*
2h	BI3016	MOLECULAR CELL BIOL		7,5	-	-	-	-	o
2h	TDT4138	KNOWLEDGE REPR MOD		7,5	-	o	-	-	-
2h	TDT4287	ALGORITHMS BIOINFO		7,5	-	-	o	-	-
2h	TKT4150	BIOMECHANICS		7,5	-	-	-	v	-
2h	TTK4160	MEDICAL IMAGING		7,5	-	-	-	v	-
2h	TTT4135	MULTIMEDIA SIGNAL PRO		7,5	o	-	-	-	-
		<b>Specialization courses</b>	2						
2h	TBI4505	BIOTECHNOLOGY SC	3	7,5	-	-	-	-	v
2h	TBT4505	BIOTECHNOLOGY SC	3	7,5	-	-	-	-	v
2h	TDT4535	BIOINFORMATICS SC		7,5	-	-	o	-	-
2h	TDT4545	HEALTHCARE INFO SC		7,5	-	o	-	-	-
2h	TFY4505	BIOPHYSICS SC		7,5	-	-	-	o	-
2h	TTK4555	ENG CYBERNETICS SC	4	7,5	v	-	-	-	-
2h	TTT4525	SIGNAL PROC SC	4	7,5	v	-	-	-	-
		<b>Specialization projects</b>							
2h	TBI4500	BIOTECHNOLOGY SP	3	15,0	-	-	-	-	v
2h	TBT4500	BIOTECHNOLOGY SP	3	15,0	-	-	-	-	v
2h	TDT4530	BIOINFORMATICS SP		15,0	-	-	o	-	-
2h	TDT4540	HEALTHCARE INFO SP		15,0	-	o	-	-	-
2h	TFY4500	BIOPHYSICS SP		15,0	-	-	-	o	-
2h	TTK4550	ENG CYBERNETICS SP	4	15,0	v	-	-	-	-
2h	TTT4520	SIGNAL PROC SP	4	15,0	v	-	-	-	-
		<b>Master Thesis</b>							
2v	TBI4900	BIOTECHNOLOGY	3	30,0	-	-	-	-	v
2v	TBT4900	BIOTECHNOLOGY	3	30,0	-	-	-	-	v
2v	TDT4900	COMP INFORM SCIENCE		30,0	-	o	o	-	-
2v	TFY4910	BIOPHYSICS		30,0	-	-	-	o	-
2v	TTK4900	ENGINEERING CYBERN	4	30,0	v	-	-	-	-
2v	TTT4900	ACOUST SIGN PROC/COM	4	30,0	v	-	-	-	-

\* Follows the Examination regulations for the Natural Sciences studies.

o = compulsory courses

v - optional courses

Ex 1h = Term 1, Exam Autumn

Ex 2h = Term 3, Exam Autumn

Ex 1v = Term 2, Exam Spring

Ex 2v = Term 4, Master Thesis Spring

Specialization:

1 Medical Signal Processing and Imaging

2 Healthcare Informatics

3 Bioinformatics

4 Biophysics and Medical Physics

5 Medical Biotechnology

1) Lectures are held in Norwegian, but PBL exercises and presentations are given in English.

2) Other relevant ordinary subjects may be chosen, if taught in English.

3) Students at specialization Medical Biotechnology should choose one of the combinations TBI4500/TBI4505/TBI4900 or TBT4500/TBT4505/TBT4900.

4) Students at specialization Medical Signal Processing and Imaging should choose one of the combinations TTK4550/TTK4555/TTK4900 or TTT4520/TTT4525/TTT4900.