Fontys University ICT College

BACHELOR INFORMATION & COMMUNICATION TECHNOLOGY

Eindhoven
Full-time

2012 – 2013

ICT & SOFTWARE ENGINEERING
ICT & BUSINESS
ICT & TECHNOLOGY
BACHELOR - MASTER TRACK

ALL PROGRAMMES ARE TAUGHT IN ENGLISH

Fontys University of
Applied Sciences

fontys.edu

FROM MY OWN EXPERIENCE

The Education I always wanted to have.

I am an engineering student from Turkey. I always wanted to work in the field of ICT, but my university education was in a different subject. I taught myself how to program and started doing freelance projects for small companies. However, after some years of work I felt the need to improve myself further, in order to work on more satisfying projects.

When I found out about the Fontys ICT program, and learned about conditions and options offered by Fontys, I immediately applied to be enrolled in ICT studies.

Being a foreigner and having no idea about how the system works, I thought all the application process and getting the permits would be difficult. I was very surprised that the whole process was very easy for me and I get great help and guidance from the ICT department.

In Fontys, there is always somebody to help you. Adapting to a different style of teaching that emphasizes practical work, and encourages students to undertake research, would be very difficult if I didn't get all the help from our teachers.

One of the highlights of my experience was being a student assistant on my second year. When I was helping new students with their practical work, I realized how much I had learned in just one year and how great the curriculum is for anyone with no previous experience in IT.

It's a lot of work but I couldn't possibly get to the point where I am now in just two years without Fontys ICT program. Signing up for it was one of the best decisions I have ever made.

Efe Mumoglu

I THOUGHT ALL THE APPLICATION PROCESS AND GETTING THE PERMITS WOULD BE DIFFICULT

THINK BIGGER

Study in the Netherlands

About The Netherlands
The Netherlands is about 41,000 square kilometres in area, and has a population of around 16 million. With a rich cultural heritage, the country boasts many of history's most famous names in the fields of art, literature, philosophy and science. It also has a long history of international trade, forging links with countries across the world from as early as 1600, bringing together new knowledge, skills, business and ideas. The warm welcome we give to the rest of the world has earned us a well-deserved reputation for openness in business, as well as cultural and social life.

Holland, or The Netherlands? The country's formal name is 'Nederland' (The Netherlands), meaning the 'low country' or the 'lowlands'. 'Low' because much of the land is at or below sea level. Holland is in fact the name of the western part of the country which is the most heavily populated of all the provinces, encompassing Amsterdam, Rotterdam and The Hague. However, Holland is also commonly (and mistakenly) used to refer to The Netherlands as a whole, including all 12 provinces that make up the country.

The south of The Netherlands borders on Belgium and Germany, with the rest of Europe within easy reach by car or the country's excellent public transport system. Our multinational population presents a rich mix of different cultures, each characterised by the tolerance for which the Dutch are famous. When you study in the south of the country, you will quickly learn that we have so much more to offer than windmills, tulips, cheese and clogs. Of course you should take time to explore those aspects too!

How to find Fontys University ICT College?
This university college is located in Eindhoven. Eindhoven is situated in the south-eastern region of the Netherlands. Eindhoven is well-known for its high tech companies and knowledge of electronics, ICT (Philips), mechanics (DAF) and mechatronics (ASML). Within a radius of 10 km around Eindhoven, you can find many suitable companies for internships, graduation assignments and employment. Because of all this technology the area is called "The Brainport" of the Netherlands.

Characteristics:
- You will be joining an excellent ICT-programme
- You are opting for a future (inter) national career in ICT!
- You will develop your intercultural competences!
- You will gain real-life experience during 2 internships in international companies

Content

Fontys University of Applied Sciences offers a wide range of excellent Bachelor programmes, mainly in the Dutch language. By establishing Fontys University ICT college, Fontys has succeeded in further widening the choice for students looking for top quality university education in the Netherlands. Fontys University ICT College meets a demand within the Netherlands and abroad for Bachelor-level programmes taught completely in English.

The Bachelor programmes have a clear and transparent structure with about 20 lessons per educational week. Students are placed in year groups which do not change and learning modules are given by qualified teachers. Each student will receive support and advice from a personal study counsellor. All Bachelor programmes are officially accredited and our degrees are recognized all over the world. As an international student you will develop excellent ICT skills and you will develop your abilities to interact effectively with people from other cultures and countries.

Practical orientation
Teaching at our university is always influenced by developments in society and on the labour market. The programmes are highly practical. The English programmes make use of a variety of learning methods. Lectures, classes, project- and competency based learning go hand in hand with practical sessions and self-study modules, stimulating you as a student to become responsible for your own education and career planning. The student is guided, counselled and trained by excellent teachers to finally become an all-round professional. During the courses you will complete traineeships (or internships) in which you prove that you can analyse, tackle and solve problems in the wide field of ICT.

Bachelor ICT & Software Engineering

This 4-year study programme is an international programme, leading to the international Bachelor degree in ICT. It is a university programme conducted in English intended for the professional field of Software Engineering. With the knowledge and skills found at Fontys University of Applied Sciences, in the faculty of ICT students can work as high-level engineers in the ICT sector. This programme leads to the International Bachelor degree Information & Communication Technology (croho: hbo-ict).

The Bachelor-Master structure
The Bachelor programmes at Fontys University of Applied Sciences are practical oriented university programmes. Over a period of four years, you develop excellent professional skills and acquire the knowledge you need for your future profession. After obtaining your degree, you may bear the Bachelor title. The majority of graduates enter the labour market, but further study in a master program - either in the Netherlands or abroad - is another possibility.

Short-track programmes
Students coming from a university with a profile in ICT, may enter in year 2, 3 or 4 depending on the match of curricula.

Foundation Year
In the first year ICT offers theoretical subjects and practical laboratory training in several subjects including:
- programming in C++;
- mathematics;
- computer systems;
- databases;
- internet applications;
- communication;

Second Year
In the second year in depth software engineering subjects are given, like:
- Programming in C#
- System Development
- Object Oriented Design
- System Development
- Client Server Application
- Operating Systems

Third Year
In this year students follow a minor of their choice and an internship in an internationally oriented company.

Fourth Year
In the first semester students can choose from a variety of specialisations.
The second semester consists of a graduation project conducted in an internationally oriented company.

FROM MY OWN EXPERIENCE

Culture shock!

I am an International Student from Ghana studying at Fontys University of Applied Sciences Eindhoven. My name is Eugenia Boeh-Ocansey and I am studying specifically, Electrical and Electronic Engineering.

Coming to the Netherlands for me was purely exploratory and was a personal challenge to assimilate a different culture, language and system of education. Of course it was not easy in the beginning. Luckily, though stereotypically the Dutch are deemed rather hoity-toity and less amiable than others, passers-by were rather accommodating and did not hesitate to help me with directions, buying stuff from the market and even buying bus tickets.

But of course, what makes the culture shock less depressing is the fact that in the International Community at Fontys we are introduced to students from all sorts of cultures who go through the exact same "shock". This of course is what gives us our bond and we often share experiences and lessons.

Education at Fontys is one of a kind. It is definitely not what I am used to. When it comes to the Fontys education, repetitive structures and heavily condensed theory is definitely not our style. We are more interested in hands on practice which accelerates our development in the real world of work. We are proud that we can realize what we design. For example in my first year, I already built a 12 volt power supply, an automated garden light system and simulated an elevator. Fontys thrives on team work and helps us to imbibe the spirit of cooperation.

Fontys Engineering motivates me to be independent and to be ambitious, especially because I am a Career Woman in the making!!

Eugenia Boeh-Ocansey

THIS OF COURSE IS WHAT GIVES US OUR BOND AND WE OFTEN SHARE EXPERIENCES AND LESSONS

THINK BIGGER

Bachelor ICT & Business

Nowadays Business processes make use of ICT more and more and Business IT-specialists know how to apply ICT in organizations to achieve their objectives. A Business IT-specialist knows how to analyze organizations and business processes but is also able to give advice on solutions and transfer these solutions into design and – also important – to implement their designs. Business Information Technology is a wide study field focussed on business processes and how to improve these processes by using ICT and also to make them quicker, cheaper and more clientfriendly. A Business IT-specialist can build bridges and knows how to cooperate and communicate: with management and the clients to find out what the organization is looking for. This means working together with ICT-developers who realize the solutions developed by the Business IT-specialist and the users who have to work with them. This programme leads to the International Bachelor degree Information & Communication Technology (croho: hbo-ict). Our students are trained to become all-round IT-experts in Business Information Technology. With the knowledge and skills obtained at Fontys University students can work as high-level Information System Analysts and managers in the IT sector.

Foundation Year
In the first year the programme is the same as for the students who choose ICT & Software Engineering.

Second Year
In the second year subjects such as are given:
• International Business Orientation
• Management
• Economics, Law
• International Marketing
• Export Operations

Third Year
In this year students have a minor of their choice and an internship in an international oriented company.

Fourth Year
In the first semester students can choose from a variety of specialisations. The second semester consists of a graduation project conducted in an internationally oriented company.

Foundation Year
In the first year the programme is the same as for the students who choose ICT & Software.

Second Year
In the second year in depth software engineering subjects are given, like:
• Programming in C#
• Programming in C
• Object Oriented Design
• Embedded Software
• Client Server Application
• Operating Systems

Third Year
In this year students have a minor of their choice and an internship in an international oriented company.

Fourth Year
In the first semester students can choose from a variety of specialisations. The second semester consists of a graduation project conducted in an internationally oriented company.

If you look around you, software is everywhere. Nowadays you will find software in almost every device, from a television to a heart-defribilator and from a watch to an elevator. Within our Bachelor programme ICT & Technology we focus on writing software for all of these devices. You will learn about the complete software life cycle:
• translate the requirements from future users into a software design
• implement the software design with a programming language (e.g. in C#)
• test the code and write user manuals

We will train you to become an expert in software development, especially in the so-called embedded software. This programme leads to the International Bachelor degree Information & Communication Technology (croho: hbo-ict). With your knowledge you will be able to find a job very easily in a technology-oriented, international company in the Netherlands.

Bachelor - Master Track

In the Netherlands we use the so-called two-cycle system of university education that is being introduced across the European Higher Education Area. This two-cycle System consists of two clearly defined cycles: undergraduate (bachelors) and graduate (masters and doctorate). A bachelor's degree is earned after completion of a course of undergraduate study.

A master's degree is earned after completing graduate studies, usually two years after first earning an undergraduate degree. In the Dutch university system bachelor degrees in Information Technology can be obtained through two different tracks:

- A research university bachelor's programme requires 3 years of study (180 credits). Graduates obtain a bachelor of science (BSc) degree.
- A bachelor's degree programme offered by universities of applied sciences requires 4 years of study (240 credits). Graduates obtain a Bachelor of Information & Communication Technology (B ICT).

Differences between the two tracks are:

- Study pace in the research university programme is higher, the curriculum is more theoretical and related to research.
- The bachelor's degree programme offered by universities of applied sciences are practically oriented (including internships in companies) and are related to applied science.

For students who choose to do bachelor and master programmes at research level, we have set up a close relation with Eindhoven University of Technology (TU/e). Because of the arrangements between TU/e and Fontys University of Applied Sciences about mutual referral you can make a choice that really matches your interests and capacities.

We have one common goal: getting you into the most suitable ICT programme.

Foundation Year
The first semester of this programme is partly given by Fontys and partly given by our partner University, Eindhoven University of Technology. After this first semester you will have a good idea about the specific qualities of each University and we will have insight in your academic performance. After this first semester we will decide if you are admissable for our 3 + 2 programme and if so, you have the opportunity to participate in this programme or you can choose to continue the four-year Bachelor programme. To be accepted for this special programme, you need some extra entry-requirements and non-EU students need to pay other tuiton-fees, please check our website for detailed information:
fontys.edu/ICTandEngineering

FROM MY OWN EXPERIENCE

More than meets the eye

My name is Amiril Faradini and I am currently studying in ICT English Stream Fontys Hogeschool Eindhoven.

When I decided to come and study here, people around me gave their full support. To be honest, I didn't really know why at that time. I chose IT because I have an interest in IT, and I chose Europe because I wanted to be independent and experience more positive things. It turns out there is more than meets the eye.

The Netherlands is doing well in sustainability, furthermore Eindhoven is named as 'the smartest region in the world' yet still maintains its traditions. These add to the reasons why I am proud of studying here. Not forget to mention, a good quality of the study program, teaching, study environment, etc in Fontys Hogeschool Eindhoven, supports me to obtain the full advantages of technology in a positive way.

In the end, I am pretty confident with my decision now because my future is in the right hands. And also, until now I experience no big difficulties and experience many great things here. So, what are you all waiting for?

IT TURNS OUT THERE IS MORE THAN MEETS THE EYE

Amiril Faradini

THINK BIGGER

Enrolment / Requirements

Admission requirements
- International Baccalaureate with mathematics;
- General Certificate Secondary Education with mathematics;
- Havo or vwo certificate with mathematics;
- for all equivalent educations, please send us your documents for Diploma assessment.

For non-EU students who didn't follow their secondary school in the English language: IELTS 6.0 or TOEFL 550 score is required.

9 steps to succesful enrolment for International students

1. Application
Send in the application form together with: Certified copies of your diploma(s): in the original language and in English, certified copies of your list(s) of grades: in the original language and in English, a copy of your birth certificate, a copy of your passport, 2 passport sized photo's, original report of TOEFL or IELTS test. Application deadlines: 1 June for September enrolment and 1 November for February enrolment.

2. Diploma evaluation
Fontys University of Applied Sciences will validate your diplomas to see if you can be admitted to the ICT programme. This procedure takes approximately 2 to 4 weeks.

3. Admission
If you can be admitted based on your previous education and you have a sufficient IELTS score (6,0) you will receive an admission letter and an invoice for the tuition fees and if applicable the insurance, housing, visa and residence permit application fees.

4. Payment
You are required to pay your fees before June 15th for September enrolment and before November 15th for February enrolment.

5. Application housing
If you require accommodation and you have paid the housing deposit along with your fees, Fontys will reserve accommodation for you.

6. Visa application (if applicable)
6.1 After receipt of your payment and all necessary documents, Fontys will send your visa application to the Dutch Immigration Office. This procedure takes approximately 2 weeks.
6.2 Visa approval and visit to embassy.
Fontys will inform you as soon as your visa application has been approved. You will then visit the embassy to collect your visa.

7. Book your flight to the Netherlands

8. Apply for a Buddy / pick up service
Fontys has a buddy system and can provide you with a student who can pick you up from the airport or railway station

9. Arrival at Fontys and start of your studies!

Enrolment procedure for Dutch students
Registration to our courses has to be made via studielink.nl

School name	Fontys Hogescholen Eindhoven 30 GB
Place	Eindhoven
Programme	Bacheloropleiding HBO-ICT English Stream 30020

Study costs 2012-2013
For non-EU students: Tuition fees € 5.500,-.
Visa application € 600,-
For EU-students: Tuition fees € 1.713,-

Additional costs
Accomodation approximately € 4.800,-
All-in Insurance € 442,-
Books, readers € 400,-
Departmental fees € 47,-

Scholarships
Talented* non-EU students who start their education (first enrolment) at Fontys University ICT College from September 2011 are offered a Top Talent Scholarship of € 2.000,-.

*talented means: You must have achieved excellent study results in your previous education study results with an average mark of 70% or higher for the science-related subjects.
Visit our website for more information: fontys.edu/ICTandEngineering

Loan for EU- and EEA students
As from September 1st, 2007 EU/EEA students who are not entitled to full funding of their studies for a higher-educational course in the Netherlands are entitled to part of the funding of the 'studiefinanciering', namely the tuition fees borrowed. The loan tuition fees is a monthly loan intended specifically for the payment of the tuition fees. Your loan repayments commence two years after your graduation.
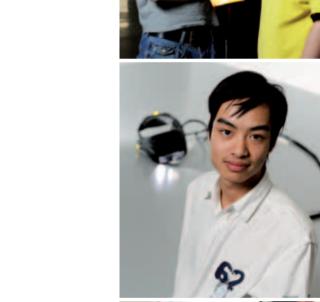
THE DUTCH EDUCATION SYSTEM IS INTERACTIVE AND FOCUSES ON TEAMWORK

Additional information
For most recent information, please visit our website
fontys.edu/ictandengineering

Are you interested in a personal meeting with one of our staff members, to discuss your personal situation and possibility to start your studies in ICT or Engineering, please send us an email at: ICTandEngineering@fontys.nl

The Dutch education system is interactive and focuses on teamwork, which makes it easy to meet other international students. Studying in Holland will develop an open mind and increase your international orientation.

FROM MY OWN EXPERIENCE

American bicycle company back on track!

The love of technology and self-development has brought me to where I am right now. To me, giving a substantial contribution to the technology world has always been a goal ever since I was a child. My name is Stephen Harianto. I am from Indonesia, and currently studying Electrical and Electronic Engineering at Fontys Hogescholen. I am currently doing two projects at the same time, one is about waiter robot and another one is about digital analog system. One task that I have done in the first year was about the project management in which I was the project leader (General Manager). In this project management, we are divided into a group of seven people where jobs namely; production manager, financial manager, and marketing manager were assigned to each one of us. We had been given an assignment to make an American bicycle company that is struggling in the European Market back on track.

We were to work with a new international team we just knew, and yet, we had so little time to turn the bicycle company around. The mentor's method "Learning by Shock" was also frustrating since we had to figure everything out by ourselves! We did not have any management knowledge or whatsoever to run a company! However, we did not end by giving up, but made this tough problem a challenge. Slowly but surely, we learned a lot of things during the way and successfully managed ourselves to win the game in the end! Our names are carved on the trophy and we are part of Fontys' history!

Stephen Harianto

TO ME GIVING A SUBSTANTIAL CONTRIBUTION TO THE TECHNOLOGY WORLD HAS ALWAYS BEEN A GOAL EVER SINCE I WAS A CHILD

THINK BIGGER

Why study in Holland?

- **Intelligent Community of the Year 2011: Eindhoven, The Netherlands**
  The Eindhoven Region, south of Amsterdam, has long been the industrial center of Holland, with 730,000 inhabitants and a workforce of 400,000. Eindhoven generates € 24 billion of GDP and € 55 billion in exports, one-quarter of the Dutch total. It is a manufacturing center in a high-cost country. By focusing on producing high-value, technology-based products, it is in competition with fast-growing manufacturing centers in nations with much lower costs. At the same time, however, Eindhoven is saddled with demographics familiar to Europe and much of the West, in which a low birth rate and aging population is reducing the regional labor force. To win the battle for the talent that provides its competitive advantage, the region must make itself economically and socially attractive to knowledge workers from around the world and concentrate on innovation.

- Eindhoven's answer to these challenges is a public-private partnership called Brainport Development. Its members include employers, research institutes, the Chamber of Commerce, the SRE, leading universities and the governments of the region's three largest cities. More information about Eindhoven is available on the Intelligent Community Profiles pages of the ICF Web site (intelligentcommunity.org)

- Eindhoven has pleasant, friendly streets, beautiful parks, a lively and attractive centre and cultural and sporting activities of international standing.

- Fontys Eindhoven offers its students a lot of sports facilities like swimming, fitness and squash. You can become a member of the University of Technology Sportscampus for a student friendly fee.

- Fontys Eindhoven campus is equipped with computer rooms, library and a student restaurant. Wireless internet is available throughout the campus.

- Fontys will assist you in finding a place to live. Most of the international students live in a house together with other students, a so called 'student house'. You rent your own room in the student house. Usually, you share a kitchen and a bathroom together with other students.

- The Fontys International Students Association (FISA) gives international students or visitors at Fontys important first hand information about the dynamic organisation that Fontys is. The goal of Fontys International Student Association is ensuring the well-being and rights of the international students.

WIRELESS INTERNET IS AVAILABLE THROUGHOUT THE CAMPUS

WANT TO KNOW MORE?

More Information

Contact details

Fontys University of Applied Sciences

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5600 AH Eindhoven

Telephone +31 8850 78127 or +31 8850 78347

Fax +31 8850 79799

E-mail ICTandEngineering@fontys.nl

Location

Rachelsmolen 1, building R1, 5612 MA Eindhoven, Netherlands

Open days openDAYS

Eindhoven

- Saturday 5 November 2011 10.00 - 14.30 hours
- Saturday 17 March 2012 10.00 - 14.30 hours

Information evening

Eindhoven

- Wednesday 6 June 2012 18.00 - 21.00 hours

Colophon

THE WORLD'S SMARTEST

Brainport REGION Eindhoven

study in holland
open to international minds

THINK BIGGER

fontys.edu