SECTION B PROGRAMME-SPECIFIC SECTION

MASTER HUMAN MEDIA INTERACTION

About this Section

The Teaching and Examination Regulations (TER) are subdivided into two sections (Section A and Section B), which together form the TER. Section A, which can be seen as the faculty section, includes provisions that apply to all EEMCS Master's degree programmes. Section B contains the provisions that are specific to the particular degree programme, in this case the Master's programme in Human Media Interaction.

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1. General provisions

Article 1.1 Definitions

Definitions additional to the ones in Article 1.2 of Section A.

a. graduation supervisor: a staff member of the HMI chair who supervises the student's final project

2. Programme objectives and final attainment targets

Article 2.1 Aim of the Human Media Interaction (HMI) Master's programme

Highlighting the interaction between people and technology, the HMI master's programme studies this relationship from different perspectives. Special emphasis is placed on the manner in which people interact with technology (i.e. what are their requirements, abilities and limitations) and on the identification of the best way to implement or further develop technical capabilities to meet the needs of users.

The HMI master's programme focuses specifically on intelligent, multimodal systems offering a more natural form of interaction than currently possible with conventional monitors, mice and keyboards. By employing a broad range of input modalities to observe and intelligently interpret user actions, these intelligent interactive systems aim to automatically determine the user objectives and operational context and make the necessary adjustments. This multimodality applies both to system input and output; text, speech, haptic and visual feedback and all communication media are integrated and presented to users in an intelligent manner.

The HMI programme combines technical expertise and skills in the field of interaction technology with knowledge and skills in user-oriented design methodologies and an understanding of how people interact with technology.

Article 2.2 General attainment targets

The degree programmes have the following general scientific attainment targets

a. Graduates have an extensive knowledge of and understand the issues relevant to their specific field of study (i.e. domain specific attainment targets) described in Art. 2.3.
b. Graduates can contribute to scientific research, and independently design, conduct and present the results of small-scale research.
c. Graduates can provide an original contribution to the development and/or application of the field of study. 'Original' is understood to mean 'demonstrative of a creative contribution'.
d. Graduates can analyse complex problems relevant to the field of study and obtain the required knowledge and information.
e. Graduates can design, validate and implement solutions/systems in their operational context; identify and apply relevant advanced knowledge, methods and techniques from their field of study.
f. Graduates can assess solutions/systems and their applications according to their properties and potential to solve problems even if they are new to or unfamiliar with the situation or lack information and/or reliable information; they can use their assessment as a basis for (substantiation of) decisions.

g. Graduates understand the ethical, social, cultural and public aspects of problems and solutions in their field of study; apply this insight in their international role as scholar.
h. Graduates can work as part of and play a leading role in a team; manage and plan a development process; document development and research processes.
i. Graduates can substantiate research results, designs and applications in writing and verbally; critically assess and participate in debates regarding the same.
j. Graduates can independently acquire new knowledge and skills; reflect on trends in their field of study, responsibilities and roles and use this insight as a guide for and integrate it into their own personal development.
k. Graduates can integrate information from other disciplines into their own work if necessary.
l. Graduates take a critical approach to reading, incorporating information presented in and participating in debates regarding international scientific literature relevant to their field of study.

Article 2.3 Domain specific attainment targets

The degree programme has the following subject specific scientific attainment targets (elaborating Art. 2.2)

a. Graduates have a thorough knowledge and understanding of each of the sub-fields listed below
   - methodology of user-oriented design, including the drafting of user requirements, user studies and usability engineering;
   - forms of natural, multimodal interaction such as natural language interfaces
   - intelligent interaction employing techniques taken from artificial intelligence;
b. Graduates can design sophisticated applications involving digital media and interactive systems, which are geared to the needs of users, using state-of-the-art techniques and methods. They are able to design such applications both independently and as part of a team.
c. Graduates have knowledge of and understand various aspects of the user context of digital media and interactive systems and, based on this, communicate effectively and efficiently with users during the various phases of the development process.
d. Graduates have knowledge of and understand basic questions and research methods into human behaviour relevant to the multimodal system they develop (e.g. linguistics in the case of natural language processing or neuroscience in Brain Computer Interfaces) and grasp the relevance of these fields of study to the design of interactive systems.
e. Graduates can draft, transfer, document and communicate to technical designers specifications on the basis of a knowledge and understanding of the technical aspects of digital media and interactive systems.
f. Graduates can assess systems for human media interaction according to their technical and operational aspects, incorporating a thorough knowledge and understanding of mathematics.

HMI graduates have specialist knowledge of one or more of the three Human Media Interaction subfields outlined in Article 2.3a. HMI graduates have practical experience conducting, reporting about and applying the results of scientific research in developing innovative interactive systems by using HMI techniques and methods.

3. Further admission requirements

Admission requirements additional to the ones in Article 2 of Section A can be found in Appendix A.

4. Curriculum structure

Article 4.1 Programme structure

1. Each student has an individual course programme with units of study as outlined by a - d, further elaborated in Article 4.2 to 4.8:
    a. Compulsory units of study (55 EC):
        i. 192166100 Human Media Interaction Project (10EC)
        ii. 191612680 Computer Ethics (5EC)[1]
        iii. 192199508 Research Topics (10EC)
        iv. 192199978 Graduation Project / Final Assignment (30EC)
    b. 20 EC core courses in the techniques for Intelligent Interactive systems listed in Art. 4.2, out of which at least 1 advanced course or advanced research project
    c. Optional internship (20 EC)
    d. Additional core courses (Art. 4.2 – 4.3) and electives (Art. 4.4) so that the total course programme adds up to at least 120 EC.
2. Students whose admission to the HMI programme is derived from, or constitutes a part of, their admission to a special programme within the Twente Graduate School (TGS HCIT programme) or the EIT Digital Master school (HCID programme), may have a course programme which deviates from the requirements listed under 4.1 – 4.7. The programme for HCID students is described in Article 4.8. Regulations regarding the course programme for TGS HCIT students are described in Appendix C of these Regulations.
3. A choice of courses becomes a course programme once it has been approved and signed by the programme mentor (Art. 5). The programme mentor has the authority to refuse his approval even if the choice of units is within the limitations of these Regulations.
4. In some cases the admissions board may issue a certificate of admission with additional requirements. See Appendix A. 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.

Article 4.2 Core courses: Techniques to build (Socially) Intelligent Interactive Systems

General Techniques

- 201600070 Basic Machine Learning (5EC)
- 201600071 Advanced Machine Learning (5EC)
- 191210910 Image Processing and Computer Vision (5 EC)
- 201100254 Advanced Computer Vision and Pattern Recognition (5EC)

Sensing Technology / Human Signal Processing / Interactive Systems

- 201600073 Affective Computing (5EC)
- 201600074 Natural Language Processing (5EC)

[1] With the exemption of students with an UT Bachelor's degree in Creative Technology.

- 201600075 Speech Processing (5EC)
- 201600076 Foundations of Information Retrieval (5EC)
- 201600077 Conversational Agents (5EC)
- 201600078 Brain Computer Interfaces (5EC)
- 201600079 Trends in Human Robot Interaction Research (5EC)

Advanced Research Projects
Advanced Research Projects (5 EC) in 201600080 Affective Computing, 201600081 Natural Language Processing, 201600082 Speech Processing, 201600083 Information Retrieval, 201600084 Conversational Agents, 201600085 Brain Computer Interfaces, 201600086 Human Robot Interaction.

The following courses count as advanced courses:

- 201600071 Advanced Machine Learning (5 EC)
- 201100254 Advanced Computer Vision and Pattern Recognition (5 EC)
- 201300074 Research Experiments in Databases and Information Retrieval (5EC)
- All the advanced research projects

Article 4.3 Core courses: Human Computer Interaction and Design Courses

- 201600087 Designing Interactive Experiences (5EC)
- 201000113 User Centered Design of New Media (5 EC)
- 192166100 Human Media Interaction Project (10 EC)
- 201100126 Human Computer Interaction (5 EC)
- 201600079 Trends in Human Robot Interaction Research (5 EC)

Article 4.4 Electives

1. Outside the core units as listed in Article 4.2 – 4.3, students are free to choose electives courses. Possible electives are:

- 192111301 Ubiquitous Computing (5 EC)
- 192320601 Multi-Agent Systems (5 EC)
- 192850830 Create the Future (10 EC)
- 201500440 Design and Emotion (5 EC)
- 201500133 Embodied Interaction (5 EC)
- 201400180 Multi-Sensory Design (5 EC)
- 201000201 Virtual Reality (5 EC)
- 201400174 Data Science (5 EC)
- 201200063 Philosophy of Technology (5 EC)
- 192140302 Artificial Intelligence (Self-Tuition) (5 EC)
- 192166200 Capita Selecta HMI (5 EC)

Article 4.5 Internship

Students may take a 20 EC internship in their course programme.
In addition to the rules and regulation in Art. 3.8. of the faculty Section A of this TER, organisational procedures are found on: www.utwente.nl/en/eemcs/traineeship.

Article 4.6 Research Topics

All students must take the 10 EC course 192199508 Research topics in preparation for their 192199978 Final Project.

Article 4.7 Final Project

1. All students must carry out graduation work under the supervision of a staff member of the HMI chair. The following requirements must be met:[2]
   a. Students complete graduation work worth 30 credits.
   b. Graduation work consists of a graduation project, a graduation report, a summary of the report, and a presentation. Generally the Research topics of Art. 4.6 above immediately precede the graduation work, and serve as a preparation for the graduation work.
   c. Students may only start the graduation work with a maximum of 10 EC of unfinished courses, 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.[3]

Article 4.8 EIT Digital Master School Human Computer Interaction Design

1. Students enrolled for the Human Computer Interaction and Design (HCID) programme of the EIT Digital Master School take a 60 EC course programme in Human Media Interaction, which is completed to a full 120 EC course programme at one of the other participating institutions.
   a. First year HCID students in HMI take a 60 EC programme in HMI as outlined in item 2 below. These students continue with a second year specialization At KTH, UniTN, Aalto University, UPS, TU Berlin, or UPM
   b. Second year HCID students have completed 60 EC (a first year) at Aalto University, KTH, UPM or UPS before they start their 60 EC programme in HMI as outlined in item 3 below.
   c. Both first and second year HCID students will take a double degree, one of their diplomas is the HMI diploma.
2. The HMI course programme for students with an entry year at the University of Twente need to include the mandatory courses mentioned below supplemented with electives (see Art. 4.2 - 4.5) to add up to 60 EC.
3. The HMI course programme for exit year students need to include the mandatory units mentioned below.

HCID Entry year: mandatory courses

HCID core courses:

- 201600087 Designing Interactive Experiences (5 EC)
- 201000113 User Centered Design of New Media (5 EC)
- 192166100 Human Media Interaction Project (10 EC)
- 201100126 Human Computer Interaction (5 EC)

[2] Organizational procedures are found on: www.utwente.nl/hmi/programmeinformation/final_project.doc/

[3] Forms to be found on: www.utwente.nl/hmi/programmeinformation/rules_documents/

Innovation and Entrepreneurship (I&E) course for HCID students:

- 201700180 I&E Basics: Innovation and Entrepreneurial Finance EIT students (5 EC) [4]
- 201700119 Business Development Lab for EIT I (5EC)
- 201700120 Business Development Lab for EIT II (5EC)
- One of the following courses:
    - 194108040 Business Development in a network perspective (5 EC)
    - 201500448 Designing Business Models
    - 192850700 Design Management
    - 201500008 Empirical Methods for Designers
    - 201600002 Entrepreneurial Leadership & Responsible Organizational Design (only for ex Create and BIT UT BSc)
    - 194105070 Information Systems for the Financial Services Industry

HCID Exit year: mandatory courses

Students in the exit year of the HCID programme need to include the following courses:

- 201600088 Research Topics EIT (10 EC)[5]
- 192199978 Graduation Project / Final Assignment (30EC)
- 20 EC of the following courses
    - 192166100 Human Media Interaction Project (10 EC)
    - 201600074 Natural Language Processing (5 EC)
    - 201600075 Speech Processing (5 EC)
    - 201600070 Basic Machine Learning (5EC)
    - 201600071 Advanced Machine Learning (5EC)
    - 192320601 Multi-Agent Systems (5 EC)
    - 201600076 Foundations of Information Retrieval (5EC)
    - 201600083 Advanced Research Project in Information Retrieval (5EC)
    - 201600081 Advanced Research Project in Natural Language Processing (5 EC)
    - 201400180 Multisensory Design (5 EC)

5. Course programme approval

The student must complete the following steps to obtain course programme approval:

1. Contacting the programme mentor for approval of the course programme.
   Students may complete subjects and sit interim examinations up to a maximum of 15 credits in a specialization before contacting the programme mentor. It is strongly recommended for students to contact the programme mentor immediately at the start of the master's study. At this point, permission from the programme mentor is required for a complete programme of 120 credits. The programme is written down as an agreement on the content of the course

[4] *HCID students who have a bachelor degree in Creative Technology from the University of Twente take a different course: 201600010 International Entrepreneurship - A Strategic Technology Perspective (5 EC). This is because these students have already taken the equivalent of 201500289 Innovation and Entrepreneurship Theory as part of their bachelor programme.*

[5] This includes the I&E minor thesis of 6 EC

programme, signed by both the student and the programme mentor[6]. The programme mentor signs on behalf of the Examination Board.

2. Alterations and renewed approval of entire course programme.
   After the course programme has been laid down it can be altered during executing the master's programme, by laying down revised course programmes. This can be done until research topics and final project are started by the student. At that time the programme mentor should have approved the 120-credit course programme in its entirety.
3. The completed and signed form listing the course programme must be included in the student's file at *Bureau Onderwijszaken* (BOZ, office of educational support). The student will earn the diploma if he/she completes the units of study listed in the course programme and earns results in line with the guidelines for passing the final assessment.
4. Requirements apply to each course programme to ensure basic knowledge in the field of study. The admissions board may adjust these programme requirements on the basis of the student's prior education and training. Such an adjustment will never entail an intensification of the requirements, the programme will always have a study load of 120 credits.
5. The total number of credits completed at the UT or at another university or research institute approved by the programme mentor, must be at least 90. The Examination Board may permit a student to deviate from this rule.

6. Degree

Students who have successfully completed their Master's final examination are awarded a Master of Science degree. The degree awarded is stated on the diploma.

7. Transitional and final provisions

Article 7.1 Transitional provisions

The transitional arrangements can be found in appendix B.

Article 7.2 Publication

1. The Dean will ensure the appropriate publication of these Regulations and any amendments to them.
2. The Teaching and Examination Regulations will be posted on the faculty and programme website.

Article 7.3 Effective date

These Regulations take effect from 1 September 2017.

[6] Forms to be found on: www.utwente.nl/hmi/programmeinformation/rules_documents/

A. ADMISSIONS APPENDIX OF THE TEACHING AND EXAMINATION REGULATIONS OF THE MASTER'S HUMAN MEDIA INTERACTION

The provisions in this appendix are an integral part of the Teaching and Examination Regulations of the Master's programme Human Media Interaction of the Faculty of Electrical Engineering, Mathematics and Computer Science of the University of Twente and are an addition to the regulation stated in Section A and B. References to numbered articles in this appendix are references to the main text of these Regulations.

Enrolment as a student is required to sit interim examinations and to be eligible to earn the Master's diploma. In order to be enrolled, students must demonstrate that they have been admitted to the Master's programme.

Article A.1 Admission to the programme

1. Admission to the programme can be granted only to students who meet the requirements regarding the level of their previously earned diploma's, in accordance with the provisions of Art.7.30b of the WHW.
2. Students in possession of a diploma which shows that they have passed the final examination for the Technical Computer Science (TU/e, TUD, UT), *Informatica* (RUG, UU, UvA, VU, UL, RU, OU), Business & IT (UT), Creative Technology (UT), or (*Technische*) Kunstmatige Intelligentie (RUG, UvA, UU, RU) Bachelor's programme will be eligible for admission to the programme.
3. Students who are admitted to the HCID-programme are also admitted to the Human-Media Interaction programme.
4. Students who are not in possession of the diploma mentioned in Article A.1.2 will require a certificate of admission issued by the Admissions Board. The Admissions Board is appointed by the Dean with the power to act in matters of admission to the programme. Admission involves an assessment of the student's eligibility for the Master's programme of his/her choice. If the admissions board positively assesses an application for admission, it issues a certificate of admission. Students with a certificate of admission are eligible for enrolment by the Central Student Administration. Enrolment will only take place if the other admission requirements maintained by the UT have also been satisfied.
5. Admission of foreign students. In addition to the requirements in Article 2.6 and 2.8 of Section A, the following criteria apply:
    a. The level of education in the country in which the student has completed his/her pre-university education: this must be comparable with that in the Netherlands.
    b. Level of knowledge: the student must have accumulated sufficient knowledge on the basis of the courses he/she has studied abroad to be at a level comparable to that of Dutch students who are admitted to the Master's programme.

Article A.2 Admission to the programme pursuant to a regulation

The Dean has adopted the following provisions for certain students to be eligible for admission (in addition to the ones mentioned in Article A.1).

1. Applicants who satisfy the following two requirements are eligible for admission to the HMI Master's programme.
    a. The applicant is holder of a diploma of a University of Applied Sciences (HBO) demonstrating that he has satisfied the requirements of the final assessment of the Computer Science

(*Informatica*) HBO Bachelor's programme or the Technical Computer Science (*Technische Informatica*) HBO Bachelor's programme.
    b. The applicant has successfully completed the "Kies op Maat" transfer minor for Human Media Interaction
2. Applicants who satisfy the following requirements are eligible for admission to the HMI Master's programme.
    a. The applicant is holder of a diploma from the University of Twente demonstrating that he or she has satisfied the requirements of the final assessment of the Psychology Bachelor's programme.
    b. The applicant has successfully completed the programming theory and project part of 201500111 Software Systems of the TCS Bachelor's programme or 201500533 Python Programming.
3. Applicants who satisfy the following requirements are eligible for admission to the HMI Master's programme.
    a. The applicant is holder of a diploma from the University of Twente demonstrating that he or she has satisfied the requirements of the final assessment of the Industrial Design Bachelor's programme.
    b. The applicant has successfully completed the programming theory and project part of 201500111 Software Systems of the TCS Bachelor's programme or 201500533 Python Programming.

Article A.3 Admission to the Master's programmes after individual assessment

In all other instances than those mentioned in Art. A.1 and A.2., the admissions board conducts a detailed assessment of the applicant's eligibility for admission. This assessment takes the following factors into account:

1. the highest diploma earned by the applicant: This must be at least a Bachelor's diploma from a recognized higher education institution. If such a diploma cannot be produced, the admissions board will ask for a statement attesting to the equivalency of the applicant's qualifications with the Bachelor's diploma required. The body issuing this statement must be authorized to do so.
2. the nature of the degree course and the content of the course programme completed by the applicant, the speed with which the course programme was completed and the marks earned: The nature of the degree course, content of the course programme and marks earned for the individual units of study must clearly demonstrate that the applicant has the fundamental academic skills and appropriate basic knowledge for the Master's programme or is able to compensate for any gaps in basic knowledge.
3. the student's motivation for applying for admission
4. the applicant's command of English: This only applies to international students. The threshold values for sufficient command of English are in Article 2.2 of section A.

Article A.4 Variations in admission decisions

1. <u>Issuing an unconditional certificate of admission</u>

The admissions board may decide to admit applicants to the Master's programme after assessing their file. These applicants will be issued a (unconditional) certificate of admission.

2. <u>Issuing a conditional certificate of admission</u>

The admissions board may not reach a final decision about admission, because it finds insufficient or formally incorrect evidence of the applicant's status in the application file. In such a case the board can decide to admit the applicant conditionally. The student can enrol at the UT on the condition he or she submits the evidence lacking in the original application file to the satisfaction of the admissions board. (A typical case of conditional admission is when the applicant's file shows no formal proof of sufficient proficiency in English.)

3. Issuing a certificate of pre-Master admission

In some cases, the admissions board will issue applicants a certificate of pre-Master admission. While these individuals may enrol at the UT, they are not entitled to sit interim examinations or to have the final assessment conducted.

Students with a certificate of pre-Master admission must first successfully complete the pre-Master's programme before being fully admitted to the Master's programme and become fully enrolled students with all the associated rights. Certificates of pre-Master admission are valid for a limited term (generally one year). Students who are not fully admitted during this term must re-apply for admission.

Completing a programme to convert a pre-Master admission to 'fully admitted' student status is often referred to as 'overcoming deficiencies'.

NB: While the results earned as part of an undergraduate-level pre-Master's programme do not count towards a Bachelor's degree, a certificate is awarded in recognition of the academic achievements during the pre-Master's programme.

4. Issuing a certificate of admission with additional requirements

The admissions board may attach additional requirements to a certificate of admission (also to conditional and pre-Master admissions). These additional requirements do not impact the right to enrol, sit interim examinations or have the final assessment conducted. They do, however, impact the regulations governing successful conclusion of the Master's programme final assessment. With this admission decision, the admissions board establishes additional requirements for the course programme to satisfy in order to successfully pass the Master's programme final assessment. Naturally, the additional requirements will be limited to the extent that the student will still be able to complete the programme with a study load of 120 credits. The additional requirements placed on the course programme are referred to as "homologation".

5. Issuing a certificate of admission with a requirements waiver

Article 3.4 of Section A of the Teaching and Examination Regulation stipulates that the Examination Board may not honour requests for exemptions based on results earned as part of a Bachelor's programme. However, the Examination Board may waive a requirement placed on the course programme in recognition of the results earned as part of a Bachelor's programme and, consequently, permit the student to successfully pass the Master programme's final assessment with a course programme that does not satisfy all the formal requirements. Students who wish to have a waiver for requirements placed on the course programme based on their undergraduate education should submit a request to the admissions board. The admissions board will render a decision on the request on behalf of the Examination Board. If granted, it will issue a certificate of admission with a waiver for requirements, thereby granting the student the right to have the Master's programme final assessment

conducted without meeting all the formal requirements. Such a waiver will never affect the Master's programme study load. A study load requirement of less than 120 credits is not permitted.

B. TRANSITIONAL ARRANGEMENTS APPENDIX TO THE TEACHING AND EXAMINATION REGULATIONS OF THE MASTER'S PROGRAMME HUMAN MEDIA INTERACTION

The regulations in this appendix are an integral part of the Teaching and Examination Regulations of the Master's programme Human Media Interaction of the Faculty of Electrical Engineering, Mathematics and Computer Science of the University of Twente. References to numbered articles in this appendix are references to the main text of the Teaching and Examination Regulations. Regulations with a passed validity date can be found in previous Teaching and Examination Regulations.

In general students with an approved programme are allowed to finish their programme under the previous conditions taking into account the current and previous transitional arrangements that might apply to them.

1. Regulation 2016-2017 regarding the split of the 10 EC courses into two 5 EC courses
   Occasion: Apart from the Human Media Interaction project, all 10 EC courses will be split into two 5 EC parts
   Terms of validity: until September 1, 2018
   Contents of the regulation: Students who have not completed one or more of the following old courses 192166420 Machine Learning, 201000078 Brain Computer Interfacing, 192160400 Information Retrieval and 192166370 Conversational Agents as part of their approved programme need to replace these courses with the corresponding new 5 EC core course and the corresponding Advanced Research Project.
2. Regulation 2016-2017 regarding 192165201 KMT Mediatechnology
   Occasion: Name change KMT Mediatechnology to better reflect the contents of the course
   Terms of validity: until September 1, 2018
   Contents of the regulation: Students who have 192165201 KMT Mediatechnology as part of their approved course programme and have not yet completed the course need to substitute the course with 201600087 Designing Interactive Experiences.
3. Regulation 2016-2017 regarding Speech and language processing 1 and 2
   Occasion: The courses have been renamed.
   Terms of validity: until September 1, 2018
   Contents of the regulation: Students who have included SLP 1 / 2 in their approved course programmes and have not yet completed these can take the new corresponding course.

C. TWENTE GRADUATE SCHOOL PROGRAMME APPENDIX TO THE TEACHING AND EXAMINATION REGULATIONS OF THE MASTER'S PROGRAMME HUMAN MEDIA INTERACTION

The regulations in this appendix are an integral part of the Teaching and Examination Regulations of the Master's programme Human Media Interaction of the Faculty of Electrical Engineering, Mathematics and Computer Science of the University of Twente. References to numbered articles in this appendix are references to the main text of the Teaching and Examination Regulations.

Graduate research programme Human-Centered Interaction Technologies intermediate leading to the diploma

1. Students enrolled for the Human-Centered Interaction Technologies (HCIT) programme of the Twente Graduate School (TGS) must complete a 120 EC course programme in Human Media Interaction, and will take the HMI diploma.
2. The HMI course programme of these students must satisfy the following constraints of Article 4.1 of the programme-specific Section B of these Regulations with the exception of the mandatory Research Topics. The course programme of an HCIT student will not contain the 10 EC Research Topics, but instead contain a 15 EC Research Internship as part of their Final Project.
3. The programme mentor can give the student directions (in accordance with the HCIT Programme Leader) to take additional mandatory courses other than those specified in Article 4.1.

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