

**BVM Engineering College (An Autonomous Institution)****Electrical Engineering Department****M. Tech. Electrical Engineering****Semester 1**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">5EE01</a>	<a href="#">Power System Dynamics</a>	3	0	2	5	4
2	<a href="#">5EE02</a>	<a href="#">Digital Simulation of Power Systems</a>	3	0	2	5	4
3	<a href="#">5EE03</a>	<a href="#">Advanced Power Electronics</a>	3	0	2	5	4
4		Program Elective -I	3	0	2	5	4
5		Program Elective -II	3	0	2	5	4
<b>Total</b>			<b>15</b>	<b>0</b>	<b>10</b>	<b>25</b>	<b>20</b>

**Program Elective - I**

1	<a href="#">5EE41</a>	<a href="#">Wide Area Measurement Systems (WAMS) and Applications</a>	3	0	2	5	4
2	<a href="#">5EE42</a>	<a href="#">Modern Control Systems</a>	3	0	2	5	4
3	<a href="#">5EE43</a>	<a href="#">Optimization of Power Systems</a>	3	0	2	5	4

**Program Elective - II**

1	<a href="#">5EE44</a>	<a href="#">HVDC Transmission system</a>	3	0	2	5	4
2	<a href="#">5EE45</a>	<a href="#">High Power Converters</a>	3	0	2	5	4
3	<a href="#">5EE46</a>	<a href="#">Reactive Power Control</a>	3	0	2	5	4

**Semester 2**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">5EE04</a>	<a href="#">Advanced Power System Protection and Switchgear</a>	3	0	2	5	4
2	<a href="#">5EE05</a>	<a href="#">Power Quality Management</a>	3	0	2	5	4
3	<a href="#">5EE06</a>	<a href="#">Advanced Electrical Drives</a>	3	0	2	5	4
4	<a href="#">5EE07</a>	<a href="#">Research Methodology and IPR</a>	1	0	2	3	2
5		Program Elective - III	3	0	2	5	4
6		Program Elective - IV	3	0	2	5	4
<b>Total</b>			<b>16</b>	<b>0</b>	<b>12</b>	<b>28</b>	<b>22</b>

<b>Program Elective - III</b>							
1	<a href="#">5EE47</a>	<a href="#">Power System Planning &amp; Reliability</a>	3	0	2	5	4
2	<a href="#">5EE48</a>	<a href="#">Advanced Embedded Systems</a>	3	0	2	5	4
3	<a href="#">5EE49</a>	<a href="#">Distributed Generation and Microgrid</a>	3	0	2	5	4

<b>Program Elective - IV</b>							
1	<a href="#">5EE50</a>	<a href="#">AI applications to Power System</a>	3	0	2	5	4
2	<a href="#">5EE51</a>	<a href="#">Energy Auditing &amp; Management</a>	3	0	2	5	4
3	<a href="#">5EE52</a>	<a href="#">Alternate Sources of Energy</a>	3	0	2	5	4

<b>Semester 3</b>							
<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		Program Elective -V	3	0	0	3	3
2		Open Elective - I	3	0	0	3	3
3	<a href="#">6EE31</a>	<a href="#">Dissertation - I</a>	0	0	20	20	10
<b>Total</b>			<b>6</b>	<b>0</b>	<b>20</b>	<b>26</b>	<b>16</b>

<b>Program Elective - V</b>							
1	<a href="#">6EE41</a>	<a href="#">Power System Economics</a>	3	0	0	3	3
2	<a href="#">6EE42</a>	<a href="#">Advanced Electric Vehicles</a>	3	0	0	3	3
3	<a href="#">6EE43</a>	<a href="#">Smart Grid Technology</a>	3	0	0	3	3

<b>Open Elective - I</b>							
1	<a href="#">6CM81</a>	<a href="#">Strategic Management</a>	3	0	0	3	3
2	<a href="#">6CM82</a>	<a href="#">Disaster Management</a>	3	0	0	3	3
3	<a href="#">6EN81</a>	<a href="#">Rural Sanitation</a>	3	0	0	3	3
4	<a href="#">6EN82</a>	<a href="#">Analytical Methods for Environmental Monitoring</a>	3	0	0	3	3
5	<a href="#">6IF81</a>	<a href="#">Infrastructure Technology and Management</a>	3	0	0	3	3
6	<a href="#">6MD81</a>	<a href="#">Robust Design</a>	3	0	0	3	3
7	<a href="#">6MD82</a>	<a href="#">Optimization Techniques</a>	3	0	0	3	3
8	<a href="#">6MD83</a>	<a href="#">Reliability Engineering and Quality Control</a>	3	0	0	3	3
9	<a href="#">6SE81</a>	<a href="#">Disaster Management and Mitigation</a>	3	0	0	3	3
10	<a href="#">6TE81</a>	<a href="#">Road Safety and Environmental Impact Assessment</a>	3	0	0	3	3
11	<a href="#">6TE82</a>	<a href="#">Transportation System Analysis</a>	3	0	0	3	3

### Semester 4

<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>
	<a href="#">6EE32</a>	<a href="#">Dissertation - II</a>	0	0	32	32	16
<b>Total Credits Distribution</b>			<b>37</b>	<b>0</b>	<b>74</b>	<b>111</b>	<b>74</b>