



## Academic Master Programme of ICT K.H.Kempen University College, Geel, Belgium

**Full academic year (60 ECTS)  
Programme in English for exchange students**

### **Aim**

You will develop a number of competences during this programme:

- think and work in a scientific way in an ICT environment
- handle complex ICT problems
- form a judgement in an uncertain context
- reflect on thought processes and the resulting ICT solutions to come to the development of more adequate solutions
- Communicate effectively about one's research and ICT problem solutions with colleagues and laymen

### **Course prerequisites**

- C programming
- General attitude or disposition toward a career in computer networking
- Basic PC skills
- Basic desktop navigation skills
- Basic Internet navigation skills
- CCNA level networking concepts and skills
- Familiarity with programming using an object-oriented programming language.
- Upper-intermediate level of spoken and written English.

### **Assessment**

- Individual assessment and project based group work
- ECTS grading scale

### **General structure**

- Academic master degree programme
- Along with Belgian students
- A full academic year: 20 September 2010 - 26 June 2011

### **Application**

- Apply before 30 June 2010.
- No tuition fee for students of partner university colleges of K.H. Kempen
- A small fee will be charged for course materials and visits.

- Please send registration to Mr Karel Dekoninck (karel.dekoninck@khk.be):
  - an Erasmus application form (see [www.khk.be/english](http://www.khk.be/english)),
  - full CV and covering letter, including two passport photos,
  - a copy of your passport,
  - transcript of records and learning agreement.
- Number of participants is restricted to 10 international students to ensure optimal integration with the Belgian students.
- Insurance and emergency card (third party and travel insurance) needed.

### Studying in Geel

Katholieke Hogeschool Kempen is a university college situated in the Kempen, a dynamic region in the province of Antwerp in Flanders, the Dutch-speaking part of Belgium. It comprises eleven departments and has more than 7,000 students. K.H. Kempen University College has always been an impulse for regional development. It maintains excellent connections with employers of the Kempen region and beyond. More information on our website.

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### Overview full programme

#### Term 1:

International ICT Module, term 1	
Subject	ECTS
RTOS	1
DSP 1	2
Software engineering	3
Network security	1
Database (concepts and lab)	4
Software engineering	3
Operating systems	2

#### Term 2:

International ICT Module, term 2	
Subject	ECTS
DSP 2	3
Image processing	3
Machine learning	3
Network security	2
Computer graphics	3

### Master thesis

A personal master thesis (30 ECTS credits) is part of the ICT programme. This master thesis runs during the whole academic year (mid September until end of June). The object of the master thesis is applied ICT related research. This can also be an application in the biomedical domain.