

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

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	BS111*	Advanced Calculus	3	1	0	4	4
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES104	Electrical Workshop	0	0	2	2	1
4	ES109	Engineering Graphics & Design	2	0	4	6	4
5	ES110	Basic Mechanical Engineering	3	0	2	5	4
6	HS112 ^{\$}	Environmental Science	2	0	0	2	0
Total			13	1	10	24	17

*For Students admitted in AY 2018-19, [BS101](#) (LTP:3,2,0)

^{\$}For Students admitted in AY 2018-19, [HS102](#) (LTP:2,2,0)

Semester 2

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	BS112 [#]	Linear Algebra and Fourier Series	3	1	0	4	4
2	BS105	Electromagnetic Physics	3	0	2	5	4
3	ES105	Programming for Problem Solving	3	0	2	5	4
4	ES112	Basics of Manufacturing Practices	0	0	2	2	1
5	ES103	Basic Electrical Engineering	3	0	2	5	4
6	HS101	English	2	0	2	4	3
Total			14	1	10	25	20

[#] For Students admitted in AY 2018-19, [BS102](#) (LTP:3,2,0)

Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2EE01	Electrical Circuit Analysis	3	0	2	5	4
2	2EE02	Analog Electronics	3	0	0	3	3
3	2EE03	Analog Electronics Laboratory	0	0	2	2	1
4	2EE04	Electrical Machines – I	3	0	0	3	3
5	2EE05	Electrical Machines Laboratory - I	0	0	2	2	1
6	2BS01	Ordinary Differential equations and Statistics	3	1	0	4	4
7	2HS02	Economics and Management	3	0	0	3	3
Total			15	1	6	22	19

Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2EE06	Digital Electronics	3	0	0	3	3
2	2EE07	Digital Electronics Laboratory	0	0	2	2	1
3	2EE08	Electrical Machines – II	3	0	0	3	3
4	2EE09	Electrical Machines Laboratory - II	0	0	2	2	1
5	2EE10	Power Electronics	3	0	0	3	3
6	2EE11	Power Electronics Laboratory	0	0	2	2	1
7	2EE12	Electrical and Electronics Measurement	3	0	0	3	3
8	2EE13	Electrical and Electronics Measurement Laboratory	0	0	2	2	1
9	2BS04	Probability and Numerical Analysis	3	1	0	4	4
10	2HS01	Professional Soft Skills	1	0	2	3	2
Total			16	1	10	27	22
EEIT1		Summer Internship – I (Three Weeks)	-	-	-	-	0

Semester 5

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	3EE01	Electromagnetic Fields	3	0	0	3	3
2	3EE02	Power Systems-I	3	0	0	3	3
3	3EE03	Power Systems-I Laboratory	0	0	2	2	1
4	3EE04	Signals and Systems	3	0	0	3	3
5	3EE05	Signals and Systems Laboratory	0	0	2	2	1
6	3EE06	Microprocessors & Applications	3	0	0	3	3
7	3EE07	Microprocessors & Applications Laboratory	0	0	2	2	1
8	3EE08	High Voltage Engineering	3	0	2	5	4
9		Open Elective - I	3	0	0	3	3
10	3HS01	Ethics and Constitution of India	2	0	0	2	0
Total			20	0	8	28	22

Open Elective - I

1	3EE81	Energy Audit & Conservation	3	0	0	3	3
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Semester 6

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	3EE09	Control Systems	3	0	0	3	3
2	3EE10	Control Systems Laboratory	0	0	2	2	1
3	3EE11	Power Systems -II	3	0	0	3	3
4	3EE12	Power Systems - II Laboratory	0	0	2	2	1
5	3EE13	Industrial Automation and Control	3	0	0	3	3
6	3EE14	Industrial Automation and Control Laboratory	0	0	2	2	1
7	3EE15	Modern Utilization & Traction	3	0	0	3	3
8	3EE31	Electronics Design Laboratory (Mini Project)	1	0	2	3	2
9		Open Elective - II	3	0	2	5	4
Total			16	0	10	26	21

Open Elective - II

1	3EE82	Renewable Energy Technology	3	0	2	5	4
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EEIT2	Summer Internship - II (Three Weeks)		-	-	-	-	0
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Semester 7

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4EE01	Power System Protection	3	0	0	3	3
2	4EE02	Power System Protection Laboratory	0	0	2	2	1
3	4EE03	Computer Aided Electrical Machine Design	2	0	2	4	3
4	4EE04	Hardware and Software Skills Laboratory	0	0	2	2	1
5		Program Elective – I	3	0	0	3	3
6		Program Elective - II	3	0	0	3	3
7		Program Elective – III	3	0	2	5	4
Total			14	0	12	26	20
Program Elective – I & II							
1	4EE41	Electrical and Hybrid Vehicles	3	0	0	3	3
2	4EE42	High Voltage DC Transmission Systems	3	0	0	3	3
3	4EE43	Power Quality and FACTS	3	0	0	3	3
4	4EE44	Industrial Electrical Systems	3	0	0	3	3
5	4EE45	Power System Dynamics and Control	3	0	0	3	3
6	4EE46	Digital Control Systems	3	0	0	3	3
7	4EE47	Digital Signal Processing	3	0	0	3	3
8	4EE48	Wide Area Measurement Systems (WAMS) and Applications	3	0	0	3	3
9	4EE49	Condition Monitoring of Electrical Equipments	3	0	0	3	3
10	4EE50	Distributed Generation	3	0	0	3	3
11	4EE51	Restructuring of Power Systems	3	0	0	3	3
12	4EE52	Smart Grid	3	0	0	3	3
13	4EE53	Commissioning of Electrical Equipments	3	0	0	3	3

Semester 8 [Scheme A]

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Program Elective –IV	3	0	2	5	4
2		Program Elective -V	3	0	2	5	4
3	4EE32	Project Stage-II	0	0	20	20	10
Total			6	0	24	30	18

Program Elective –III, IV & V

1	4EE54	Industrial Instrumentation	3	0	2	5	4
2	4EE55	Electrical Drives	3	0	2	5	4
3	4EE56	Electrical Switchgear and Transients	3	0	2	5	4
4	4EE57	Power System Practice and Design	3	0	2	5	4
5	4EE58	Non Conventional Energy Sources	3	0	2	5	4
6	4EE59	Power System Stability and Control	3	0	2	5	4
7	4EE60	Electrical Energy Conservation and Auditing	3	0	2	5	4
8	4EE61	Embedded Systems	3	0	2	5	4
9	4EE62	Optimization of Power Systems	3	0	2	5	4

OR

Semester 8 [Scheme B]

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4EE33	Industrial Project Stage - II	0	0	36	36	18
Total Credits Distribution			108	4	102	214	159