

B.Tech. in Electronics and VLSI Design (EVD)

Sem.	Course Code	Course Name	Type	L-T-P-C
1	ED111	Engineering Mathematics I	Core	3-1-0-4
1	IT112	Introduction to Programming	Core	3-0-0-3
1	IT113	Programming Lab	Core	0-0-2-1
1	EL111	Basic Electronic Circuits	Core	3-0-2-4
1	ED112	Engineering Physics	Core	3-0-2-4
1	PC110	Language and Literature	Core	3-0-0-3
1	CO111	Co-Curricular Activities I		0-0-2-1
Total Credits				15-1-8-20

Sem.	Course Code	Course Name	Type	L-T-P-C
2	ED121	Engineering Mathematics II	Core	3-1-0-4
2	IC121	Digital Logic and Computer Organization	Core	3-0-2-4
2	IT205	Data Structures	Core	3-0-0-3
2	IT206	Data Structure Lab using OOP	Core	1-0-2-2
2	SC217	Electromagnetic Theory	Core	3-1-0-4
2	HM106	Approaches to Indian Society	Core	3-0-0-3
2	PC125	Exploration Project I	Core	0-1-0-1
2	CO121	Co-Curricular Activities II		0-0-2-1
Total Credits				16-3-6-22

Sem.	Course Code	Course Name	Type	L-T-P-C
3	ED211	Engineering Mathematics III	Core	3-1-0-4
3	ED212	Solid State Devices	Core	3-0-2-4
3	ED213	Signal Processing and Control Systems	Core	3-0-2-4
3	ED214	Electronic Design Lab	Core	1-1-4-4
3	HM216	Science, Technology and Society	Core	3-0-0-3
3	PC222	Exploration Project II	Core	0-0-2-1
3	CO211	Co-Curricular Activities III		0-0-2-1
Total Credits				13-2-12-21
	ED222	RURAL INTERNSHIP (4 weeks)	For all	0-0-6-3

Sem.	Course Code	Course Name	Type	L-T-P-C
4	EL203	Embedded Hardware Design	Core	3-0-2-4
4	ED221	Digital IC Design and Tape out	Core	3-0-0-3
4	ED222	Digital IC Design and Tape out LAB	Core	0-0-4-2
4	ED222	Analog Electronics	Core	3-0-2-4
4	ED223	Entrepreneurship and Product Design	Core	1-0-4-3
4	ED325	Specialization Elective-1	Elective	3-0-0-3
4	CO221	Co-Curricular Activities IV		0-0-2-1
Total Credits				13-0-14-20

Sem.	Course Code	Course Name	Type	L-T-P-C
5	ED311	Digital Signal Processing Hardware	Core	3-0-2-4
5	ED312	VLSI Design	Core	3-0-0-3
5	ED313	VLSI Design LAB	Core	0-0-4-2
5	-	Open Elective - 1	Elective	3-0-0/2-3/4
5	ED326	Specialization Elective - 2	Elective	3-0-2-4
5	HM116	Principles of Economics	Core	3-0-0-3
5	ED319	Individual Project 1	Core/Project	0-0-6-3
Total Credits				15-0-14/16-22/23

Sem.	Course Code	Course Name	Type	L-T-P-C
6	MC226	Environmental Science	Core	3-0-0-3
6	-	Open Elective - 2	Elective	3-0-0/2-3/4
6	ED322	VLSI Testing and Validation	Core	3-0-2-4
6	ED327	Specialization Elective - 3	Elective	2-0-4-4
6	ED320, ED321	Individual Project - 2 and 3	Core/Project	0-0-12-6
Total Credits				11-0-18/20-20/21
	ED333	SUMMER RESEARCH INTERNSHIP OR INDUSTRIAL INTERNSHIP (8 weeks)	For all	0-1-6-4

Sem.	Course Code	Course Name	Type	L-T-P-C
7	ED425	Specialization Elective - 4	Elective	3-0-2-4
7	ED426	Specialization Elective - 5	Elective	3-0-2-4
7	-	Open Elective - 3	Elective	3-0-0/2-3/4
7	ED411	Group Project	Core/Project	0-0-16-8
Total Credits				9-0-20/22-19/20

Sem.	Course Code	Course Name	Type	L-T-P-C
8	ED444	BTP / Internship	Project / Internship For all	0-3-18-12
Total Credits				0-3-18-12