



JÖNKÖPING INTERNATIONAL
BUSINESS SCHOOL
JÖNKÖPING UNIVERSITY

PROGRAMME SYLLABUS **Preliminary, not confirmed**

IT, Management and Innovation (Two Years), 120 credits

Valid From: 2012-08-20



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Programme code: JAIM2

Valid From.: 2012-08-20

Confirmed by: Not confirmed

Education Cycle: Advanced level

Version: 1

Title of qualification

Filosofie masterexamen med huvudområdet informatik 120 hp

Master of Science (120 credits) with a major in Informatics

Objectives

General aims

Second cycle education shall essentially build on the knowledge students acquire in first cycle education or corresponding knowledge. Second cycle education shall involve a deepening of knowledge, skills and abilities relative to first cycle education and, in addition to what applies to first cycle education, shall;

- further develop the students' ability to independently integrate and use knowledge,
- develop the potential for professional activities students' ability to deal with complex phenomena, issues and situations, and
- develop the students' es that demand considerable independence or for research and development work

Program specific aims

Knowledge and understanding

For a Degree of Master (120 credits) students must

- demonstrate knowledge and understanding in their main field of study, including both broad knowledge in the field and substantially deeper knowledge of certain parts of the field, together with deeper insight into current research and development work; and
- demonstrate deeper methodological knowledge in their main field of study.

Skills and abilities

For a Degree of Master (120 credits) students must

- demonstrate an ability to critically and systematically integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even when limited information is available;
- demonstrate an ability to critically, independently and creatively identify and formulate issues and

to plan and, using appropriate methods, carry out advanced tasks within specified time limits, so as to contribute to the development of knowledge and to evaluate this work;

- demonstrate an ability to clearly present and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups, orally and in writing, in national and international contexts; and
- demonstrate the skill required to participate in research and development work or to work independently in other advanced contexts.

Judgement and approach

For a Degree of Master (120 credits) students must

- demonstrate an ability to make assessments in their main field of study, taking into account relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects of research and development work;
- demonstrate insight into the potential and limitations of science, its role in society and people's responsibility for how it is used; and
- demonstrate an ability to identify their need of further knowledge and to take responsibility for developing their knowledge.

Independent project (degree project)

For a Degree of Master (120 credits) students must

- have completed an independent project (degree project) worth at least 30 credits in their main field of study, within the framework of the course requirements. The independent project may comprise less than 30 credits, but not less than 15 credits, if the student has already completed an independent project at the second level worth at least 15 credits in their main field of study, or an equivalent project in a foreign educational programme.

Contents

The masters programme IT, Management and Innovation (Two Years) provides a deepening education in the field of informatics for those already holding a bachelor degree and having a substantial amount of informatics, business administration, computer science, computer engineering, or information engineering education in their undergraduate studies.

The programme focuses specifically on the role of the chief information officer (CIO) in the executive management team. The programme aims after one year to provide its students with managerial competencies in areas where information technology is a driving force for successful business creation and operation. In the second year the programme aims to further deepen the students' competencies in the area of informatics, focusing on more independent and critical research skills in the area of information management.

Information systems and business applications are essential parts of business processes and innovations currently. Nearly all business possibilities, traditional as well as emerging are enabled by information technology (IT) and therefore put new demands on how to coordinate and manage business development with IT.

IT systems are no longer isolated support functions, rather they function as key assets within a business context of an enterprise and are operated by the enterprise personnel. This programme focuses key managerial factors for organizations and their use of information systems in order to gain competitive advantage, particularly highlighting the innovative aspects of IT as an enabling technology in creating new business opportunities. The programme emphasizes the combination of issues concerning business processes, the networked society and the human use of IT.

Issues addressed in the program are as follows:

- Entrepreneurship and business creation
- Innovation and information management
- IT Performance management
- Strategic renewal
- Enterprise modeling

The programme includes seven mandatory courses held in the autumn and spring semesters of the first year and three mandatory courses in the spring of the second year, as described in the Contents section below. These courses include two 15-credit thesis courses in the last semester of each year. The autumn semester of the second year consists of 30 elective credits, in Jönköping University courses or courses abroad.

All courses are taught in English. Due to the fact that Jönköping International Business School (JIBS) has an exchange programme including about 200 partner universities, and the fact that this masters programme and a number of other masters programmes at JIBS are open to students from around the world, the courses have a diverse international participation of students. The international atmosphere is reinforced with international subject matter in this programme, in particular its consideration of how to deal with opportunities being made available due to the breaking of international barriers through information systems. Students in this programme can have even more international exposure by taking advantage of the third-semester opportunity to study abroad through the exchange programme.

The education is meant to prepare the students for work in business positions that require contributions for strategic decision-making on information systems, e.g. CIO or advisor to a CIO. The education is also meant to prepare students for research in informatics, within doctoral studies perhaps.

Mandatory courses

Course Name	Credits	Main field of study	Specialised in	Course Code
Creating a New Venture	7.5	Business Administration	A1N	JCNR21
Enterprise Modelling	7.5	Informatics	A1N	JEMD27
Entrepreneurial Performance Management and Information Technology	7.5	Informatics	A1N	JEIR21
Information Management	7.5	Informatics	A1N	JIMR21
Information Technology and Innovation Management	8	Informatics	A1N	JBID27
Introduction to Business Creation	7.5	Business Administration	A1N	JIOD29
Master Thesis in Informatics	15	Informatics	A1E	JMIT21
Master Thesis in Informatics (2nd Year)	15	Informatics	A2E	JMIV21
Research Methods in Informatics and Computer Science	7.5	Informatics	A1N	JCOD27
Societal and Industrial Evolution in the Connected (IT) Economy	7.5	Informatics	A1N	JSID27

Elective credits

Electives (including study abroad or internship)

Programme overview

Year 1

Semester 1		Semester 2	
Period 1	Period 2	Period 3	Period 4
Information Technology and Innovation Management, 8 credits	Creating a New Venture, 7.5 credits	Enterprise Modelling, 7.5 credits	Entrepreneurial Performance Management and Information Technology, 7.5 credits
Introduction to Business Creation, 7.5 credits	Information Management, 7.5 credits	Master Thesis in Informatics, 15 credits	

Year 2

Semester 3		Semester 4	
Period 1	Period 2	Period 3	Period 4
Optional credits, 30 credits		Research Methods in Informatics and Computer Science, 7.5 credits	Societal and Industrial Evolution in the Connected (IT) Economy, 7.5 credits
		Master Thesis in Informatics (2nd Year), 15 credits	

Teaching and examination

To pass a course, the student needs to fulfill all the course requirements. Examination will be executed by written exam, oral exam or term papers. Different methods of examination can be used within a single course. The student will be offered at least three examination opportunities in each examine section. The university is not obligated to offer re-exams in courses a student has already passed. Mandatory workshops and assignments can figure within the frame of the course.

All courses will be graded. Students are objected for two grading systems, the Swedish national system and the ECTS system. According to the Swedish national system a triple scale is used, Pass with distinction (VG), Pass (G) and Fail (U). According to the ECTS system A-E all constitute Passed and FX is equal to Failed.

For most workshops and mandatory assignments, only Pass or Fail is given.

Prerequisites

The applicant must hold the minimum of a bachelors degree (i.e the equivalent of 180 credits at an accredited university) with at least 60 credits in informatics, business administration, computer science, computer engineering, information engineering, or equivalent.

Credit Transfer

As from 1 July 2007, a new education and exam structure was implemented

A student commencing studies before 1 July 2007 has the right to graduate according to the old system by 30 June 2015.

A student who wishes to accredit earlier education and activities to be included in the programme degree, should contact the Academic Registrar

Continuation Requirements

To be eligible for study abroad, the student should, at the time of the study abroad application, have completed at least 75 percent of the programme course credits.

The following requirement need to be met for students to proceed to the next academic year within the program.

For academic year 2 and 3:

- within the program not fall behind more than 30 credits.

Qualification Requirements

To obtain the Master of Science (120 Credits) with a major in Informatics, the student must complete the course requirements of at least 120 credits at the higher education level that were not used for the bachelor degree, with at least 90 credits overall in second-cycle courses and at least 60 of those second-cycle credits in informatics, and furthermore the following courses must be completed: IT and Innovation Management (7.5 credits), Information Management (7.5 credits), Master Thesis in Informatics (15 credits A1E level), and Master Thesis in Informatics (Two Years) (15 credits, A2E level).

Quality Development

Our cooperation with JSA, the student organization, is crucial. This work is conducted on two levels, programmes and courses.

Programme level

On the programme level students elect student representatives for each track of the programme and each study year of the program. The student representatives and the programme managers meet regularly to discuss courses and the progress of the programme. The representatives stay in contact with course coordinators to share the overall impression and student experiences from courses. In addition, the programme manager, student representatives, JSA and faculty meet annually to discuss the entire programme.

Course level

On the course level, student representatives from the course and the course responsible meet shortly after the course has started. The purpose is to ensure that the course is working well and if necessary make minor changes. After each course is finished all students perform course evaluations in PingPong, and student representatives evaluate the course on the aggregate level and communicate with the programme manager and the course responsible.

Other Information

Additional information, regarding the programme, will be presented on JIBS homepage before each application period.