

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*
		Compulsory and optional courses							
1h	BI3013	EXP CELL BIOLOGY		7,5	-	-	-	-	v
1h	FY2302	BIOPHYSICS I		7,5	-	-	-	v	-
1h	IT3604	ORGANIZATION/ICT		7,5	-	v	-	-	-
1h	MFEL1010	MED FOR NON MED STUD	1	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	TDT4117	INFO RETRIEVAL		7,5	-	-	v	-	-
1h	TDT4136	LOGIC/REASONING SYST		7,5	-	v	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	-	-	v	-	-
1h	TTT4125	INFO THEORY COD/COMP		7,5	o	-	-	-	-
1h	TTT4145	RADIO COMMUNICATIONS		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	2	7,5	-	v	-	-	-
1v	MOL3007	FUNCTIONAL GENOMICS		7,5	-	-	-	-	v
1v	MOL3015	NANOMED II THERAPY		7,5	-	-	-	-	v
1v	MOL4010	MOL BIOL FOR TECH	3	7,5	-	-	o	-	-
1v	MTEK3001	APPL BIOINFORMATICS		7,5	-	-	o	-	-
1v	TDT4213	CLINICAL INFO SYSTEM		7,5	-	o	-	-	-
1v	TDT4215	WEB INTELLIGENCE		7,5	-	v	-	-	-
1v	TDT4240	SOFTWARE ARCHITECT		7,5	-	v	-	-	-
1v	TFY4315	BIOPHYS IONIZ RADIAT		7,5	-	-	-	o	-
1v	TFY4320	MEDICAL PHYSICS		7,5	v	-	-	o	-
1v	TKT4150	BIOMECHANICS		7,5	-	-	-	v	-
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	TTT4136	SOUND/IMAGE PROCESS		7,5	o	-	-	-	-
1v	TTT4240	STAT SIGNAL THEORY		7,5	v	-	-	-	-
1v	TTT4245	MARINE ACOUSTICS II		7,5	v	-	-	-	-

cont.

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

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	TTK4160	MEDICAL IMAGING		7,5	o	-	-	o	-
Specialization courses									
2h	TBT4505	BIOTECHNOLOGY SC		7,5	-	-	-	-	o
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	-	-	-	-
Specialization projects									
2h	TBT4500	BIOTECHNOLOGY SP		15,0	-	-	-	-	o
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	-	-	-	-
Master Thesis									
2v	TBT4900	BIOTECHNOLOGY		30,0	-	-	-	-	o
2v	TDT4900	COMP INFORM SCIENCE		30,0	-	o	o	-	-
2v	TFY4900	PHYSICS		30,0	-	-	-	o	-
2v	TTK4900	ENGINEERING CYBERN	5	30,0	v	-	-	-	-
2v	TTT4900	ACOUST SIGN PROC/COM	5	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 1v = Term 2, Exam Spring

Ex 2h = Term 3, Exam Autumn

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 all lectures are available in English as films through It's learning. In addition all presentations are available as pdf-files at the same site.
- 2) The course will not be taught in 2010/11.
- 3) Lectures are held in Norwegian, but PBL exercises and presentations are given in English.
- 4) Students at specialization Medical Signal Processing and Imaging should choose one of the combinations TTK4550/TTK4555 or TTT4520/TTT4525.
- 5) Students at specialization Medical Signal Processing and Imaging should choose either TTT4900 or TTK4900.