

**BVM Engineering College (An Autonomous Institution)****Civil Engineering Department****M. Tech. Infrastructure Engineering and Technology****Semester 1**

<b>Sr. No</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>H</b>	<b>C</b>
1	<a href="#">5IF01</a>	<a href="#">Infrastructure Planning and Finance</a>	3	1	0	4	4
2	<a href="#">5IF02</a>	<a href="#">Sustainable Urban Planning</a>	3	1	0	4	4
3	<a href="#">5IF03</a>	<a href="#">Infrastructure Engineering &amp; Technology Studio - I</a>	0	0	4	4	2
4	<a href="#">5CE03</a>	<a href="#">Research Methodology</a>	1	0	2	3	2
5		Program Elective - I	3	0	2	5	4
6		Program Elective - -II	3	1	0	4	4
7		Program Elective - III	2	1	0	3	3
<b>Total</b>			<b>15</b>	<b>4</b>	<b>8</b>	<b>27</b>	<b>23</b>
<b>Program Elective - I</b>							
1	<a href="#">5EN01</a>	<a href="#">Theory of Water and Waste Water Engineering -I</a>	3	0	2	5	4
2	<a href="#">5IF41</a>	<a href="#">Urban Infrastructure Planning &amp; Management</a>	3	0	2	5	4
3	<a href="#">5IF42</a>	<a href="#">Electrical &amp; Mechanical System in Infrastructure Engineering</a>	3	0	2	5	4
4	<a href="#">5IF43</a>	<a href="#">Fundamental design study of various infrastructure</a>	3	0	2	5	4
5	<a href="#">5SE46</a>	<a href="#">Structural Health Monitoring</a>	3	0	2	5	4
6	<a href="#">5MA01</a>	<a href="#">Data Analytics in Engineering</a>	3	0	2	5	4
<b>Program Elective - II</b>							
1	<a href="#">5IF44</a>	<a href="#">Project Procurement systems</a>	3	1	0	4	4
2	<a href="#">5IF45</a>	<a href="#">Reliability Engineering</a>	3	1	0	4	4
3	<a href="#">5TE46</a>	<a href="#">Water Transport System</a>	3	1	0	4	4
4	<a href="#">5IF46</a>	<a href="#">Infrastructure Informatics</a>	3	1	0	4	4
5	<a href="#">5TE41</a>	<a href="#">Transportation Planning and Practices</a>	3	1	0	4	4
6	<a href="#">5IF47</a>	<a href="#">Irrigation and Water Distribution Systems</a>	3	1	0	4	4

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**Program Elective - III**

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1	<a href="#">5IF48</a>	<a href="#">Introduction to Green Buildings</a>	2	1	0	3	3
2	<a href="#">5IF49</a>	<a href="#">Municipal Rules and By-laws</a>	2	1	0	3	3
3	<a href="#">5IF50</a>	<a href="#">Geotechnical Landfill Design and Maintenance</a>	2	1	0	3	3
4	<a href="#">5IF51</a>	<a href="#">Reuse &amp; Recycle Technology</a>	2	1	0	3	3
5	<a href="#">5IF52</a>	<a href="#">Renewable Energy Technology</a>	2	1	0	3	3
6	<a href="#">5IF53</a>	<a href="#">Contracts and Arbitration</a>	2	1	0	3	3

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**Semester 2**

Sr. No	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">5IF04</a>	<a href="#">Infrastructure Project Management</a>	3	1	0	4	4
2	<a href="#">5IF05</a>	<a href="#">Construction Technology and Management</a>	3	1	0	4	4
3	<a href="#">5IF06</a>	<a href="#">Infrastructure Engineering &amp; Technology Studio - II</a>	0	0	4	4	2
4		Program Elective - IV	3	0	2	5	4
5		Program Elective - V	3	1	0	4	4
6		Program Elective - VI	2	1	0	3	3
7	<a href="#">5IF07</a>	<a href="#">Seminar</a>	0	0	2	2	1
<b>Total</b>			<b>14</b>	<b>4</b>	<b>8</b>	<b>26</b>	<b>22</b>

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**Program Elective - IV**

1	<a href="#">5IF54</a>	<a href="#">Advanced Concrete Technology</a>	3	0	2	5	4
2	<a href="#">5CE41</a>	<a href="#">GIS and GPS in Civil Engineering</a>	3	0	2	5	4
3	<a href="#">5IF55</a>	<a href="#">City Micro-drainage System</a>	3	0	2	5	4
4	<a href="#">5EN04</a>	<a href="#">Theory of Water and Waste Water Engineering-II</a>	3	0	2	5	4
5	<a href="#">5IF56</a>	<a href="#">Application of Geotechnics in Infrastructure</a>	3	0	2	5	4
6	<a href="#">5IF57</a>	<a href="#">Project Management</a>	3	0	2	5	4

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Program Elective - V							
1	<a href="#">5CM50</a>	<a href="#">Project Risk Analysis and Mitigation Techniques</a>	3	1	0	4	4
2	<a href="#">5TE04</a>	<a href="#">Pavement Analysis and Design</a>	3	1	0	4	4
3	<a href="#">5IF58</a>	<a href="#">Urban Governance And Legislation</a>	3	1	0	4	4
4	<a href="#">5TE45</a>	<a href="#">Railway Infrastructure Planning and Design</a>	3	1	0	4	4
5	<a href="#">5SE50</a>	<a href="#">Design of Pre-stressed Concrete Structures</a>	3	1	0	4	4
6	<a href="#">5EN48</a>	<a href="#">Environmental Impact Assessment</a>	3	1	0	4	4

Program Elective - VI							
1	<a href="#">5IF59</a>	<a href="#">Design of Intelligent Buildings and Cities</a>	2	1	0	3	3
2	<a href="#">5IF60</a>	<a href="#">Water Harvesting, Conservation and Intelligent Control</a>	2	1	0	3	3
3	<a href="#">5IF61</a>	<a href="#">Infrastructure Economics</a>	2	1	0	3	3
4	<a href="#">5IF62</a>	<a href="#">Project Formulation and Appraisal</a>	2	1	0	3	3
5	<a href="#">5IF63</a>	<a href="#">Laws for Engineers</a>	2	1	0	3	3
6	<a href="#">5IF64</a>	<a href="#">Sustainable Development</a>	2	1	0	3	3

Semester 3							
Sr. No	Course Code	Name of Course	L	T	P	H	C
1		Program Elective - VII	3	1	0	4	4
2		Open Elective - I	3	0	0	3	3
3	<a href="#">6IF31</a>	<a href="#">Dissertation Phase - 1</a>	0	0	20	20	10
<b>Total</b>			<b>6</b>	<b>1</b>	<b>20</b>	<b>27</b>	<b>17</b>

Program Elective - VII							
1	<a href="#">6IF41</a>	<a href="#">Value Engineering</a>	3	1	0	4	4
2	<a href="#">6IF42</a>	<a href="#">Eco-Friendly Technologies</a>	3	1	0	4	4
3	<a href="#">6IF43</a>	<a href="#">Soft Computing Techniques</a>	3	1	0	4	4
4	<a href="#">6CM41</a>	<a href="#">Management Information Systems</a>	3	1	0	4	4
5	<a href="#">6IF44</a>	<a href="#">Management of Human Resources, Safety and Quality</a>	3	1	0	4	4

Open Elective-I							
1	<a href="#">6IF81</a>	<a href="#">Infrastructure Technology and Management</a>	3	0	0	3	3

Semester 4							
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1	<a href="#">6IF32</a>	<a href="#">Dissertation Phase - 2</a>	0	0	32	32	16
<b>Total</b>			<b>0</b>	<b>0</b>	<b>32</b>	<b>32</b>	<b>16</b>
<b>Total Credit Distribution</b>			<b>35</b>	<b>9</b>	<b>68</b>	<b>112</b>	<b>78</b>