

Structure SY to B.Tech

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

OF B.Tech

(Electronics & Telecommunication ENGINEERING)

*TAE will be based on Home Assignment, Seminar, Quiz, Surprise Test, Group Discussion, Debate, General Behaviour, Attentiveness and Attendance

SEMESTER-III

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs.)
		Th.	Tu.	Pr.	Total		Theory			Practical		Total	
							TA) (20)	CAE (20)	ESE (60)	Cont. Ass.	Ext.		
BAML201	Applied Mathematics –III	3	1	-	4	4	20	20	60	-	-	100	3
BENL 201	Electronic Devices & Circuits	3	1	-	4	4	20	20	60	-	-	100	3
BENP 201	Electronic Devices & Circuits	-	-	2	2	1	-	-	-	25	25	50	2
BENL202/ BENL208	Communication Electronics / Power Electronics	3	1	-	4	4	20	20	60	-	-	100	3
BENP 202/ BENP208	Communication Electronics / Power Electronics	-	-	2	2	1	-	-	-	25	-	25	-
BCOL201 BCOP201 /BCOL202	Data Structures / Computer Architecture & Organization	3	-	2	5	4	20	20	60	25	-	125	3
BENL204	Network Theory	3	1	-	4	4	20	20	60	-	-	100	3
BENGP203/ BENGP210	GENERAL PROFICIENCY:-II :Foreign Language/ GENERAL PROFICIENCY-III: Hobby classes	1	-	2	3	Audit Course	-	-	-	G	-	-	-
Total		17	4	8	29	23	100	100	360	75	25	600	

SEMESTER-IV

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs.)
		Th.	Tu	Pr	Total		Theory			Practical		Total	
							TAE (20)	CAE (20)	ESE (60)	Cont. Ass.	Ext.		
BENL205	Digital System Design	3	1	-	4	4	20	20	60	-	-	100	3
BENP205	Digital System Design	-	-	2	2	1	-	-	-	-	25	25	2
BENL206	Field Theory	3	1	-	4	4	20	20	60	-	-	100	3
BENL207	Analog Systems & Design	3	1	-	4	4	20	20	60	-	-	100	3
BENP207	Analog Systems & Design	-	-	2	2	1	-	-	-	-	25	25	2
BENL202/ BENL208	Communication Electronics / Power Electronics	4	-	-	4	4	20	20	60	-	-	100	3
BENP 202/ BENP208	Communication Electronics / Power Electronics	-	-	2	2	1	-	-	-	25	-	25	-
BCOL201 BCOP201 /BCOL202	Data Structures / Computer Architecture & Organization	3 3	- 1	2 -	5 4	4	20	20	60	25	-	125	3
BENP209	Modeling & Simulation	-	-	2	2	1	-	-	-	25	-	25	2
BENGP203 / BENGP210	GENERAL PROFICIENCY:-II :Foreign Language/ GENERAL PROFICIENCY-III: Hobby classes	1	-	2	3	Audit Course	-	-	-	G	-	-	-
	Total	17	4	10	31	24	100	100	300	75	50	625	-

SEMESTER-V

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs)
		Th.	Tu	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BENL 301	Microcontroller & Applications	4	-	-	4	4	20	20	60	-	-	100	3
BENP 301	Microcontroller & Applications	-	-	2	2	1	-	-	-	25	25	50	2
BENL 302	Signal & Systems	3	1	-	4	4	20	20	60	-	-	100	3
BENL 303	Control System Engineering	3	1	-	4	4	20	20	60	-	-	100	3
BENL 304/ BENL 305	Digital Communication / Digital Signal Processing	4	-	-	4	4	20	20	60	-	-	100	3
BENP 304/ BENP 305	Digital Communication / Digital Signal Processing	-	-	2	2	1	-	-	-	25	-	25	-
BCOL306	Computer Networks	4	-	-	4	4	20	20	60	-	-	100	3
BENP 307	Electronics Workshop Practice-I	-	-	2	2	1	-	-	-	25	-	25	2
BENP 308	Self Study	-	-	2	2	2	-	-	-	50	-	50	-
BENGP310/ BENGP313	GENERAL PROFICIENCY-IV(Advanced Communication Skill)/ General Proficiency –V "Employability Skills& Technical Report Writing	-	-	2	2	Audit Course	-	-	-		G	-	-
	Total	16	4	10	30	25	100	100	360	150	50	750	-

SEMESTER-VI

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs)
		Th.	Tu	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BENL 311	Telematics	4	-	-	4	4	20	20	60	-	-	100	3
BENP 311	Telematics	-	-	2	2	1	-	-	-	25	25	50	2
BENL 304/ BENL 305	Digital Communication/ Digital Signal Processing	4	-	-	4	4	20	20	60	-	-	100	3
BENP 304/ BENP 305	Digital Communication/ Digital Signal Processing	-	-	2	2	1	-	-	-	25	25	50	2
BHUL301	Engineering Economics & Industrial Management	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective – I	3	-	-	3	3	20	20	60	-	-	100	3
BENP 312	Minor Project	-	-	4	4	2	-	-	-	50	-	50	-
XXXXXX	Open Elective	3	-	-	3	3	20	20	60	-	-	100	3
BENGP310/ BENGP313	GENERAL PROFICIENCY-IV(Advanced Communication Skill)/ General Proficiency –V "Employability Skills& Technical Report Writing	2	-	-	2	Audit Course	-	-	-	G	-	-	-
BENGP314	General Proficiency–VI Research Methodology Workshop	2	-	-	2	Audit Course	-	-	-	G	-	-	-
	Total	21	-	8	29	21	120	120	360	100	50	750	

Elective –I: BCOL312: Computer Graphics & Visualization, BENL427: Communication Protocol Design BENL406: CMOS VLSI Design , BENL417: Sensors & Transducers

OPEN ELECTIVES:

S.N.	Code	Course Name
1	BAML301	Optimization Techniques
2	BCVL430	Environmental Science
3	BENL417	Sensors & Transducers
4	BENL430	Intellectual Patent Rights
5	BHUL414	Bio Systems in Engineering
6	BHUL415	Constitution of India
7	BMEL410	Nanotechnology
8	BMEL402	Unconventional Energy Sources
9	BMEL403	Reliability Engineering
10	BMEL204	Material Science
11	BCOEL413	Genetic Engineering
12	BENL300	Fuzzy Logic
13	BENL212	Principles of Business Management
14	BMEL210	Industrial and Resource Management
15	BCOL212	Project Management

SEMESTER-VII

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs)
		Th.	Tu	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
XXXXXX	Elective-II	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective-II	-	-	2	2	1	-	-	-	25	25	50	2
XXXXXX	Elective-III	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective-III	-	-	2	2	1	-	-	-	25	25	50	2
XXXXXX	Elective-IV	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective-IV	-	-	2	2	1	-	-	-	-	-	-	-
XXXXXX	Elective-V	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective-V	-	-	2	2	1	-	-	-	-	-	-	-
XXXXXX	Elective-VI	3	-	-	3	3	20	20	60	-	-	100	3
XXXXXX	Elective-VII	3	-	-	3	3	20	20	60	-	-	100	3
BENP408	Project Phase I : Project	-	-	4	4	2	-	-	-	50	-	50	2
	Total	18	-	12	30	24	120	120	360	100	50	750	-

Select any one subject of Elective- II/ Elective- III/ Elective- IV/ Elective- V	
	Elective- II
BENL 419/ BENP 419	VLSI Design & Technology
BENL 414/ BENP 414	OPTICAL COMMUNICATION
	Elective- III
BENL410/ BENP410	EMBEDDED SYSTEMS
BENL 306/ BENP 306	MICROWAVE ENGINEERING
	Elective- IV
BENL409/ BENP409	DIGITAL IMAGE PROCESSING
BENL416/ BENP416	MOBILE COMMUNICATION
	Elective- V
BENL425/ BENP425	RTOS
BENL428/ BENP428	WIRELESS SENSOR NETWORKS
	Elective- VI/ Elective-VII Select any 2 Subjects
BMEL403	MECHATRONICS
BMEL420	ROBOTICS
BENL420	PLC & SCADA
BENL422	MICROELECTROMECHANICAL SYSTEMS (MEMS)
BENL424	APPLICATION SPECIFIC INTEGRATED CIRCUITS DESIGN

BENL 413	WIRELESS COMMUNICATION
BENL415	RADAR & SATELLITE COMMUNICATION

SEMESTER-VIII

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper (Hrs)	
		Th.	Tu	Pr.	Total		Theory			Practical			Total
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass	Ext.		
BENP411	Industry Project	-	-	30	30	20	-	-	-	250	250	500	-
	Total	-	-	30	30	20	-	-	-	250	250	500	-