## DEPARTMENT OF COMPUTER ENGINEERING

### PREVIOUS CURRICULUM
(1. Year 1. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 1301</td>
<td>Physics I</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>MTH 1301</td>
<td>Mathematics I</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 1115</td>
<td>Introduction to Modern Biology</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 1111</td>
<td>Fundamentals of Computer Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 1113</td>
<td>Introduction to Programming</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 1117</td>
<td>Technical Writing</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Sum:</td>
<td>17</td>
<td>4</td>
<td>21</td>
<td>19</td>
<td>30</td>
</tr>
</tbody>
</table>

### PREVIOUS CURRICULUM
(1. Year 2. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 1302</td>
<td>Physics II</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>MTH 1302</td>
<td>Mathematics II</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>ENG 1122</td>
<td>Linear Algebra</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CSE 1112</td>
<td>Discrete Structures</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 1114</td>
<td>Object Oriented Programming</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>CSE 1108</td>
<td>Engineering Ethics</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>SEC 1000</td>
<td>Non - Technical Elective Courses</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Sum:</td>
<td>18</td>
<td>4</td>
<td>22</td>
<td>20</td>
<td>30</td>
</tr>
</tbody>
</table>
### Previous Curriculum

#### (2. Year 1. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 2301</td>
<td>Differential Equations</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 2105</td>
<td>Data Structures</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>CSE 2101</td>
<td>Electrical Circuits and Electronics</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>TUR 1111</td>
<td>Turkish I</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>HIS 1101</td>
<td>Atatürk's Principles and History of Revolution I</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CSE 2103</td>
<td>Formal Languages and Abstract Machines</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

| Semester Credit Sum: | 17 | 4 | 21 | 19 | 30 |

### Previous Curriculum

#### (2. Year 2. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 2302</td>
<td>Probability and Statistics for Computer Engineers</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2102</td>
<td>The Design and Analysis of Algorithms</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>TUR 1112</td>
<td>Turkish II</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>HIS 1102</td>
<td>Atatürk's Principles and History of Revolution II</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CSE 2114</td>
<td>Logic Design</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>CSE 2116</td>
<td>Programming Languages</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>CSE 1001</td>
<td>Non - Technical Elective Courses</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

| Semester Credit Sum: | 18 | 2 | 20 | 19 | 30 |
# Previous Curriculum

## (3. Year 1. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 3101</td>
<td>Computer Organization</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3103</td>
<td>Database Management</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3105</td>
<td>Object Oriented Analysis and Design</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3000</td>
<td>Summer Practice I</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>CSE 3109</td>
<td>Computer Engineering Design I</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 2000</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

**Semester Credit Sum:**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>U</td>
<td>S</td>
<td>K</td>
</tr>
<tr>
<td>16</td>
<td>0</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

## (3. Year 2. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 3102</td>
<td>Operating Systems</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>CSE 3104</td>
<td>Microprocessor And Embedded Systems</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>CSE 3106</td>
<td>Data Communications and Computer Networks</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>CSE 3110</td>
<td>Computer Engineering Design II</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 2001</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

**Semester Credit Sum:**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>U</td>
<td>S</td>
<td>K</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>
## Previous Curriculum

### (4. Year 1. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 4000</td>
<td>Summer Practice II</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>CSE 4103</td>
<td>Software Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4101</td>
<td>Graduation Project I</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>CSE 2002</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2002</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2002</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

Semester Credit Sum: 16 0 16 16 30

### (4. Year 2. Semester)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>S</th>
<th>K</th>
<th>AKTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 2003</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2003</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2003</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2003</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 2003</td>
<td>Technical Elective Courses</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4102</td>
<td>Graduation Project II</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>10</td>
</tr>
</tbody>
</table>

Semester Credit Sum: 16 0 16 16 30
## Technical Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>T</th>
<th>U</th>
<th>K</th>
<th>Akts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 3111</td>
<td>Artificial Intelligence</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3113</td>
<td>Introduction to Digital Image Processing</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3115</td>
<td>Functional Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3117</td>
<td>Simulation and Modelling</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3119</td>
<td>Automata Theory</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3112</td>
<td>Prolog Programming and Expert Systems</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3114</td>
<td>Computer Graphics</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3116</td>
<td>Machine Learning</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3118</td>
<td>Distributed Systems and Algorithms</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3120</td>
<td>Data Mining</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3122</td>
<td>Web Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4111</td>
<td>Wireless Sensor Networks</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4113</td>
<td>Mobile Computing with Ios and Android</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4115</td>
<td>Knowledge Engineering and Ontologies</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4117</td>
<td>Biologically Inspired Algorithms</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4119</td>
<td>Artificial Neural Networks</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4109</td>
<td>Introduction to Robotics</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4105</td>
<td>Compiler Design</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4107</td>
<td>System Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4110</td>
<td>Semantic Web Technologies</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4112</td>
<td>Computer Network Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4114</td>
<td>Game Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4116</td>
<td>Gpgpu Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4104</td>
<td>Human - Computer Interaction Design</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4106</td>
<td>Parallel Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4108</td>
<td>Software Testing</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4118</td>
<td>Numerical Analysis for Computer Engineers</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4120</td>
<td>Network Security</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4121</td>
<td>Foundations of E-commerce</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 4122</td>
<td>Advanced Database Management Systems</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CBU 4401</td>
<td>Girişimcilik</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3201</td>
<td>.Net Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3203</td>
<td>.Net Web Programming</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CSE 3205</td>
<td>Advanced Computer Networks</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>