

## Bachelor of Science with Electronics, Comp. Sc. & Mathematics

### Curriculum:

#### Semester I

**24 Credits**

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL11101	Computer Organization & System Architecture	3	1	--	4
2	EL11102	Mathematics I: Differential Calculus & Equations, Trigonometry, Algebra	3	1	--	4
3	EL11103	Basic circuit Theory & Network Analysis	3	1	--	4
4	EL11104	English Language (Spoken)	4	0	--	4
5	EL11105	Computer Laboratory	0	0	2	2
6	EL11106	Electronics Laboratory	0	0	2	2
7	EL11401	Comprehensive Viva	--	--	--	4

#### Semester II

**24 Credits**

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL12101	Programming and problem solving through C Programming	3	1	--	4
2	EL12102	Mathematics II: Computational thinking, Numeric Analysis, Modeling	3	1	--	4
3	EL12103	Semiconductor Device Physics & Applications	3	1	--	4
4	EL12104	Communication English and Technical writing	2	0	--	2
5	EL12105	Computer Laboratory	0	0	2	2
6	EL12106	Electronics Laboratory	0	0	2	2
7	EL12106	Environmental Studies & Energy Management	0	0	2	2
8	EL12401	Comprehensive Viva	--	--	--	4

#### Semester III

**24 Credits**

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL13101	OOPS & Data Structure using C++ Language	3	1	--	4
2	EL13102	Probability & Statistics	3	1	--	4
3	EL13103	Analog Electronics and OpAmp./ Operating Systems	3	1	--	4
4	EL13104	Foreign Language: French/ Spanish/German/ Mandarin Or Communication Systems	2	0	--	2
5	EL13105	Computer Laboratory	0	0	2	2
6	EL13106	Electronics Laboratory	0	0	2	2
7	EL13201	Dance Drama/Human Values/MOOC Course/Performing Arts/ Yoga	0	0	2	2
9	EL13401	Comprehensive Viva	--	--	--	4

#### Semester IV

**24 Credits**

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL14101	Problem solving using Python	3	1	--	4
2	EL14102	Mathematical Physics	3	1	--	4
3	EL14103	Digital Electronics with VHDL/Verilog	3	1	--	4
4	EL14104	Computer Laboratory	0	0	2	2
5	EL14105	Electronics Laboratory	0	0	2	2
6	EL14106	MOOC	4	0	--	4
8	EL14401	Comprehensive Viva	--	--	--	4

### Semester V

24 Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL15101	Database Management Systems	3	1	--	4
2	EL15102	Computer Networks	3	1	--	4
3	EL15103	Microprocessor and Interfacing	3	1	--	4
4	EL15104	Operating Systems ???	3	1	--	4
5	EL15105	DBMS Laboratory	0	0	2	2
6	EL15106	Electronics Laboratory	0	0	2	2
7	EL15401	Comprehensive Viva	--	--	--	4

### Semester VI

24 Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	EL16101	MOOC 1/ PHP Programming	3	1	--	4
2	EL16102	MOOC 2/ JAVA/ Android	3	1	--	4
9	EL16501	Internship (Project)			12	12
10	EL16401	Comprehensive Viva	--	--	--	4

**Total Credits**

**144 Credits**