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Internal code	Course title	Credits	Semester
AK3000	Radio-Immunological Measuring Techniques (RIA)	7,5	Autumn
AK3001	Food Organisms in Marine Fry Production	7,5	Autumn
AK3005	Early Life History of Fish	7,5	Spring
AK8000	Marine Fry Technology	7,5	Autumn
ARK3005	Foundation Course in Archaeology	22,5	Spring
ARK3010	Maritime Culture I	15	Autumn
ARK3015	Maritime Culture II	7,5	Spring
ARK3020	Maritime Archaeological Field Research I	7,5	Autumn
ARK3025	Maritime Archaeological Field Research II	7,5	Spring
ARK3030	Archaeological Oceanography	7,5	Spring
ARK3040	Management of Maritime Heritage	7,5	Autumn
ARK3050	Maritime Archaeological Science	7,5	Autumn
BA8200	Advanced Theory of Errors and Adjustment	10,5	Spring
BA8202	Advanced Physical Geodesy	10,5	Autumn
BA8203	An Integrated Earth System Approach to the Study of Ocean Climate	10,5	Autumn
BA8301	Marine Geotechnical Engineering	10,5	Autumn
BA8304	Soil Modeling	10	Autumn
BA8305	Geodynamics	10	Autumn
BA8402	Ice Mechanics	10,5	Autumn
BA8506	Rock Drilling	10	Spring
BA8508	Drill and Blast Tunnelling	10	Autumn
BA8510	Head Loss Analyses in Hydro Power Tunnels. Hydraulics, Rock Blasting	10	Autumn
BA8600	Pavement Design	10,5	Autumn
BA8604	Satellite Gravimetry and Altimetry	10,5	Spring
BA8605	Advanced Global Positioning System (GPS)	10,5	Spring
BA8607	Wind Turbine Design	11,5	Autumn
BARN3101	Social Studies of Children and Childhood: Research Perspectives	7,5	Autumn
BARN3102	Children's Rights	7,5	Autumn
BARN3200	Methodology in Child and Childhood Research	15	Spring
BARN3300	Children and Development in the South	7,5	Spring
BARN3400	Preparatory Course, Master's Thesis	7,5	Spring
BARN3500	Historical Perspectives on Childhood	7,5	Autumn
BARN3900	Master's Thesis	60	Autumn
BARN8101	Social Studies of Children and Childhood: Research Perspectives	10	Autumn
BARN8102	Children's Rights	10	Autumn
BARN8200	Methodology in Child and Childhood Research	10	Spring
BARN8300	Children and Development in the South	10	Spring
BARN8500	Historical Perspectives on Childhood	10	Autumn
BEV1002	Work Physiology	7,5	Autumn

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BEV3001	Human Movement Science - Theory	15	Autumn
BEV3002	Human Movement Science - Methods	15	Autumn
BI2040	Evolutionary Biology	7,5	Autumn
BI2050	Biological Resources	7,5	Spring
BI3001	Biosystematics and phylogenetic analysis	7,5	Spring
BI3003	Faunistics II	7,5	Autumn
BI3004	Behaviour and Conservation Biology	7,5	Autumn
BI3010	Population Genetics	7,5	Autumn
BI3013	Experimental Cell Biology	7,5	Autumn
BI3015	Population Genetics Laboratory Course	7,5	Autumn
BI3016	Molecular Cell Biology	7,5	Autumn
BI3017	Bio Visualisation	7,5	Spring
BI3018	Patenting and Commercialization of Biotech and Medtech Inventions	7,5	Autumn
BI3028	Landscape Ecology I	7,5	Spring
BI3031	Interactions and Nutrient Cycling in Aquatic Environment	7,5	Spring
BI3032	Population dynamics	7,5	Spring
BI3034	Dynamic Biogeography	7,5	Spring
BI3050	Experimental Design and Statistics with Biological Examples	7,5	Spring
BI3060	Experimental Marine Ecological Methods	7,5	Spring
BI3061	Biological Oceanography	7,5	Autumn
BI3062	Science Seminars, Marine	7,5	Autumn
BI3071	Pollution Ecology	7,5	Autumn
BI3072	Environmental Toxicology	7,5	Autumn
BI3073	Genetic Toxicology	7,5	Spring
BI3074	Environmental Toxicology - Complex Mixtures	7,5	Spring
BI3075	Experimental Toxicology	7,5	Spring
BI3076	Behavioural Toxicology	7,5	Autumn
BI3077	Genome Eotoxicology	7,5	Autumn
BI3080	Biodiversity	7,5	Spring
BI3081	Scientific Seminars	7,5	Autumn
BI3900	Master Thesis in Biology	60	Autumn
BI3950	Master Thesis in Biology	30	Spring
BI8002	Advanced Biosystematics	7,5	Spring
BI8004	Evolutionary Biology	7,5	Spring
BI8020	Insect-Plant Interaction	9	Autumn
BI8060	Bio Optical Properties and Pigmentation in Plants, Algeas and Marine	7,5	Autumn
BI8071	Biomarkers	7,5	Autumn
BI8081	Advanced Conservation Biology	7,5	Autumn
BI8091	Advanced Biology	7,5	Autumn

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BI8092	Theory of Science in Biology	7,5	Spring
BO3020	Experimental Plant Physiology	7,5	Autumn
BO3022	Advanced Plant Physiology	7,5	Autumn
BO3032	Plant Ecology II	7,5	Autumn
BO8020	Regulation of Growth and Development in Plants	12	Autumn
BO8021	Regulation of Growth and Development in Plants	9	Autumn
BO8031	Plant Ecology III	7,5	Spring
BT8104	NMR Biomolecular Spectroscopy	9	Spring
CBIO3900	Master Thesis in Cellbiology for Medical/Technical Personel	60	Autumn
DANS2011	Advanced Ethnochoreology	7,5	Autumn
DANS3003	Dance Analysis	15	Autumn
DT8107	Advanced Cooperation Systems	7,5	Autumn
DT8113	Simulation	7,5	Autumn
DT8114	PhD Seminar in Computer and Information Science	7,5	Autumn
ENG1001	Global English	7,5	Autumn
ENG1101	English Linguistics	7,5	Spring
ENG1201	Proficiency	7,5	Spring
ENG1302	Literature: Drama and Poetry	7,5	Autumn
ENG1303	Literature: Prose Fiction	7,5	Spring
ENG1401	Civilization	15	Spring
ENG2153	First and Second Language Acquisition	7,5	Spring
ENG2155	Theoretical and Practical Issues of English Grammar and Translation	7,5	Spring
ENG2302	Literature II: Literature and History	7,5	Autumn
ENG2303	Literature III: Literature and Nation	7,5	Spring
ENG2403	Debates in British Society	7,5	Spring
ENG2452	Britain in Europe: Politics and Government	7,5	Autumn
ENG2501	Interdiciplinary Course	7,5	Spring
ENG3122	Cognitive and Theoretical Aspects of Language	15	Spring
ENG3123	Translation	7,5	Spring
ENG3314	Special Subject: Literature	15	Autumn
ENG3422	Special Study: Civilization	15	Autumn
ENG3900	Master's Thesis in English	60	Autumn
ENG3910	Master's Thesis in English Language and Linguistics	60	Autumn
EP8103	Thermal Power Cycles and Cogeneration	7,5	Autumn
EP8106	Gas Turbins and Compressors	7,5	Spring
EP8108	Environmental Systems Analysis	7,5	Spring
EP8116	Value Chain Analysis	7,5	Autumn
EP8117	Sustainable Production	7,5	Spring
EP8118	Heat and Mass Transfer in Porous Media	5	Autumn

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EP8205	Continuous and Discrete Optimization in Process Synthesis and Integration	7,5	Spring
EP8207	Advanced Dewatering and Drying Engineering	7,5	Autumn
EP8301	Modelling Energy and Indoor Environmental Systems	7,5	Spring
ET8100	Electric Conductivity, Dielectric Losses and Breakdown of Solid and Liquid	7,5	Autumn
ET8201	Voltage Instability in Power Systems	7,5	Spring
ET8202	Power System Stability and Control	7,5	Spring
ET8204	Power Market Theory	7,5	Autumn
ET8300	Digital Signal Processing in Power Electronic Systems	7,5	Spring
ET8301	Magnetic Design of Permanent Magnet Machines	7,5	Autumn
ET8303	Power Electronics, Power Semiconductor Physics and Reliability	7,5	Autumn
ET8400	Lighting Design	10	Spring
EUR3401	European Cultural History: Theories and Methods	7,5	Autumn
EUR3402	New Approaches to Understanding the European Union and its History	7,5	Autumn
FE8109	Design and Utilization of Memory Hierarchies in Multi-Media Applications	7,5	Spring
FE8117	Photonics, Selected Topics	7,5	Autumn
FE8122	PhD Seminar in Circuits and Systems Design	7,5	Autumn
FE8123	PhD Seminar in Nanoelectronics and Microsystems	7,5	Autumn
FI5201	Multicultural Conflicts and Ethics	15	Autumn
FI5202	Master Thesis in Applied Ethics	30	Autumn
FI5204	Reading Course in Applied Ethics	15	Spring
FI5205	Corportate Responsibility and Ethics	7,5	Autumn
FI5206	Technology for a Good Society	7,5	Autumn
FON1101	Introduction to Phonetics	15	Autumn
FON1109	Research Methods I	15	Spring
FON1122	Experimental Phonetics I	15	Autumn
FON1125	Acoustic Phonetics	15	Spring
FON2202	Experimental Phonetics II	7,5	Spring
FON2204	Physiological Phonetics	15	Autumn
FON2205	Transcription	7,5	Autumn
FON3301	Segmentation and Articulatory Interpretation of Speech Signals	15	Autumn
FON3302	Current Topics in Phonetics	15	Autumn
FON3303	Perceptual Phonetics	15	Spring
FON3309	Theory and Methodology: Research Methods II	7,5	Autumn
FORUBI3900	Master Thesis in Environmental Toxicology and Chemistry	60	Autumn
FP4350	Planning theory and planning process skills	7,5	Autumn
FY2302	Biophysics I	7,5	Autumn
FY2450	Astrophysics	7,5	Spring
FY3006	Sensors and Transducers	7,5	Autumn
FY3114	Functional Materials	7,5	Autumn

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FY3402	Subatomic Physics	7,5	Spring
FY3403	Particle Physics	7,5	Autumn
FY3450	Astroparticle physics	7,5	Autumn
FY3464	Quantum Field Theory I	7,5	Spring
FY3466	Quantum Field Theory II	7,5	Spring
FY3490	Physics, Special Syllabus	7,5	Autumn
FY8102	Electron Microscopy and Diffraction	7,5	Autumn
FY8104	Application of Symmetry Groups in Physics	7,5	Autumn
FY8105	Superconductivity: Physics and Technology	7,5	Spring
FY8204	Nanoparticle and Polymer Physics 2	7,5	Spring
FY8401	Interactions of Ionizing Radiation with Matter	15	Spring
FY8402	Dosimetry of Ionizing Radation	12	Spring
FY8404	Radiation Therapy Physics	3,8	Autumn
FY8405	Magnetic Resonance Imaging (MRI)	3,8	Autumn
GB8201	Structural Geology and Tectonics, Advanced Course	7,5	Spring
GB8303	Stablity of Rock Slopes	7,5	Autumn
GB8306	Numerical Modelling for Rock Engineering	7,5	Spring
GB8402	Process Mineralogy	7,5	Autumn
GB8503	Dispersion Patterns of Heavy Metals in Soil and Water	7,5	Spring
GEOG3050	Theories of Social Change	15	Autumn
GEOG3052	Research Methodology	15	Spring
GEOG3505	Landscape and Planning	15	Autumn
GEOG3506	Geography, Health and Development	7,5	Autumn
GEOG3510	Geographical Information Systems	15	Autumn
GEOG3511	Remote Sensing	15	Autumn
GEOG3515	Environment, Development and Changing Rural Livelihoods	7,5	Autumn
GEOG3516	Humanitarianism: Theory and Practice	7,5	Autumn
GEOG3518	Knowledge Management in a Global Economy	7,5	Autumn
GEOG3561	Gender and Social Change	7,5	Autumn
GEOG3920	Master Thesis in Development Studies, specialising in Geography	45	Autumn
GEOG8515	Environment, Development and Changing Rural Livelihoods II	10	Autumn
GEOG8516	GEOG8516- Humanitarianism- Theory and Practice II	10	Autumn
GEOG8518	Knowledge Management in a Global Economy II	10	Autumn
GEOG8561	Gender and Social Change II	10	Autumn
HIST3295	International Economic Contemporary History	7,5	Autumn
HLS3558	Superviced Independent Study	7,5	Autumn
IDR3028	Institutions, Social Fields and Practices 1	7,5	Autumn
IDR3029	Institutions, Social Fields and Practices 2	15	Autumn
ISK2230	Project Work in Informatics, Language and Culture	15	Spring

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IT2801	Information Retrieval	7,5	Autumn
IT3805	Knowledge Management	7,5	Autumn
IT8005	Hypermedia Structures and Systems	7,5	Spring
IØ8100	Innovation and Entrepreneurship	10	Autumn
IØ8200	Organizational Theory, Technology and Change	20	Autumn
IØ8202	Business Research Methods	10	Spring
IØ8203	Measurement and Data Analysis in the Behavioral Sciences	10	Autumn
IØ8204	Consulting and Research by Using SPGR/SYMLOG	10	Autumn
IØ8300	Mathematical Finance	10	Autumn
IØ8302	Game Theory	10	Spring
IØ8303	Energy Markets	10	Autumn
IØ8401	Stochastic Optimization	10	Autumn
IØ8402	Optimization in Maritime Transportation	10	Autumn
IØ8501	Methods in SHE Research	10	Spring
IØ8502	The Understanding and Management of Risk and Vulnerability Problems in	10	Autumn
IØ8503	Industrial Ecology - Theoretical and Methodological Approach to	10	Spring
KBIO3900	Master Thesis in Qvantitative Biology	60	Autumn
KJ3055	Analytical Atomic Spectrometry	7,5	Spring
KJ8056	Chemical and Sensors and Biosensors	7,5	Autumn
KJ8100	Organic Medicinal and Pharamaceutical Chemistry	7,5	Spring
KJ8208	Advanced Irreversible Thermodynamics	7,5	Spring
KP8100	Advanced Process Simulation	7,5	Autumn
KP8107	Advanced Course in Membrane Separation Processes/Liquid Processes	9	Spring
KP8108	Advanced Thermodynamics : With applications to Phase and Reaction	9	Autumn
KP8110	Membrane Gas Purification, advanced course	9	Spring
KP8112	Applied Heterogeneous Catalysis	6	Autumn
KP8113	Characterization of Heterogeneous Catalysts	6	Autumn
KP8118	Advanced Reactor Modelling	12	Spring
KP8120	Colloid Chemistry and Functional Materials	9	Spring
KP8125	Design and preparation of catalytic materials	6	Spring
KP8126	Applied process chemometrics	7,5	Spring
KULT3320	Globalization	7,5	Autumn
KULT3390	Master Thesis in Interdisciplinary Studies of Culture	52,5	Autumn
LING1100	Diachronic Linguistics	7,5	Autumn
LING1101	Syntax I	7,5	Autumn
LING1102	Phonology I	7,5	Autumn
LING1103	Semantics I	7,5	Spring
LING1104	Pragmatics I	7,5	Spring
LING2201	Syntax II	7,5	Spring

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LING2202	Phonology II	7,5	Spring
LING2203	Semantics II	7,5	Autumn
LING2204	Pragmatics II	7,5	Autumn
LING2206	Computational Linguistics I	7,5	Autumn
LING2207	Grammar Engineering I	7,5	Spring
LING2216	Computational Linguistics II	7,5	Autumn
LING2217	Grammar Engineering II	7,5	Spring
LING2221	Intonation	15	Autumn
LING2222	Language Typology	15	Autumn
LING3001	Syntax and Semantics	15	Autumn
LING3003	Pragmatics III	15	Spring
LING3004	Computational Linguistics III	15	Spring
LING3005	Grammar Engineering III	15	Autumn
LING3006	Phonology III	15	Autumn
MA2104	Differential Equations and Complex Function Theory	7,5	Autumn
MA3201	Rings and Modules	7,5	Autumn
MA3202	Galois Theory	7,5	Spring
MA3203	Ring Theory	7,5	Spring
MA3204	Homological Algebra	7,5	Autumn
MA3402	Analysis on Manifolds	7,5	Autumn
MA3403	Algebraic Topology I	7,5	Autumn
MA3405	Algebraic Topologi II	7,5	Spring
MAR3900	Master Thesis in Natural Resource Management	60	Autumn
MD4040	Fourth Comprehensive Medical Exam	60	Autumn
MEDT8008	Clinical MR Spectroscopy	5	Spring
MM8100	Advanced Product Simulation Based on the Finite Element Method	7,5	Spring
MM8101	Design Methodology	7,5	Spring
MM8200	Aluminium Technology: Extrusion and Forming	7,5	Autumn
MM8301	Composite Processing	7,5	Spring
MM8302	Nanocomposites/process, Properties and Applications	7,5	Autumn
MM8403	Fatigue Design	7,5	Spring
MM8405	Advanced Tribology	7,5	Autumn
MOL3000	Introduction to Molecular Medicine	7,5	Autumn
MOL3012	Automation / Instrumentation	7,5	Autumn
MOL3013	Molecular Physiology - Basic Course	7,5	Spring
MOL3901	Thesis in Molecular Medicine	60	Autumn
MOL8001	Molecular Physiology: Mechanisms and Methods	4,5	Autumn
MOL8006	Receptor Signalling and Trafficing	10	Autumn
MR8202	Fracture Mechanics Design of Welded Structures	7,5	Autumn

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MR8403	Maintenance Management 2	7,5	Spring
MT8103	Semiconductor Electrochemistry	10	Autumn
MT8104	Electrolysis of Light Metals 1	7,5	Autumn
MT8201	Advanced Electrometallurgy	7,5	Spring
MT8208	Fatique of Metals	7,5	Autumn
MT8213	Modelling and Simulation of Materials Microstructure and Properties	7,5	Autumn
MT8301	Carbon Materials Technology	7,5	Autumn
MT8306	Advanced Ceramics Processing	7,5	Spring
NATRBI3900	Master Thesis in Natural Resources Management - Biology	60	Autumn
NEVR3001	Basic Neuroscience	7,5	Spring
NEVR3002	Sensory Neuroscience	7,5	Spring
NEVR3003	Behavioural and cognitive neuroscience	7,5	Autumn
NEVR3004	Neural networks	7,5	Autumn
NEVR3040	Private Study of Neuroscience I	7,5	Autumn
NEVR3050	Private Study of Neuroscience II	15	Autumn
NEVR8001	Brain Metabolism Studied by 13C Nuclear Magnet Resonance	7,5	Autumn
NEVR8004	Cell Culture Methods in Neurotoxicology	7,5	Autumn
NEVR8007	Neuroscience Literature Study for PhD Students I	7,5	Autumn
NEVR8008	Neuroscience Literature Study for PhD Students II	15	Autumn
NEVR8009	Cellular and Molecular Neuroscience	10	Spring
NEVR8010	Physiological Psychology and Cognitive Neuroscience	10	Spring
PD8301	Ecological Design	7,5	Autumn
PED3520	Democracy and Education: Perspectives in Educational Sociology	7,5	Spring
PG8105	Seismic Modelling and Inversion	12,5	Autumn
PG8202	Interpretation of Combined Geophysics. Application of Gravimetry and	7,5	Autumn
PG8301	Selected Topics in Petrophysics	7,5	Autumn
PG8401	Well Mechanics and Completion	7,5	Spring
PG8403	Modeling and Simulation of Production Processes	7,5	Spring
PG8500	Experience Transfer in Drilling Engineering	7,5	Autumn
PG8600	Development of Numerical Reservoir Models	7,5	Spring
PG8601	Specialized Reservoir Simulation Models	7,5	Autumn
PG8603	Advanced Phase Behavior for Petroleum Reservoir Fluids	7,5	Spring
PG8604	Enhanced Oil Recovery	7,5	Autumn
PG8605	Dual Porosity Reservoirs	7,5	Spring
PG8606	Gas Engineering- Reservoir and Production	7,5	Spring
PG8607	Numerical Methods in Reservoir Simulation	7,5	Autumn
PK8103	Advanced Computational Intelligence	7,5	Autumn
PK8104	Production Engineering Nonlinear Optimisation	7,5	Spring
PK8105	Time-Compression Manufacturing Technologies	7,5	Spring

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PK8106	Knowledge Discovery (KD) and Data Mining (DM)	7,5	Spring
PK8107	Systems Modelling	7,5	Autumn
PK8200	Risk Influence Modelling and Risk Indicators	7,5	Autumn
PK8201	Reliability of Safety-Critical Functions	7,5	Spring
PK8202	Analysis, Modelling and Design in Logistics Systems	7,5	Spring
PK8203	Performance Measurement and Performance Indicators	7,5	Autumn
PK8206	Control and ICT in Industrial Supply Chains	7,5	Autumn
PK8207	Maintenance Optimisation	7,5	Autumn
PLU8000	Introduction to International Higher Education	10	Autumn
POL1006	Japan's Culture and Political-Economical System	7,5	Autumn
POL1007	Current Issues in Norwegian and International Politics	7,5	Autumn
POL1008	East-Asia: International Politics	7,5	Spring
POL2004	Comparative Politics: Project Work	15	Spring
POL2008	Political Economy: Project Work	15	Spring
POL2009	America in the World: Project Work	15	Spring
POL2011	East-Asia: International Politics – Project Work	15	Spring
POL3001	Theories of Democracy	15	Autumn
POL3004	Historical and Comparative Methods	7,5	Spring
POL3503	International Political Economy	15	Autumn
POL3510	East European Systems since 1740	15	Autumn
POL3511	The Catholic and Protestant Churches in World Politics	15	Autumn
POL3512	The Soviet Union and Russia since 1917	15	Autumn
POL8503	International Political Economy	10	Spring
POL8510	East European Systems since 1740	10	Autumn
POL8511	The Catholic and Protestant Churches in World Politics	10	Autumn
POL8512	The Soviet Union and Russia since 1917	10	Autumn
PSY3080	Biological and Cognitive Aspects of Development	15	Autumn
PSY3081	Research Methodology, Theories of Sciences and Ethics	15	Spring
PSY3082	Relational and Cultural Aspects of Development	15	Autumn
PSY3083	Specialization in Biological and Cognitive Aspects of Development	7,5	Spring
PSY3084	Individually Selected Text	15	Autumn
PSY3085	Specialization in Relationel and Cultural Aspects of Development	7,5	Spring
PSY3522	Specialisation in Social Psychology	15	Spring
PSY3533	Groups, decision making and risk communication	15	Autumn
PSY3904	Master's Thesis in Human Development	45	Autumn
RFEL3070	Scientific Seminars in Pollution	7,5	Autumn
RFEL3091	Didactics in Science	7,5	Autumn
SANT8001	Method	10	Spring
SANT8002	Theory	10	Spring

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Internal code	Course title	Credits	Semester
SMED8004	Introduction to Research	5	Spring
SMED8005	Communication of Science	3	Spring
SOS2501	Norwegian Society	15	Autumn
SOS3003	Applied Social Statistics	15	Autumn
SOS3050	Empirical Research Methods	7,5	Spring
SOS3503	Culture and Media Sociology	15	Autumn
SOS3510	Contemporary Population Studies	15	Autumn
SPO3020	Training Circulation and Oxygen Consumption	7,5	Autumn
SPO3030	Training Muscle and Force Production	7,5	Autumn
SPO3040	Environmental Adaptions	7,5	Autumn
SPO3055	Research Methods in Exercise Physiology	7,5	Spring
SPO3060	Specialisation in Exercise Physiology	15	Spring
SPO3070	Research Apprenticeship in Exercise Physiology	15	Autumn
SPO3901	Thesis in Exercise Physiology	45	Autumn
SPRÅK1501	Academic Writing	7,5	Autumn
SPRÅK8860	Qualitative and Quantitative Methods	7,5	Autumn
SPRÅK8872	Language Theory	7,5	Autumn
ST2201	Mathematical Statistics	15	Spring
SØK2003	International Economics	15	Spring
TBA4115	Finite Elements in Geotechnical Engineering	7,5	Spring
TBA4145	Port and Coastal Facilities	7,5	Spring
TBA4265	Marine Physical Environment	7,5	Autumn
TBA4270	Coastal Engineering	7,5	Spring
TBA4275	Dynamic Response to Irregular Loadings	7,5	Spring
TBA4305	Freight Transport Systems	7,5	Autumn
TBA4325	Spreading of Pollution	7,5	Autumn
TBA4510	Geotechnical Engineering, Specialization Project	7,5	Autumn
TBA4515	Geotechnical Engineering, Specialization Course	7,5	Autumn
TBA4545	Highway and Transport Engineering, Specialization Course	7,5	Autumn
TBA4555	Marine Civil Engineering, Specialization Course	7,5	Autumn
TBA5100	Theoretical Soil Mechanics	7,5	Autumn
TBA5150	Geohazards and Risk Analysis	7,5	Autumn
TBA5155	Landslides and Slope Stability	7,5	Spring
TBA5200	Project Management 2 - Front End Planning and Control	7,5	Autumn
TBI4110	Ecotoxicology and Environmental Resources	7,5	Spring
TDT4195	Image Techniques	7,5	Spring
TDT4240	Software Architecture	7,5	Spring
TDT4280	Distributed Artificial Intelligence and Intelligent Agents	7,5	Spring
TDT4290	Customer Driven Project	15	Autumn

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Internal code	Course title	Credits	Semester
TDT4500	Intelligent Systems, Specialization Project	15	Autumn
TDT4505	Intelligent Systems, Specialization Course	7,5	Autumn
TDT4510	Data and Information Management, Specialization Project	15	Autumn
TDT4515	Data and Information Management, Specialization Course	7,5	Autumn
TDT4520	Program and Information Systems, Specialization Project	15	Autumn
TDT4525	Program and Information Systems, Specialization Course	7,5	Autumn
TDT4530	Bio-Informatics, Specialization Project	15	Autumn
TDT4535	Bio-Informatics, Specialization Course	7,5	Autumn
TDT4540	Healthcare Informatics, Specialization Project	15	Autumn
TDT4545	Healtcare Informatics, Specialization Course	7,5	Autumn
TDT4550	ICT and Learning, Specialization Project	15	Autumn
TDT4555	ICT and Learning, Specialization Course	7,5	Autumn
TDT4560	Safety and Security in IT Systems, Specialization Project	15	Autumn
TDT4565	Safety and Security in IT Systems, Specialization Course	7,5	Autumn
TDT4570	Game Tchnology, Specialization Project	15	Autumn
TDT4575	Game Technology, Specialization Course	7,5	Autumn
TDT4580	ICT in Public Administration, Specialization Project	15	Autumn
TDT4585	ICT in Public Administration, Specialization Course	7,5	Autumn
TDT4590	Complex Computer Systems, Specialization Project	15	Autumn
TDT4595	Complex Computer Systems, Specialization Course	7,5	Autumn
TEP4205	Industrial Fluid Power	7,5	Spring
TEP4212	Environmental and Cleaning Technologies	7,5	Autumn
TEP4220	Energy and Environmental Consequences	7,5	Autumn
TEP4222	Input-Output Analysis, Trade and Environment	7,5	Spring
TEP4223	LCA and Eco-Efficiency	7,5	Autumn
TEP5100	Industrial Ecology, Project	15	Autumn
TET4115	Power System Analysis	7,5	Autumn
TET4120	Electrical Motor Drives	7,5	Spring
TET4135	Planning and Operation of Energy Systems	7,5	Spring
TET4160	Insulating Materials for High Voltage Applications	7,5	Autumn
TET4180	Electric Power System Stability	7,5	Spring
TET4185	Power Markets, Resources and Environment	7,5	Spring
TET4190	Power Electronics for Renewable Energy	7,5	Autumn
TET4195	High Voltage Equipment	7,5	Spring
TET4200	Maritime and Offshore Power Systems	7,5	Spring
TET4515	Energy Systems Planning, Specialization Course	7,5	Autumn
TET4525	Electric Power Technology, Specialization Course	7,5	Autumn
TET5100	Power Engineering Updates	7,5	Autumn
TET5505	Electric Power Engineering, Specialization Course	7,5	Autumn

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Internal code	Course title	Credits	Semester
TFE4175	Realization and Test of Digital Components	7,5	Autumn
TFE4525	Design of Digital Systems, Specialization Course	7,5	Autumn
TFY4190	Instrumentation	7,5	Spring
TFY4200	Optics, Advanced Course	7,5	Spring
TFY4275	Classical Transport Theory	7,5	Spring
TFY4292	Quantum Optics	7,5	Autumn
TFY4305	Nonlinear Dynamics	7,5	Autumn
TFY4335	Nano Life Science	7,5	Spring
TFY4500	Biophysics, Specialization Project	15	Autumn
TGB4120	The Geology of Mineral Deposits, Advanced Course	7,5	Spring
TGB4140	Regional Geology	7,5	Autumn
TGB4145	Analytical Methods in Geology	7,5	Spring
TGB4160	Petroleum Geology	7,5	Autumn
TGB4175	Resource Geological Principles	7,5	Autumn
TGB4180	Hydrocarbon-Resource Evaluation	7,5	Spring
TGB4190	Engineering Geology of Rocks, Advanced Course	7,5	Spring
TGB4195	Engineering Geology, Planning and Specifications	7,5	Autumn
TGB4200	Engineering Geology of Soils, Advanced Course	7,5	Spring
TGB4215	Geographic Information Systems for Mineral Resource Management , Basic	7,5	Autumn
TGB4230	Processing of Secondary Raw Materials	7,5	Autumn
TGB4240	Mineral Raw Materials	7,5	Autumn
TGB4245	Mining Engineering	7,5	Autumn
TGB4250	Aggregate Production	7,5	Spring
TGB4255	Geographic Information Systems for Mineral Resource Management ,	7,5	Autumn
TGB4260	Numerical Analysis for Rock Engineering	7,5	Autumn
TGB5100	Rock Engineering, Advanced Course	7,5	Autumn
TGB5110	Geology and Tunnelling, Basic Course	7,5	Spring
TIØ4125	Investments and Decisions under Uncertainty	7,5	Spring
TIØ4135	ICT Economics - Planning and Economics of Tele and Information Services	7,5	Autumn
TIØ4145	Corporate Finance	7,5	Autumn
TIØ4150	Industrial Optimization and Decision Support	7,5	Spring
TIØ4180	Innovation and Information Management	7,5	Autumn
TIØ4195	Environmental Management and Corporate Social Responsibility	7,5	Autumn
TIØ4270	Human Resource Management	7,5	Spring
TIØ4280	Change and ICT in Complex Systems	7,5	Spring
TIØ4285	Production- and Network Economics	7,5	Spring
TIØ4340	Corporate Finance and Energy Markets	7,5	Autumn
TIØ4345	Management of Business Relationships and Networks	7,5	Spring
TIØ4510	Industrial/Organizational Psychology and Law, Specialization Project	15	Autumn

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Internal code	Course title	Credits	Semester
TIØ4515	Industrial/Organizational Psychology and Law, Specialization Course	7,5	Autumn
TIØ4550	Financial Engineering, Specialization Project	15	Autumn
TIØ4555	Financial Engineering, Specialization Course	7,5	Autumn
TIØ5200	Project Management 3 - Project Organizations	7,5	Autumn
TIØ5210	Project Management 5 - Programme and Portfolio Management	7,5	Spring
TIØ5215	Project Management 6 - SHE and Purchasing in Projects	7,5	Spring
TIØ5225	Project Management, Specialization Course	7,5	Autumn
TIØ5230	Project Management, Specialization Project	15	Autumn
TK8101	Optimal Control of Dynamics Systems	7,5	Spring
TK8102	Nonlinear Observer Design	7,5	Spring
TK8105	Ultrasound imaging in Heterogeneous, Non-Linear Tissue	7,5	Autumn
TK8106	Distributed Real Time Operating Systems	7,5	Autumn
TK8108	Topics in Fisheries and Aquaculture Cybernetics for PhD students	7,5	Spring
TK8109	Advance Guidance and Control	7,5	Spring
TKJ4200	Irreversible Thermodynamics	7,5	Autumn
TKP4115	Surface and Colloid Chemistry	7,5	Spring
TKP4140	Process Control	7,5	Spring
TKP4510	Catalysis and Petrochemistry, Specialization Project	15	Autumn
TKP4511	Catalysis and Petrochemistry, Specialization Project	7,5	Autumn
TKP4515	Catalysis and Petrochemistry, Specialization Course	7,5	Autumn
TKP4520	Colloid and Polymer Chemistry, Specialization Project	15	Autumn
TKP4521	Colloid and Polymer Chemistry, Specialization Project	7,5	Autumn
TKP4525	Colloid and Polymer Chemistry, Specialization Course	7,5	Autumn
TKP4530	Reactor Technology, Specialization Project	15	Autumn
TKP4531	Reactor Technology, Specialization Project	7,5	Autumn
TKP4535	Reactor Technology, Specialization Course	7,5	Autumn
TKP4540	Separation and Environmental Technology, Specialization Project	15	Autumn
TKP4541	Separation and Environmental Technology, Specialization Project	7,5	Autumn
TKP4545	Separation and Environmental Technology, Specialization Course	7,5	Autumn
TKP4550	Process Systems Engineering, Specialization Project	15	Autumn
TKP4551	Process Systems Engineering, Specialization Project	7,5	Autumn
TKP4555	Process Systems Engineering, Specialization Course	7,5	Autumn
TKP4560	Paper and Fiber Technology, Specialization Project	15	Autumn
TKP4561	Paper and Fiber Technology, Specialization Project	7,5	Autumn
TKP4565	Paper and Fiber Technology, Specialization Course	7,5	Autumn
TKT4201	Structural Dynamics	7,5	Spring
TKT4500	Structural Engineering, Specialization Project	7,5	Autumn
TKT4510	Applied Mechanics, Specialization Project	15	Autumn
TM8101	Dependability Analysis of Information and Communication Systems	7,5	Spring

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TM8102	Traffic Analysis of Communication Networks	7,5	Spring
TM8103	Formal Methods	7,5	Spring
TM8104	ICT-Security Evaluation	7,5	Autumn
TM8105	Advanced Dicrete Event Simulation Methodology	7,5	Autumn
TM8106	Optical Networking	7,5	Spring
TM8109	Advance network topics in ad hoc networks	7,5	Autumn
TMA4175	Complex Analysis	7,5	Spring
TMA4190	Manifolds	7,5	Spring
TMA4225	Foundation of Analysis	7,5	Autumn
TMA4230	Functional Analysis	7,5	Spring
TMM4182	Casting and Forming of Metals	7,5	Autumn
TMM4225	Configuration and Use of Collaborative Working Environments	7,5	Autumn
TMM4500	Manufacturing of Metals, Specialization Project	15	Autumn
TMM4505	Manufacture of Metals, Specialization Course	7,5	Autumn
TMM4515	Polymers and Composites, Specialization Course	7,5	Autumn
TMM4525	Product Development, Specialization Course	7,5	Autumn
TMM4535	Structural Intergrity, Specialization Course	7,5	Autumn
TMR4115	Design Methods	7,5	Autumn
TMR4125	Building of Ships and Platforms	7,5	Spring
TMR4130	Risk Analysis and Safety Management of Maritime Transport	7,5	Spring
TMR4135	Fishing Vessel and Workboat Design	7,5	Spring
TMR4175	Marine Structures, Basic Course	7,5	Autumn
TMR4180	Marine Dynamics	7,5	Spring
TMR4190	Finite Element Methods in Structural Analysis	7,5	Autumn
TMR4195	Design of Offshore Structures	7,5	Spring
TMR4200	Fatigue and Fracture of Marine Structures	7,5	Autumn
TMR4205	Buckling and Collapse of Marine Structures in Steel and Aluminium	7,5	Spring
TMR4215	Sea Loads	7,5	Autumn
TMR4217	Hydrodynamics for High-Speed Marine Vehicles	7,5	Spring
TMR4220	Naval Hydrodynamics	7,5	Spring
TMR4225	Marine Operations	7,5	Spring
TMR4230	Oceanography	7,5	Spring
TMR4235	Stochastic Theory of Sealoads	7,5	Autumn
TMR4240	Marine Control Systems	7,5	Spring
TMR4275	Modelling, Simulation and Analysis of Dynamic Systems	7,5	Autumn
TMR4280	Internal Combustion Engines	7,5	Spring
TMR4290	Diesel-Electric Propulsion Systems	7,5	Autumn
TMR4300	Experimental and Numerical Hydrodynamics	7,5	Autumn
TMR4305	Advanced Analysis of Marine Structures	7,5	Autumn

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TMR4500	Marine Structures, Specialization Project	7,5	Autumn
TMR4505	Marine Structures, Specialization Course	7,5	Autumn
TMR4510	Marine Control Systems, Specialization Project	7,5	Autumn
TMR4515	Marine Control Systems, Specialization Course	7,5	Autumn
TMR4520	Marine Hydrodynamics, Specialization Project	7,5	Autumn
TMR4525	Marine Hydrodynamics, Specialization Course	7,5	Autumn
TMR4530	Marine Machinery, Specialization Project	7,5	Autumn
TMR4535	Marine Machinery, Specialization Course	7,5	Autumn
TMR4540	Marin, Specialization Project	7,5	Autumn
TMR4545	Marin, Specialization Course	7,5	Autumn
TMR4550	Operation Technology, Specialization Project	7,5	Autumn
TMR4555	Operation Technology, Specialization Course	7,5	Autumn
TMR4560	Marine Systems Design, Specialization Project	7,5	Autumn
TMR4565	Marin Systems Design, Specialization Course	7,5	Autumn
TMR5100	Marine Design and Marine Engineering, Basic Course	7,5	
TMR5110	Marine Design, Project	7,5	Spring
TMR5120	Design of Marine Vehicles	7,5	Autumn
TMR5130	Marine Design, Specialization Course	7,5	Autumn
TMR5140	Marine Structures, Basic Course	7,5	
TMR5150	Marine Dynamics, Basic Course	7,5	
TMR5160	Marine Structures, Project	7,5	Spring
TMR5170	Marine Structures, Specialization Course	7,5	Autumn
TMR5180	Control Engineering and Linear System Theory	7,5	Autumn
TMR5190	Marine Hydrodynamics, Basic Course	7,5	
TMR5200	Marine Hydrodynamics, Project	7,5	Spring
TMR5210	Marine Control Systems, Spesialization Course	7,5	Autumn
TMR5220	Marine Hydrodynamics, Specialization Course	7,5	Autumn
TMR5230	Nautical Science, Basic Course	7,5	Autumn
TMR5240	Nautical Science, Advanced Course	7,5	Spring
TMR5250	Nautical Science, Project	7,5	Spring
TMR5260	Nautical Science, Spesialization Course	7,5	Autumn
TMR5270	Operation Technology, Basic Course	7,5	
TMR5280	Marine Engineering, Project	7,5	Spring
TMR5290	Technical Operations of Marine Systems, Project	7,5	Spring
TMR5300	Marine Engineering, Spesialization Course	7,5	Autumn
TMR5310	Technical Operations, Spesialization Course	7,5	Autumn
TMT4145	Ceramic Engineering	7,5	Autumn
TMT4155	Heterogeneous Equilibria and Phase Diagrams	7,5	Autumn
TMT4265	Materials Technology - Forming Light Metals	7,5	Spring

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TMT4305	Electrometallurgy	7,5	Spring
TMT4320	Nanomaterials	7,5	Autumn
TMT4325	Refining and Recycling of Metals	7,5	Autumn
TMT5100	Electrolysis of Light Metals 2	7,5	Spring
TMT5500	Process Metallurgy and Electrolysis, Specialization Project	15	Autumn
TMT5505	Process Metallurgy and Electrolysis, Specialization Course	7,5	Autumn
TPD4120	Design Project 4 - Form and Function	7,5	Spring
TPD4130	Human - Machine - Interaction	7,5	Spring
TPD4145	Ecodesign	7,5	Spring
TPD4500	Product Design 9, Specialization Project	15	Autumn
TPD4505	Product Design 9, Specialization Course	7,5	Autumn
TPD5100	Ecodesign, Advanced Course	7,5	Spring
TPG4125	Seismic Wave Propagation	7,5	Autumn
TPG4130	Seismic Interpretation	7,5	Spring
TPG4145	Reservoir Fluids and Flow	7,5	Autumn
TPG4150	Reservoir Recovery Techniques	7,5	Autumn
TPG4160	Reservoir Simulation	7,5	Spring
TPG4165	Geophysical Signal Analysis	7,5	Spring
TPG4177	Carbonate Reservoir Characterization	7,5	Autumn
TPG4230	Field Development and Operations	7,5	Spring
TPG4235	Well Testing, Advanced Course	7,5	Autumn
TPG4240	Reservoir Evaluation	7,5	Spring
TPG4505	Formation Evaluation - Engineering, Specialization Course	7,5	Autumn
TPG4515	Petroleum Production, Specialization Course	7,5	Autumn
TPG4525	Drilling Engineering, Specialization Course	7,5	Autumn
TPG4535	Reservoir Engineering, Specialization Course	7,5	Autumn
TPG4545	Petroleum Geophysics, Specialization Course	7,5	Autumn
TPG5100	Applied Mathematics and Computer Methods in Petroleum	7,5	Autumn
TPG5110	Petroleum Economics	7,5	Spring
TPG5120	Petrophysics, Basic Course	7,5	Autumn
TPG5200	Petroleum Engineering and Geoscience, Interdisciplinary Project	7,5	Autumn
TPK4110	Quality and Performance Oriented Management	7,5	Spring
TPK4150	Data-integrated Manufacturing	7,5	Autumn
TPK4155	Applied Computational Intelligence in Intelligent Manufacturing	7,5	Autumn
TPK4175	Rapid Manufacturing	7,5	Spring
TPK4500	Project Management, Specialization Project	15	Autumn
TPK4505	Project Management, Specialization Course	7,5	Autumn
TPK4515	Production and Quality Engineering, Specialization Course	7,5	Autumn
TPK5100	Project Planning and Control	7,5	Autumn

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TPK5110	Quality and Risk Management in Projects	7,5	Autumn
TPK5160	Risk Analysis	7,5	Autumn
TPK5165	RAMS Engineering and Management	7,5	Spring
TT8101	Advanced Information and Communication Theory	7,5	Spring
TT8107	Random Matrix Theory for Wireless Communications	7,5	Autumn
TT8108	PhD Seminar in Signal Processing	7,5	Autumn
TT8208	Nonelinear Microwave Components	7,5	Autumn
TT8210	Advanced Microwave Electromagnetics	7,5	Autumn
TT8211	PhD Seminar in Radio Systems	7,5	Autumn
TT8302	Room Acoustics	7,5	Autumn
TT8304	Statistical Signal Processing	9	Spring
TT8305	Marine Acoustics II	7,5	Spring
TT8306	Geoacoustical Modeling and Inversion	7,5	Spring
TT8307	Theoretical Acoustics	7,5	Autumn
TT8308	PhD Seminar in Acoustics	7,5	Autumn
TTK4130	Modelling and Simulation	7,5	Spring
TTK4150	Nonlinear Control Systems	7,5	Autumn
TTK4190	Guidance and Control	7,5	Spring
TTK4195	Modeling and Control of Robots	7,5	Spring
TTK4530	Control Engineering, Specialization Project	15	Autumn
TTK4531	Control Engineering, Specialization Project	7,5	Autumn
TTK4535	Control Engineering, Specialization Course	7,5	Autumn
TTM4128	Service and Resource Management	7,5	Spring
TTM4137	Wireless Network Security	7,5	Autumn
TTM4145	ICT in Engineering	7,5	Autumn
TTM4160	Software Design for Distributed Real-Time Systems	7,5	Autumn
TTM4515	Telematics - Networked Services and Multimedia Systems, Specialization	7,5	Autumn
TTM4530	Telematics - Information Security, Specialization Project	15	Autumn
TTM4535	Telematics - Information Security, Specialization Course	7,5	Autumn
TTT4125	Information Theory, Coding and Compression	7,5	Autumn
TTT4160	Mobile Communicatons	7,5	Spring
TTT4175	Marine Acoustics	7,5	Autumn
TTT4510	Digital Communications, Specialization Project	15	Autumn
TTT4515	Digital Communications, Specialization Course	7,5	Autumn
TTT4520	Signal Processing in Medical Applications, Specialization Project	15	Autumn
TTT4525	Signal Processing in Medical Applications, Specialization Course	7,5	Autumn
TVM4150	Solid Waste Management	7,5	Autumn
TVM4155	Numerical Models and Hydraulics	7,5	Autumn
TVM4160	Material Flow Analysis	7,5	Spring

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TVM4162	Industrial Ecology	7,5	Autumn
TVM5105	Hydrology for Hydropower, Basic Course	7,5	Autumn
TVM5115	Planning and Design of Dams, Basic Course	7,5	Autumn
TVM5125	Hydraulic Design, Basic Course	7,5	Autumn
TVM5130	Hydropower Plants, Project Work	15	Spring
TVM5135	The Planning Process of Hydropower Projects, Basic Course	7,5	Autumn
TVM5140	Environmental and Economic Assessment of Hydropower Projects, Basic	7,5	Spring
TVM5150	Hydropower Simulation Models, Advanced Course	7,5	Autumn
TVM5160	Headworks and Sedimentation Engineering, Advanced Course	7,5	Autumn
TVM5170	The Process of Social Impact Assessment, Advanced Course	7,5	Autumn
TVM5175	Industrial Ecology, Project	15	Autumn
VM8104	Topics in Hydroinformatics	7,5	Spring
VM8105	Hydrology, Advanced Course	7,5	Autumn
VM8200	Advanced Water and Wastewater Treatment	7,5	Autumn
VM8201	Sludge Treatment and Disposal	7,5	Autumn
VM8302	Waste Management and Industrial Ecology, PhD	7,5	Autumn
VM8303	Material Flow Analysis, Resources and Recycling, PhD	7,5	Spring
ZO2041	Ethology	7,5	Spring
ZO3018	Advanced Physiology	7,5	Autumn
ZO3019	Advanced Physiology II	7,5	Autumn
ZO3020	General Ecophysiology	15	Spring
ZO3031	Behavioural Ecology	7,5	Spring
ZO3032	Sexual Selection	7,5	Autumn
ZO3033	Fish Ecology	7,5	Spring
ZO8020	Neurobiology I	15	Autumn
ZO8022	Temperature Regulation	9	Autumn
ZO8023	Respiration Physiology	9	Autumn
ZO8024	Aquatic Ecophysiology	12	Autumn
ZO8025	Biological Effects of Environmental Pollutants	12	Autumn
AAR4230	Planning and Construction in Developing Countries, Advanced Course	7,5	Spring
AAR4520	Town Houses in a Unique Foreign Cultural Context - Tibet	15	Autumn
AAR4525	Urban Ecological Planning in Developing Countries. Project Work	15	Autumn
AAR4551	Transformation in Built Environment. Cultural Understanding, Conservation	15	Autumn
AAR4816	Urban Ecological Planning. Method	7,5	Autumn
AAR4820	Urban Ecological Planning. Theory	7,5	Autumn
AAR4825	Survey, Documentation and Analysis of Existing Buildings	7,5	Autumn
AAR4945	Planning and Construction in Developing Countries	7,5	Spring
AAR5200	Analysis of Field Work for MSc Thesis in Urban Ecological Planning	15	Autumn
AAR5250	Preparation for Fieldwork for Master's Students	7,5	Spring

List created: dml 15 August 2007

Overview of courses offered in English at NTNU 2007-08

- **for course descriptions and more see:** *www.intersek.ntnu.no/ECTSweb/index.htm*
- **for on-line list:** *www.ntnu.no/international/englishcourses.pdf*
- **for Social Sciences and Technology Management:**

http://www.svt.ntnu.no/adm/eng/stud/engelskkurs/default.HTM

Additional graduate courses listed in the course catalog for

International Master's Programmes. See *http://www.ntnu.no/studier/studiehandbok*

Note: additional courses may be taught in English upon request; Full course load=30 credits/semester

Internal code	Course title	Credits	Semester
AAR5260	GIS in Urban Planning	7,5	Spring
AAR5300	Urban Ecological Planning in Diverse Cultures	15	Spring
AAR5400	Master of Science Thesis in Urban Ecological Planning	30	Spring
AAR8200	Urban Ecological Planning in Diverse Cultures	7,5	Spring

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