Programme syllabus

Degree Programme in Media Technology
Civilingenjörsutbildning i medieteknik
300.0 credits

Valid for students admitted to the education from autumn 10 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

The educational programme has a technical, scientific base with a foundation in mathematics and natural science. Media Technology focuses on services and products aimed primarily at the consumer market. Therefore, the programme also offers relevant knowledge from social and behavioural science and insights into the contents and design of media. Specialized knowledge is given about technology for static media forms (text, image, print), dynamic media forms (audio, video) and interactive media forms (internet, games, dialogue systems, etc.). Each student must, in addition, acquire deeper knowledge within at least two of the following areas of media technology: interactive media technology, image and video technology, audio technology, human-computer interaction, printed communication or an individually specified area approved by the program coordinator.

Knowledge and understanding

The Media Technology program will give the student the fundamental knowledge and abilities needed to successfully work with and from an engineering perspective solve technical, organisational, methodological, design-related, and user-related problems within the media field. The program gives knowledge about the technical as well as multidisciplinary foundation that media and their technology for production, distribution, and consumption rely upon.

Skills and abilities

The Media Technology program will give the student prerequisites to, with a comprehensive perspective, critically, independently and creatively identify, formulate, and handle complex problems, analyze and critically evaluate different technical, organisational, and design-related solutions. The student will also have the ability to plan and implement qualified assignments within given constraints and considering sustainability. The program will also give a foundation for further education on the research level and an ability to participate in research and development work and thereby contribute to the knowledge development within the area. The student will develop an understanding of and an ability to work in teams and to cooperate in groups with participants from different backgrounds. The student will also be able to continuously develop his/her skills and abilities.

Ability to make judgements and adopt a standpoint

The Media Technology will gain the ability to integrate knowledge from different disciplines and experiences as well as to model, plan and evaluate products, services, systems, and processes. The student will also get an understanding of business development within the media field and of the important role of media in society, opinion building and democratic processes as of the ethical and legal aspects of media and their contents, and the relationship between technology, contents and usage in the media. This includes a consciousness about the possibilities and limitations of technology and the responsibility of technology developers for how the technology is used.
Extent and content of the programme

The Master’s Programme in Engineering in Media Technology is composed of 300 ECTS credits, which at normal study rate corresponds to 5 years of full-time studies (10 terms).

The first three years (180 higher education credits) are on the first level. The last two years are mainly on the second level (120 higher education credits).

Master's programs

The last two years the student takes a master's program of his/her choice. The master's programs consist of courses mainly in the second level. The education leads to a master's degree as well as a "civilingenjör" degree.

Each year a list of master's programs that the students can choose from is presented. For 2009 the list contains three master programs:

- Media technology
- Media management
- Human-computer interaction

The student who wants to choose the Media management program must be aware that:

- the program has a limited number of places
- the course Law for media must be taken within the master's program
- a special application is needed according to instructions from the CSC school

The student who wants to choose the Human-computer interaction program must be aware that:

- the human-computer specialization may not be chosen for study year 3 (the education should include two specializations)
- must take the conditionally elective mathematics courses during study years 2 and 3
- the courses Law for media and Content and expression in media must be taken within the master's program

Language of Instruction

The language of instruction, during the first three years of the programme is mostly Swedish; although English literature will be used. The concluding two years some courses are given in Swedish and some in English. For each course the language of instruction is found in the Course and program directory on the KTH student web site.

Eligibility and selection

In order to be accepted to the Media Technology program basic eligibility requirements as well as the following requirements must be met: Mathematics E, Physics B, Chemistry A (according to the swedish school system). All with at least a grade of Godkänd (Passed).

For eligibility requirements and selection, see the KTH admission policy

http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/antagning/1.27186

Implementation of the education

Structure of the education

The programme plan for the Master’s programme in Engineering in Media Technology partly consists of compulsory courses including one of the two specialisations during study years 1-3. Study year 3 is concluded with a first level degree project worth 15 ECTS credits.
During study years 4-5 the student follows the master's program of his/her choice. Within the master's program a second specialization is taken as well as courses on the second level. The programme is concluded during the spring semester of study year 5 with a second level degree project worth 30 ECTS credits.

The programme is structured such that the student, after three study years, can apply for a Bachelor's degree and then continue his/her studies on a Master's programme at KTH or another university in Sweden or abroad or start a working career.

**Academic year**

The KTH academic year is 40 weeks, divided into four periods. Each study period is followed by an examination period. There are also three re-examination periods.

For details about the structure of the academic year see http://www.kth.se/student/schema/1.1007?l=en_UK

**Courses**

The programme is course-based. Lists of courses are included in appendix 1.

The programme consists of compulsory, conditionally elective and elective courses. The compulsory courses are defined for each study year and specialisation in course lists. Course goals, prerequisites, contents and examination requirements can be found in the respective course plans in the course and program directory on the KTH student web.

Elective courses can be chosen from the KTH course offer for Master of Science in Engineering programmes. Also, courses from other universities/higher education institutions can be recognized for credit, if the degree requirements are fulfilled.

For elective courses, the following restrictions apply:

- Elective courses can not be taken in study year 1
- Only under certain circumstances can elective courses be taken in study year 2
- The number of higher education credits which can be taken per semester can be limited.

**Grading system**

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

**Conditions for participation in the programme**

**Semester enrollment**

No later than November 15 and May 15 the student is required to make a study enrollment for the next semester at the CSC Program Office.

This study enrollment is required in order for the exam results to be registered.

**Approved leave from studies**

Approved leave from studies means that the student does not participate in the education during at least one study period. The student has the right to return to the education at a time agreed upon, and has the right to participate in the examination of non-finished courses.

Application for an approved leave is done on according to instructions from the CSC program office. When the student decides to return to the education, he/she is required to re-enroll to the studies.

**Selection of courses**
From study year 3 and on the student is responsible for applying to all courses he/she wishes to take. This also applies to compulsory courses. The application for admission to a course is done according to instructions from the CSC school no later than

May 15th for the fall semester
November 15th for the spring semester

Applications made after this date are only granted if there are vacancies in the courses. Applications to language courses with prerequisites should be preceded by a qualification test.

In a few courses, the number of participants is limited. Selection is done by the school responsible for the course.

Admission to compulsory courses during study years 1–2 is, in most cases, automatic. Students wishing to study an individual specialization or choosing among alternative compulsory courses have to submit a special form.

Selection of conditionally elective courses in mathematics

The program offers a number of conditionally elective courses in mathematics that can be taken from study year 2. The student must take at least two of these in order to fulfill the requirements for a degree. Application for a conditionally elective course in mathematics is made on a form submitted to the CSC program office.

Choice of specialization

During the third study year the student follows one of the specializations offered. The choice of specialization, courses to be taken within the specialization and any elective courses are done according to instructions from the CSC program office.

Choice of master's program

The student must apply for the master's program he/she wishes to follow during study years 4–5 according to instructions given by the CSC program office.

Course registration

The student must register with the school responsible for the course at the start of each course, and also report to the school responsible for the course if the studies are discontinued.

Registration to a course requires formal acceptance to the course (by the school responsible for the course). Applications should be according to instructions from the CSC school.

Conditions for being promoted to the next level

The following promotion requirements apply in order to participate in the next level of the education.

Requirements for promotion from study year 1 to study year 2:
A total of at least 45 ECTS credits from study year 1 must be completed.

Requirements for promotion from study year 2 to study year 3:
A total of at least 90 ECTS credits from study years 1 and 2 must be completed at least 50 higher education credits from study year 1.

Requirements for promotion from study year 3 to study year 4:
A total of at least 150 ECTS credits from study years 1-3 must be completed whereof 110 ECTS credits from study year 1-2, and the first level degree project.

Requirements for promotion from study year 4 to study year 5:
In addition to what applies for promotion to study 4, at least 45 higher education credits from study year 4 must be completed.
**Individual study plan**

Students who do not fulfill these requirements must – in cooperation with the CSC program office – make an individual study plan for continued studies.

Please see the KTH regulations: [http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/1.27217?l=en_UK](http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/1.27217?l=en_UK)

**Recognition of previous academic studies**

Credits for studies at another university can be received. An application form can be found on the KTH Student pages.

The application form is submitted to the CSC program office.

For in-depth information about the KTH policy for crediting previous studies, see [http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/prestationer/1.27200?l=en_UK](http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/prestationer/1.27200?l=en_UK)

**Studies abroad**

Students at the Media Technology program have the opportunity to study one or two semesters abroad through agreements KTH has with universities within and outside the EU. Exchange studies are appropriate during the fourth or fifth study years. It is also possible to make the final degree project (second cycle) abroad.

For more information contact the international coordinator at CSC.

**Degree project**

*Degree project, first cycle*

A degree project of 15 ECTS credits (first cycle) is done during study year 3.

KTH comprehensive rules and guidelines for degree projects of 15 ECTS credits for Degree of Bachelor of Science 180 ECTS credits, and grading of the project are found in the KTH regulations.


*Degree project, second cycle*

A second degree project of 30 ECTS credits (second cycle) is done during study year 5.

KTH comprehensive rules and guidelines for degree projects of 30 ECTS credits for Degree of Master of Science in Engineering, Degree Programme in Computer Science and Technology 300 ECTS credits, and grading of the project is found in the KTH regulations.

[http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/examensarbete/1.27205](http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/examensarbete/1.27205)

*Second cycle degree project for the Degree of Master of Science in Engineering can be performed in the following subjects:*


Other subjects for the degree project may be considered upon application. For more information, contact the CSC program office.

It is the responsibility of the student to find a suitable project task.

**Degree**

*Application for graduation*

Students may apply for the following degrees: Degree of Bachelor of Science and Degree of Master of Science in Engineering, Degree Programme in Media Technology. Students can also request for Degree of Master of Science (Two Years) if the requirements for this degree are met.
Instructions for the application are available on the KTH student web.

**Conditions for the Degree of Bachelor of Science 180 ECTS credits**
The Degree of Bachelor of Science is received if the student applies for graduation after the completion of the 3rd study year and fulfills the national degree requirements and has completed all courses within the program corresponding to 180 ECTS credits, including

- courses of at least 25 ECTS credits within mathematics-natural sciences,
- courses of at least 90 ECTS credits (including 15 ECTS credits from the degree project) with successive progression in the main field of education.

**Degree name**
Teknologie kandidatexamen
Degree of Bachelor of Science

**Conditions for the Degree of Master of Science in Engineering 300 ECTS credits**
The Master of Science in Engineering degree is received after completing the programme. The programme is designed so that the student fulfills the national degree requirements and has completed courses corresponding to 300 ECTS credits, including

- courses of at least 45 ECTS credits within mathematics-natural sciences, and, in addition, courses of at least 180 higher ECTS credits (including 30 ECTS credits from the degree project) in the subjects central to the technical area
- courses of at least 90 ECTS credits in the second cycle, whereof at least 60 ECTS credits (including 30 ECTS credits from degree project) in the subjects central to the technical area, i.e. media technology

**Degree name**
Civilingenjörsexamen
Degree of Master of Science in Engineering, Degree Programme in Computer Science and Technology

**Conditions for Degree of Master of Science (Two Years) 120 ECTS credits.**
See KTH regulations (see link below).

**Degree name**
Teknologie masterexamen
Degree of Master of Science (Two Years)

**Information on degree requirements in the KTH regulations:**
http://intra.kth.se/reglerverk/utbildning-forskning/grundutbildning/examina/1.27227?l=en_UK
Appendix 1 - Course list
Appendix 2 - Programme syllabus descriptions
Appendix 1: Course list

Degree Programme in Media Technology (CMETE), Programme syllabus for studies starting in autumn 2010

**General courses**

**Year 1**

Mandatory courses (62.5 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD1314</td>
<td>Programming for Interactive Media</td>
<td>8.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DH1609</td>
<td>Communication and information</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>DM1570</td>
<td>Graphic Arts Technology 1</td>
<td>7.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td><em>First course of the specialization Printed communication</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DM1571</td>
<td>Introduction to Media Technology</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DM1578</td>
<td>Program Integrating Course in Media Technology</td>
<td>7.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td><em>3 cr belong to study year 3, distributed as 0.75 cr each study period</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MF1035</td>
<td>Electrical Engineering, Basic Course Media</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1624</td>
<td>Algebra and Geometry</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1625</td>
<td>Calculus in One Variable</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td><em>Calculus in several variables is taken during study year 3</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK1120</td>
<td>Waves</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
</tbody>
</table>

Optional courses

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF1611</td>
<td>Introductory Course in Mathematics I</td>
<td>1.5</td>
<td>First cycle</td>
</tr>
</tbody>
</table>

**Supplementary information**

Batch 10 take the first study year during the academic year 2010/11.

The course DM1578 Program Integrating Course in Media Technology is taken during study years 1–3 and divided into 3 cr during year 1, 2 cr during year 2, and 2 cr during year 3.
# Year 2

## Mandatory courses (58.0 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD1RD1</td>
<td>Reflective Design Process</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>DD1320</td>
<td>Applied Computer Science</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DD1334</td>
<td>Database Technology</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DM1576</td>
<td>Image and Video Technology</td>
<td>9.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DM1578</td>
<td>Program Integrating Course in Media Technology</td>
<td>7.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td>2 cr belong to study year 2, distributed as 0.5 cr each study period</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT1174</td>
<td>Sound as an Information Medium</td>
<td>9.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>ME1003</td>
<td>Industrial Management, Basic Course</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1626</td>
<td>Calculus in Several Variable</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
</tbody>
</table>

## Conditionally elective courses

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN1214</td>
<td>Numerical Methods, Basic Course</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DT1130</td>
<td>Spectral Transforms</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td>Should not be taken during year 2 since calculus in several variables should be taken first</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF1610</td>
<td>Discrete Mathematics</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1901</td>
<td>Probability Theory and Statistics</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
</tbody>
</table>

## Supplementary information

Batch 10 take the second study year during 2011/12.

At least 12 credits of the conditionally elective mathematics courses must be taken during the program.

# Year 3

## Mandatory courses (35.5 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK2203</td>
<td>Media, Technology and Culture</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DH2620</td>
<td>Human-Computer Interaction, Introductory Course</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DM129X</td>
<td>Degree Project in Media Technology, First Cycle</td>
<td>15.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DM1578</td>
<td>Program Integrating Course in Media Technology</td>
<td>7.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td>2 credits belong to study year 3; 0.5 cr per study period</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Conditionally elective courses

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN1214</td>
<td>Numerical Methods, Basic Course</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td>DT1130</td>
<td>Spectral Transforms</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1610</td>
<td>Discrete Mathematics</td>
<td>7.5</td>
<td>First cycle</td>
</tr>
<tr>
<td>SF1901</td>
<td>Probability Theory and Statistics</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
</tbody>
</table>

Supplementary information

Specializations

Students on the media technology program take two specializations. The first specialization is taken during study year 3 and the second within the frame of the master's program. Besides the defined specializations below it is possible to make an individual specialization, that must be approved by the program co-ordinator.

Elective courses

There is room for elective courses/conditionally elective mathematics courses. At least 12 credits of the conditionally elective mathematics courses must be taken during the program. Please note that some of the specializations that can be chosen for the third study year demands one or two of the elective mathematics courses.

Year 4

Mandatory courses (7.5 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM2573</td>
<td>Sustainability and Media Technology</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
</tbody>
</table>

Supplementary information

Media batch 10 will be in study year 4 during 2013/14.

During study years 4 and 5 the students follow a master program of their choice. For each year a list of master programs that may be chosen is established.

Year 5

Supplementary information

Media batch 10 will be in study year 5 during 2014/15.

There are compulsory courses during study year 5. These will be decided during the fall of 2013.

During study years 4 and 5 the students follow a master program of their choice. For each year a list of master programs that may be chosen is established.
Image and Video Technology (BVT)

Year 1

Year 2

Year 3

Mandatory courses (33.0 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD2423</td>
<td>Image Analysis and Computer Vision</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td></td>
<td>Either EQ1260+EN2401 or DD2423</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DM2581</td>
<td>Media Distribution</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>EN2401</td>
<td>Image and Video Processing</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td></td>
<td>Either EQ1260+EN2401 or DD2423</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EQ1260</td>
<td>Signal Processing</td>
<td>6.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td>Either EQ1260+EN2401 or DD2423</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK2375</td>
<td>Optics, Supplementary Course for the Media Programme</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
</tbody>
</table>

Recommended courses

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD1105</td>
<td>Matlab</td>
<td>3.0</td>
<td>First cycle</td>
</tr>
<tr>
<td></td>
<td>Recommended instead of EN2401</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Year 4

Year 5

Interactive Media Technology (INMT)

Year 1

Year 2

Year 3

Mandatory courses (22.5 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD2310</td>
<td>Java Programming for Python Programmers</td>
<td>1.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DD2390</td>
<td>Internet Programming</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DM2517</td>
<td>XML for Publishing</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Edu. level</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------</td>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>DM2518</td>
<td>Mobile Development with Web Technologies</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
</tbody>
</table>

**Year 4**

**Year 5**

**Audio Technology (LJD)**

**Year 1**

**Year 2**

**Year 3**

**Mandatory courses (22.5 credits)**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT2112</td>
<td>Speech Technology</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DT2213</td>
<td>Musical Communication and Music Technology</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>DT2410</td>
<td>Audio Technology</td>
<td>7.5</td>
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**Year 4**

**Year 5**

**Print Communication (TRK)**

**Year 1**

**Year 2**

**Year 3**

**Mandatory courses (22.5 credits)**

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<td>XML for Publishing</td>
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**Year 4**

**Year 5**
Appendix 2: Specialisations

Degree Programme in Media Technology (CMETE), Programme syllabus for studies starting in autumn 2010

Image and Video Technology (BVT)
Interactive Media Technology (INMT)
Audio Technology (LJD)
Print Communication (TRK)