

DAYANANDA SAGAR UNIVERSITY
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY
LAYOUT BENGALURU – 560 111, KARNATAKA.

SCHOOL OF ENGINEERING



SCHEME & SYLLABUS FOR
BACHELOR OF TECHNOLOGY (B.Tech.) – 2021

ELECTRONICS & COMMUNICATION

ENGINEERING (ECE)

(WITH EFFECT FROM 2021-22)

(III & IV SEMESTERS)

SCHEME - B.TECH – 2021-22 ONWARDS

III SEM - ELECTRONICS & COMMUNICATION ENGINEERING

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S / P	C
1	102	21EN2301	ENGINEERING MATHEMATICS-III	CR	3	1	-	-	4
2	102	21EC2302	ANALOG CIRCUITS	CR	3	-	2	-	4
3	102	21EC2303	DIGITAL SYSTEM DESIGN WITH VERILOG	CR	3	-	2	-	4
4	102	21EC2304	NETWORK ANALYSIS	CR	3	1	-	-	4
5	102	21EC2305	ENGINEERING ECONOMICS	CR	2	-	-	-	2
8	102	21EC2306	SPECIAL INITIATIVES -I	CR	-	-	-	4	2
					14	2	4	4	20

CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. of Credits, CIA – Continuous Internal Assessment

SCHEME - B.TECH – 2021-22 ONWARDS

IV SEM - ELECTRONICS & COMMUNICATION ENGINEERING

SL	PROGRA M CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S / P	C
1	102	21EC2401	SIGNALS AND SYSTEMS	CR	3	1	-	-	4
2	102	21EC2402	COMPUTER SYSTEM ARCHITECTURE	CR	3	1	-	-	4
3	102	21EC2403	MICROCONTROLLERS	CR	3	-	2	-	4
4	102	21EC2404	ELECTROMAGNETIC WAVES	CR	3	-	2	-	4
5	102	21EC2405	LAW FOR ENGINEERS	CR	2	-	-	-	2
6	102	21EC2406	SPECIAL INITIATIVES -II	CR	-	-	-	4	2
					14	2	4	4	20

CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. of Credits, CIA – Continuous Internal Assessment

SCHEME - B.TECH – 2020 -21 ONWARDS**V SEM - ELECTRONICS & COMMUNICATION ENGINEERING**

Sl. No.	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{AU}{CR}$	Scheme of Teaching					Scheme of Evaluation	
					L	T	P	S/ P	C	CIA	End Exam
1	102	21EC3501	Analog and Digital Communication	CR	03		02		04	60	40
2	102	21EC3502	Probability Theory and Stochastic Processes	CR	03	01	--		04	60	40
3	102	21EC3503	CMOS VLSI Design	CR	03	--	02		04	60	40
4	102	21EC3504	Digital Signal Processing	CR	03		02		04	60	40
5	102	21EC35XX	Program Elective – 1	CR	03		--		03	60	40
6	102	21OEXXXX	OE-1	CR	03	--	--		03	60	40
7	102	21EC3505	Special Initiatives -III	CR	--	--		04	02	60	40
		Grand Total 900			18	01	06	04	24	420	320

Program Elective -1

Sr. No.	PROGRAM CODE	COURSE CODE	COURSE TITLE
1	102	21EC3506	Information Theory and Coding
2	102	21EC3507	MEMS*
3	102	21EC3508	C Programming for Embedded Systems
4	102	21EC3509	PLC and SCADA

SCHEME - B.TECH – 2020 -21 ONWARDS**VI SEM - ELECTRONICS & COMMUNICATION ENGINEERING**

Sl. No.	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{AU}{CR}$	Scheme of Teaching					Scheme of Evaluation	
					L	T	P	S/ P	C	CIA	End Exam
1	102	21EC3601	RF and Microwave Communication	CR	03	--	02		04	60	40
2	102	21EC3602	Networking and Communication	CR	03	--	02		04	60	40
3	102	21EC3603	Power Electronics		03	--	02		04	60	40
4	102	21EC36XX	Program Elective -2	CR	03	--	--		03	60	40
5	102	21EC36XX	Program Elective – 3	CR	03	--	--		03	60	40
6	102	210EXXX	Open Elective-2	CR	03	--	--		03	60	40
		Grand Total 600			18	01	04	04	21	360	240

Program Elective –2

Sr. No.	PROGRAM CODE	COURSE CODE	COURSE TITLE
1	102	21EC3604	Analog VLSI Design
2	102	21EC3605	Wireless Mobile Communication
3	102	21EC3606	Embedded System Design/Architecture

Program Elective –3

Sr. No.	PROGRAM CODE	COURSE CODE	COURSE TITLE
1	102	21EC3607	Digital IC Design
2	102	21EC3608	Digital Image Processing
3	102	21EC3609	Real Time Embedded system
4	102	21EC3610	Industry IOT