

BVM Engineering College (An Autonomous Institution)
Electronics Engineering Department
B. Tech.(Electronics Engineering)

Semester 1

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	BS111 *	Advance Calculus	3	1	0	4	4
2	ES109	Engineering Graphics & Design	2	0	4	6	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	BS104	Semiconductor Physics	3	0	2	5	4
5	HS101	English	2	0	2	4	3
			13	1	10	24	19

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

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	ES105	Programming for Problem Solving	3	0	2	5	4
3	BS105	Electromagnetic Physics	3	0	2	5	4
4	ES101	Basic Electronics	3	0	2	5	4
5	ES112	Basics of Manufacturing Practices	0	0	2	2	1
6	ES102	Electronics Workshop	0	0	2	2	1
7	HS112 \$	Environmental Science	3	0	0	3	0
			15	1	10	26	18

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

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

Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2BS01	Ordinary Differential Equation and Statistics	3	1	0	4	4
2	2EL01	Signals and Systems	3	0	0	3	3
3	2EL02	Network Theory	3	0	0	3	3
4	2EL03	Analog Electronics	3	0	0	3	3
5	2EL04	Analog Electronics Laboratory	0	0	2	2	1
6	2EL05	Digital Logic Design	3	0	0	3	3
7	2EL06	Digital Logic Design Laboratory	0	0	2	2	1
8	2EL07	Electronic Design and Automation Tools	0	0	2	2	1
9	2HS01	Professional Soft skills	1	0	2	3	2
			16	1	8	25	21

Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2EL08	Analog and Digital Communication	3	0	0	3	3
2	2EL09	Analog and Digital Communication Laboratory	0	0	2	2	1
3	2EL10	Control Theory	3	0	0	3	3
4	2EL11	Microcontrollers	3	0	0	3	3
5	2EL12	Microcontrollers Laboratory	0	0	2	2	1
6	2EL13	Sensors and Transducers	3	0	0	3	3
7	2EL14	Sensors and Transducers Laboratory	0	0	2	2	1
8	2HS02	Economics and Management	3	0	0	3	3
9	2EL31	Mini Project	0	0	2	2	1
			15	0	8	23	19

ELIT1	Summer Internship – I (Two Weeks)	-	-	-	-	0
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Semester 5

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - I	3	0	0	3	3
2	3EL01	Probability Theory and Stochastic Processes	3	0	0	3	3
3	3EL02	Analog Circuit Design	3	0	0	3	3
4	3EL03	Analog Circuit Design Laboratory	0	0	2	2	1
5	3EL04	Advanced Micro-Controllers and Architectures	3	0	0	3	3
6	3EL05	Advanced Micro-Controllers and Architectures Laboratory	0	0	2	2	1
7	3EL06	Electromagnetics Field Theory	3	0	0	3	3
8		Program Elective - I	3	0	2	5	4
Total			18	0	6	24	21

Open Elective - I

1	3EL81	Electronic Communication System	3	0	0	3	3
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Program Elective - I

1	3EL41	Process Instrumentation and Control	3	0	2	5	4
2	3EL42	Programmable Logic Design	3	0	2	5	4
3	3EL43	Optical Fiber Communication	3	0	2	5	4

Semester 6

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - II	3	0	2	5	4
2	3EL07	VLSI Design	3	0	0	3	3
3	3EL08	VLSI Design Laboratory	0	0	2	2	1
4	3EL09	Digital Signal Processing	3	0	0	3	3
5	3EL10	Digital Signal Processing Laboratory	0	0	2	2	1
6	3EL11	Wave Propagation and Antennas	3	0	0	3	3
7	3EL12	Wave Propagation and Antennas Laboratory	0	0	2	2	1
8	3HS01	Ethics & Constitution of India	2	0	0	2	2
9		Program Elective - II	3	0	0	3	3
Total			17	0	8	25	21

Open Elective - II

1	3EL82	Microcontroller system	3	0	2	5	4
Program Elective - II							
1	3EL44	Programmable Logic Controllers	3	0	0	3	3
2	3EL45	Embedded System Design	3	0	0	3	3
3	3EL46	Information Theory and Coding	3	0	0	3	3
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ELIT2	Summer Internship - II (Two Weeks)		-	-	-	-	0

Semester 7

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4EL01	Power Electronics & Drives	3	0	0	3	3
2	4EL02	Power Electronics & Drives Laboratory	0	0	2	2	1
3	4EL03	Wireless Communication	3	0	0	3	3
4	4EL04	Wireless Communication Laboratory	0	0	2	2	1
5	4EL05	Microwave Engineering	3	0	0	3	3
6	4EL06	Microwave Engineering Laboratory	0	0	2	2	1
9	4EL07	Guided Research Reading	0	0	2	2	1
8	4EL31	Project-I	0	0	4	4	2
7		Program Elective - III	3	0	2	5	4
Total			12	0	14	26	19

Program Elective - III

1	4EL41	Digital Image Processing	3	0	2	5	4
2	4EL42	Data Communication and Networking	3	0	2	5	4
3	4EL43	Radar and Navigational Aids	3	0	2	5	4

Semester 8 [Scheme A]

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4EL32	Project-II	0	0	22	22	11
2		Program Elective - IV	3	0	2	5	4
3		Program Elective - V	3	0	2	5	4
Total			6	0	26	32	19

Program Elective - IV

1	4EL44	Internet of Things& Applications	3	0	2	5	4
2	4EL45	Mixed Signal Design	3	0	2	5	4
3	4EL46	Antenna Design	3	0	2	5	4

Program Elective - V

1	4EL47	Biomedical Instrumentation	3	0	2	5	4
2	4EL48	Advanced Microprocessor	3	0	2	5	4
3	4EL49	Satellite Communication	3	0	2	5	4

OR

Semester 8 [Scheme B]

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4EL33	Industry Defined Project/training	0	0	38	38	19
Total Credits Distribution			106	3	102	211	157