## Curriculum of the Undergraduate Programme in Building Engineering Education
### (Curriculum 2017)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 2 3 4 5 6 7 8</td>
</tr>
<tr>
<td>1</td>
<td>17B11C101</td>
<td>Civic Education</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C102</td>
<td>Indonesian</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C103</td>
<td>Science Phylosophy</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C104</td>
<td>Engineering Physics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C105</td>
<td>Engineering Drawings</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C106</td>
<td>Building Materials Science</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C107</td>
<td>Statics and Mechanics of Materials</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C108</td>
<td>Soil Measurement Science and Lab. I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C109</td>
<td>Introduction to Environmental Science</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>20</td>
<td>20 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>2</td>
<td>17B11C201</td>
<td>Religious Education</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C202</td>
<td>Introduction to Vocational Education</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C203</td>
<td>Engineering Mathematics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C204</td>
<td>English</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C205</td>
<td>Structural Analysis</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C206</td>
<td>Building Construction I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C207</td>
<td>Wood Structure</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C208</td>
<td>Soil Mechanics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C209</td>
<td>Concrete Practice</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>20</td>
<td>0 20 0 0 0 0 0 0</td>
</tr>
<tr>
<td>3</td>
<td>17B11C301</td>
<td>Pancasila</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C302</td>
<td>Educational Psychology</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C303</td>
<td>Basic Steel Structure</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C304</td>
<td>Basic Concrete Structure</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C305</td>
<td>Hydraulics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C306</td>
<td>Foundation Engineering I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C307</td>
<td>Highway Construction I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C308</td>
<td>Building Construction II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C309</td>
<td>Plumbing Practices</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C310</td>
<td>Material Testing Practices</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>22</td>
<td>0 0 22 0 0 0 0 0</td>
</tr>
<tr>
<td>4</td>
<td>17B11C401</td>
<td>Teaching Profession</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C402</td>
<td>Learning and Learning</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C403</td>
<td>Learning Media</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C404</td>
<td>Construction Business Basics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C405</td>
<td>Highway Construction II</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C406</td>
<td>Estimated Construction Costs</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C407</td>
<td>Irrigation I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C408</td>
<td>Building Utilities</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C409</td>
<td>Information Communication Technology</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C410</td>
<td>Soil Measurement Science and Lab. II</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>22</td>
<td>0 0 0 22 0 0 0 0</td>
</tr>
<tr>
<td>5</td>
<td>17B11C501</td>
<td>Student Development</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17B11C502</td>
<td>Learning Planning</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C503</td>
<td>Learning Evaluation</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17B11C504</td>
<td>Learning Strategies</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>SEMESTER</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 2 3 4 5 6 7 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>17B11C505</td>
<td>Entrepreneurship</td>
<td>3</td>
<td>3 3</td>
</tr>
<tr>
<td></td>
<td>17B11C506</td>
<td>Construction Management</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C507</td>
<td>Soil Testing Practices</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Civil elective courses</td>
<td></td>
<td>6 6</td>
</tr>
<tr>
<td></td>
<td>17B11C508</td>
<td>Foundation Engineering II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C509</td>
<td>Advanced Structural Analysis</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C510</td>
<td>Construction Software Applications</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Architectural elective courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C511</td>
<td>Building Physics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C512</td>
<td>Architectural Drawing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C513</td>
<td>Introduction to Architecture</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>22</td>
<td>0 0 0 0 22 0 0 0</td>
</tr>
<tr>
<td>2</td>
<td>17B11C601</td>
<td>Educational Research</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C602</td>
<td>Micro Learning</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C603</td>
<td>Statistics</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C604</td>
<td>Building Structure Feasibility Assessment</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C605</td>
<td>Heavy Equipment &amp; PTM</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C606</td>
<td>Wood Working Practices</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Civil elective courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C607</td>
<td>Advanced Concrete Structure</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C608</td>
<td>Irrigation II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C609</td>
<td>Advanced Soil Measurement Science</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C610</td>
<td>Environmental Drainage</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C611</td>
<td>Road Material Testing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Architectural elective courses</td>
<td></td>
<td>8 8</td>
</tr>
<tr>
<td></td>
<td>17B11C612</td>
<td>Basic Theory of Architecture &amp; Aesthetics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C613</td>
<td>Architectural Design Studio I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C614</td>
<td>Mockups &amp; Building Modeling</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C615</td>
<td>Residential &amp; Residential Studios</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C616</td>
<td>3D Computer &amp; Animation</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>20</td>
<td>0 0 0 0 0 0 20 0 0</td>
</tr>
<tr>
<td>3</td>
<td>17B11C701</td>
<td>Interior</td>
<td>2</td>
<td>2 2</td>
</tr>
<tr>
<td></td>
<td>17B11C702</td>
<td>Practical work</td>
<td>3</td>
<td>3 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Civil elective courses</td>
<td></td>
<td>4 4</td>
</tr>
<tr>
<td></td>
<td>17B11C703</td>
<td>Legal Aspects of Construction Services</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C704</td>
<td>Structural Repair Techniques</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C705</td>
<td>Advanced Steel</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Architectural elective courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C706</td>
<td>Architectural Design Studio II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C707</td>
<td>Building Construction III</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17B11C708</td>
<td>Site &amp; Landscape Design</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>9</td>
<td>0 0 0 0 0 0 9 0</td>
</tr>
<tr>
<td>4</td>
<td>17B11C801</td>
<td>Job training</td>
<td>3</td>
<td>3 3</td>
</tr>
<tr>
<td></td>
<td>17B11C802</td>
<td>Field Experience Program</td>
<td>4</td>
<td>4 4</td>
</tr>
<tr>
<td></td>
<td>17B11C803</td>
<td>Thesis</td>
<td>4</td>
<td>4 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sum</td>
<td>11</td>
<td>0 0 0 0 0 0 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL AMOUNT OF CREDIT EVERY SEMESTER</td>
<td>146</td>
<td>20 20 22 22 22 20 9 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUMBER OF COURSES EVERY SEMESTER</td>
<td>146</td>
<td>9 9 10 11 10 10 4 3</td>
</tr>
</tbody>
</table>

C = Compulsory subject of study program
E = Elective subject of study program