BERGEN UNIVERSITY COLLEGE

Courses and Study programmes in English 2014–2015

HØGSKOLEN I BERGEN

BERGEN UNIVERSITY COLLEGE

hib.no

Contents

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 2014: medio August - ultimo December
Spring 2015: 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 and 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 270.000 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 group 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!
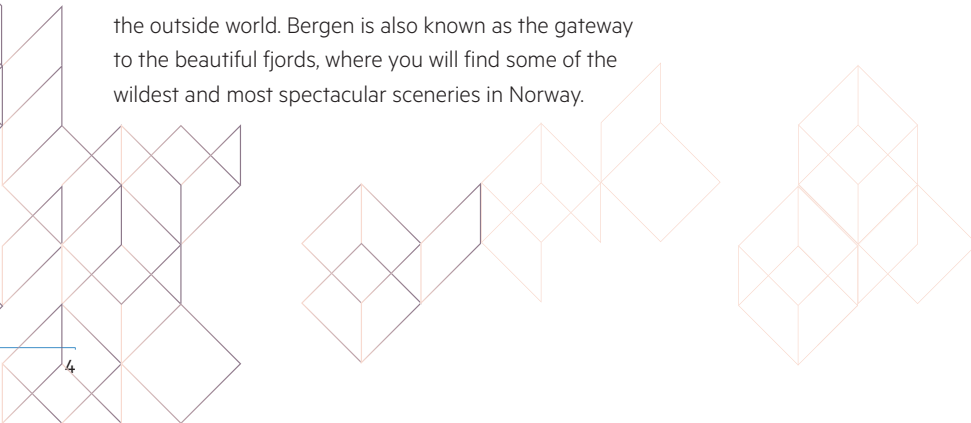
Courses for exchange students

EDUCATION/TEACHER TRAINING

NORWEGIAN FOR FOREIGN STUDENTS. BEGINNERS COURSE

COURSE DESCRIPTION

The course is directed towards exchange at students Bergen University College. The course requires no previous knowledge of Norwegian. The students must be sufficiently proficient in English to understand instruction in English. The course focuses on training of communicative skills in Norwegian, both listening and speaking, reading, and writing. The communicative training will deal with everyday situations/functions. Classes will be held for two hours twice a week, in August – October and January – March. The course is completed with an oral exam.

ASSESSMENT

Oral exam. Grading Pass/Fail.

TARGET GROUP

Exchange students without previous knowledge of Norwegian.

PREREQUISITES

Understand instruction in English.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: U5NOR13**

- **Credits: 5 ECTS**

- **Course start: August 2014, January 2015**

- **Duration: 3 months**

CONTACT INFORMATION

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

TEACHER EDUCATION IN NORWAY
– MODULE 1

COURSE DESCRIPTION

Interdisciplinary course on Norwegian culture and education.
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 2014 and primo January 2015**

- **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 2014 and primo January 2015**

- **Duration: 1 semester**

CONTACT INFORMATION

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

MUSIC EDUCATION

COURSE DESCRIPTION

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 2015

- Duration: 3 months

CONTACT INFORMATION

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

MUSIC EDUCATION

COURSE DESCRIPTION

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 2015

- Duration: 1 semester

CONTACT INFORMATION

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

OUTDOOR EDUCATION IN EARLY CHILDHOOD

COURSE DESCRIPTION

Outdoor Education in Early Childhood will include outdoor education and nature science. It is part of the Bachelor programme in Preschool Education. The course is open for both Norwegian students in 3rd year and incoming exchange students. The course is thought in Norwegian and English. There are four excursions: one week hiking in the mountains, three days of kayaking in a fjord, three days of fishing near the coast, and two days of canoeing in a lake.

ASSESSMENT

Written exam, and oral exam. Grading A-F.

TARGET GROUP

Teacher Students/Early Childhood Students and Physical Education Students.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: F30UTF111 +F30UTF211**

- **Credits: 10+20 ECTS**

- **Course start: August 2014**

- **Duration: 1 semester**

CONTACT INFORMATION

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

THEATRE IN EDUCATION/ APPLIED THEATRE

COURSE DESCRIPTION

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.

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: March 2015

- 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 disciplines, 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.

TARGET GROUP

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: August 2014
- 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.

TARGET GROUP

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: August 2014**

- **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

- 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: August 2014**
- **Duration: 1 semester**

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.

Courses for exchange students

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: 20 ECTS

- Course start: March 2015

- Duration: 3 months

CONTACT INFORMATION

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

SOFTWARE ARCHITECTURE AND APPLICATIONS DEVELOPMENT

COURSE DESCRIPTION

The goal of the course is to introduce development of substantial software application, focusing on software architecture, pattern, and user interfaces. 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 compulsory assignments, including one large project.

PREREQUISITES

Programming in C++ or equivalent.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: DAT154**
- **Credits: 10 ECTS**
- **Course start: Primo January 2015**
- **Duration: 3 months**

CONTACT INFORMATION

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

MOBILE AND DISTRIBUTED SYSTEMS

COURSE DESCRIPTION

In this course the students will learn about different topics in mobile and distributed systems such as architecture and technologies, software development on handed devices in general. Developing rich (small) mobil clients, developing message based applications for mobile internet, as well as how to address robustness and security in the development of mobile and client-server applications.

ASSESSMENT

Compulsory assignments that must be passed before the written examination. 4 hours written examination with grading A-F.

PREREQUISITES

Advanced Web Applications or equivalent.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: DAT153**

- **Credits: 10 ECTS**

- **Course start: Primo January 2015**

- **Duration: 1 semester**

CONTACT INFORMATION

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

DATABASE AND SYSTEMS ADMINISTRATION

COURSE DESCRIPTION

The course covers basic principles and practice in installation, administration, and management of UNIX and relational database systems. This includes management of physical storage, users, security, backup, transactions.

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

Combination of project work (weight 80%) and oral exam (20 %).
Compulsory exercises must be passed before the final examination.
Grading A-F.

PREREQUISITES

Introduction to databases, computers, and operating systems.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: DAT151**
- **Credits: 10 ECTS**
- **Course start: Primo January 2015**
- **Duration: 3 months**

CONTACT INFORMATION

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

INDUSTRY PLACEMENT

COURSE DESCRIPTION

Through the work at an external partner the student should gain valuable and relevant practical work experience. The student work at fixed days each week for 8 weeks, in total at least 270 hours, all activities inclusive. During this period the student shall take active part in the running operation of the computer systems of the external employer or participate in tasks within software development.

ASSESSMENT

A portfolio consisting of of daily journal and time sheet, progress report, final report, feedback from the employer, and a final oral presentation. Grading Pass/Fail.

PREREQUISITES

At least 90 ECTS from the first two years of the Bachelor curriculum, preferably more. Students from abroad may be admitted after an assessment, taking into account availability of work places, and the students´ background and abilities.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: DAT156**

- **Credits: 10 ECTS**

- **Course start: August 2014, January 2015**

- **Duration: 1 semester**

CONTACT INFORMATION

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

ADVANCED WEB APPLICATIONS

COURSE DESCRIPTION

This is an advanced course in developing web-based applications. The course focuses on generating dynamic web pages, client-server based systems, security, architecture, and user experience, introducing several frameworks for web systems development.

ASSESSMENT

Compulsory assigmnents must be passed before sitting the exam.
4 hours written exam. Grading A-F.

PREREQUISITES

Introduction to web application development.

KEY INFORMATION

- Language of instruction: English

- Course code: MOD250

- Credits: 10 ECTS

- Course start: Primo January 2015

- Duration: 1 semester

CONTACT INFORMATION

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

PROGRAMMING IN C++ AND ALGORITHMS

COURSE DESCRIPTION

This is an advanced course in object oriented programming, using C++. The course focuses on problem solving, building modular systems, graphical user interfaces, as well as typical language properties of C++ like pointers, operators and memory management. It also covers practical implementation of relevant algorithms as part of a software system.

ASSESSMENT

Compulsory assigmnents must be passed before sitting the exam. 4 hours written exam. Grading A-F.

PREREQUISITES

Algorithms and data structures. Good knowledge of object oriented programming, e.g. in Java.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: DAT105**

- **Credits: 10 ECTS**

- **Course start: Primo January 2015**

- **Duration: 1 semester**

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 specification, 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: DAT190**

- **Credits: 20 ECTS**

- **Course start: January 2015**

- **Duration: 1 semester**

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 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: August 2014**
- **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 in, 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 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 2015

- Duration: 1 semester

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.

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 oral or 4 hours written exam. Grading A-F.

TARGET GROUP

Master students 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: August 2014
- 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.

TARGET GROUP

Master students and 3rd or 4th year Bachelor students within Software Engineering or Computer Science.

KEY INFORMATION

- Language of instruction: English

- Course code: MOD351

- Credits: 10 ECTS

- Course start: August 2014

- 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.

TARGET GROUP

Master students and 3rd or 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 2015**
- **Duration: 1 semester**

CONTACT INFORMATION

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

3D MODELING AND FINITE ELEMENT METHOD

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: MAS101**

- **Credits: 10 ECTS**

- **Course start: August 2014 and primo January 2015**

- **Duration: 1 semester**

CONTACT INFORMATION

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

MATERIAL SCIENCE AND CHEMISTRY

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: MAS106**
- **Credits: 10 ECTS**
- **Course start: August 2014 and primo January 2015**
- **Duration: 1 semester**

CONTACT INFORMATION

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

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: MAS128

- Credits: 10 ECTS

- Course start: Primo January 2015

- Duration: 1 semester

CONTACT INFORMATION

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

INNOVATION AND ENTREPRENEURSHIP

COURSE DESCRIPTION

The aim of the subject is to provide students with an understanding of the challenges involved when 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 the students' 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.

The business plans are written in groups. We try to enroll exchange students in groups together with the Norwegian students.

ASSESSMENT

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

TARGET GROUP

Bachelor students in business or engineering with an interest in innovation and entrepreneurship.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ØAA115**
- **Credits: 7,5 ECTS**
- **Course start: August 2014 and primo January 2015**
- **Duration: 1 semester**

CONTACT INFORMATION

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

PROJECT MANAGEMENT

COURSE DESCRIPTION

The aim of this course is to provide students with knowledge of management through understanding and work with projects. The knowledge is based on learning, development, and change perspectives in relevant projects. The class gives a holistic introduction to the ABC of project work and will include both lectures and work in real projects.

Some course details:
- Organizing projects
- Tools for project management
- Management styles and management roles
- Groups, teams, and team development processes

ASSESSMENT

Written exam. Group project report, accounts for 60% of grade. Grading A-F. Group oral exam, accounts for 40% of grade.

TARGET GROUP

Bachelor students in business or engineering with an interest in project management.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ØAA111**
- **Credits: 7,5 ECTS**
- **Course start: August 2014**
- **Duration: 1 semester**

CONTACT INFORMATION

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

CONSUMER BEHAVIOUR

COURSE DESCRIPTION

The aim of this course is to provide students with a thorough understanding of some of the main theories and principles for buyer behaviour, and to learn how these concepts relate to the practice of marketing.

Some course details:

- Motivation and involvement
- Perception, personality, learning, attitudes
- Group dynamics and reference groups
- Social class
- Culture and sub-cultures
- The Consumer's decision making process

ASSESSMENT

Written exam, 4 hours, grading A-F.

TARGET GROUP

Bachelor students in Business Administration in general and others who are interested in product development based on understanding of the consumer.

PREREQUISITES

Introduction course in Marketing Management.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ØAM111**
- **Credits: 7,5 ECTS**
- **Course start: August 2014**
- **Duration: 1 semester**

CONTACT INFORMATION

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

INNOVATION AND CHANGE MANAGEMENT

COURSE DESCRIPTION

The aim of this course is to provide students with the necessary knowledge and skills to actively participate in innovation and change processes in an organization. The classes will have a practical approach, using cases to illustrate change and methods for change and innovation.

Some course details:

- Management theories and strategies
- The age of innovation
- Innovation in existing companies, creating value, entrepreneurship
- Systems for innovation, clusters, and value chains
- Innovation in Norwegian companies
- Coaching and self-management
- Organizational development and organizational learning
- Resistance to change

ASSESSMENT

Written exam, 4 hours, grading A-F.

TARGET GROUP

Bachelor students in Business Administration.

PREREQUISITES

Introduction courses in Organization Theory and introduction course in Strategic Management.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ØAA113**
- **Credits: 7,5 ECTS**
- **Course start: August 2014**
- **Duration: 1 semester**

CONTACT INFORMATION

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

CHEMOMETRICS

COURSE DESCRIPTION

The course provides an introduction to central multivariate methods applied to spectroscopic, chromatographic, and process chemistry data from e.g., the oil/gas industry, pharmaceutical industry, and environmental surveillance. Central subjects are experimental planning using experimental design, multivariate regression, optimisation, and latent variable modelling (exploration, classification, prediction).

ASSESSMENT

Written exam. Grading A-F.

ADMISSION REQUIREMENTS

General admission requirements.

TARGET GROUP

2nd year Chemical Engineering students.

PREREQUISITES

Basic courses in Mathematical Analysis, Discrete Mathematic, Linear Algebra and Statistics.

KEY INFORMATION

- Language of instruction: English

- Course code: TOK007

- Credits: 10 ECTS

- Course start: Primo January 2015

- Duration: 1 semester

CONTACT INFORMATION

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

BACHELOR PROJECT IN CHEMICAL ENGINEERING OR ENVIRONMENTAL TECHNOLOGY

COURSE DESCRIPTION

Students will learn to work both independently and as a member of a group on a relevant engineering project, which should be problem or method based. The project should involve theoretical knowledge and practical skills that have been acquired from central parts of the syllabus. The project will normally be carried out in co-operation with a private company or national/regional research institution. Projects linked to the institute's research and development interests are also possible.

ASSESSMENT

Grading Pass/Fail.

ADMISSION REQUIREMENTS

General admission requirements.

TARGET GROUP

3rd year Engineering students.

PREREQUISITES

120 ECTS credits including all credits from the first year.

KEY INFORMATION

- Language of instruction: English

- Course code: KJE150

- Credits: 20 ECTS

- Course start: January 2015

- Duration: 1 semester

CONTACT INFORMATION

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

PRACTICAL TRAINING IN BIO-MEDICAL 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 presentation. 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: August 2014**
- **Duration: 3 months**

CONTACT INFORMATION

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

INSTRUMENTATION AND DATA NETWORKS

COURSE DESCRIPTION

As the title indicates, the subject is divided into two modules, respectively instrumentation and computer networks.

Within the instrumentation module the subjects are accuracy, noise, dynamic characteristics, and reliability in measurement systems. Furthermore, sensing elements, signal adaptation, signal processing, and data presentation are covered. Finally, specialized measurement systems, such as temperature gauges, flow meters, optical measurement systems, and intrinsically safe systems are covered.

In computer networks, fundamental principles, such as transmission medium, modulation techniques, the OSI model, network components, and communication protocols are discussed. Finally, the principles of TCP/IP-based data networks and various industrial networks, such as Profibus and Modbus reviewed.

ASSESSMENT

Written exam. Grading A-F.

TARGET GROUP

2nd year students from all specializations in Electrical Engineering.

PREREQUISITES

Basic mathematics for engineers, Advanced mathematics for engineers, Basic electrical engineering, Advanced electrical engineering.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ELE109**
- **Credits: 10 ECTS**
- **Course start: January 2015**
- **Duration: 1 semester**

CONTACT INFORMATION

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

HW/SW EMBEDDED FPGA SoC DESIGN

COURSE DESCRIPTION

The course uses FPGA technology to design Embedded Systems. This involves setting up a computer-architecture with a CPU and peripherals, as well as Hardware design in VHDL and software design in C.

The course starts out with general FPGA design where the focus is the constraints given when designing real-life applications. Further, the focus is on the physical and logical elements that are important for an Embedded System. Deployment of a lightweight OS on an Embedded Platform is also touched.

Practical experience in designing Embedded Systems is gained through several laboratory exercises and one larger project assignment.

ASSESSMENT

Written exam. Grading A-F.

TARGET GROUP

Students in Electronics.

PREREQUISITES

Course in digital design with VHDL/Verilog, course in C/C++ coding.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ELE113**
- **Credits: 10 ECTS**
- **Course start: August 2014**
- **Duration: 1 semester**

CONTACT INFORMATION

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

CONTROL SYSTEMS ENGINEERING 1 WITH PHYSICS

COURSE DESCRIPTION

The course covers basic principles of modeling, simulation, analysis, and design of control systems applied to feedback systems with one input and one output.

The course addresses topics from classical physics such as mechanics, fluid mechanics, thermodynamics, and electromagnetism in order to form a scientific foundation for other technological subjects.

At the end of the course the candidate has knowledge of the mathematical description, analysis and design of stable dynamic processes, and systems including basic design of control systems using a controller, master the basic control theory, and the use of relevant instruments and software. The candidate can also apply physical principles of mechanics, fluid mechanics, and thermodynamics, work in a structured and targeted manner both independently and with others in control systems engineering projects.

ASSESSMENT

Written exam, grading A-F

TARGET GROUP

2nd year students from all specializations in Electrical Engineering.

PREREQUISITES

Basic mathematics for engineers, Advanced mathematics for engineers, Basic electrical engineering, Advanced electrical engineering.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: ELE104**

- **Credits: 10 ECTS**

- **Course start: August 2014**

- **Duration: 1 semester**

CONTACT INFORMATION

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

CONTROL SYSTEMS ENGINEERING 2

COURSE DESCRIPTION

The course covers more advanced principles based on state space representation that are employed in modeling, analysis, simulation, and design of multivariable control systems applied to systems with more inputs and outputs, and basic discrete (digital) control systems. Topics such as systems of linear differential equations, transition matrix, decoupling, canonical forms, linear approximations of nonlinear processes, linearisation, stability of feedback systems, frequency domain based synthesis of feedback systems, PID controllers and cascade control, and basics of discrete (digital) control of continuous systems are addressed.

At the end of the course the candidate knows how to apply mathematical description of continuous multivariable processes based on state space representation using the controller and observer design, and also knows how to analyze control issues and dynamic process properties. The candidate is able to design multiple PID controllers and tune controller parameters, and to use relevant instruments and software. The candidate is able to work in a structured and targeted manner both independently and to be active in larger projects in control systems engineering.

ASSESSMENT

Written exam, grading A-F.

TARGET GROUP

2nd year students from all specializations in Electrical Engineering.

PREREQUISITES

Basic mathematics for engineers, Advanced mathematics for engineers, Basic electrical engineering, Advanced electrical engineering.

KEY INFORMATION

- Language of instruction: English
- Course code: ELE106
- Credits: 10 ECTS
- Course start: January 2015
- Duration: 1 semester

CONTACT INFORMATION

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

NETWORK PROGRAMMING AND SYSTEM DEVELOPMENT

COURSE DESCRIPTION

The students learn to program devices that are connected by an IP network. Furthermore, the students learn methods and tools for developing systems that include interacting and communicating components. The first part of the course introduces the general programming methods and in the final part of the course the students apply the skills in Android programming.

The course topics:
- Thread programming, synchronization of threads
- Use of TCP and UDP APIs
- Client and server programming
- Servlets
- UML modelling
- Design patterns for network
- File Management
- Programming mobile devices with Android

ASSESSMENT

Oral exam. Grading A-F.

TARGET GROUP

2nd year students from all specializations in Electrical Engineering.

PREREQUISITES

Object oriented programming skills.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: ELE122**

- **Credits: 10 ECTS**

- **Course start: January 2015**

- **Duration: 1 semester**

CONTACT INFORMATION

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

NETWORK TECHNOLOGY

COURSE DESCRIPTION

The course covers topics related to the design, development, and configuration of IP based networks. Both theoretical and laboratory activities are components in the course.

The following topics are covered:
- Routers: Design, connectivity, IP addressing and subnetting, configuring routers, routing protocols, and the use of these in networks
- Switching: the role of switches in networks, design, configuration of L2 switches
- WAN technologies
- Network Security
- Introduction to IPv6 technologies

ASSESSMENT

Written exam, two written, one hands on. Grading A-F.

TARGET GROUP

2nd year students from all specializations in Electrical Engineering.

KEY INFORMATION

- **Language of instruction: English**
- **Course code: ELE118**
- **Credits: 10 ECTS**
- **Course start: January 2015**
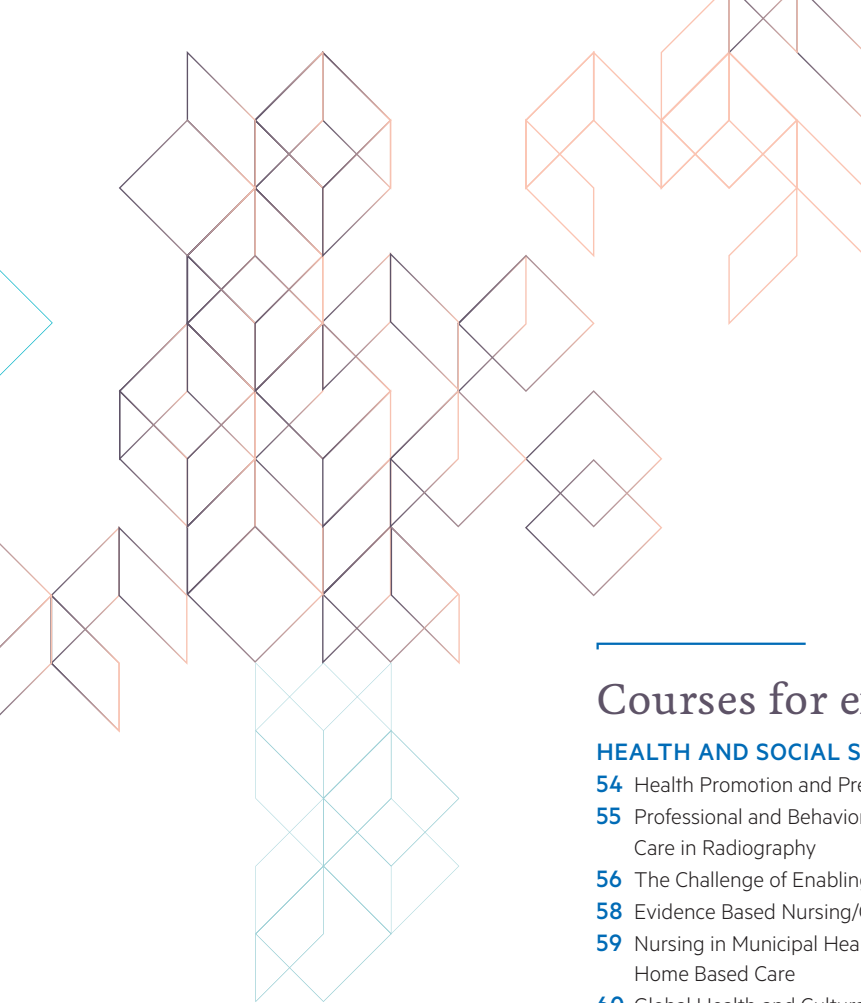- **Duration: 1 semester**

CONTACT INFORMATION

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

Courses for exchange students

HEALTH AND SOCIAL SCIENCES

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 human 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 centered around specific projects and includes fieldwork. In the projects, focus is on physical activity as the means used to promote health. 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

Compulsory assignments must be passed in order to sit for the exam. The 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 2015**

- **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. The students 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 2015**

- **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
- Hand injuries and splints

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: March 2015**
- **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 or 3rd year Bachelor students in Nursing.

KEY INFORMATION

- **Language of instruction: English**

- **Course code: BSS4**

- **Credits: 5 ECTS**

- **Course start: February 2015**

- **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 8 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 2015**

- **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 2015**
- **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 theoretical 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 video conferences, 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 theoretical course Crossing Borders can be complemented by a practical placement of 15 ECTS.

At the end of BSVCBE 2 there is an intensive week in one of the participating institutions.

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 Community Studies.

KEY INFORMATION

- Language of instruction: English

- Course code:
  BSVCBE1: 5 ECTS
  BSVCBE2: 10 ECTS
  BSVCBP: 15 ECTS (Practical Placement is arranged both in Autumn- and Spring semester)

- Course start: September 2014

- 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 portofolio 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 2014 and BSO214B November 2014**

- **Duration: 5 months**

CONTACT INFORMATION

International Office
e-mail: international@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 portofolio 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: January 2015**

- **Duration: 5 months**

CONTACT INFORMATION

International Office
e-mail: international@hib.no
www.hib.no/english
or
Course coordinator:
anne.karin.larsen@hib.no

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: August 2014 and primo January 2015
- Duration: 4 semesters (2 years)
- Joint degree with University of Bergen
- Application deadline: 1 December

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 2015**

- **Duration: 1 semester part time**

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.

ASSESSMENT

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, including 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 2014**

- **Duration: 2 years part time**

- **Application deadline: 1 June 2014**

CONTACT INFORMATION

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

HØGSKOLEN I BERGEN

BERGEN UNIVERSITY COLLEGE

INTERNATIONAL OFFICE

✉ international@hib.no

🔗 hib.no/english

APPLICATION DEADLINE

For autumn term exchanges: 1 April 2014
For spring term exchanges: 1 October 2014

HOW TO APPLY

Please download our application form:

🔗 hib.no/english

BERGEN UNIVERSITY COLLEGE

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