

## 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
		<b>Compulsory and optional courses</b>						
1h	FY2302	BIOPHYSICS I		7,5	-	-	-	v
1h	IT3105	ART INTEL PROGR		7,5	-	v	-	-
1h	MFEL3010	MED FOR STUD OF NAT		7,5	o	o	o	o
1h	TDT4173	MACH LEAR/CASE REAS		7,5	-	v	v	-
1h	TDT4200	PARALLEL COMPUTING	1	7,5	-	v	v	-
1h	TDT4210	HEALTHCARE INFORM		7,5	-	o	v	-
1h	TDT4237	SOFTWARE SECURITY		7,5	-	v	-	-
1h	TDT4245	COOPERATION TECHN		7,5	-	v	-	-
1h	TDT4250	MODEL DRIVEN DEV IS		7,5	-	v	-	-
1h	TDT4287	ALG FOR BIOINF		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	1	7,5	o	v	v	-
1h	TTK4170	MOD/IDENT BIOL SYS		7,5	-	-	-	v
1h	TTT4130	DIGITAL COMMUN	1	7,5	v	v	-	-
1h	TTT4135	MULTIMEDIA SIGNAL PRO		7,5	v	-	-	-
1h	TTT4175	MARINE ACOUSTICS		7,5	v	-	-	-
1v	-	EXP IN TEAM INT PROJ		7,5	o	o	o	o
1v	DT8112	RES TOP HEALTH INFO		7,5	-	v	-	-
1v	MOL3019	APPL BIOINFORMATICS		7,5	-	-	o	-
1v	MOL4010	BASIC MOL BIOL	2	7,5	-	-	o	-
1v	TBT4165	SYST BIOL/BIOL NETW		7,5	-	-	v	-
1v	TDT4175	INFORM SYSTEMS		7,5	-	v	-	-
1v	TDT4215	WEB INTELLIGENCE		7,5	-	v	-	-
1v	TDT4230	GRAPH/VISUAL		7,5	-	v	-	-
1v	TDT4240	SOFTWARE ARCHITECT		7,5	-	v	-	-
1v	TDT4242	REQUIREMENTS/TESTING		7,5	-	v	-	-
1v	TFY4280	SIGNAL PROCESSING		7,5	-	-	-	o
1v	TFY4315	BIOPHYS IONIZ RADIAT		7,5	-	-	-	o
1v	TFY4320	MEDICAL PHYSICS		7,5	v	-	v	o
1v	TMA4300	COMP STAT METHODS		7,5	-	-	v	-
1v	TTK4165	SIGNAL PROC MED IMAG		7,5	o	-	-	-
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
2h	DT8119	CLIN DEC SUPPORT		7,5	-	v	-	-
2h	IT3105	ART INTEL PROGR		7,5	-	v	-	-
2h	TDT4173	MACH LEAR/CASE REAS		7,5	-	v	-	-
2h	TDT4200	PARALLEL COMPUTING		7,5	-	v	-	-
2h	TDT4237	SOFTWARE SECURITY		7,5	-	v	-	-
2h	TDT4287	ALGORITHMS BIOINFO		7,5	-	v	o	-
2h	TKT4150	BIOMECHANICS		7,5	-	-	-	v
2h	TTK4160	MEDICAL IMAGING		7,5	-	v	-	v
2h	TTT4130	DIGITAL COMMUN		7,5	-	v	-	-
2h	TTT4135	MULTIMEDIA SIGNAL PRO		7,5	o	-	-	-
		<b>Specialization courses</b>	3					
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	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	TDT4900	COMP INFORM SCIENCE		30,0	-	o	o	-
2v	TFY4910	BIOPHYSICS		30,0	-	-	-	o
2v	TTK4900	ENGINEERING CYBERN	4	30,0	v	-	-	-
2v	TTT4900	SIGN PROC/COM	4	30,0	v	-	-	-

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

- 1) The courses are not considered when planning the teaching and examination schedules.
- 2) Lectures are held in Norwegian, but PBL exercises and presentations are given in English.
- 3) Other relevant ordinary subjects may be chosen, if taught in English.
- 4) Students at specialization Medical Signal Processing and Imaging should choose one of the combinations TTK4550/TTK4555/TTK4900 or TTT4520/TTT4525/TTT4900.