

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	5EE01	Power System Dynamics	3	0	2	5	4
2	5EE02	Digital Simulation of Power Systems	3	0	2	5	4
3	5EE03	Advanced Power Electronics	3	0	2	5	4
4		Program Elective -I	3	0	2	5	4
5		Program Elective -II	3	0	2	5	4
Total			15	0	10	25	20

Program Elective - I

1	5EE41	Wide Area Measurement Systems (WAMS) and Applications	3	0	2	5	4
2	5EE42	Modern Control Systems	3	0	2	5	4
3	5EE43	Optimization of Power Systems	3	0	2	5	4

Program Elective - II

1	5EE44	HVDC Transmission system	3	0	2	5	4
2	5EE45	High Power Converters	3	0	2	5	4
3	5EE46	Reactive Power Control	3	0	2	5	4

Semester 2

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

Program Elective - III							
1	5EE47	Power System Planning & Reliability	3	0	2	5	4
2	5EE48	Advanced Embedded Systems	3	0	2	5	4
3	5EE49	Distributed Generation and Microgrid	3	0	2	5	4

Program Elective - IV							
1	5EE50	AI applications to Power System	3	0	2	5	4
2	5EE51	Energy Auditing & Management	3	0	2	5	4
3	5EE52	Alternate Sources of Energy	3	0	2	5	4

Semester 3							
Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Program Elective -V	3	0	0	3	3
2		Open Elective - I	3	0	0	3	3
3	6EE31	Dissertation - I	0	0	20	20	10
Total			6	0	20	26	16

Program Elective - V							
1	6EE41	Power System Economics	3	0	0	3	3
2	6EE42	Advanced Electric Vehicles	3	0	0	3	3
3	6EE43	Smart Grid Technology	3	0	0	3	3

Open Elective - I							
1	6EE81	Renewable Energy Systems	3	0	0	3	3

Semester 4							
Sr. No.	Course Code	Name of Course	L	T	P	H	C
	6EE32	Dissertation - II	0	0	32	32	16
Total Credits Distribution			37	0	74	111	74