

## Article 13 - Composition of the programme

1. Each student has an individual course programme with units of study as outlined by clauses a. – e., further elaborated in Article 15.:
  - a. Core units, 40 – 80 credits, as described in Article 15.1,
  - b. Elective units, 0-40 credits, as described in Article 15.2,
  - c. Optional traineeship, as described in Article 15.3
  - d. Research topics, 10 credits, as described in Article 15.4
  - e. Graduation work, 30 credits, as described in Article 15.5.
2. Each student is assigned to a track in the programme. The tracks are
  - a. HMI general
  - b. EIT ICT Labs Masterschool HCID first year
  - c. EIT ICT Labs Masterschool HCID second year
  - d. HMI Special programme

Individual course programmes are subject to different conditions, depending on the track. The tracks a-c are described in Articles 15.1.f-h, track d is in the special programmes appendix

## Article 14 – Mandatory courses

*Replaces “Academic and Organizational skills” for Computer Science and Telematics*

All students have to take the following courses in their course programme:

191612680 Computer Ethics; study load 5 credits; counts as a core unit

192166100 HMI project<sup>1</sup>; study load 10 credits; counts as a core unit

## Article 15 - Course programme details

### 1. Core Units

Core units are the units of study in five different areas, listed in Articles 15.1.a – 15.1.e; Students must choose core units in accordance with the provisions of Articles 15.1.f – 15.1.h (provisions are dependent on the track)

#### a. *Algorithms, Methods and Techniques for Intelligent Interactive Systems.*

201500xxx Course AMTIIS 1	5EC
(replaces SLP 1)	
201500xxx Course AMTIIS 2	5 EC
(replaces SLP 2)	
201500xxx Machine Learning Techniques	5 EC
(replaces Machine learning short course)	
201500xxx Machine Learning Research Project	5 EC
(part 2 of Machine learning)	
19121091 Image processing and computer vision	5 EC

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<sup>1</sup> It is possible to have more than one instance of a unit of study (e.g. HMI project, Capita Selecta) in a course programme. Of course the approval of the programme mentor is needed. The difference between the two must be clear to all parties.

b. *Interactive Systems*

201500xxx Conversational Interaction (conversational agents for PSY)	5 EC
201500xxx Conversational Interaction Research Project (conversational agents part 2)	5 EC
201500xxx Information Retrieval Foundations (Information Retrieval part 1)	5 EC
201500xxx Information Retrieval Research Project	5 EC
201000078 Brain Computer Interfacing	10 EC
201500xxx Designing Interactive Experiences	5 EC

c. *Human Computer Interaction*

201100126 Human Computer Interaction	5 EC
201000113 User Centred Design of New Media	5 EC
192166100 HMI project	10 EC
201500xxx Programming Interactive Systems	5 EC

d. *Innovation and Entrepreneurship.*

xxxxxxxxx Innovation and Entrepreneurship	7.5 EC
xxxxxxxxx High Tech Marketing	5 EC
xxxxxxxxx I&E Minor Thesis	5 EC

e. *Reflection*

191612680 Computer Ethics	5 EC
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f. The choice of core units in the student's course programme in the track HMI general is restrained by the following condition

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g. The choice of core units in the student's course programme in the track HCID first year is restrained by the following

it must contain all Human Computer Interaction courses,  
it must contain all Reflection courses,  
it must contain the I&E courses except the I&E Minor thesis,  
This imposes a mandatory total study load of 42.5 EC

h. The choice of core units in the student's course programme in the track HCID second year is restrained by the following

it must contain all Reflection courses  
it must contain the I&E Minor thesis.  
This imposes a mandatory total study load of , totalling 15 EC

2. Elective subjects:

Elective subjects are all units in the student's course programme which are not core units, as listed in Articles 15.1.a – 15.1.e. The choice of electives in the student's course programme is restrained by the following conditions.

- The total study load of electives in the student's course programme may not exceed 40 EC.
- Traineeship (see Article 15.3), Research Topics (see Article 15.4) and Graduation Project (see Article 15.5) do not count as elective units for these Regulations.
- Students can suggest elective units for their course programme; the programme mentor may give the student directives for the choice of electives; in any case the approval of the programme mentor for the choice of electives is necessary.

- d. In some cases the admissions board may issue a certificate of admission with additional requirements. See the admissions appendix. Students must use the space for elective subjects in their course programme to meet these additional requirements, usually called 'homologation'. Homologation requirements limit the space the student has for electives in the student's course programme.
3. Traineeship
    - a. All students in the HMI general track may take a 20 EC traineeship in their course programme.<sup>2</sup>
    - b. A student must have completed study units of his approved course programme with a study load totalling at least 40 EC, to be eligible for a traineeship.
  4. Research Topics

All students in the HMI general track must take a 10 EC Research topics subject in their course programme.<sup>3</sup>
  5. Final Project

All students must carry out graduation work under the supervision of a staff member of the HMI chair. The following requirements must be met:<sup>4</sup>

    - a. Students complete graduation work worth 30 credits.
    - b. For students in the HCID second year track graduation work is combined with the I&E minor thesis. For students in this track the graduation project is defined by an external party (a company).
    - b. Graduation work consists of a graduation project, a graduation report, a summary of the report, and a presentation. Generally the Research topics of 13.5 above immediately precede the graduation work, and serve as a preparation for the graduation work.
    - c. Students may start graduation work only if they have completed all of the remaining components of the study programme, unless the graduation supervisor grants permission to deviate from this rule..
    - d. The HMI chair takes responsibility for supervision and assessment of graduation work.
    - e. The graduation project description is written down as an agreement, signed by both the student and the supervisor. The supervisor signs on behalf of the Examination Board.<sup>5</sup>

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<sup>2</sup> Organisational procedures are found on:  
[http://www.utwente.nl/ewi/en/education/external\\_training/](http://www.utwente.nl/ewi/en/education/external_training/)

<sup>3</sup> Organisational procedures are found on:  
[http://www.utwente.nl/hmi/programmeinformation/final\\_project.doc/](http://www.utwente.nl/hmi/programmeinformation/final_project.doc/)

<sup>4</sup> Organizational procedures are found on:  
[http://www.utwente.nl/hmi/programmeinformation/final\\_project.doc/](http://www.utwente.nl/hmi/programmeinformation/final_project.doc/)

<sup>5</sup> Forms to be found on: [http://www.utwente.nl/hmi/programmeinformation/rules\\_documents/](http://www.utwente.nl/hmi/programmeinformation/rules_documents/)