This is to certify that the Syllabus Handbook of B.Tech (Electronics and Telecommunication Engineering), has been reviewed and endorsed by the Board of Studies, Academic Council and Governing Body. The syllabus has been thoroughly examined and is in alignment with the academic and professional standards set forth by the University and relevant regulatory bodies.

It is hereby recommended for implementation with effect from the academic year 2025-26. This certificate serves as formal approval of the contents of the handbook and authorizes its distribution to students and faculty.

Course Structure-B.Tech Electronics and Telecommunication Semester – III Batch: A.Y 2025-2026 onwards

					ching :		me	Examination		on Schem		
Sr. No.	Core	Course Code	Course Name	L	т	P	C	Assess	Formative Assessment CIA		native sment E	Total Marks
								Course	Labora tory	Course	Laborat ory	
1	PCC	NYEC301	Semiconductor Devices & Circuits	3			3	50		100		100
2	PCC	NYEC302	Digital Circuits	3			3	50		100		100
3	PCC	NYEC303	Network Theory	3			3	50		100		100
4	OE		Open Elective-I #	3			3	50		100		100
5	MDM		Minor course I #	2			2	50		100		100
6	MDM		Minor course I # Laboratory			2	1		50		50	100
7	PCC	NYEC311	Semiconductor Devices & Digital Circuits Laboratory			2	1		50		50*	100
8	VEC (HSSM)	NLWV01	The Constitution & Human Rights	2			1	50		100		100
9	VSEC	NYEC312	Basics of IOT using Python Programming & Introduction to AI Tools			2	1		50		50*	100
10	AEC (HSSM)	NHSA11	Key Competencies for Career Growth			4	2		50		50*	100
11	CEP/FP	NYEC313	Community Engagement Project*/Field Project*			4	2		50		50*	100
			TOTAL	16		14	22	300	250	600	250	1100
			Value Add	ed Co	urse				<u> </u>			
12	VAC		Identification And Testing of Electronic Components And Devices			2						

• Note: For Open Elective I refer Annexure II and For Minor Course (MDM) refer Annexure III

		Formative Assessment					
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description			
Assessment L: Theory Lecture	PCC : Program Core course PEC : Programme elective Core	CIA 1	10%	Home Assignment			
T : Tutorial	OE: Open Elective	CIA 2	20%	Written Exam			
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation			
ESE : End Semester Exam	CEP/FP:Communityencougement project/Field project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary minor	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + practical attendance 5%) 			
		TOTAL	50%	·			



Course Structure-B.Tech Electronics and Telecommunication Semester – IV Batch: A.Y 2025-2026 onwards

				Teaching Scheme (Hrs./Week)			me	Exa	.e			
Sr. No.	Core	Course Code	Course Name	L	т	P	С	Form Assess CIA	ment		native sment E	Total Marks
								Course	Labora tory	Course	Labora tory	
1	PCC	NYEC401	Analog and Digital Communication	3			3	50		100		100
2	PCC	NYEC402	Computer Communication Networks	3			3	50		100		100
3	PCC	NYEC403	Signal and systems	3			3	50		100		100
4	PCC	NYEC411	Analog and Digital Communication Laboratory			2	1		50		50*	100
5	OE		Open Elective-II #	3			3	50		100		100
6	VSEC	NYEC412	Skill Based Laboratory (Matlab)			2	1		50		50*	100
7	MDM		Minor course 2 #	2			2	50		100		100
8	PCC	NYEC413	Computer Communication Networks Laboratory			2	1		50		50*	100
9	AEC (HSSM)	NYEC414	Reasoning and Aptitude Development			4	2		50		50*	100
10	VEC (HSSM)	NHSA12	Strategic Communication for Professionals			4	2		50		50*	100
			TOTAL	14	1	14	21	250	250	500	250	1000
			Value Ado	ded Co	urse							
11	VAC		PCB Design & Simulation			2						

		Formative Assessment						
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description				
Assessment	PC : Program Core course PEC : Programme elective Core	CIA 1	10%	Home Assignment				
L: Theory Lecture T: Tutorial	OE: Open Elective	CIA 2	20%	Written Exam				
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation				
ESE: End Semester Exam	AEC : AbilityEnhancement curses CEP/FP : Communityencougement project/Field project VSEC : Vocational and Skill Enhancement Course	CIA 4	10%	 Behavioural Attitude				
	MDM: Multidisciplinary minor	TOTAL	50%					

• Note: For Open Elective I refer Annexure II and For Minor Course (MDM) refer Annexure III

Students exiting the Second Year Programme after **securing minimum 80 credits** will be awarded **UG Diploma** in the relevant Discipline /Subject provided they **secure additional 8 credits** in skill-based vocational courses (skill-based courses, internship, mini projects etc) offered during summer vacation after the second year.



Course Structure-B.Tech Electronics and Telecommunication Semester - V Batch: A.Y 2025-2026 onwards

				Teacl	_	Sche Veek		Examination		on Schei		
Sr. No.	Core	Course Code	de Course Name	L	т	P	С	Formative Assessment CIA		Summative Assessment ESE		Total Marks
								Course	Labor atory	Course	Labor atory	
1	PCC	NYEC501	Power Electronics	3			3	50		100		100
2	PCC	NYEC502	Digital Signal Processing	3			3	50		100		100
3	PCC	NYEC503	Electromagnetic Field Theory	3			3	50		100		100
4	PEC	NYECE01-05	Program Elective-I	3			3	50		100		100
5	OE		Open Elective-III #	2			2	50		100		100
6	MDM		Minor course 3 #	3			3	50		100		100
7	MDM		Minor course 3 # Laboratory			2	1		50		50	100
8	VSEC	NYEC511	Digital Signal Processing Laboratory		1	2	1		50		50*	100
9	AEC (HSSM)	NHSA13	Essential Aptitude Skills		1	4	2		50		50	100
		7	l'otal	17	1	08	21	300	150	600	150	900
			Value Ad	ded C	ours	e						
11	VAC		PC Hardware & Computer Networking			2						

• Note: For Open Elective I refer Annexure II and For Minor Course (MDM) refer Annexure III

		Formative Assessment					
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description			
Assessment L : Theory Lecture	PC : Program Core course PEC : Programme elective Core	CIA 1 CIA 2	10% 20%	Home Assignment Written Exam			
T : Tutorial P : Practical	OE: Open Elective VAC: Value Added Courses	CIA 3	10%	Seminar Presentation			
ESE: End Semester Exam	AEC: AbilityEnhancement curses CEP/FP: Communityencougement project/Field project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary minor	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + practical attendance 5%) 			
	course	TOTAL	50%				

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Course Structure-B.Tech Electronics and Telecommunication Semester - VI Batch: A.Y 2025-2026 onwards

					hing S Irs./W			Examination Sch			ne	
Sr. No.	Core	Course Code	Course Name	L	т	P	С	Formative Assessment CIA		Summative Assessment ESE		Total Marks
								Course	Labor atory	Course	Labora tory	
1	PCC	NYEC601	Computer Communication Network	3			3	50		100		100
2	PCC	NYEC602	Fibre Optical Communication	3			3	50		100		100
3	PCC	NYEC603	Control System	2			2	50		100		100
4	PEC	NYECE06-10	Program Elective-II	3			3	50		100		100
5	PEC	NYECE11-15	Program Elective-III	3			3	50		100		100
6	MDM		Minor course 4 #	2			2	50		100		100
7	PCC	NYEC611	Power Devices and Circuits Laboratory			2	1		50		50*	100
8	PCC	NYECM14	Minor course 4 # Laboratory			2	1		50		50*	100
9	PCC	NYEC612	Optical Commnication Laboratory			2	1	-	50	-	50*	100
10	VSEC	NYEC613	Mini Project			4	2		50		50*	100
11	AEC	NHSA14	Employability Skills and Career Advancement			2	1		50		50*	100
		•	TOTAL	16		12	22	300	250	600	250	1100
			Value Ade	ded C	ourse	;						
12	VAC		Raspberry Pi Programming and Interfacing			2						

• Note: For Open Elective I refer Annexure II and For Minor Course (MDM) refer Annexure III.

Students exiting the 3-year UG program will be awarded **B.Voc.** in the relevant Discipline /Subject upon securing minimum 120 credits with additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc.) offered during summer vacation after the sixth semester.

		Formative Assessment						
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description				
Assessment L: Theory Lecture	PC : Program Core course PEC : Programme elective Core	CIA 1	10%	Home Assignment				
T: Tutorial	OE: Open Elective	CIA 2	20%	Written Exam				
P: Practical	VAC: Value Added Courses AEC: AbilityEnhancement curses CEP/FP:Communityencougement	CIA 3	10%	Seminar Presentation				
ESE: End Semester Exam		CIA 4	10%	 Behavioural Attitude				
	MDM: Multidisciplinary minor course	TOTAL	50%					



Course Structure- B.Tech Electronics and Telecommunication Semester - VII Batch: A.Y 2025-2026 onwards

				Teac	hing rs./V			Examinatio		on Schen		
Sr. No.	Core	Course Code	Course Name	L	т	P	С	Assess	Formative Assessment CIA		Summative Assessment ESE	
								Course	Labor atory	Course	Labora tory	
1	PCC	NYEC701	VLSI Design	3	-		3	50		100		100
2	PCC	NYEC702	Mobile Communication and Networks	2			2	50		100		100
3	PEC	NYECE16-19	Program Elective-IV	3			3	50		100		100
4	MDM		Minor course 5 #	2			2	50		100		100
5	PCC	NYEC711	VLSI Design Laboratory			2	1		50		50*	100
6	INT/OJT	NYEC712	INTERNSHIP/OJT*				12		50		50*	100
7	AEC	NHSA15	Corporate Readiness and Entrepreneurial Excellence			4	2		50		50*	100
			TOTAL	10	1	6	25	200	150	400	150	700
	Value Added Course											
8	VAC		Database Design and Programming with SQL			2						

Note: For Open Elective I refer Annexure II and For Minor Course (MDM) refer Annexure III

		Formative Assessment				
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description		
Assessment	PC : Program Core course	CIA 1	10%	Home Assignment		
L : Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam		
T: Tutorial	OE: Open Elective	CIA 3	10%	Seminar Presentation		
P: Practical ESE: End Semester Exam	VAC: Value Added Courses AEC: AbilityEnhancement curses CEP/FP: Communityencougement project/Field project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary minor	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + practical attendance 5%) 		
course	TOTAL	50 %	<u> </u>			

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Course Structure- B.Tech Electronics and Telecommunication Semester - VIII Batch: A.Y 2025-2026 onwards

				Teacl	_	Sche Veek)		Examinatio Formative Assessment CIA		on Schen		
Sr. No.	Core	Course Code	Course Name	L	т	P	С			Summative Assessment ESE		Total Marks
								Course	Labor atory	Course	Labora tory	
1	PCC	NYEC801	Satellite Communication	2			2	50		100		100
2	PCC	NYEC802	Electronics for Drone Technology	2	1		2	50		100		100
3	PEC	NYECE20-23	Program Elective-V	4			4	50		100		100
4	ELC	NYEC803	Research Methodology	4			4		50		50	100
5	PEC	NYECE24-28	Program Elective-VI	4	1		4	50		100		100
6	MDM		Minor course 6 #	2	1		2	50		100		100
7	CEP/FP	NYEC811	Project		1	8	4		50	-	100*	100
		T	OTAL	18	-	8	22	250	100	500	150	700
			Value Ad	ded C	ours	е						
8	VAC		Antenna Design			2						

		Formative Assessment					
CIA: Continuous Internal		CIA	Weightage	Description			
Assessment	PC: Program Core course	CIA 1	10%	Home Assignment			
L: Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam			
T: Tutorial	OE: Open Elective	CIA 3	10%	Seminar Presentation			
P: Practical ESE: End Semester Exam	VAC: Value Added Courses AEC: AbilityEnhancement curses CEP/FP: Communityencougement project/Field project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary minor	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + practical attendance 5%) 			
	course	TOTAL	50%				

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