

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

Term 1, 2, 3 and 4

Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam	Specialization				
				F	Ø	S	F	Ø	S			1	2	3	4	5*
1h	BI3013	EXP CELL BIOLOGY		2	4	6				7,5	x	-	-	-	-	v
1h	FY2302	BIOPHYSICS 1		4	1	7				7,5	-	-	-	-	v	-
1h	IT3604	ORGANIZATION/ICT		2	2	8				7,5	-	-	v	-	-	-
1h	MFEL1010	MED FOR NON MED STUD	1	3	3	6				7,5	x	o	o	o	o	-
1h	MOL3000	INTRO MOL MEDICINE								7,5	x	-	-	-	-	o
1h	MOL3013	MOL PHYSIOLOGY								7,5	x	-	-	-	-	o
1h	TBT4135	BIOPOLYMERS		4	2	6				7,5	x	-	-	-	-	v
1h	TBT4145	MOL GENETICS		4	4	4				7,5	x	-	-	-	-	o
1h	TDT4136	LOGIC/REASONING SYST		3	2	7				7,5	x	-	v	v	-	-
1h	TDT4210	HEALTHCARE INFORM		3	2	7				7,5	x	-	o	v	-	-
1h	TDT4245	COOPERATION TECHN		3	2	7				7,5	x	-	v	-	-	-
1h	TDT4250	MODEL BASED DEV IS		3	2	7				7,5	x	-	v	-	-	-
1h	TFY4225	NUCLEAR/RAD PHYS		4	3	5				7,5	x	-	-	-	o	-
1h	TFY4265	BIOPHYSICAL MICROMET		3	3	6				7,5	x	-	-	-	v	-
1h	TFY4310	MOLECULAR BIOPHYSICS		4	3	5				7,5	x	-	-	-	v	-
1h	TMA4270	MULTIVAR ANALYSIS		4	1	7				7,5	x	-	-	o	-	-
1h	TTK4160	MEDICAL IMAGING		4	4	4				7,5	x	-	-	v	-	-
1h	TTT4125	INFO THEORY COD/COMP		4	1	7				7,5	x	o	-	-	-	-
1h	TTT4130	DIG COMMUNICATION		3	2	7				7,5	x	v	-	-	-	-
1h	TTT4155	REMOTE SENSING		3	2	7				7,5	x	v	-	-	-	-
1h	TTT4175	MARINE ACOUSTICS		4	2	6				7,5	x	v	-	-	-	-
1v	-	EXPH IN TEAM INT PROJ						5	7	7,5	-	o	o	o	o	o
1v	BI2012	CELL BIOLOGY					2	4	6	7,5	x	-	-	-	-	v
1v	BI3018	PAT/COMMERCIALIZAT					2	5	5	7,5	-	-	-	-	-	v
1v	BI3037	GENETIC TOXICOLOGY					2	2	8	7,5	x	-	-	-	-	v
1v	DT8112	RES TOP HEALTH INFO					2	2	8	7,5	-	-	v	-	-	-
1v	IT2801	INFO RETRIEVAL					2	2	8	7,5	x	-	-	v	-	-
1v	MOL4010	MOL BIOL FOR TECH	2				3	3	6	7,5	x	-	-	v	-	-
1v	MOL8002	MOL MECH HOST DEF								9,0	x	-	-	-	-	v
1v	MTEK3001	APPL BIOINFORMATICS					3	3	6	7,5	x	-	-	o	-	-
1v	TDT4213	CLINICAL INFO SYSTEM					3	2	7	7,5	x	-	o	-	-	-
1v	TDT4215	WEB INTELLIGENCE					3	2	7	7,5	x	-	v	-	-	-
1v	TDT4240	SOFTWARE ARCHITECT					3	2	7	7,5	x	-	v	-	-	-
1v	TFY4315	BIOPHYSICS SPECIAL					3	2	7	7,5	x	-	-	-	o	-
1v	TFY4320	MEDICAL PHYSICS					3	2	7	7,5	x	v	-	-	o	-
1v	TKT4150	BIOMECHANICS					4	1	7	7,5	x	-	-	-	v	-
1v	TMA4300	MODERN STAT METHODS					3	2	7	7,5	x	-	-	v	-	-
1v	TTK4165	SIGNAL PROC MED IMAG					2	6	4	7,5	x	o	-	-	-	-
1v	TTK4170	MOD/IDENT BIOL SYS					4	4	4	7,5	x	-	-	-	v	-
1v	TTT4135	MULTIMEDIA SIGN PROC					3	3	6	7,5	x	o	-	-	-	-
1v	TTT4160	MOB COMMUNICATIONS					3	2	7	7,5	x	v	-	-	-	-

cont.

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Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam	Specialization				
				F	Ø	S	F	Ø	S			1	2	3	4	5*
2h	BI3016	MOLECULAR CELL BIOL		2	2	8				7,5	x	-	-	-	-	o
2h	IT3706	KNOWLEDGE REPR MOD		2	4	6				7,5	x	-	o	-	-	-
2h	TDT4287	ALGORITHMS BIOINFO		2	3	7				7,5	x	-	-	o	-	-
2h	TTK4160	MEDICAL IMAGING		4	4	4				7,5	x	o	-	-	o	-
Specialization courses																
2h	TBT4505	BIOTECHNOLOGY SC		4	4	4				7,5	x	-	-	-	-	o
2h	TDT4535	BIOINFORMATICS SC		2		10				7,5	x	-	-	o	-	-
2h	TDT4545	HEALTHCARE INFO SC		2		10				7,5	x	-	o	-	-	-
2h	TFY4505	BIOPHYSICS SC				12				7,5	x	-	-	-	o	-
2h	TTK4505	MED CYBERNETICS SC	3			12				7,5	x	v	-	-	-	-
2h	TTT4525	SIGNAL PROC SC	3			12				7,5	x	v	-	-	-	-
Specialization projects																
2h	TBT4500	BIOTECHNOLOGY SP			10	14				15,0	-	-	-	-	-	o
2h	TDT4530	BIOINFORMATICS SP				24				15,0	-	-	-	o	-	-
2h	TDT4540	HEALTHCARE INFO SP				24				15,0	-	-	o	-	-	-
2h	TFY4500	BIOPHYSICS SP				24				15,0	-	-	-	-	o	-
2h	TTK4500	MED CYBERNETICS SP	3			24				15,0	-	v	-	-	-	-
2h	TTT4520	SIGNAL PROC SP	3			24				15,0	-	v	-	-	-	-
Master Thesis																
2v	TBT4900	BIOTECHNOLOGY								30,0		-	-	-	-	o
2v	TDT4900	COMP INFORM SCIENCE								30,0		-	o	o	-	-
2v	TFE4900	SIGN PROC COMMUN	4							30,0		v	-	-	-	-
2v	TFY4900	PHYSICS								30,0		-	-	-	o	-
2v	TTK4900	ENGINEERING CYBERN	4							30,0		v	-	-	-	-

* Follows the Examination regulations for the Natural Sciences studies.

o = compulsory subjects

v - optional subjects

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) Lectures are held in Norwegian, but PBL exercises and presentations are given in English.
- 3) Students at specialization Medical Signal Processing and Imaging should choose one of the combinations TTK4500/TTK4505 and TTT4520/TTT4525.
- 4) Students at specialization Medical Signal Processing and Imaging should choose either TFE4900 or TTK4900.