BERGEN UNIVERSITY COLLEGE

Courses and Study programmes
in English 2013–2014

Høgskolen i Bergen
BERGEN UNIVERSITY COLLEGE

The cover photo was taken at the students' culture house Kvarteret. The illustration in the background is made by the artist Silje Heggren.

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PRACTICAL INFORMATION

The courses for exchange students presented in this catalogue, are exclusively for students from Bergen University College's partner universities. Most of our student exchange agreements are linked to a specific faculty or department. Exchange students are normally accepted only within the framework of formal agreements. Master programmes and further studies are open to students outside our partner institutions.

Academic calendar
Autumn 2013: medio August - ultimo December
Spring 2014: primo January - ultimo June

Application deadline
For autumn term exchanges: 1 April
For spring term exchanges: 1 October

How to apply:
Please download our application form:
www.hib.no/english

Please visit our website:
www.hib.no/english
for more information contact us at:
international@hib.no

About Bergen University College

With 7000 students and 750 academic and administrative staff, Bergen University College is one of the largest university colleges in Norway. Bergen University College has three faculties: the Faculty of Education, the Faculty of Engineering, and the Faculty of Health and Social Sciences. We offer undergraduate programmes and graduate programmes in addition to a range of further education programmes. Some of the study programmes, such as the Bachelor Programme in Subsea Technology and the Master Programme in Evidence Based Practice, are unique in Norway

Why choose Bergen University College?
Bergen University College offers study programmes of high quality, directed towards specific professions. Varied and strong academic environments make Bergen University College attractive for both students and professors. Our institution has a strong and important position among the university colleges in Norway, as well as in regional industry.

More than 30.000 students from more than 110 countries make Bergen an international student town. Although a small city by international standards, Bergen is the second largest city in Norway with its 250.000 inhabitants.

The city centre has a friendly and relaxed atmosphere, and is characterized by picturesque wooden houses and narrow lanes. Located on the western coast of Norway, the history and development of Bergen is closely linked to trade routes at sea and a constant interaction with the outside world. Bergen is also known as the gateway to the beautiful fjords, where you will find some of the wildest and most spectacular sceneries in Norway.

Students are an important part of Bergen's lively cultural scene, which provides them with rich and varied experiences in return. The seven mountains surrounding the city offer excellent recreational opportunities, and the sports department of the Student Welfare Organisation (SiB) invites students to participate in a variety of sports activities.

As an exchange student at Bergen University College, you are welcome to take part in all aspects of the student life in Bergen. In addition, we offer several services especially for incoming students, including an accommodation guarantee, pick-up service at the airport, welcome week, a buddy-programme, and different trips and events during the semester. We look forward to meeting you!

COURSES FOR EXCHANGE STUDENTS

EDUCATION/TEACHER TRAINING

Teacher Education in Norway

Module 1

Course description
Interdisciplinary course on Norwegian culture and education. The course consists of two modules. Module 1 is a 20 ECTS credits course in Norwegian culture and education involving the topics music, outdoor education, social sciences, religious and ethical education and Norwegian language and literature.

The students are required to participate in teaching activities in a school and/or kindergarten for a minimum duration of 5 days.

Assessment
Based on continuous evaluation of the students' work and a 14-day assignment based on one of the topics taught during the course. Grading A-F

Target group
Students studying for qualifications in the teaching and care professions. The course only runs if 8 or more students attend.

KEY INFORMATION

- Language of instruction: English
- Course code: U20TEDUC
- Credits: 20 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Teacher Education in Norway

Module 1 + Module 2

Course description

Interdisciplinary course on Norwegian culture and education.
The course consists of two modules. Module 1 is a 20 ECTS credits course in Norwegian culture and education involving the topics music, outdoor education, social sciences, religious and ethical education and Norwegian language and literature. The students are required to participate in teaching activities in a school and/or kindergarten for a minimum duration of 5 days.

Module 2 is a 10 ECTS credits project module that provides a deeper understanding of selected topics.

Assessment

Module 1: Based on continuous evaluation of the students' work and a 14-day assignment based on one of the topics taught during the course. Grading A-F

Module 2: Based on quality of final project and oral presentation of final project. Grading A-F.

Target group

Students studying for qualifications in the teaching and care professions. The course only runs if 8 or more students attend.

KEY INFORMATION

- Language of instruction: English
- Course code: U30TEDUC
- Credits: 30 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Music Education

Course description
Full time course that runs over a full semester. The curriculum includes lectures and workshops with didactics, classroom instruments, band instruments, accompaniment, conducting, arrangement and composition, practice in school, instrumental and vocal activities as well as dance in larger and smaller groups.

Assessment
Practical examination with grading A-F.

Target group
Teacher training students with special interest in music. Students who apply must play an instrument and have skills in using music notation.

KEY INFORMATION

- Language of instruction: English
- Course code: U30MUSIC
- Credits: 30 ECTS
- Course start: Primo January 2014
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Music Education

Course description
A full time course over 3 months. The curriculum includes lectures and workshops with didactics, classroom instruments, band instruments, accompaniment, conducting, arrangement and composition, practice in school, instrumental and vocal activities as well as dance in larger and smaller groups.

Assessment
Practical examination with grading Pass/Fail.

Target group
Teacher training students with special interest in music. Students who apply must play an instrument and have skills in using music notation.

KEY INFORMATION

- Language of instruction: English
- Course code: U20MUSIC
- Credits: 20 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Applied Theatre/Theatre in Education (TIE)

Course description
This is a full time 3 month course starting in the beginning of March 2014. Through theory and practice the students will learn about applied theatre in general and TIE more specifically. In groups the students will develop TIE-programs and tour in schools or other institutions. Research and development work is part of the study.

Assessment
A practical group exam followed by an individual oral examination. Grading A-F.

Target group
International exchange students and Norwegian students. The course requires a basic knowledge of drama/theatre education.

KEY INFORMATION

- Language of instruction: English
- Course code: U20THEATRE
- Credits: 20 ECTS
- Course start: Primo March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

English One-year Course

Course description

This course offers a comprehensive study of English with EFL didactics, and prepares students for teaching English in schools, grades 1-10. It covers English grammar language use, oral English and phonetics, and literature and culture studies. EFL didactics is an integrated part of the various disiplines, and also the topic of separate sessions. Teaching practice is a course requirement, consisting of three weeks each semester. The course consists of four modules; two in language and two in literature and culture. All teaching and communication are in English.

Assessment

Oral and written exam. Grading A-F.

Admission requirements

The students should have a good competence in English, and be able to follow lectures in English and to speak and write fairly correct English. CEFR (Common European Framework of Reference for Languages) level B2 would be the general standard of course participants.

KEY INFORMATION

- Language of instruction: English
- Course code: A60EN
- Credits: 60 ECTS
- Course start: 19 August 2013
- Duration: 2 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

English Language with Didactics

Course description

This is a foundation course in English grammar, language use, phonetics and phonology. In addition the course gives an insight into how pupils learn and understand a foreign language, including observation in English language classrooms in Norwegian schools. It offers practical training in ways of teaching and assessing a wide range of aspects of pupils' language. The students will be encouraged to compare their own mother tongue to English, to look for differences and challenges in learning English. The students' own written and oral English will also be focused on, and support given to develop this further.

Assessment

Written exam. Grading A-F.

Admission requirements

Good competence in English; to be able to follow lectures in English and write fairly correctly.

KEY INFORMATION

- Language of instruction: English
- Course code: GEN1112
- Credits: 15 ECTS
- Course start: 19. August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Teaching English as a Foreign Language

Course description

The main objective for the course is to give international students knowledge and insight into teaching English as a foreign language, with special emphasis on methodology and practical solutions for the classroom. English is by far the most important foreign language in Norway, and children now start learning English as a second language already at the age of 6. The course aims to shed light on the methods used in the teaching of English both in primary and lower secondary school.

The course will deal with various aspects of English didactics and methodology, such as

- some theories on second language acquisition
- planning teaching and school experience
- communicative competence
- teaching reading, writing, listening and speaking
- assessment

This course can be done in combination with English language with didactics GEN1112 or in combination with other courses offered at Faculty of Education.

Assessment

Portfolio assessment based on written assignments and an oral exam. Grading A-F.

Admission requirements

Fairly fluent in English; able to follow lectures and discussions in English and able to write assignments in English.

KEY INFORMATION

- Language of instruction: English
- Course code: U15ENG
- Credits: 15 ECTS
- Course start: 19. August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

COURSES FOR EXCHANGE STUDENTS

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You can combine different courses offered by the Faculty of Engineering, but you can only earn 30 ECTS per semester. The courses offered are mainly within Computer Science and Mechanical Engineering. If you wish to combine courses from different disciplines you must contact the International Office before applying.

Bachelor Project in Civil Engineering

Course description
Students will learn to work independently and in groups on a relevant engineering project that is problem or method based. The project will normally be carried out in cooperation with a private company or national/regional research institution and could be linked to the Department's research and development interests. The dissertation will normally represent the work of a group of 2 to 4 students under the supervision of an appointed tutor. The project may include: collection of information and specifications, analytical and practical work, design and programming. More detailed information will be provided by the Department. Completion of the project will involve the submission of a personal journal, the dissertation, and an oral presentation. The presentation and a poster of the group's results will take place in conjunction with the conference/exhibition EXPO HiB around the middle of June.

Assessment
Final report. Grading Pass/Fail.

Target group
3rd year Bachelor students in Civil Engineering.

KEY INFORMATION

- Language of instruction: English when English speaking students attend
- Course code: HOB110
- Credits: 15 ECTS
- Course start: March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Database II

Course description

In this course the students will acquire knowledge of the principles of modern database systems. In addition they will learn how to design databases and how to use them. Topics covered in the course:

- design of databases: data modeling, normalization, tools for database design
- different types of databases: relational databases, object-oriented databases
- database Languages: SQL, stored procedures, relational algebra
- practical use of a professional database system.
- transactions
- middleware technology
- indexing and storage structures
- XML in databases

Assessment

Final 3 hours written exam. Grading A-F.

Prerequisites

Introduction to databases.

KEY INFORMATION

- Language of instruction: English
- Course code: TOD137
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Mobile Technology

Course description
In this course the students will learn about different topics in mobile technology such as architecture and technologies for software development on handheld devices in general, developing rich (small) mobile clients, developing message based applications for mobile internet, as well as how to adress mobile robustness and security in the development of mobile application.

Assessment
Assessment: 3 compulsory assignments that must be passed before the written examination. 3 hours written examination with grading A-F.

Prerequisites
System Development and Web Application or equivalent.

KEY INFORMATION

- Language of instruction: English
- Course code: TOD142
- Credits: 5 ECTS
- Course start: Medio August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Development tools - SDK/C#/.NET

Course description

The goal of the course is to give a basic introduction to programming in Windows. The reason for including SDK is that many existing programs are made using this (rather old) platform for programming. The students will first get an introduction to programming in SDK, whereas the main part of the course will focus on programming in C# using the .NET platform, including the use of class libraries as well as the use of .NET in web applications (ASP.NET).

Assessment

Final 4 hours written examination. Grading A-F. In addition there are 4 compulsory assignments, including two large projects; building a traffic light simulator (SDK) and programming a planetary system simulator (C#/.NET).

Prerequisites

Programming in C++ or equivalent.

KEY INFORMATION

- Language of instruction: English
- Course code: TOD112
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Computer Aided Data Acquisition

Course description

The course will provide the student with basic knowledge on how to use computers for measurements and analysis of physical parameters, including basic instrumentation and an introduction to computer controlled measurement devices.

Assessment

Grading A-F based on a term project (40 %) and an individual oral examination (60 %). The term project is part of the curriculum and has to be handed in before the examination.

Prerequisites

Any introduction course in programming.

KEY INFORMATION

- Language of instruction: English
- Course code: TVE077
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Database Administration

Course description

The course covers the following topics:

- installation, configuration of database servers
- physical data storage, files indices
- import and export of data
- security: users, roles, privileges, authorisation
- data administration: availability, data quality
- physical schema design: normalization, query optimization, performance
- concurrency and locking
- transactions: different transaction types and their applications
- backup, recovery

Assessment

3 hours written examination together with a project during the course. Grading A-F.

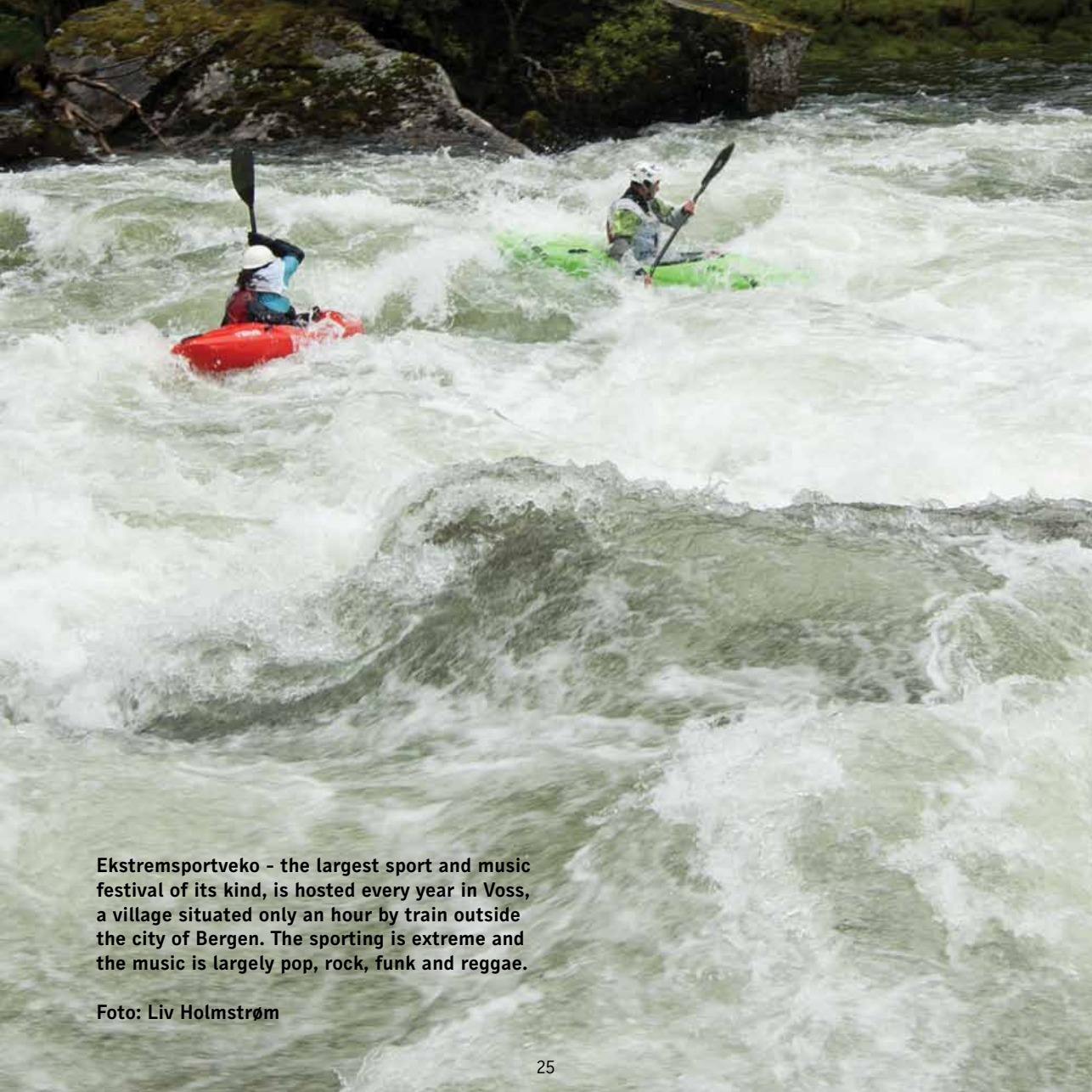
Prerequisites

Introduction to databases.

KEY INFORMATION

- Language of instruction: English
- Course code: TOD122
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english



Ekstremsportveko - the largest sport and music festival of its kind, is hosted every year in Voss, a village situated only an hour by train outside the city of Bergen. The sporting is extreme and the music is largely pop, rock, funk and reggae.

Foto: Liv Holmstrøm

Advanced Algorithms

Course description
The course teaches some advanced and well known algorithms within various areas. Throughout the course emphasis is put on problem solving, optimization and recursion. The students will learn that problems that are simple to formulate may not have any efficient algorithms.

Assessment
4 hour written examination. Grading A-F.

Prerequisites
Datastructure and Algorithms.

KEY INFORMATION

- Language of instruction: English
- Course code: TOD133
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Artificial Neural Network (ANN)

Course description
The course gives an introduction to the biological neuron and the brain. Different paradigms of ANN and Fuzzy logic will be explained in the lectures.

Assessment
Final assessment with the grading A-F based on 3 individual exercises (40%) and an oral examination (60%).

Prerequisites
Mathematics I or equivalent.
Mathematical Analysis & Vector Algebra or equivalent.

KEY INFORMATION

- Language of instruction: English
- Course code: TVD180
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Bachelor Project in Computer Sciences

Course description
In this course 2-3 students work together on an R&D project initiated by an external partner (e.g. an IT/Industry company). At least one of the students in the group has to be a local student from HiB. The group is required to develop a project plan (pre-project) in cooperation with their supervisor (HiB faculty member) and the client. The plan should include: a formulation of the problem, a feasibility study, and a description of the project's organisation, costs, and time requirements.

The project may include: collection of information and specifications, analytical and practical work, design and programming dependent on the nature of the work. More detailed information will be provided by the supervisor who will also advise on methods and technical aspects. Students are required to submit regular oral and written status reports to their supervisor and the client. Each student is required to maintain a journal, which on the completion of the project should include an individual assessment of personal development.

Completion of the project will involve the submission of a personal journal, a project report (bachelor thesis for the HiB students), and finally both an oral presentation and a poster presentation at the HiB student conference/exhibition EXPO (approx. 15. June).

Assessment
Portfolio assessment and presentation of results. Grading Pass/Fail.

Prerequisites
3rd or 4th year Informatics/Computer Science student or equivalent)

KEY INFORMATION

- Language of instruction: English
- Course code: HOD190
- Credits: 15 ECTS
- Course start: March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Advanced Software Technologies

Course description

The goal of this course is for the participants to obtain knowledge and practical experience with the use of modern tools, techniques, and platforms in the area of software technologies. Furthermore, the participants will obtain practical experience in assessing new software and development technologies.

The course content is being continously adapted as new technologies emerge. Currently, the course is based on the Java Enterprise Edition and a series of technologies linked to the Java platform.

Assessment

Oral examination and project work. Grading A-F.

Target group

Master students in Software Engineering or Computer Science, and 3rd or 4th year bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English
- Course code: MOD250
- Credits: 10 ECTS
- Course start: Medio August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Modern Software Development Methods

Course description

The students will gain knowledge on, and get hands-on experience with, selected modern methods for software development as well as developing an understanding of how to do research following such methods. The course teaches methods and techniques for development of software systems, focusing especially on agile methods (e.g. eXtreme Programming). Topics include design principles and patterns, requirements engineering, architecture, estimation techniques, and testing. There will also be given an introduction to research on software development.

Assessment

5 hours written examination. Grading A-F.

Target group

Master students in Software Engineering or Computer Science, and 3rd or 4th year bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English
- Course code: MOD251
- Credits: 10 ECTS
- Course start: Primo January 2014
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Every year 300–400 volunteers from all over the world contribute to make Ektremsportveko a success. Ekstremsportveko 2013 is from June 23rd–30th.

Foto: Per Finne

Agent Technologies

Course description

The students will gain knowledge of the basis for design and construction of multi-agent systems (MAS). The term “intelligent agent” (IA) is central in the course. Intelligent agents will be studied with respect to classification (mobile agents, learning agents etc), properties, and patterns for communication between IA. The students will also make hands on experience with intelligent agents in software systems with respect to software architecture, knowledge sharing and different communication models for MAS.

Assessment

Mandatory exercises and 4 hours written or oral examination. Grading A-F.

Target group

Master students in Software Engineering or Computer Science, and 3rd or 4th year bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English
- Course code: MOD252
- Credits: 10 ECTS
- Course start: Medio August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

GRID Computing

Course description
Computing for Science and Technology requires ever increasing amounts of computing power. Grid computing gives seamless access to distributed resources at a global scale. This course presents technology and principles of Grid Computing, and gives a practical introduction to grid middleware. The course also covers topics from current research in development and use of Grid technologies.

Assessment
Oral exam. Grading A-F.

Admission requirements
Master students in Software Engineering or Computer Science, and 3rd/4th year bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English
- Course code: MOD351
- Credits: 10 ECTS
- Course start: Primo August 2013
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Model-Driven Software Engineering

Course description

Software systems are to realize still more advanced and reliable services involving a spectrum of platforms ranging from cloud-oriented infrastructure to mobile devices. A current trend in software engineering to address flexibility, productivity, and reliability is the use of models ranging from applications in system perception across design to implementation and deployment of software solutions. This course will provide the participants with state-of-the-art working knowledge on the foundations and technologies supporting model-driven software development and verification. This includes recent research results within the areas of domain-specific modeling languages, techniques for software verification, and frameworks supporting model transformation and automated code generation.

Assessment

Oral exam. Grading A-F.

Admission requirements

Master students in Software Engineering or Computer Science, and 3rd/4th year bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English
- Course code: MOD350
- Credits: 10 ECTS
- Course start: Primo January 2014
- Duration: 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Control, Modeling and Analysis

Course description

Modelling of mechanical, electrical, electromechanical, thermal, and hydraulic systems. Analytical and numerical solutions for linear and non-linear systems, Laplace transforms, block diagrams, transfer functions, and criteria's for stability and robustness. The course will apply up to date software such as VisSim and Scientific Notebook for modelling and analysis. A number of exercises, including a complete analysis of an engineering system will be required. After completing this course the students should have a basic understanding of modern control theory and be familiar with modern tools for modelling, simulation, and analysis of technical systems.

Assessment

Grading A-F based on a 3 hour written examination. The exercises must be passed in order to sit for the written examination.

Target group

Students in mechanical engineering who have basic knowledge of thermodynamics, mechanics, fluid dynamics, dynamics and differential equations.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM007
- Credits: 5 ECTS
- Course start: Medio August 2013
- Duration: 4 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

3D Modeling and Engineering Drawing/CAD II

Course description

The aim is to give the students advanced knowledge of the computer as a tool within product design and analysis with the help of CAD-Program Pro Engineer with additional tools. The students shall learn the Finite Element Method (FEM) to calculate strength and deformation of constructions. They will also learn the calculation of flow, thermal conduction, and other types of fields. The course includes advanced 3D modelling of machine elements and dimensioning, projection, section, tolerance and surface roughness, analysis with the Finite Element Method (FEM), and strength calculation of machine elements with FEM Animation of Mechanisms.

Assessment

Semester assignment and 2 tests, grading A-F. The final grade is based upon an average of the grades from group and individual tests. Both parts must be approved in order to be graded in the subject.

Target group

Students with basic knowledge of Computer Aided Drawing (CAD) and machine drawing.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM018
- Credits: 7,5 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 4 (5) months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Materials Science

Course description

The course covers the following themes:

- structure of different materials
- connection between structure and properties
- non-destructive and destructive test methods
- effect of deformation and thermal treatment on the mechanical properties

The course aims to give the students an overview of the structure, properties and utilisation of construction materials and to give an overview of destructive and non-destructive test methods. The students will get basic knowledge on how to make decisions about different kinds of materials for different products and choice of test methods to test if the materials have the right quality.

Assessment

Evaluation of a folder containing at least 6 laboratory-reports and 10 tests done at home. In addition there will be 3 tests/small exams at school. All laboratory reports and home-tests must be delivered in before a certain deadline. All laboratory classes are obligatory. Grading A-F.

Target group

Students of Mechanical Engineering that have basic knowledge of calculus and general chemistry.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM162
- Credits: 7,5 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 4 (5) months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

MatLab Simulations

Course description

This course gives a general introduction to MatLab, numerical vs. symbolic calculations, mathematical operations, different MatLab functions, control structures, development of simple dynamic models and mathematical simulation of these. The students shall acquire basic knowledge in mathematic programming and dynamic simulation through MatLab.

Assessment

Grading A-F based on a number of tests during the semester.

Target group

Mechanical engineering students who have finished mathematics subjects, i.e. calculus, linear algebra, and differential equations. They should also have had subjects within statics and dynamics.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM058
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 5 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Bergen has a compact city centre, with all the facilities of the city within a walking distance.

Instrumentation and Control Systems

Course description

The aim of the course is to give the students an overview of how elements in industrial processes are measured and controlled. The course covers sensor technology, signal processing and transmission, process controllers and correction elements, PLC systems, system models, transfer functions, and system response calculations. The course also covers precision, accuracy, reliability, and uncertainties in instrumentation systems.

The course holds a special focus on instrumentation and control systems in the petroleum industry.

Assessment

Final 3 hours written examination. Four compulsory exercises must be approved in order to sit for the written examination. Grading A-F.

Target group

Students in mechanical or electrical engineering with basic knowledge in electronics, and automation such as the fundamental laws of electronics and basic digital electronic systems.

The course is given off-campus at the facilities in Straume.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM166
- Credits: 10 ECTS
- Course start: Primo January 2014
- Duration: 4 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Industrial Data Networks

Course description

The aim of the course is to give the students an overview of how data networks are implemented in various technical and industrial systems that is used in communication between end users and in transmission of measurement- and process data.

The course includes network technology, a general introduction to networks, standardisation, communication media (copper, optical and wireless), topology and network components, tele- and data communication usage, public, private, and industrial networks, internet, security and trends, industrial data networks, field busses, and wireless technologies for industrial systems.

The course holds a special focus on data networks commonly used in the petroleum industry.

Assessment

Final three hours written examination. Four compulsory exercises must be approved in order to sit for the written examination. Grading A-F.

Target group

Students in mechanical or electrical engineering with basic knowledge in electronics, automation and instrumentation such as the fundamental laws of electronics, basic digital electronic systems, sensor technology and introduction to control systems.

The course is given off-campus at the facilities at Straume.

KEY INFORMATION

- Language of instruction: English
- Course code: TOM170
- Credits: 5 ECTS
- Course start: Medio August 2013
- Duration: 4 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Natural Gas Technology

Course description

The course shall give the student basic knowledge of production, transportation, and processing of natural gas. It includes thermodynamics: flow equation and fluid properties, physical behaviour of natural gas systems, gas hydrates and their prevention, applications of flow equations: pressure drop, compression, and metering. It also includes gas treatment, gas for the energy market, as well as biogas basics.

Assessment

3 hours written examination. 5 exercises must be approved in order to sit for the written examination. Grading A-F.

Target group

Mechanical engineering students with basic knowledge of thermodynamics, fluid dynamics, statics, and calculus.

KEY INFORMATION

- Language of instruction: English
- Course code: TVM040
- Credits: 5 ECTS
- Course start: Primo January 2014
- Duration: 5 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Entrepreneurship

Course description

The aim of the subject is to provide students with an understanding of the challenges involved when considering commercializing a new product or service idea. Entrepreneurial competence encompasses evaluating if the new idea is a "good" idea, if customers will buy it, if the market will respond, if profit can be gained and the risks be overcome. Through writing a business plan based on their own idea, the learning process contains both a practical and theoretical approach. To serve as an inspiration we follow a team throughout the learning process to see how they dealt with the principal challenges involved in an entrepreneurial encounter.

Assessment

An oral examination based on a written Business Plan.
Grading A-F.

Target group

Students studying for a Bachelor degree in Engineering.

KEY INFORMATION

- Language of instruction: English
- Course code: FOA044
- Credits: 5 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 4 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Systems Engineering

Course description
Students will acquire knowledge of project management, project control, and carrying out a project. The course is based on best practice, project models, and systems engineering. All project activities are defined through best practice processes and industry standards. The interplay and differences between conventional project management and systems engineering are defined. The students shall understand basic principles and elements related to planning and carrying out a project, and understand the interplay between the elements. Leadership, requirement leadership, risk- and possibility leadership, project control, visualisation of the results, status supervision, reporting, and corrective actions are important elements in the lectures and group problems. Main elements: Common project vocabulary, cooperation and organising, project cycles and project sequences, different kinds of managements/leadership.

Assessment
3 hour written exam. 1 group project and 2 assignments must be passed to be allowed to sit for exams. Grading A-F.

Target group
Students studying for a Bachelor degree in Engineering.

KEY INFORMATION

- Language of instruction: English when English speaking students attend
- Course code: FOA045
- Credits: 5 ECTS
- Course start: Medio August 2013 and primo January 2014 (in January the Course is given off Campus at Straume)
- Duration: 5 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

There are many sporting opportunities in Bergen, and a good environment for climbing - both indoors and outdoors.

Bachelor Project in Mechanical Engineering, Marine Technology, Industrial Engineering, Energy Technology, or Subsea Technology

Course description
Students will learn to work, independently and in groups, on a relevant problem or method based engineering project. The project will normally be carried out in co-operation with a private company or national/regional research institution and could be linked to the Department's research and development interests. The dissertation will normally represent the work of a group of 2 to 3 students under the supervision of an appointed tutor.

The project may include: collection of information and specifications, analytical and practical work, design and programming dependent on the nature of the work. More detailed information will be provided by the Department.

Completion of the project will involve the submission of a personal journal, the dissertation, and an oral presentation. The presentation and a poster of the group's results will take place in conjunction with the conference/exhibition EXPO HiB around the middle of June

Assessment
Assessment of the final report and presentation of final thesis. Grading Pass/Fail.

Target group
Students in their final year of a Bachelor degree in Mechanical Engineering.

KEY INFORMATION

- Language of instruction: English
- Course code: HOM140
- Credits: 15 ECTS
- Course start: Primo January 2014
- Duration: 5 1/2 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Chemometrics

Course description

The course covers the following themes:

- experimental planning using experimental design
- multivariate regression
- optimization and latent variable modeling (exploration, classification, prediction)

Assessment

Four hour written exam. Grading A-F.

Target group

Students who have a basic knowledge of mathematics and statistics.

KEY INFORMATION

- Language of instruction: English
- Course code: TOK007
- Credits: 10 ECTS
- Course start: Primo January 2014
- Duration: 6 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Bachelor Project in Chemical Engineering or Analytical Chemistry

Course description
Project work within the fields of Chemical Engineering or Analytical Chemistry. The project will normally be carried out in cooperation with a private company or national/regional research institution and could be linked to the Department's research and development interests.

Assessment
Student must write a report (normally in a group of 2-3 students). Grading Pass/Fail. The project is to be presented at the EXPO exhibition in June.

Target group
Students in their final year of a Bachelor degree in Chemical Engineering or Analytical Chemistry.

KEY INFORMATION

- Language of instruction: English
- Course code: HOK110
- Credits: 15 ECTS
- Course start: March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Practical Training in Biomedical Laboratory Science

Course description
This course consist of a three months practical training at different medical laboratories in Bergen (mainly Haukeland University Hospital). The training will cover hematology, clinical chemistry, histology, cytology and microbiology.

Assessment
Log book and oral exam. Grading Pass/Fail.

Target group
Students in their 3rd year of a Bachelor degree in Biomedical Laboratory Science (max 4 students).

KEY INFORMATION

- Language of instruction: English
- Course code: BIO150
- Credits: 18 ECTS
- Course start: Medio August 2013
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Instrumentation and Data Networks

Course description
The aim of the course is to give the students an overview of how variables in industrial processes are measured and controlled and how process data are communicated electronically.

Instrumentation subjects include sensor technology, signal processing and transmission, process controllers and correction elements and system models.

Data network subjects include general introduction to networks, standardisation, communication media (copper, optical and wireless), topology and network components, telecommunication usage, public, private, and industrial networks, TCP/IP, field busses, and wireless technologies for industrial systems.

The course also covers precision, accuracy, reliability, and uncertainties in instrumentation systems.

Assessment
Final 4 hours written examination. Four compulsory exercises must be approved in order to sit for the written examination. Grading A-F.

Target group
The course is aimed at students attending programmes in electronic engineering and/or automation. The students should be familiar with the analogue and digital electronics and should have a basic knowledge to PLC-systems.

KEY INFORMATION

- Language of instruction: English
- Course code: TOE051
- Credits: 10 ECTS
- Course start: Medio August 2013
- Duration: 4 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Bachelor Project in Electrical/Electronic Engineering/Automation/ Communication Systems

Course description

The dissertation will represent the work of a group of 2 to 3 students on an R&D project. The group is required to develop a project plan (pre-project) in cooperation with their tutor and the client. The plan should include a formulation of the problem, a feasibility study, and a description of the project's organisation, costs, and time requirements. The project may include collection of information and specifications, analytical and practical work, design and programming. More detailed information will be provided by the Department. The Department will provide a tutor who can advise the group on methods and technical aspects. Students are required to submit regular oral and written status reports to their tutor and the client.

Completion of the project will involve the submission of a project report, a project poster and an oral presentation. The presentation will take place in conjunction with the conference/exhibition EXPO HiB around the middle of June.

Assessment

Portfolio assessment and presentation of results. Grading Pass/Fail.

Target group

Students in their final or 3rd year of a Bachelor degree in Electrical or Electronic Engineering.

KEY INFORMATION

- Language of instruction: English
- Course code: HOE076
- Credits: 15 ECTS
- Course start: March/April 2014
- Duration: 3 months for Electrical Engineering and 5 months for Electronical Engineering/ Automation/Communication Systems

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

COURSES FOR EXCHANGE STUDENTS

HEALTH AND SOCIAL SCIENCES

54 Health Promotion and Preventive Work
55 Professional and Behavioral Aspects of Patient Care in Radiography
56 The Challenge of Enabling Occupation
58 Evidence Based Nursing/Critical Thinking
59 Nursing in Municipal Health Care Services/ Home Based Care
60 Global Health and Cultural Awareness in Nursing
61 Crossing Borders
62 Social Work in Europe
63 Community Work from an International Perspective

Health Promotion and Preventive Work

Course description
The course is directed towards health promotion and preventive work. Health promotion is described as the process of enabling people to increase control over, and to improve their health. To reach the goal, it is necessary to identify and to realize aspirations, to satisfy needs, and to change or cope with the environment. Focus is on interactions between people and environment, and identification of factors in the environment that enhances or limit humans physical-, psychological-, and social development. The course should enable students to identify and evaluate factors that influence health and ill-health and to take actions directed at specific target groups in order to promote health.

The course is centred around three different projects that includes field-work. The projects focus on self-training, work-and-health (ergonomics) and development of a health campaign. Physical activity is the means used to promote health in all three projects. The course includes one week practical placement assisting disabled people. Prior to the main course, a short introduction to Norway is arranged for exchange students (1.5 weeks/2 credits).

Assessment
Assignments must be passed in order to sit for the exam. Exam consists of a written paper, presentation of the campaign and critical evaluation of one other groups project work. The exam is arranged as a seminar, and participation in the total seminar program is compulsory. Grading A-F.

Target group
2nd or 3rd year Bachelor students in physiotherapy.

KEY INFORMATION

- Language of instruction: English
- Course code: BFY220
- Credits: 20 ECTS
- Course start: March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Professional and Behavioral Aspects of Patient Care in Radiography

Course description

This subject focuses on aspects of the radiographers role, tasks and responsibilities when interacting with the patients. The study topics deal with the radiographers professionalism and behaviour as a caregiver and will give the student an opportunity to reflect upon situations where different considerations and demands must be weighed up against one another in different decision making processes.

Assessment

Oral and written exam. Grading A-F.

Target group

Final year radiography students in their 6th/last semester. Must have passed all examiniations and clinical practises.

KEY INFORMATION

- Language of instruction: English
- Course code: BRA320 (Theory 6 ECTS) and BRP5UTV (Clinical practice 14 ECTS)
- Credits: 20 ECTS
- Course start: Primo January 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

The Challenge of Enabling Occupation

Course description
This course focuses on connecting conseptual foundations and occupational therapy inventions for individuals and groups. The course is part academic and part practical fieldwork. The fieldwork is done side-by-side with Norwegian students in home-based healthcare in the community.

Through themes listed below, occupational therapy interventions and theoretical frameworks are addressed:
- making living at home possible
- group activities for children in daycare
- cultural awareness within occupational therapy

Besides the practical fieldwork and lectures the course includes group work, written assignments and seminars. One assignment is placement in a daycare for children.

Assessment
Written paper/oral exam. Graded A-F.

Target group
2nd or 3rd year students of Occupational Therapy.

KEY INFORMATION

- Language of instruction: English
- Course code: BER211
- Credits: 18 ECTS
- Course start: Mid March 2014
- Duration: 3 months

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Evidence Based Nursing/Critical Thinking

Course description
Evidence Based Practice (EBP) involves ability to access, summarize, and apply information from the literature to day-to-day clinical problems. This course introduces the principles and application of EBN in medical and surgical nursing care, including data base search, critical reading of scientific articles, and implementation in the clinic.

The students work in groups with clinical problems expressed by skilled nurses in the wards. Each student group and the nurses discuss the problem and the reason for why this problem needs to be explored. The student groups perform literature searches followed by a critical appraisal of the articles and a discussion of the literature's clinical relevance in dialog with the nurses at the wards. Each work is reported by a group assignment. Each group consists of 4-5 students.

Assessment
Written exam. Grading Pass/Fail.

Target group
2nd and 3rd year Bachelor students in Nursing.

KEY INFORMATION

- Language of instruction: English
- Course code: BSS4
- Credits: 5 ECTS
- Course start: February 2014
- Duration: 3 weeks

Incoming Erasmus students who want to stay for a whole term and gain 30 ECTS may combine the courses Evidence Based Nursing/Critical Thinking (5 ECTS), Nursing in Municipal Health Care Services/Homebased Care (15 ECTS expanded to 20 ECTS by 3 extra weeks of placement) and Global Health and Cultural Awareness in Nursing (5 ECTS) in this order.

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Nursing in Municipal Health Care Services/Home Based Care

Course description

The course consists of theoretical (BSS6B) and clinical studies (BSS6A), 2 weeks plus 8 weeks, related to care for patients receiving care at home and their next of kin. The focus is on geriatrics, care for the elderly, emergency care in the municipal health care services, administration of nursing care, old age pedagogic, social science, and national health legislation. The part of the course which consists of clinical studies takes place in Bergen and surrounding municipalities and lasts for 240 hours over a period of 10 weeks. The students have 1 day of self-studies per week. The students write their own learning goals prior to the placement and will receive tutoring in this period.

Assessment

Written exam. Grading A-F. The student may apply to have the written exam replaced by an individual oral exam.

Target group

2nd or 3rd year Bachelor students in Nursing.

KEY INFORMATION

- Language of instruction: English
- Course code: BSS6A + BSS6B
- Credits: 15 ECTS
- Course start: February 2014
- Duration: 10 weeks

Incoming Erasmus students who want to stay for a whole term and gain 30 ECTS may combine the courses Evidence Based Nursing/Critical Thinking (5 ECTS), Nursing in Municipal Health Care Services/Homebased Care (15 ECTS expanded to 20 ECTS by 3 extra weeks of placement) and Global Health and Cultural Awareness in Nursing (5 ECTS) in this order.

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Global Health and Cultural Awareness in Nursing

Course description

This course consists of two interconnected parts: global health and cultural awareness in nursing. It will examine the major global health challenges and the major global policy initiatives to address these challenges. Current topics of comparative interest in European nursing will be discussed. Furthermore, it will discuss the importance of culture in the experience of health and illness.

The course covers the following themes:

- the policy context, social determinants of health, migration and health, the major global epidemics, mother and child issues, and reproductive health
- care systems in European countries with emphasis on vulnerable groups such as: the elderly population, patients in need of mental health care, and pregnant women and care for newborns

The students work together in study groups on chosen cases based on topics taught in the course.

Assessment

Group exam on the chosen cases with oral presentation. Grading Pass/Fail.

Target group

2nd or 3rd year Bachelor students in Nursing.

KEY INFORMATION

- Language of instruction: English
- Course code: BSS5
- Credits: 5 ECTS
- Course start: June 2014
- Duration: 3 weeks

Incoming Erasmus students who want to stay for a whole term and gain 30 ECTS may combine the courses Evidence Based Nursing/Critical Thinking (5 ECTS), Nursing in Municipal Health Care Services/Homebased Care (15 ECTS expanded to 20 ECTS by 3 extra weeks of placement) and Global Health and Cultural Awareness in Nursing (5 ECTS) in this order.

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Crossing Borders

International Module on Participation and Citizenship

Course description
The course consists of two parts, a General part of 5 ECTS, and a part of 10 ECTS called "Ways to improve Participation". The General part deals with issues like concepts and mechanisms of participation, citizenship, inclusion and marginalization. The diversity part deals with issues like definition and treatment of diversity, the relationship between majorities and minorities, and methods to bridge social divisions at a local level. Participants will take part in videoconferences, and local and international group work. They read theoretical material, participate in life and streamed lectures, conduct field visits, give oral presentations and write papers. Both courses have written assignments in groups.

If you want to spend a full semester at HiB, the course Crossing Borders can be complemented by a practical placement of 15 ECTS.

Assessment
Assignment. Grading A-F.

Target group
Students in their 2nd, 3rd or 4th year of any Bachelor degree in Social Work and Social Care (Social Education). It may also be regarded as a part of a Bachelor`s programme in Health Care and Education.

KEY INFORMATION

- Language of instruction: English
- Course code: BSVCBE1 and BSVCBP2
- Credits: 5 ECTS and 10 ECTS (+ 15 optional ECTS)
- Course start: September 2013
- Duration: 3 months or 1 semester

Contact information:
International Office
e-mail: international@hib.no
www.hib.no/english

Social Work in Europe

Course description
This is a part time e-learning course in international social work relevant for social workers working with immigrants, refugees or labour immigrants, and also for students who want to work or study abroad. The course consists of two modules that can be taken separately; module 1 (BSO214A) 5 ECTS: Social Work in Europe, Commonalities and Differences and module 2: Comparative Social Work. A European perspective on core issues of social work (10 ECTS). In module 2 students can choose to focus on one of three themes: Discimination and Ethnic diversity (BSO214B), Poverty and welfare systems in Europe (BSO214C), Social Work Practice in a European Context (BSO214D). See also **vircamp.net** for more details.

Assessment
Written exam. Grading A-F.

Target group
2nd year Bachelor and upward students in Social Work and professional Social Workers who would like an international perspective on Social Work. For special intake procedures and application deadline go to **vircamp.net**

KEY INFORMATION

- Language of instruction: English
- Course code: BSO214A and BSO214B/C/D
- Credits: 5 + 10 ECTS
- Course start: BSO214A October 2013 and BSO214B November 2013
- Duration: 5 months

Contact information:
Admissions Office
e-mail: opptak@hib.no
www.hib.no/english
or
Course coordinator:
anne.karin.larsen@hib.no

Community Work from an International Perspective

Course description

This is a part-time e-learning course in international community work. The course focuses on theories and methods in community work/development, empowerment and participation, comparative studies of communities, community projects and the students' own project development. The study programme aims to develop competences in project development and entrepreneurial competences for development of collective changes. By using virtual learning material the students are working with a community case where they are mapping the situation and initiating projects and cooperation.

Assessment

Written exam. Grading A-F.

Target group

2nd year Bachelor and upward students in Social Work and professional Social Workers who would like an international perspective on Social Work. For special intake procedures and application deadline go to **vircamp.net**

KEY INFORMATION

- Language of instruction: English
- Course code: BSO215
- Credits: 15 ECTS
- Course start: Primo January 2014
- Duration: 5 months

Contact information:
Admissions Office
e-mail: opptak@hib.no
www.hib.no/english
or
Course coordinator:
anne.karin.larsen@hib.no

MASTER PROGRAMME AND FURTHER STUDIES

Master in Software Engineering (SE)

Study programme description
Bergen University College offers a joint master's program in Software Engineering with the University of Bergen. The program is organized as 60 ECTS of course work and 60 ECTS of thesis work. The students will at graduation receive a joint Master's degree (MSc in Informatics) from Bergen University College and the University of Bergen.

Students attending the program will gain competence in creating high quality reliable software products in a systematic, controlled and efficient manner, with important emphasis on analysis, specification, design, and evolution.

The candidates will also gain experience in evaluating and choosing the right technologies, methods, and tools necessary to develop complex ICT systems. The program is research-based. The candidates will learn about research methods in Software Engineering and they have to document these skills within the framework of a master thesis.

Relevant master's degree courses given at Bergen University College (other courses can be taken at the Dept. of Informatics at the University of Bergen):
MOD250 (see page 29), MOD251 (see page 30),
MOD252 (see page 32), MOD351 (see page 33).

Assessment
Master Thesis. Grading A-F.

Admission requirements
Bachelor degree in Computer Science or similar programs with no less than 60 ECTS from Software Engineering subjects and 20 ECTS from Mathematics.

KEY INFORMATION

- Language of instruction: English
- Course code: DPU-MA
- Credits: 120 ECTS
- Course start: Medio August 2013 and primo January 2014
- Duration: 4 semesters (2 years)
- Joint degree with University of Bergen
- Application deadline: 15 April

Contact information:
University of Bergen
Faculty of Mathematics and Natural Sciences
www.uib.no/education/admission/master

E-Pedagogy for Teachers in Higher Education

Course description
Lifelong learning is an important objective for the EU educational systems and for labour mobility in Europe. E-learning methodology makes it possible for professionals to increase their knowledge as part time students. Being an e-Learning teacher demands specific skills and competences in pedagogy related to supervising students on the Internet. One needs an explicit knowledge of how to structure the learning material to make a suitable and inspiring learning environment for e-Learning students. This course promotes and strengthens the participants' skills in teaching, supervising, planning and organising good e-learning courses in a Virtual Learning Environment (VLE). This is a course for teachers in Higher Education Institutions teaching social work or related subjects.

Assessment
Written exam. Grading A-F.

Target group
Teachers in higher education in the social and health sector.
For special intake procedures and application deadline go to **vircamp.net**. Limited number of students.

KEY INFORMATION

- Language of instruction: English
- Course code: B10EPED
- Credits: 10 ECTS
- Course start: Primo January 2014
- Duration: 1 semester

Contact information:
Admissions Office
e-mail: opptak@hib.no
www.hib.no/english
or
Course coordinator:
anne.karin.larsen@hib.no

Basic Body Awareness Methodology

Study programme description
The study programme is designed for physiotherapists, internationally, who work with people suffering from multifactorial problems, like long lasting musculoskeletal pain, Eating Disorders, Depression and Anxiety, and for those who want to develop professionally.

The student gains qualification in how life experiences are expressed in human movement and relationship. They will be qualified to act professionally, in individual and group therapeutic settings, where movement awareness and movement quality is inplemented in daily life movements, lying, sitting, standing, walking, use of voice and massage.

The program qualifies physiotherapists to work within the mental health field, community-based physiotherapy, in health promotion and preventive health care.

At the BBAM you meet colleagues, deepen insight in human movement, and participate in building an international network of physiotherapy in mental health.

Assessments
4 written exam, each with a portfolio. 2 oral exam, each with three elements. Grading Pass/Fail. Final exam, portfolio, grading scale A-F.

Admission requirements
Minimum 3 years Bachelor education, included authorization in physiotherapy or a similar level of education. Basic English oral and written skills are required together with basic skills in use of data/computer.

KEY INFORMATION

- Language of instruction: English
- Course code: BBAE
- Credits: 60 ECTS
- Course start: 21 October 2013
- Duration: 2 years part-time
- Application deadline: 1 June 2013

Contact information:
Admissions Office
e-mail: opptak@hib.no
www.hib.no/english

Contact information

International Office
e-mail: international@hib.no
www.hib.no/english

Application deadline

For autumn term exchanges: 1 April 2013
For spring term exchanges: 1 October 2013

How to apply

Please download our application form:
www.hib.no/english

Bergen University College
P.O. Box 7030, Nygårdsgaten 112, N-5020 Bergen,
Tel: +47 55 58 75 00, post@hib.no, www.hib.no