

Sarvajani University
Sarvajani College of Engineering and Technology
Teaching scheme of B. Tech.
(Electronics and Communication Engineering Department)
Effective from 2025-26

SEMESTER – 1 / SEMESTER – 2											
Sr No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	MC	BTMD27101	Induction Program	--	--	--	0	21 Days	--	--	0
2	HSMC	BTAS20101	Technical Communication	2	0	0	2	2	50	50	100
3	HSMC	BTAS20102	Technical Communication Lab	0	0	2	1	2	25	25	50
4	HSMC	BTAS20103	Universal Human Values	2	0	0	2	2	50	50	100
5	ESC	BTCO22101	Python Programming	2	0	0	2	2	50	50	100
6	ESC	BTCO22102	Python Programming Lab	0	0	2	1	2	25	25	50
7	ESC	BTCO22103	Programming for problem solving	2	0	0	2	2	50	50	100
8	ESC	BTCO22104	Programming for problem solving Lab	0	0	2	1	2	25	25	50
9	ESC	BTEC22101	Applied Electronics	3	0	0	3	3	50	50	100
10	ESC	BTEC22102	Applied Electronics Lab	0	0	2	1	2	25	25	50
11	ESC	BTCL22101	Basic Electrical Engineering	3	0	0	3	3	50	50	100
12	ESC	BTCL22102	Basic Electrical Engineering Lab	0	0	2	1	2	25	25	50
13	ESC	BTGN22101	Design Thinking	0	0	2	1	2	25	25	50
14	ESC	BTGN22102	Electrical and Electronics Workshop	0	0	2	1	2	25	25	50
15	ESC	BTME22101	Engineering Graphics & Design	1	0	0	1	1	25	25	50
16	ESC	BTME22102	Engineering Graphics & Design Lab	0	0	4	2	4	50	50	100
17	ESC	BTME22105	Manufacturing Practices & Workshop	0	0	2	1	2	25	25	50
18	BSC	BTAS21103	Semiconductor Physics	2	0	0	2	2	50	50	100
19	BSC	BTAS21104	Semiconductor Physics lab	0	0	2	1	2	25	25	50
20	BSC	BTAS21105	Mathematics-I	3	1	0	4	4	50	50	100
21	BSC	BTAS21106	Physics-Engineering Electromagnetics	3	0	0	3	3	50	50	100
22	BSC	BTAS21201	Mathematics II	3	1	0	4	4	50	50	100
23	BSC	BTCH22101	Energy & Environmental Engineering	2	0	0	2	2	50	50	100
24	BSC	BTCH22102	Energy & Environmental Engineering Lab	0	0	2	1	2	25	25	50
TOTAL				28	2	24	42	54	875	875	1750

Sarvajani University
Sarvajani College of Engineering and Technology
Teaching scheme of B. Tech.
(Electronics and Communication Engineering Department)
Effective from 2025-26

SEMESTER - 3

Sr No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	MC	BTMD27301	Indian Constitution	2	0	0	0	2	50	0	50
2	BSC	BTAS21301	Probability and Statistics for Engineers	3	0	0	3	3	50	50	100
3	BSC	BTAS21302	Probability and Statistics for Engineers Lab	0	0	2	1	2	25	25	50
4	PCC	BTEC23301	Electronics Circuits	3	0	0	3	3	50	50	100
5	PCC	BTEC23302	Electronics Circuits Lab	0	0	2	1	2	25	25	50
6	PCC	BTEC23303	Digital System Design	3	0	0	3	3	50	50	100
7	PCC	BTEC23304	Digital System Design Lab	0	0	2	1	2	25	25	50
8	PCC	BTEC23305	Analog Integrated Circuits	3	0	0	3	3	50	50	100
9	PCC	BTEC23306	Analog Integrated Circuits Lab	0	0	2	1	2	25	25	50
10	PCC	BTEC23307	Control System	3	0	0	3	3	50	50	100
11	PCC	BTEC23308	Control System Lab	0	0	2	1	2	25	25	50
12	PCC	BTEC233##M	MOOC Course 1				3	3	50	50	100
TOTAL				17	0	10	23	30	475	425	900

SEMESTER - 4

Sr No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	MC	BTMD27601	IKS 1/NEP course from Online Portal	2	0	0	0	2	50	0	50
2	HSMC	BTAS20301	Fundamentals of Management for Engineers	3	0	0	3	3	50	50	100
3	OEC	BTXX254##	Open Elective - 1	3	0	0	3	3	50	50	100
4	PCC	BTEC23401	Signals and Systems	3	0	0	3	3	50	50	100
5	PCC	BTEC23402	Signals and Systems Lab	0	0	2	1	2	25	25	50
6	PCC	BTEC23403	Microprocessor and Microcontroller	3	0	0	3	3	50	50	100
7	PCC	BTEC23404	Microprocessor and Microcontroller Lab	0	0	2	1	2	25	25	50
8	PCC	BTEC23405	Analog and Digital Communication	3	0	0	3	3	50	50	100
9	PCC	BTEC23406	Analog and Digital Communication Lab	0	0	2	1	2	25	25	50
10	PCC	BTEC23407	VLSI Design	3	0	0	3	3	50	50	100
11	PCC	BTEC23408	VLSI Design Lab	0	0	2	1	2	25	25	50

Sarvajani University
Sarvajani College of Engineering and Technology
Teaching scheme of B. Tech.
(Electronics and Communication Engineering Department)
Effective from 2025-26



12	PCC	BTEC234##M	MOOC Course 2				3	3	50	50	100
13	PCC	BTEC234##M	MOOC Course 3				3	3	50	50	100
14	MC	BTMD26401	Summer Internship -1	-	-	-	0		-	-	-
TOTAL				20	0	8	28	34	550	500	1050

SEMESTER – 5											
Sr No	Category	Subject Code	Subject Names	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	MC	BTMD27701	IKS 2/NEP course from Online Portal	2	0	0	0	2	50	0	50
2	HSMC	BTGN20501	Foundations of Research and Innovation	2	1	0	3	3	50	50	100
3	OEC	BTXX255##	Open Elective - 2	3	0	0	3	3	50	50	100
4	PCC	BTEC23501	Computer Communication and Networking	3	0	0	3	3	50	50	100
5	PCC	BTEC23502	Computer Communication and Networking lab	0	0	2	1	2	25	25	50
6	PCC	BTEC23503	Foundations of Artificial Intelligence	2	0	0	2	2	50	50	100
7	PCC	BTEC23505	Digital Signal Processing and Applications	3	0	0	3	3	50	50	100
8	PCC	BTEC23506	Digital Signal Processing and Applications Lab	0	0	2	1	3	25	25	50
9	PCC	BTEC23703	Embedded System Design	3	0	0	3	3	50	50	100
10	PCC	BTEC23704	Embedded System Design Lab	0	0	2	1	2	25	25	50
11	PEC	BTEC245##	Professional Elective - 1	3	0	0	3	3	50	50	100
12	PEC	BTEC245##	Professional Elective - 1 Lab	0	0	2	1	2	25	25	50
13	PEC	BTEC245##	Professional Elective - 2	2	0	0	2	2	50	50	100
14	PEC	BTEC245##	Professional Elective - 2 Lab	0	0	2	1	2	25	25	50
TOTAL				23	1	8	27	32	550	500	1050

SEMESTER – 6											
Sr No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	OEC	BTEC256##	Open Elective - 3	3	0	0	3	3	50	50	100
2	PCC	BTEC23601	Antenna and Microwave Engineering	3	0	0	3	3	50	50	100
3	PCC	BTEC23602	Antenna and Microwave Engineering Lab	0	0	2	1	2	25	25	50



Sarvajani University
Sarvajani College of Engineering and Technology
Teaching scheme of B. Tech.
(Electronics and Communication Engineering Department)
Effective from 2025-26



4	PCC	BTEC23603	Fundamentals of Image and Video Processing	3	0	0	3	3	50	50	100
5	PCC	BTEC23604	Fundamentals of Image and Video Processing Lab	0	0	2	1	2	25	25	50
6	PCC	BTEC236##M	MOOC Course - 4	3	0	0	3	3	50	50	100
7	PEC	BTEC246##	Professional Elective - 3	3	0	0	3	3	50	50	100
8	PEC	BTEC246##	Professional Elective - 3 Lab	0	0	2	1	2	25	25	50
9	PEC	BTEC246##	Professional Elective - 4	3	0	0	3	3	50	50	100
10	PEC	BTEC246##	Professional Elective -4 Lab	0	0	2	1	2	25	25	50
11	PROJ	BTEC26601	Project 1	0	0	4	2	4	50	50	100
TOTAL				18	0	12	24	30	450	450	900

SEMESTER - 7

Sr No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P			CCE	SEE	TOTAL
1	PROJ	BTEC26701	Project - 2	0	0	8	4	8	50	50	100
2	PROJ	BTEC26801	Internship/Major Project - 3	0	0	24	12	24	100	100	100
TOTAL				0	0	32	16	32	150	150	200



Sarvajanik University
Sarvajanik College of Engineering and Technology
Teaching scheme of B. Tech.
(Electronics and Communication Engineering Department)
Effective from 2025-26



4	PCC	BTEC23603	Fundamentals of Image and Video Processing	3	0	0	3	3	50	50	100
5	PCC	BTEC23604	Fundamentals of Image and Video Processing Lab	0	0	2	1	2	25	25	50
6	PCC	BTEC236##M	MOOC Course - 4	3	0	0	3	3	50	50	100
7	PEC	BTEC246##	Professional Elective - 3	3	0	0	3	3	50	50	100
8	PEC	BTEC246##	Professional Elective - 3 Lab	0	0	2	1	2	25	25	50
9	PEC	BTEC246##	Professional Elective - 4	3	0	0	3	3	50	50	100
10	PEC	BTEC246##	Professional Elective - 4 Lab	0	0	2	1	2	25	25	50
11	PROJ	BTEC26601	Project 1	0	0	4	2	4	50	50	100
TOTAL				18	0	12	24	30	450	450	900

SEMESTER - 7

Sr. No	Category	Subject Code	Subject Name	TEACHING SCHEME			Total Credits	Total Hours	EVALUATION SCHEME		
				L	T	P	C	H	CCE	SEE	TOTAL
1	PROJ	BTEC26701	Project - 2	0	0	8	4	8	50	50	100
2	PROJ	BTEC26801	Internship/Major Project - 3	0	0	24	12	24	100	100	100
TOTAL				0	0	32	16	32	150	150	200

