Media Technology and Engineering, M Sc in Engineering

300 credits
Civilingenjör i medieteknik
6CMEN
Valid from: 2014 Spring semester

Determined by
Board of Studies for Computer Science and Media Technology

Date determined
Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp
Curriculum

Semester 6 (Spring 2017)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
<th>EMV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TNM085</td>
<td>Modelling Project</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TNM094</td>
<td>Media Technology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TND004</td>
<td>Data Structures</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TNM094</td>
<td>Media Technology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

Semester 7 (Autumn 2017)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
<th>EMV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDB84</td>
<td>Design Patterns</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIO87</td>
<td>Project Management</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TGTV01</td>
<td>Technology and Ethics</td>
<td>6</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THEN09</td>
<td>Advanced English</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TNCG15</td>
<td>Advanced Global Illumination and Rendering</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TNM031</td>
<td>Network Programming and Security</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TNM054</td>
<td>Sound Technology I</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TNM067</td>
<td>Scientific Visualization</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDC73</td>
<td>Interaction Programming</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TEIO87</td>
<td>Project Management</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>THEN09</td>
<td>Advanced English</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TNM034</td>
<td>Advanced Image Processing</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TNM069</td>
<td>Graphics Design and Communication</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TNM084</td>
<td>Procedural Methods for Images</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TNM086</td>
<td>Virtual Reality Techniques</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBB09</td>
<td>Image Sensors</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>
## Semester 8 (Spring 2018)

<table>
<thead>
<tr>
<th>Period 1</th>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
<th>EMV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TEIE53</td>
<td>Industrial Economics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNKA08</td>
<td>Rhetoric</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM048</td>
<td>Information Visualisation</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM097</td>
<td>Image Reproduction and Image Quality</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM099</td>
<td>VFX Film Production</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM100</td>
<td>Structural Methods for User Experience (UX)</td>
<td>6*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TSBK35</td>
<td>Audio and Image Compression</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Period 2</th>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
<th>EMV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TDDC78</td>
<td>Programming of Parallel Computers - Methods and Tools</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TDDD27</td>
<td>Advanced Web Programming</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM079</td>
<td>Modelling and Animation</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM096</td>
<td>Artificial Intelligence - Principles and Techniques</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM098</td>
<td>Advanced Visual Data Analysis</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>TNM100</td>
<td>Structural Methods for User Experience (UX)</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>
### Semester 9 (Autumn 2018)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNM089</td>
<td>Imaging Technology</td>
<td>6</td>
<td>A1</td>
<td>1</td>
</tr>
<tr>
<td>TNM091</td>
<td>Media Production for Immersive Environments</td>
<td>6*</td>
<td>A1</td>
<td>1</td>
</tr>
<tr>
<td>TNM095</td>
<td>Artificial Intelligence for Interactive Media</td>
<td>6</td>
<td>A1</td>
<td>2</td>
</tr>
<tr>
<td>TSBK03</td>
<td>Advanced Game Programming</td>
<td>6*</td>
<td>A1</td>
<td>1</td>
</tr>
</tbody>
</table>

### Semester 10 (Spring 2019)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
</tr>
</thead>
<tbody>
<tr>
<td>TQxx33</td>
<td>Degree project - Master’s Thesis</td>
<td>30*</td>
<td>A1</td>
<td>-</td>
</tr>
</tbody>
</table>

### Semester 10 (Spring 2019) - Period 2

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Level</th>
<th>Timetable module</th>
</tr>
</thead>
<tbody>
<tr>
<td>TQxx33</td>
<td>Degree project - Master’s Thesis</td>
<td>30*</td>
<td>A1</td>
<td>-</td>
</tr>
</tbody>
</table>