



**Computing
Professionals**
from the University
of Jyväskylä

Studying computer science at the University of Jyväskylä has guaranteed employment in the recent years, often even before graduation. We hope that in the coming years more students will continue their studies in graduate schools all the way to doctoral level before seeking employment.

What kind employment do the students then seek? Many of the students start off by programming network applications, or by designing information systems. As they develop their skills, they often find themselves in higher positions, such as project manager, or product manager, and after that they might well advance to become team or department managers, or even managers in charge of the information management of an entire organization. Some might also choose to work as international consultants.

In these positions, the language studies and business minors included in the computer science degree really can come in handy. If you are aspiring to establish a business of your own, then our software business or electronic commerce programme would be a good choice. On the other hand, if you feel that you are most comfortable working with developing information systems, then you might want to consider choosing either the information systems or software development programmes, or the programme of user-friendly IT, which emphasizes applied cognitive sciences. If you want to learn how organizations use information systems, choose the group technologies programme, or if you wish to look at communication issues and internet technology aspect of organizations, you might want to choose the digital media programme. You can further customize your studies, by focusing for example on how technology is used in education and choosing a minor subject in education.



Pasi Tyrväinen, Professor, Head of Department 2001, Computer Science and Information systems

Even though close to four hundred new students begin their studies in the Faculty of Information Technology every year, there is more to life here than just computers and science. The university campus, with its 14 000 students, located close to the center a city of 80 000 inhabitants, provides a great variety of activities - that is, unless you are spending all your free time working in one of the 150 IT companies in the area.

I wish to welcome you to study and do research!

A handwritten signature in blue ink, appearing to read 'Pasi Tyrväinen'.

As a computer science student, you can graduate either as a Master of Economics, or as Master of Arts, depending on which minor subjects you select. Studying at a university allows you freedom in selecting your minor subjects, thus allowing you to develop your competence in many different areas.

Usually when you start your studies, you acquire basic skills in computing and programming and get to know the opportunities for using information technology in organizations. During the second year of studies, you learn about the methods and technology utilized in the different study programmes. In the third year, you can participate in one of the development projects commissioned by companies, allowing you to apply the technology and methods you've learnt in practice. Your studies are completed by various specialized courses together with your thesis.



Why should you study in Jyväskylä with us?

- The University of Jyväskylä is Finland's most popular university. 14 000 students study in the seven faculties, with close to 1500 in the Faculty of Information Technology. Four internationally renowned, top research units also operate in the university. The university cooperates with more than a thousand universities around the world, with an active student exchange programme as well. (<http://www.jyu.fi/>)
- The Faculty of Information Technology is located in Agora, a modern gathering place for human centered information technology, built in 2000 on the shores of Lake Jyväsjärvi. Agora is a new kind of center for teaching, research and product development, also housing several IT companies and multidisciplinary research projects.
- Jyväskylä is a small metropolis, and growing quickly too: Close to 130 000 inhabitants live in the Jyväskylä area, and of the inhabitants of the actual city, approximately half, or 40 000 inhabitants are students. (<http://www.jyvaskyla.fi/international/>)
- Jyväskylä provides year-round experiences and activities. Jyväskylä is a top sporting town and is known for its rich variety of events. Here you will find activities to suit every taste. In addition, Dumppi, the active student association for computer science, arranges a variety of student activities for computing students. (<http://www.dumppi.fi/>)
- Jyväskylä is also a national IT center of excellence. Second only to Helsinki in percentage in company job openings, information technology graduates can choose from a large variety of employment opportunities. The development project, which is part of your studies, enables you to make contact with the business sector already during your studies.
- See <http://www.cs.jyu.fi> for more good reasons.

After the second year of your studies, you can choose from one of the following programmes:

Information Systems programme (IS) Students become familiar with designing and implementing information systems, as well as with management of information systems. Graduates find employment, for example, as managers of information systems development projects, information management managers, as entrepreneurs, consultants or as teachers. (<http://www.cs.jyu.fi/tj/>)

Electronic Commerce programme (EC) Students acquire skills to develop electronic commerce and to design and implement information systems supporting eCommerce. Graduates often work as electronic commerce system designers, consultants or teachers. (<http://www.cs.jyu.fi/el/>)

Digital Media programme (DM) Combining expertise in both information systems and communication, students learn how to manage diverse information and computer-supported communication in organisations. Graduates often work as experts in positions related to organisational information management, product development, and training and research. (<http://www.cs.jyu.fi/dm/>)

Group Technologies programme (GT) Group Technologies (GT) focuses on computer networks as a medium that supports and facilitates interaction, collaboration, cooperation, coordination, and control of work. The programme aims to equip students with skills that allow them to work for example as Internet, intranet and extranet experts. (<http://www.cs.jyu.fi/rt/>)

User-friendly Information Technology Programme (UF) The program combines both cognitive theory and computer science in a unique way. Graduates have a thorough understanding of computer science, but in addition also understand the cognitive processes that must be taken into consideration when designing interfaces for information systems. (<http://www.cs.jyu.fi/ky/>)

Software Production programme (SP) Those specialising in software production will become familiar with the tasks and problems in the implementation and maintenance phases of the software life cycle, but also with producing standalone software. Graduates often work as managers of large software projects, as software designers, or as consultants or teachers. (<http://www.cs.jyu.fi/ot/>)

Software Business programme (SB) Students get a broad and multi-disciplinary view of the main areas of software business and the critical success factors related to them. After graduating students can create careers as independent entrepreneurs and consultants or as professionals in productizing and commercializing new software technologies (e.g., business development, product development and product managers.) (<http://www.cs.jyu.fi/sb/>)



In addition to lectures like the one pictured above, studying also includes tutorials, group assignments and computer class sessions.

There are three different paths for gaining admission to study computer science:

- **Direct admission** is granted to students whose first study choice is information systems science, and who gain a sufficient number of points based on their matriculation exam and secondary school certificate of graduation (check the required amount from <http://www.infotech.jyu.fi/uk/index.html>). In addition, students who rank among the top ten in either the MAOL computing competition, or the science competition held by the Academy of Finland, are also granted direct admission.
- **Based only on the entrance exam**
- **Based on the selection points** (points for certificate of graduation + entrance exam points)

If you have less than the minimum number of points required for direct admission, or you chose computer science as your secondary study alternative, you should take part in the entrance exam, but will not be sent a separate invitation.

The University of Jyväskylä study guidebook is published every January. You can order a copy along with application forms from <http://www.infotech.jyu.fi/uk/index.html>, or by phoning +358 14 260 1074, or by mail:

University of Jyväskylä
Po Box 35
40351 Jyväskylä
Finland

**The deadline for applications is in May and the entrance exam is held in June.
For exact dates, see the faculty web pages:
<http://www.infotech.jyu.fi/uk/index.html>**

The faculty also accepts conversion students via a separate selection procedure. Conversion students are full-time students and graduate in 2-4 years, depending on their existing education.

Applicants must have completed a sufficient amount of university level studies. An applicant can also already have a higher university degree. Previous studies must include at least 15 credits of approbatur level basic studies in computer science with at least a grade of HT (good).

The conversion programmes are information systems science (economic approach, IS, SP, EC, DM, GT, SB, UF programmes) and computer science (natural science approach, IS, SP, DM, GT, UF programmes).

The software business programme also accepts marketing students, and students majoring in psychology are accepted into the user-friendly IT programme. These students must meet the study requirements of their corresponding faculties, and their studies in the Information Technology Faculty are included as minor subjects. The master's thesis in the major subject must be related to courses taught at the Faculty of Information Technology.

Applications should be sent directly to the faculty:
University of Jyväskylä,
Faculty of Information Technology,
Po Box 35 (Agora),



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