Courses for July – November 2020 Semester  
Department of Civil Engineering  
IIT Guwahati  

M.Tech. in Civil Engineering  
Specialization: Environmental Engineering  

<table>
<thead>
<tr>
<th>Semester – 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course No</td>
</tr>
<tr>
<td>CE 521*</td>
</tr>
<tr>
<td>CE 522</td>
</tr>
<tr>
<td>CE 523*</td>
</tr>
<tr>
<td>CE xxx</td>
</tr>
</tbody>
</table>

**Important Note:** * Due to non-availability of students on-campus, only the theory component of both the courses CE 521 and CE 523 (covering 3x2 = 6 credits) will be taught during July – November 2020 semester. The laboratory component of the courses (covering remaining 2 credits) will be taught during January – May 2021 semester. Although the evaluation of the theory components will be completed in the current semester itself, the combined grading covering both theory and laboratory components of the courses CE 521 and CE 523 will be finally done during January - May 2021 semester. Consequently, the students will register for both the courses i.e. CE 521 and CE 523 only in January – May 2020 semester and not in current semester. Accordingly, the courses CE 521 and CE 523 will not be available for registration in AAMS Portal for July – November 2020 semester. Since theory classes will be held in the current semester, both the courses will be reflected in the Class Time Table of the Department for July – November 2020 Semester.  

**Elective I (One course from the following list)**  

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<td>Optimization Methods</td>
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</tr>
<tr>
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**Note:** All the above courses are also available for the Ph.D students of Environmental Engineering Specialization and they can register for them accordingly.
Courses for July – November 2020 Semester  
Department of Civil Engineering  
IIT Guwahati  

M.Tech. in Civil Engineering  
Specialization: Structural Engineering  

<table>
<thead>
<tr>
<th>Semester – 1</th>
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<tbody>
<tr>
<td>Course No</td>
<td>Course Name</td>
</tr>
<tr>
<td>CE 501</td>
<td>Continum Mechanics</td>
</tr>
<tr>
<td>CE 502</td>
<td>Finite Element Methods</td>
</tr>
<tr>
<td>CE 503</td>
<td>Structural Dynamics</td>
</tr>
<tr>
<td>CE xxx</td>
<td>Elective I</td>
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Courses for July – November 2020 Semester  
Department of Civil Engineering  
IIT Guwahati

M.Tech. in Civil Engineering  
Specialization: Water Resources Engineering and Management

<table>
<thead>
<tr>
<th>Semester – 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course No</strong></td>
<td><strong>Course Name</strong></td>
</tr>
<tr>
<td>CE 551</td>
<td>Surface Water Hydrology</td>
</tr>
<tr>
<td>CE 553</td>
<td>Advanced Hydraulic Engineering</td>
</tr>
<tr>
<td>CE 554</td>
<td>Advanced Fluid Mechanics</td>
</tr>
<tr>
<td>CE xxx</td>
<td>Elective I</td>
</tr>
<tr>
<td>CE xxx</td>
<td>Elective II</td>
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<tbody>
<tr>
<td>CE 570</td>
<td>River Engineering</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE 564</td>
<td>Stochastic Hydrology</td>
<td>3-0-0-6</td>
</tr>
</tbody>
</table>

**Note:** All the above courses are also available for the Ph.D students of Water Resources Engineering and Management Specialization and they can register for them accordingly
Courses for July – November 2020 Semester  
Department of Civil Engineering  
IIT Guwahati

M.Tech. in Civil Engineering  
Specialization: Transportation Systems Engineering

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<tr>
<th>Semester - 1</th>
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<tbody>
<tr>
<td><strong>Course No</strong></td>
</tr>
<tr>
<td>CE 581</td>
</tr>
<tr>
<td>CE 582</td>
</tr>
<tr>
<td>CE xxx</td>
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<tbody>
<tr>
<td>CE 624</td>
<td>Highway Construction Practice</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE 626</td>
<td>Economic Evaluation and Analysis of Transportation Projects</td>
<td>3-0-0-6</td>
</tr>
</tbody>
</table>

**Note:** All the above courses are also available for the Ph.D students of Transportation Systems Engineering Specialization and they can register for them accordingly.
Courses for July – November 2020 Semester
Department of Civil Engineering
IIT Guwahati

M.Tech. in Civil Engineering
Specialization: Geotechnical Engineering

Semester – 1

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<th>Course No</th>
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<tbody>
<tr>
<td>CE 531</td>
<td>Advanced Soil Mechanics</td>
<td>3-0-2-8</td>
</tr>
<tr>
<td>CE 532</td>
<td>Dynamics of Soil and Foundations</td>
<td>3-1-0-8</td>
</tr>
<tr>
<td>CE xxx</td>
<td>Elective I</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE xxx</td>
<td>Elective II</td>
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<tr>
<td>CE 642</td>
<td>Subsurface Investigation and Instrumentation</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE 587</td>
<td>Expansive Soil</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE 648</td>
<td>Applied Soil Mechanics</td>
<td>3-0-0-6</td>
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</tbody>
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Note: All the above courses are also available for the Ph.D students of Geotechnical Engineering Specialization and they can register for them accordingly.
Courses for July – November 2020 Semester
Department of Civil Engineering
IIT Guwahati

M.Tech. in Civil Engineering
Specialization: Earth System Science and Engineering

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<tbody>
<tr>
<td>CE 591</td>
<td>Earth System Dynamics</td>
<td>3-0-0-6</td>
</tr>
<tr>
<td>CE 592</td>
<td>Exploration Geoscience</td>
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</tr>
<tr>
<td>CE 593</td>
<td>Advanced Remote Sensing</td>
<td>3-0-2-8</td>
</tr>
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<tr>
<td>CE 636</td>
<td>Geostatistics</td>
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Courses for July – November 2020 Semester  
Department of Civil Engineering  
IIT Guwahati  

M.Tech. in Civil Engineering  
Specialization: Infrastructure Engineering and Management  

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<tbody>
<tr>
<td><strong>Course No</strong></td>
</tr>
<tr>
<td>CE 541</td>
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<tr>
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<td>CE 543</td>
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