

West Bengal State Council of Technical &
Vocational Education and Skill
Development
(Technical Education Division)



Curriculum Structure
of

Diploma in Electronics & Tele-
Communication Engineering [ETCE] and
Electronics & Communication Engineering
[ECE]

Part-II (3rd & 4th Semester) and Part-III (5th
& 6th Semester)

Revised 2022

Further suggestion may be submitted to the syllabus committee. List of the coordinators for the branch of Diploma in Electronics & Tele Communication Engineering are:

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WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION											
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES											
COURSE NAME:FULL TIME DIPLOMA IN ETCE & ECE											
DURATION OF COURSE:6 SEMESTERS											
SEMESTER:THIRD											
BRANCH: ELECTRONICS & TELECOMMUNICATION ENGG. AND ELECTRONICS & COMMUNICATION ENGG.											
SR. NO.	SUBJECT	CREDITS	PERIODS		EVALUATION SCHEME						Total Marks
			L	PR	THEORETICAL			PRACTICAL			
					TA	CT	Total	ESE	Internal	External	
1.	Principles of Electronic Communication	3	3	-	20	20	40	60	-	-	100
2.	Electronic Devices and Circuits	3	3	-	20	20	40	60	-	-	100
3.	Digital Electronics	3	3	-	20	20	40	60	-	-	100
4.	Electric circuits and network	3	3	-	20	20	40	60	-	-	100
5.	Computer Programming Language	3	3	-	20	20	40	60	-	-	100
6.	Principles of Electronic Communication Lab	1	-	2	-	-	-	-	60	40	100
7.	Electronic Devices and Circuits Laboratory	1	-	2	-	-	-	-	60	40	100
8.	Digital Electronics Laboratory	1	-	2	-	-	-	-	60	40	100
9.	Electric circuits and network Laboratory	1	-	2	-	-	-	-	60	40	100
10.	Computer Programming Language Laboratory	1	-	2	-	-	-	-	60	40	100
11.	Internship-I	1	-	-	-	-	-	-	-	-	100
	Total	21	15	10	100	100	200	300	300	200	1100

<ul style="list-style-type: none"> • STUDENT CONTACT HOURS PER WEEK: 25 hours • ACADEMIC CONTACT WEEKS PER SEMESTER:17 weeks(Teaching-15 weeks + Internal Exam-2weeks) • THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH • ABBREVIATIONS:L-Lecture, PR-Practical, IA-Internal Assessment, CT-Class Test, ESE-End Semester Exam • IA (Internal Assessmentfor Theoretical)=40 marks: CT=20 Marks, Attendance=10 marks and Quizzes/Assignment/Student Activity=10 marks. • Minimum qualifying marks for both Theoretical and Sessional subjects (for internal assessment and external assessment separately) are 40%. • IA (Internal Assessment for Practical)=60 marks:50 marks for continuous evaluation and 10 marks for Class attendance. • Internship-I will be completely assessed internally.

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION											
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES											
COURSE NAME:FULL TIME DIPLOMA IN ETCE & ECE											
DURATION OF COURSE:6 SEMESTERS											
SEMESTER:FOURTH											
BRANCH: ELECTRONICS & TELECOMMUNICATION ENGG. AND ELECTRONICS & COMMUNICATION ENGG.											
SR. NO.	SUBJECT	CREDITS	PERIODS		EVALUATION SCHEME						Total Marks
			L	PR	THEORETICAL			PRACTICAL			
					TA	CT	Total	ESE	Internal	External	
1.	Microcontroller and its Applications	3	3	-	20	20	40	60	-	-	100
2.	Consumer Electronics	3	3	-	20	20	40	60	-	-	100
3.	Linear Integrated Circuits	3	4	-	20	20	40	60	-	-	100
4.	Electronics Measurements and instrumentation	3	3	-	20	20	40	60	-	-	100
5.	Digital and Microwave Communication Systems	3	3	-	20	20	40	60	-	-	100
6.	Microcontroller and its Applications Lab	1	-	2	-	-	-	-	60	40	100
7.	Consumer Electronics Lab	1	-	2	-	-	-	-	60	40	100
8.	Linear Integrated Circuits Lab	1	-	2	-	-	-	-	60	40	100
9.	Electronics Measurements and instrumentation Lab	1	-	2	-	-	-	-	60	40	100
10.	Digital and Microwave Communication Systems Lab	1	-	2	-	-	-	-	60	40	100
	Total	20	16	10	100	100	200	300	300	200	1000

<ul style="list-style-type: none"> • STUDENT CONTACT HOURS PER WEEK: 26 hours • ACADEMIC CONTACT WEEKS PER SEMESTER:17 weeks (Teaching-15 weeks + Internal Exam-2 weeks) • THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH • ABBREVIATIONS:L- Lecture, PR-Practical, IA- Internal Assessment, CT- Class Test, ESE-End Semester Exam • IA (Internal Assessment for Theoretical)=40 marks:CT=20 Marks, Attendance=10 marks and Quizzes/Assignment/Student Activity=10 marks. • Minimum qualifying marks for both Theoretical and Sessional subjects (for internal assessment and external assessment separately) are 40%. • IA (Internal Assessment for Practical)=60 marks:50 marks for continuous evaluation and 10 marks for Class attendance.
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WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION											
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES											
COURSE NAME: FULL TIME DIPLOMA IN ETCE & ECE											
DURATION OF COURSE: 6 SEMESTERS											
SEMESTER: FIFTH											
BRANCH: ELECTRONICS & TELECOMMUNICATION ENGG. AND ELECTRONICS & COMMUNICATION ENGG.											
SR. NO.	SUBJECT	CREDITS	PERIODS		EVALUATION SCHEME						Total Marks
			L	PR	THEORETICAL			PRACTICAL			
					TA	CT	Total	ESE	Internal	External	
1.	Embedded Systems	3	3	-	20	20	40	60	-	-	100
2.	Advanced Communication System	3	3	-	20	20	40	60	-	-	100
3.	Industrial Electronics Or Medical Electronics	3	3	-	20	20	40	60	-	-	100
4.	Internet of Things Or Mobile Communication	3	3	-	20	20	40	60	-	-	100
5.	Embedded Systems Lab	1	-	2	-	-	-	-	60	40	100
6.	Advanced Communication System Lab	1	-	2	-	-	-	-	60	40	100
7.	Industrial Electronics Lab Or Medical Electronics Lab	1	-	2	-	-	-	-	60	40	100
8.	Hands on Internet of Things Or Mobile Communication	1	-	2	-	-	-	-	60	40	100
9.	Project	2	-	4	-	-	-	-	60	40	100
10.	Internship-II	1	-	-	-	-	-	-	-	-	100
	Total	19	12	12	80	80	160	240	300	200	1000

<ul style="list-style-type: none"> • STUDENT CONTACT HOURS PER WEEK: 24+2 = 26 hours (2 hours for Library) • ACADEMIC CONTACT WEEKS PER SEMESTER : 17 weeks (Teaching-15 weeks + Internal Exam-2 weeks) • THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH • ABBREVIATIONS: L- Lecture, PR- Practical, IA- Internal Assessment, CT- Class Test, ESE- End Semester Exam • IA (Internal Assessment for Theoretical)= 40 marks: CT= 20 Marks, Attendance =10 marks and Quizzes/Assignment/Student Activity=10 marks. • Minimum qualifying marks for both Theoretical and Sessional subjects (for internal assessment and external assessment separately) are 40%. • IA (Internal Assessment for Practical) =60 marks: 50 marks for continuous evaluation and 10 marks for Class attendance. • Internship-II will be completely assessed internally.

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION												
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME:FULL TIME DIPLOMA IN ETCE & ECE												
DURATION OF COURSE: 6 SEMESTERS												
SEMESTER: SIXTH												
BRANCH: ELECTRONICS & TELECOMMUNICATION ENGG. AND ELECTRONICS & COMMUNICATION ENGG.												
SR. NO.	SUBJECT	CREDITS	PERIODS		EVALUATION SCHEME							
			L	PR	THEORETICAL				PRACTICAL		Total Marks	
					TA	CT	Total	ESE	Internal	External		
1.	Engineering Economics and Project Management	3	3	-	20	20	40	60	-	-	100	
2.	Entrepreneurship and Startups	3	3	-	20	20	40	60	-	-	100	
3.	Industrial Automation or Control System and PLC	3	3	-	20	20	40	60	-	-	100	
4.	Computer Networking and Data Communication	3	3	-	20	20	40	60	-	-	100	
5.	Open Elective (Select any one) i) Industrial Management ii) Environmental Engineering & Science iii) Renewable Energy	3	3	-	20	20	40	60	-	-	100	
6.	Computer Networking and Data Communication Lab	1	-	2	-	-	-	-	60	40	100	
7.	Industrial Automation Lab or Control System and PLC Lab	1	-	2	-	-	-	-	60	40	100	
8.	Project	3	-	4	-	-	-	-	60	40	100	
9.	Seminar	2	-	2	-	-	-	-	60	40	100	
	Total	22	15	10	100	100	200	300	240	160	900	

<ul style="list-style-type: none"> STUDENT CONTACT HOURS PER WEEK: 25 hours ACADEMIC CONTACT WEEKS PER SEMESTER:17 weeks(Teaching-15 weeks +Internal Exam-2 weeks) THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH ABBREVIATIONS:L- Lecture, PR-Practical, IA- Internal Assessment, CT- Class Test, ESE-End Semester Exam IA (Internal Assessment for Theoretical)=40 marks: CT=20 Marks, Attendance=10 marks and Quizzes/Assignment/Student Activity=10 marks. Minimum qualifying marks for both Theoretical and Sessional subjects (for internal assessment and external assessment separately) are 40%. IA (Internal Assessment for Practical)=60 marks:50 marks for continuous evaluation and 10 marks for Class attendance. Seminar topics should be relevant to the corresponding disciplines.
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