Industrial Engineering and Management, M Sc in Engineering

300 credits
Civilingenjör i industriell ekonomi
6CIII
Valid from: 2016 Spring semester

Determined by
Board of Studies for Industrial Engineering and Logistics

Date determined
2016-01-19
Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp
## Curriculum

### Semester 2 (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>TATA42</td>
<td>Calculus in One Variable 2</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDDD11</td>
<td>Introduction to Programming</td>
<td>8*</td>
<td>G1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TEIO61</td>
<td>Industrial Management</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAOP52</td>
<td>Introduction to Operations Research</td>
<td>4</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TATA69</td>
<td>Calculus in Several Variables</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDDD11</td>
<td>Introduction to Programming</td>
<td>8*</td>
<td>G1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Semester 3 (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>TKMJ51</td>
<td>Corporate Sustainability Management</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TMME27</td>
<td>Engineering Mechanics</td>
<td>10*</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TSRT22</td>
<td>Automatic Control</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAMS79</td>
<td>Mathematical Statistics, First Course</td>
<td>4</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TMME27</td>
<td>Engineering Mechanics</td>
<td>10*</td>
<td>G1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TPPE98</td>
<td>Economic Analysis: Economic Theory</td>
<td>4</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>
### Semester 4 (Spring 2018)

<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>TAM565</td>
<td>Mathematical Statistics, second course</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TAO62</td>
<td>Operations Research, Extended Course</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TDDE10</td>
<td>Object Oriented Programming in Java</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TFBI11</td>
<td>Genetics and Evolution</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMMV04</td>
<td>Engineering Thermodynamics</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPT07</td>
<td>Manufacturing Technology</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSEA22</td>
<td>Switching Theory and Logical Design</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT04</td>
<td>Introduction in Matlab</td>
<td>2</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAM565</td>
<td>Mathematical Statistics, second course</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TATS82</td>
<td>Discrete Mathematics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TFKE52</td>
<td>Fundamentals of Chemistry</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TM5544</td>
<td>Energy Systems - Supply and Demand</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKT14</td>
<td>CAD and Machine Elements</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSEA57</td>
<td>Computer Hardware and Architecture</td>
<td>6</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSRT04</td>
<td>Introduction in Matlab</td>
<td>2</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TPTE06</td>
<td>Industrial Placement</td>
<td>6</td>
<td>G1X</td>
<td>-</td>
<td>V</td>
</tr>
</tbody>
</table>

**Specialisation: Biotechnical Engineering Specialization**

<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>TFBI11</td>
<td>Genetics and Evolution</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFKE52</td>
<td>Fundamentals of Chemistry</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>
## Specialisation: Computer Science and Engineering Specialization

<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>TDDE10</td>
<td>Object Oriented Programming in Java</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TATA82</td>
<td>Discrete Mathematics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

## Specialisation: Electrical Engineering Specialization

<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>TSEA22</td>
<td>Switching Theory and Logical Design</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSEA57</td>
<td>Computer Hardware and Architecture</td>
<td>6</td>
<td>G1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

## Specialisation: Energy Engineering Specialization

<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>TMMV04</td>
<td>Engineering Thermodynamics</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMES44</td>
<td>Energy Systems - Supply and Demand</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

## Specialisation: Mechanical Engineering Specialization

<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>TMPT07</td>
<td>Manufacturing Technology</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMKT14</td>
<td>CAD and Machine Elements</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

## Semester 5 (Autumn 2018)

<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>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE22</td>
<td>Data Structures and Algorithms</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TEIO91</td>
<td>Project Management</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TFBI22</td>
<td>Cell Biology and Microbial Processes</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>THEN18</td>
<td>English</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THFR05</td>
<td>Communicative French</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THSP05</td>
<td>Spanish</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THTY05</td>
<td>German</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMHL22</td>
<td>Solid Mechanics</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKM86</td>
<td>Engineering Materials</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMV11</td>
<td>Fluid Mechanics and Heat Transfer</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMMV57</td>
<td>Applied Energy Engineering</td>
<td>6*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TPPE13</td>
<td>Production and Operations Management</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TSDD84</td>
<td>Signals and Systems, and Transform Theory</td>
<td>8*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSEA52</td>
<td>Switching Theory and Logical Design</td>
<td>6*</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSEM95</td>
<td>Electronics</td>
<td>4</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>NBIB45</td>
<td>Principles in Physiology and Ethics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDTS10</td>
<td>Computer Architecture</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TEAE05</td>
<td>Resource Theory</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TEIM03</td>
<td>Intercultural Communication</td>
<td>4</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIO04</td>
<td>Project Management</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TEIO91</td>
<td>Project Management</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>THEN18</td>
<td>English</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THFR05</td>
<td>Communicative French</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THSP05</td>
<td>Spanish</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THTY05</td>
<td>German</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ35</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ39</td>
<td>Resource Efficient Products and Production</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKM86</td>
<td>Engineering Materials</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMI46</td>
<td>Industrial Automation</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMMV57</td>
<td>Applied Energy Engineering</td>
<td>6*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSDD84</td>
<td>Signals and Systems, and Transform Theory</td>
<td>8*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Biotechnical Engineering Specialization

<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>TFBI22</td>
<td>Cell Biology and Microbial Processes</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>NBIB45</td>
<td>Principles in Physiology and Ethics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TKMJ35</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Computer Science and Engineering Specialization

<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>TDDE22</td>
<td>Data Structures and Algorithms</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSEA52</td>
<td>Switching Theory and Logical Design</td>
<td>6*</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDTS10</td>
<td>Computer Architecture</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TSEA52</td>
<td>Switching Theory and Logical Design</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Electrical Engineering Specialization

<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>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TSDT84</td>
<td>Signals and Systems, and Transform Theory</td>
<td>8*</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TSTE95</td>
<td>Electronics</td>
<td>4</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TSDT84</td>
<td>Signals and Systems, and Transform Theory</td>
<td>8*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Energy Engineering Specialization

<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>TMMV11</td>
<td>Fluid Mechanics and Heat Transfer</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TMMV57</td>
<td>Applied Energy Engineering</td>
<td>6*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TKMJ39</td>
<td>Resource Efficient Products and Production</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMMV57</td>
<td>Applied Energy Engineering</td>
<td>6*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Mechanical Engineering Specialization

<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>TMHL22</td>
<td>Solid Mechanics</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TMKM86</td>
<td>Engineering Materials</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMKM86</td>
<td>Engineering Materials</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TMMI46</td>
<td>Industrial Automation</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TDDD81</td>
<td>Database Technology</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD83</td>
<td>Computer Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>1/3</td>
<td>E</td>
</tr>
<tr>
<td>TEIM32</td>
<td>Industrial Marketing</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TFBI23</td>
<td>Ecology and the Environment</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TFBI24</td>
<td>Biotechnology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TFYA89</td>
<td>Natural Sciences for Engineers - Principles and Applications</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>THFR05</td>
<td>Communicative French</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THSP05</td>
<td>Spanish</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THTY05</td>
<td>German</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMV04</td>
<td>Engineering Thermodynamics</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMMV16</td>
<td>Energy Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMMV58</td>
<td>Modelling and Simulation of Energy and Heat Transfer Processes</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMP532</td>
<td>Mechanical Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSBB18</td>
<td>Embedded Perception Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSEA56</td>
<td>Electronics Engineering - Bachelor Project</td>
<td>16*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD81</td>
<td>Database Technology</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD83</td>
<td>Computer Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>1/3</td>
<td>E</td>
</tr>
<tr>
<td>TFBI24</td>
<td>Biotechnology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>2/3/4</td>
<td>E</td>
</tr>
<tr>
<td>TFYA89</td>
<td>Natural Sciences for Engineers - Principles and Applications</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>THFR05</td>
<td>Communicative French</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THSP05</td>
<td>Spanish</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>THTY05</td>
<td>German</td>
<td>6*</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMV16</td>
<td>Energy Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMP532</td>
<td>Mechanical Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSEA56</td>
<td>Electronics Engineering - Bachelor Project</td>
<td>16*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TSKS10</td>
<td>Signals, Information and Communication</td>
<td>4</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Biotechnical Engineering Specialization

<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>TFBI23</td>
<td>Ecology and the Environment</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TFBI24</td>
<td>Biotechnology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TFBI24</td>
<td>Biotechnology - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>2/3/4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Computer Science and Engineering Specialization

<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>TDDD81</td>
<td>Database Technology</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDDD83</td>
<td>Computer Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>1/3</td>
<td>M</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TDDD81</td>
<td>Database Technology</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TDDD83</td>
<td>Computer Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>1/3</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Electrical Engineering Specialization

<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>TSBB18</td>
<td>Embedded Perception Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TSEA56</td>
<td>Electronics Engineering - Bachelor Project</td>
<td>16*</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TSEA56</td>
<td>Electronics Engineering - Bachelor Project</td>
<td>16*</td>
<td>G2X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td>TSKS10</td>
<td>Signals, Information and Communication</td>
<td>4</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Energy Engineering Specialization

<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>TMMV16</td>
<td>Energy Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TMMV58</td>
<td>Modelling and Simulation of Energy and Heat Transfer Processes</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TMMV16</td>
<td>Energy Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Mechanical Engineering Specialization

<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>TMMV04</td>
<td>Engineering Thermodynamics</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TMPS32</td>
<td>Mechanical Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TMPS32</td>
<td>Mechanical Engineering - Bachelor Project</td>
<td>18*</td>
<td>G2X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>

### Semester 7 (Autumn 2019)

<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>TAMS32</td>
<td>Stochastic Processes</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TAMS46</td>
<td>Probability Theory, Second Course</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TANA21</td>
<td>Scientific Computing</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TAOP34</td>
<td>Large Scale Optimization</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TATA34</td>
<td>Real Analysis, Honours Course</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TATA44</td>
<td>Vector Analysis</td>
<td>4</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TATM38</td>
<td>Mathematical Models in Biology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDC17</td>
<td>Artificial Intelligence</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDC88</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDD23</td>
<td>Design and Programming of Computer Games</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD43</td>
<td>Advanced Data Models and Databases</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDEI72</td>
<td>Strategy and Digitisation - Technology, Standards and Network Effects</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIE72</td>
<td>Corporate Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIO07</td>
<td>Project Based Organization and Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIO90</td>
<td>Innovation Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TETS23</td>
<td>Purchasing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TETS37</td>
<td>Basics in Logistics Management</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ14</td>
<td>Large Technical Systems and the Environment</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ31</td>
<td>Biofuels for Transportation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ49</td>
<td>Environmentally Driven Business Development</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TME509</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TME527</td>
<td>Modelling of Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKM16</td>
<td>Sustainable Material Selection</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKT80</td>
<td>Wood - Material</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPS33</td>
<td>Virtual Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMPS35</td>
<td>Emerging Factory Technologies</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPT03</td>
<td>Production Engineering - Continuing Course</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU03</td>
<td>Quality Management and Engineering</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE16</td>
<td>Manufacturing Strategies</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE17</td>
<td>Corporate Finance</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBB08</td>
<td>Digital Image Processing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSDD14</td>
<td>Signal Theory</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSDD15</td>
<td>Detection and Estimation of Signals</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT62</td>
<td>Modelling and Simulation</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>NBID31</td>
<td>Modelling of Biological Systems</td>
<td>6</td>
<td>A1X</td>
<td>3/4</td>
<td>E</td>
</tr>
<tr>
<td>TAOP04</td>
<td>Mathematical Optimization</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TATA34</td>
<td>Real Analysis, Honours Course</td>
<td>6*</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TATA45</td>
<td>Complex Analysis</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDD08</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDD10</td>
<td>Real Time Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TDDD43</td>
<td>Advanced Data Models and Databases</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE01</td>
<td>Machine Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDEI19</td>
<td>Management Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TDEI21</td>
<td>Strategic Organisational Application of IT - Workflow and Knowledge Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIE42</td>
<td>Industrial Sales Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEFM10</td>
<td>Industrial Service Development</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TETS27</td>
<td>Supply Chain Logistics</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TFBI17</td>
<td>Advanced Project Course in Ecosystem Service Valuation</td>
<td>6</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TFYA96</td>
<td>The physics behind technology</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ35</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TEFM49</td>
<td>Environmentally Driven Business Development</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TME545</td>
<td>Energy Planning and Modelling of Communities</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMHL63</td>
<td>Introduction to Computational Mechanics</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMHP03</td>
<td>Engineering Systems Design</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKM90</td>
<td>Engineering Materials - Deformation and Fracture</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT71</td>
<td>Affective Engineering</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT81</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKU02</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMMV18</td>
<td>Fluid Mechanics</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPS22</td>
<td>Assembly Technology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPS31</td>
<td>Sustainable Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMQU12</td>
<td>Lean Production</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE29</td>
<td>Financial Markets and Instruments</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE76</td>
<td>Operations Planning and Control</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>3</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>
<tr>
<td>TSEA81</td>
<td>Computer Engineering and Real-time Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSIT02</td>
<td>Computer Security</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS01</td>
<td>Digital Communication</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSKS11</td>
<td>Networks: Models, Algorithms and Applications</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSRT78</td>
<td>Digital Signal Processing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Biotechnical Engineering Specialization

<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>TATM38</td>
<td>Mathematical Models in Biology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ31</td>
<td>Biofuels for Transportation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>NBID31</td>
<td>Modelling of Biological Systems</td>
<td>6</td>
<td>A1X</td>
<td>3/4</td>
<td>M</td>
</tr>
<tr>
<td>TFB117</td>
<td>Advanced Project Course in Ecosystem Service Valuation</td>
<td>6</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ35</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Computer Science and Engineering Specialization

**Period 1**

<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>TDDC17</td>
<td>Artificial Intelligence</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDC88</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TDDD23</td>
<td>Design and Programming of Computer Games</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TDDC88</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TDDE01</td>
<td>Machine Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE18</td>
<td>Programming C++</td>
<td>6*</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSIT02</td>
<td>Computer Security</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSK11</td>
<td>Networks: Models, Algorithms and Applications</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Electrical Engineering Specialization

<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>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBB08</td>
<td>Digital Image Processing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSDT14</td>
<td>Signal Theory</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSKS01</td>
<td>Digital Communication</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSKS15</td>
<td>Detection and Estimation of Signals</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT62</td>
<td>Modelling and Simulation</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>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>3</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>
<tr>
<td>TSEA81</td>
<td>Computer Engineering and Real-time Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSIT02</td>
<td>Computer Security</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS01</td>
<td>Digital Communication</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSKS11</td>
<td>Networks: Models, Algorithms and Applications</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSRT78</td>
<td>Digital Signal Processing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Energy Engineering Specialization

<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>TKMJ14</td>
<td>Large Technical Systems and the Environment</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMES09</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES27</td>
<td>Modelling of Energy Systems</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>TMES45</td>
<td>Energy Planning and Modelling of Communities</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMV18</td>
<td>Fluid Mechanics</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Automatic Control

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSĐT14</td>
<td>Signal Theory</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TSRT62</td>
<td>Modelling and Simulation</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSEA81</td>
<td>Computer Engineering and Real-time Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSRT78</td>
<td>Digital Signal Processing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Computer Science and Engineering

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDC88</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDC88</td>
<td>Software Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Digitisation and Management

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDEI72</td>
<td>Strategy and Digitisation - Technology, Standards and Network Effects</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDEI19</td>
<td>Management Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDEI21</td>
<td>Strategic Organisational Application of IT - Workflow and Knowledge Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Energy Engineering

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMES09</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES27</td>
<td>Modelling of Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMMV18</td>
<td>Fluid Mechanics</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Finance

<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>TPPE17</td>
<td>Corporate Finance</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE29</td>
<td>Financial Markets and Instruments</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Industrial Marketing

<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>TEIE72</td>
<td>Corporate Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIE42</td>
<td>Industrial Sales Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M/E</td>
</tr>
<tr>
<td>TEIM10</td>
<td>Industrial Service Development</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M/E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Logistics Management

<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>TETS23</td>
<td>Purchasing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TETS37</td>
<td>Basics in Logistics Management</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TETS27</td>
<td>Supply Chain Logistics</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M/E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Manufacturing

<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>TMPS33</td>
<td>Virtual Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMPS35</td>
<td>Emerging Factory Technologies</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPT03</td>
<td>Production Engineering - Continuing Course</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPS22</td>
<td>Assembly Technology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>TMPS31</td>
<td>Sustainable Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>
**Specialisation: Master Profile Operations Management**

<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>TPPE16</td>
<td>Manufacturing Strategies</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TPPE76</td>
<td>Operations Planning and Control</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>

**Specialisation: Master Profile Product Development**

<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 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMHP03</td>
<td>Engineering Systems Design</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>

**Specialisation: Master Profile Project, Innovation and Entrepreneurship**

<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>TEIO07</td>
<td>Project Based Organization and Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIO90</td>
<td>Innovation Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TJKM49</td>
<td>Environmentally Driven Business Development</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>TJKM49</td>
<td>Environmentally Driven Business Development</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

**Specialisation: Master Profile Quality Technology and Management**

<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>TMQU03</td>
<td>Quality Management and Engineering</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMQU12</td>
<td>Lean Production</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
## Specialisation: Master Profile Signal and Image Processing

<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>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBB08</td>
<td>Digital Image Processing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TSDT14</td>
<td>Signal Theory</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSBB06</td>
<td>Multidimensional Signal Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>3</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>
<tr>
<td>TSRT78</td>
<td>Digital Signal Processing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

## Specialisation: Master Profile Strategic Management and Control

<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>TEIE72</td>
<td>Corporate Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TEIO90</td>
<td>Innovation Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ49</td>
<td>Environmentally Driven Business Development</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TPPE16</td>
<td>Manufacturing Strategies</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDEI19</td>
<td>Management Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDEI21</td>
<td>Strategic Organisational Application of IT - Workflow and Knowledge Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIE42</td>
<td>Industrial Sales Management</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ49</td>
<td>Environmentally Driven Business Development</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

## Specialisation: Master Profile Telecommunication

<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>TSDT14</td>
<td>Signal Theory</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TSKS01</td>
<td>Digital Communication</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TSKS15</td>
<td>Detection and Estimation of Signals</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSKS01</td>
<td>Digital Communication</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Wood Technology

<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>TMKM16</td>
<td>Sustainable Material Selection</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKT80</td>
<td>Wood - Material</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TMKT81</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>TMKU02</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Mechanical Engineering Specialization

<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>TANA21</td>
<td>Scientific Computing</td>
<td>6</td>
<td>G1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKM16</td>
<td>Sustainable Material Selection</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKT80</td>
<td>Wood - Material</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPS33</td>
<td>Virtual Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMPS35</td>
<td>Emerging Factory Technologies</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPT03</td>
<td>Production Engineering - Continuing Course</td>
<td>6</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMHM03</td>
<td>Engineering Systems Design</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKM90</td>
<td>Engineering Materials - Deformation and Fracture</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT71</td>
<td>Affective Engineering</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT81</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKU02</td>
<td>Wood - Realisation</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPS22</td>
<td>Assembly Technology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPS31</td>
<td>Sustainable Manufacturing</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

### Semester 8 (Spring 2020)

<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>NBIC50</td>
<td>Ecotoxicology and Environmental Monitoring</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAM529</td>
<td>Stochastic Processes Applied to Financial Models</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TATA53</td>
<td>Linear Algebra, Honours Course</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TBM126</td>
<td>Neural Networks and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDD868</td>
<td>Concurrent Programming and Operating Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD12</td>
<td>Information Security, Second Course</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD20</td>
<td>Design and Analysis of Algorithms</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD41</td>
<td>Data Mining - Clustering and Association Analysis</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD51</td>
<td>Service Design and Innovation</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD57</td>
<td>Physical Interaction and Game Programming</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDD75</td>
<td>Effect-Driven Development and Human-Centered Design of Interactive Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD97</td>
<td>Web Programming</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDE46</td>
<td>Software Quality</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDEI71</td>
<td>Digitisation, Business Ecologies and Business Models</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDTS04</td>
<td>Computer Networks and Distributed Systems</td>
<td>8</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIE06</td>
<td>Corporate Planning</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td>TEIE88</td>
<td>Computer Law</td>
<td>4</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TEIM09</td>
<td>International Business</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO13</td>
<td>Leadership and Organizational Change</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS57</td>
<td>Logistics Analysis</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TFYA45</td>
<td>Biotechnology Project</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TFYA62</td>
<td>Introduction to Biosensor Technology</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TFYA85</td>
<td>Alternative Energy Sources and their Applications</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TGTU91</td>
<td>Oral and Written Communication</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TGTU94</td>
<td>Technology and Ethics</td>
<td>6</td>
<td>G1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ10</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ47</td>
<td>Environmental Systems Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TEM17</td>
<td>Building Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TMES43</td>
<td>Analysis and Modelling of Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKA04</td>
<td>Wood - Innovation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKT48</td>
<td>Design Optimization</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKT74</td>
<td>Advanced CAD</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMS21</td>
<td>Mechatronics</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMSA42</td>
<td>Production System Automation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMQU31</td>
<td>Statistical Quality Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE32</td>
<td>Financial Risk Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE78</td>
<td>Quantitative Models and Analysis in Operations Management</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK08</td>
<td>Data Compression</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS13</td>
<td>Wireless Communications</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSRT07</td>
<td>Industrial Control Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT09</td>
<td>Control Theory</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSTE08</td>
<td>Analog and Discrete-Time Integrated Circuits</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TVCB11</td>
<td>Cellbiological Methodology</td>
<td>6</td>
<td>G2X</td>
<td>1/4</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TATA53</td>
<td>Linear Algebra, Honours Course</td>
<td>6*</td>
<td>G2X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TDDD78</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>TDDD17</td>
<td>Information Security, Second Course</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD27</td>
<td>Advanced Web Programming</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TDDE07</td>
<td>Bayesian Learning</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE31</td>
<td>Big Data Analytics</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDE41</td>
<td>Software Architectures</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE46</td>
<td>Software Quality</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDEI35</td>
<td>Strategy and Management Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEAE13</td>
<td>Civil and Commercial Law</td>
<td>6</td>
<td>G1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIE06</td>
<td>Corporate Planning</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td>TEIM07</td>
<td>Industrial Market Research</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO06</td>
<td>Innovative Entrepreneurship</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TEIO41</td>
<td>Corporate Social Responsibility</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TETS36</td>
<td>Sustainable Logistics Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS56</td>
<td>Logistics and Quality in Health Care</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TFYA45</td>
<td>Biotechnology Project</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TGTV95</td>
<td>Philosophy of Science and Technology</td>
<td>6</td>
<td>G1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ47</td>
<td>Environmental Systems Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMES21</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES41</td>
<td>Strategic Development of Sustainable Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT57</td>
<td>Product Modelling</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKT77</td>
<td>System Safety</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMKT83</td>
<td>Small Scale Renewable Energy Conversion</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMME11</td>
<td>Road Vehicle Dynamics</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPS27</td>
<td>Production Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMQU04</td>
<td>Six Sigma Quality</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU13</td>
<td>Customer Focused Product and Service Development</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE33</td>
<td>Portfolio Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE74</td>
<td>Design and Development of Manufacturing Operations</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK02</td>
<td>Image and Audio Coding</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSFS06</td>
<td>Diagnosis and Supervision</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSKS14</td>
<td>Multiple Antenna Communications</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSKS16</td>
<td>Signal Processing for Communications</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSRT14</td>
<td>Sensor Fusion</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Biotechnical Engineering Specialization

<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>NBIC50</td>
<td>Ecotoxicology and Environmental Monitoring</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TFYA45</td>
<td>Biotechnology Project</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TFYA85</td>
<td>Alternative Energy Sources and their Applications</td>
<td>6</td>
<td>G2X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ47</td>
<td>Environmental Systems Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

#### Period 2

<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>TFYA45</td>
<td>Biotechnology Project</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ47</td>
<td>Environmental Systems Analysis</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Computer Science and Engineering Specialization

<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>TBMI26</td>
<td>Neural Networks and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD868</td>
<td>Concurrent Programming and Operating Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD17</td>
<td>Information Security, Second Course</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD20</td>
<td>Design and Analysis of Algorithms</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDD41</td>
<td>Data Mining - Clustering and Association Analysis</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD75</td>
<td>Effect-Driven Development and Human-Centered Design of Interactive Systems</td>
<td>6</td>
<td>G2X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDTS04</td>
<td>Computer Networks and Distributed Systems</td>
<td>8</td>
<td>G2X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

#### Period 2

<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>TDDD17</td>
<td>Information Security, Second Course</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDDD27</td>
<td>Advanced Web Programming</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD38</td>
<td>Advanced Programming in C++</td>
<td>6*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TDDE07</td>
<td>Bayesian Learning</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE31</td>
<td>Big Data Analytics</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDE41</td>
<td>Software Architectures</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>
## Specialisation: Electrical Engineering Specialization

<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>TBMI26</td>
<td>Neural Networks and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK08</td>
<td>Data Compression</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS13</td>
<td>Wireless Communications</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSRT07</td>
<td>Industrial Control Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT09</td>
<td>Control Theory</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>TSBK02</td>
<td>Image and Audio Coding</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSFS06</td>
<td>Diagnosis and Supervision</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSKS14</td>
<td>Multiple Antenna Communications</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSKS16</td>
<td>Signal Processing for Communications</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSRT14</td>
<td>Sensor Fusion</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

## Specialisation: Energy Engineering Specialization

<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>TKMJ10</td>
<td>Industrial Ecology</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMES17</td>
<td>Building Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES43</td>
<td>Analysis and Modelling of Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMES21</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES41</td>
<td>Strategic Development of Sustainable Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMKT83</td>
<td>Small Scale Renewable Energy Conversion</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>
## Specialisation: Master Profile Automatic Control

<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>TSRT07</td>
<td>Industrial Control Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSRT09</td>
<td>Control Theory</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>TSFS06</td>
<td>Diagnosis and Supervision</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSRT14</td>
<td>Sensor Fusion</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

## Specialisation: Master Profile Computer Science and Engineering

<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 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDE41</td>
<td>Software Architectures</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

## Specialisation: Master Profile Digitisation and Management

<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>TDEI71</td>
<td>Digitisation, Business Ecologies and Business Models</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDEI35</td>
<td>Strategy and Management Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>

## Specialisation: Master Profile Energy Engineering

<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>TMES17</td>
<td>Building Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMES43</td>
<td>Analysis and Modelling of Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMES21</td>
<td>Industrial Energy Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKT83</td>
<td>Small Scale Renewable Energy Conversion</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Finance

<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>TPPE32</td>
<td>Financial Risk Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TPPE33</td>
<td>Portfolio Management</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Industrial Marketing

<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>TEIM09</td>
<td>International Business</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M/E</td>
</tr>
<tr>
<td>TEIM07</td>
<td>Industrial Market Research</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Logistics Management

<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>TETS57</td>
<td>Logistics Analysis</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M/E</td>
</tr>
<tr>
<td>TETS36</td>
<td>Sustainable Logistics Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS56</td>
<td>Logistics and Quality in Health Care</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Manufacturing

<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>TMPS42</td>
<td>Production System Automation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPS27</td>
<td>Production Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Operations Management

<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>TPPE78</td>
<td>Quantitative Models and Analysis in Operations Management</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TPPE74</td>
<td>Design and Development of Manufacturing Operations</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Product Development

<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>TMKT48</td>
<td>Design Optimization</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMKT57</td>
<td>Product Modelling</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Project, Innovation and Entrepreneurship

<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>TEIO13</td>
<td>Leadership and Organizational Change</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEIO06</td>
<td>Innovative Entrepreneurship</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO41</td>
<td>Corporate Social Responsibility</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Quality Technology and Management

<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>TMQU31</td>
<td>Statistical Quality Control</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TETS56</td>
<td>Logistics and Quality in Health Care</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU04</td>
<td>Six Sigma Quality</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M/E</td>
</tr>
<tr>
<td>TMQU13</td>
<td>Customer Focused Product and Service Development</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M/E</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Signal and Image Processing

<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>TBMI26</td>
<td>Neural Networks and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSBK02</td>
<td>Image and Audio Coding</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSBK07</td>
<td>Computer Graphics</td>
<td>6*</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Strategic Management and Control

<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>TEIM09</td>
<td>International Business</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO13</td>
<td>Leadership and Organizational Change</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEIM07</td>
<td>Industrial Market Research</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TETS36</td>
<td>Sustainable Logistics Systems</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Telecommunication

<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>TSBK08</td>
<td>Data Compression</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS13</td>
<td>Wireless Communications</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSBK02</td>
<td>Image and Audio Coding</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSKS14</td>
<td>Multiple Antenna Communications</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Wood Technology

<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>TMKA04</td>
<td>Wood - Innovation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMKT57</td>
<td>Product Modelling</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMPS27</td>
<td>Production Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Mechanical Engineering Specialization

<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>TMKA04</td>
<td>Wood - Innovation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKT48</td>
<td>Design Optimization</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKT74</td>
<td>Advanced CAD</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMMS21</td>
<td>Mechatronics</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPS42</td>
<td>Production System Automation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TMKT57</td>
<td>Product Modelling</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKT77</td>
<td>System Safety</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TMME11</td>
<td>Road Vehicle Dynamics</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPS27</td>
<td>Production Systems</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Semester 9 (Autumn 2020)

<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>TAMS39</td>
<td>Multivariate Statistical Methods</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TATM38</td>
<td>Mathematical Models in Biology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDC34</td>
<td>Technical, Economic and Societal Evaluation of IT-products</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TDDD04</td>
<td>Software Testing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE15</td>
<td>Advanced Machine Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE45</td>
<td>Software Design and Construction</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TDEI72</td>
<td>Strategy and Digitisation - Technology, Standards and Network Effects</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEAE12</td>
<td>Strategic Analysis and Methods for Strategic Change</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIM04</td>
<td>Industrial Market and Technology Strategies</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO89</td>
<td>Innovation and Entrepreneurship - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS38</td>
<td>Logistics Project</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ31</td>
<td>Biofuels for Transportation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKT79</td>
<td>Collaborative Multidisciplinary Design Optimization</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TMMP08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TMQU27</td>
<td>Quality Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU47</td>
<td>Quality Engineering and Design</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE53</td>
<td>Financial Valuation Methodology</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE66</td>
<td>Investment Valuation</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE73</td>
<td>Operations Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE99</td>
<td>Simulation in Production and Logistics</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TSFS12</td>
<td>Autonomous Vehicles - Planning, Control, and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSIT03</td>
<td>Cryptology</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS12</td>
<td>Modern Channel Coding, Inference and Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

**Period 2**

<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>TAOP18</td>
<td>Supply Chain Optimization</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDBB44</td>
<td>Compiler Construction</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDC90</td>
<td>Software Security</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDD89</td>
<td>Scientific Method</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TEAE12</td>
<td>Strategic Analysis and Methods for Strategic Change</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEAE18</td>
<td>Sustainable Value Chain Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIM04</td>
<td>Industrial Market and Technology Strategies</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIM10</td>
<td>Industrial Service Development</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TEIO89</td>
<td>Innovation and Entrepreneurship - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS31</td>
<td>Logistics Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS38</td>
<td>Logistics Project</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TFBI17</td>
<td>Advanced Project Course in Ecosystem Service Valuation</td>
<td>6</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TKMJ32</td>
<td>Integrated Product Service Engineering</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TME551</td>
<td>International Energy Markets</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMKA03</td>
<td>Industrial Design</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>Course code</td>
<td>Course name</td>
<td>Credits</td>
<td>Level</td>
<td>Timetable module</td>
<td>EMV</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------</td>
<td>---------</td>
<td>-------</td>
<td>------------------</td>
<td>-----</td>
</tr>
<tr>
<td>TMPM08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>TMQU12</td>
<td>Lean Production</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU27</td>
<td>Quality Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE61</td>
<td>Financial Optimization</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE66</td>
<td>Investment Valuation</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TPPE73</td>
<td>Operations Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSRT08</td>
<td>Optimal Control</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

**Specialisation: Biotechnical Engineering Specialization**

<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>TATM38</td>
<td>Mathematical Models in Biology</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TFBI17</td>
<td>Advanced Project Course in Ecosystem Service Valuation</td>
<td>6</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
</tbody>
</table>

**Specialisation: Computer Science and Engineering Specialization**

<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>TDDE04</td>
<td>Software Testing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TDDE15</td>
<td>Advanced Machine Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TDDE45</td>
<td>Software Design and Construction</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TSFS12</td>
<td>Autonomous Vehicles - Planning, Control, and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSIT03</td>
<td>Cryptology</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Electrical Engineering Specialization

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSFS12</td>
<td>Autonomous Vehicles - Planning, Control, and Learning Systems</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TSIT03</td>
<td>Cryptology</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TSKS12</td>
<td>Modern Channel Coding, Inference and Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSRT08</td>
<td>Optimal Control</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Energy Engineering Specialization

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TKMJ31</td>
<td>Biofuels for Transportation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Automatic Control

<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><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSRT08</td>
<td>Optimal Control</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Computer Science and Engineering

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDD04</td>
<td>Software Testing</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TDDE45</td>
<td>Software Design and Construction</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDDD89</td>
<td>Scientific Method</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Digitisation and Management

<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>TDDC34</td>
<td>Technical, Economic and Societal Evaluation of IT-products</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Energy Engineering

<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>TKMJ31</td>
<td>Biofuels for Transportation</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMPE01</td>
<td>Project Course Advanced - Energy Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Finance

<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>TPPE53</td>
<td>Financial Valuation Methodology</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE66</td>
<td>Investment Valuation</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TPPE61</td>
<td>Financial Optimization</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TPPE66</td>
<td>Investment Valuation</td>
<td>6*</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Industrial Marketing

<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>TEIM04</td>
<td>Industrial Market and Technology Strategies</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEIM04</td>
<td>Industrial Market and Technology Strategies</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Logistics Management

<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>TETS38</td>
<td>Logistics Project</td>
<td>12</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TPPE99</td>
<td>Simulation in Production and Logistics</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Period 2

<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>TETS31</td>
<td>Logistics Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TETS38</td>
<td>Logistics Project</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Manufacturing

<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>TMPM08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

### Period 2

<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>TMPM08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Operations Management

<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>TPPE73</td>
<td>Operations Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>TPPE99</td>
<td>Simulation in Production and Logistics</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

### Period 2

<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>TPPE73</td>
<td>Operations Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Product Development

<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>TMPM05</td>
<td>Project Course Advanced - Design Engineering and Product Development</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

### Period 2

<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>TMPM05</td>
<td>Project Course Advanced - Design Engineering and Product Development</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Project, Innovation and Entrepreneurship

<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>TEIO89</td>
<td>Innovation and Entrepreneurship - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEIO89</td>
<td>Innovation and Entrepreneurship - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Quality Technology and Management

<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>TMQU27</td>
<td>Quality Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TMQU47</td>
<td>Quality Engineering and Design</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMQU27</td>
<td>Quality Management - Project Course</td>
<td>12*</td>
<td>A1X</td>
<td>4</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Strategic Management and Control

<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>TDEI72</td>
<td>Strategy and Digitisation - Technology, Standards and Network Effects</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEAE12</td>
<td>Strategic Analysis and Methods for Strategic Change</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>Period 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEAE12</td>
<td>Strategic Analysis and Methods for Strategic Change</td>
<td>12*</td>
<td>A1X</td>
<td>2</td>
<td>M</td>
</tr>
<tr>
<td>TEAE18</td>
<td>Sustainable Value Chain Strategies</td>
<td>6</td>
<td>A1X</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>TEIM10</td>
<td>Industrial Service Development</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMQU12</td>
<td>Lean Production</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
</tbody>
</table>

### Specialisation: Master Profile Telecommunication

<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>TSKS12</td>
<td>Modern Channel Coding, Inference and Learning</td>
<td>6</td>
<td>A1X</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>
### Specialisation: Master Profile Wood Technology

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMPM05</td>
<td>Project Course Advanced - Design Engineering and Product Development</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMPM05</td>
<td>Project Course Advanced - Design Engineering and Product Development</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

### Specialisation: Mechanical Engineering Specialization

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMKT79</td>
<td>Collaborative Multidisciplinary Design Optimization</td>
<td>6</td>
<td>A1X</td>
<td>2</td>
<td>E</td>
</tr>
<tr>
<td>TMPM08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TKMJ32</td>
<td>Integrated Product Service Engineering</td>
<td>6</td>
<td>A1X</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>TMKA03</td>
<td>Industrial Design</td>
<td>6</td>
<td>G2X</td>
<td>1</td>
<td>E</td>
</tr>
<tr>
<td>TMPM08</td>
<td>Project Course Advanced - Manufacturing Engineering</td>
<td>12*</td>
<td>A1X</td>
<td>-</td>
<td>E</td>
</tr>
</tbody>
</table>

### Semester 10 (Spring 2021)

<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><strong>Period 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TQXX33</td>
<td>Degree project - Master’s Thesis</td>
<td>30*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
<tr>
<td><strong>Period 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TQXX33</td>
<td>Degree project - Master’s Thesis</td>
<td>30*</td>
<td>A1X</td>
<td>-</td>
<td>M</td>
</tr>
</tbody>
</table>

* The course is divided into several semesters and/or periods.