

**CURRICULAR STRUCTURE FOR PART- II (2<sup>ND</sup> YEAR) OF THE FULL TIME DIPLOMA COURSES  
IN ENGINEERING AND TECHNOLOGY**

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION												
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME: FULL TIME Diploma in Instrumentation and Control Engineering												
DURATION OF COURSE: 6 SEMESTERS												
SEMESTER: THIRD												
BRANCH: ENGINEERING												
SR. NO.	SUBJECT	CREDITS	PERIODS			EVALUATION SCHEME						
			L	TU	PR	INTERNAL SCHEME			ESE	PR	@TW	Total Marks
						TA	CT	Total				
1.	Analog Electronics & Fundamentals	4	3	1	-	10	20	30	70	-	-	100
2.	Circuit Theory	3	2	1	-	10	20	30	70	-	-	100
3	Fundamentals of Instrumentation	3	3	-	-	10	20	30	70	-	-	100
4.	Basic Control System	2	2	1	-	5	10	15	35	-	-	50
5.	Electrical Measurement & Measuring Instruments	2	2	-	-	5	10	15	35	-	-	50
6	Electrical Machine	2	2			5	10	15	35			50
7.	Analog Electronics & Fundamentals Laboratory	3	-	-	3	-	-	-	-	100	-	100
8	Circuit Theory Laboratory	3	-	-	3	-	-	-	-	100	-	100
9.	Electrical Measurement & Measuring Instruments Laboratory	1	-	-	2	-	-	-	-	50	-	50
10.	Machine Laboratory	1	-	-	2	-	-		-	50	-	50
11.	Environmental Studies	-	1								50	
12.	Professional Practice – I	1	-	-	2	-	-	-	-	-	50	50
	Total	25	15	3	12	45	90	135	315	300	100	850

STUDENT CONTACT HOURS PER WEEK:33 hrs, (Teaching-15 weeks + Internal Exam-2 weeks )

THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.

ABBREVIATIONS: L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam, @TW-Term Work

TA (Teacher's assessment) = 10 marks: Attendance & surprise quizzes = 5 marks and Assignment & group discussion = 5 marks for CT= 20 Marks.

TA (Teacher's assessment) = 5 marks: Attendance & surprise quizzes + Assignment & group discussion = 5 marks for CT = 10 Marks.

Environmental Studies is a non credit based subject and only internal theoretical examination of 50 marks will be conducted.

Total Marks : 850

Minimum passing for Sessional marks is 40%, and for theory subject 40%.

Assessment of Practical, Oral & term work to be done as per the prevailing norms of curriculum implementation & assessment.

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DURATION OF COURSE: 6 SEMESTERS												
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			L	TU	PR	INTERNAL SCHEME			ESE	PR	@TW	Total Marks
						TA	CT	Total				
1.	Process Instrumentation I	3	3	1	-	10	20	30	70	-	-	100
2.	Process Control	3	3	-	-	10	20	30	70	-	-	100
3.	Digital Electronics	3	3		-	10	20	30	70	-	-	100
4.	Applied Electronics I	3	3			10	20	30	70	-	-	100
5.	Electronic Measuring Instruments	2	2			5	10	15	35			50
6.	Process Instrumentation I Laboratory	3			3					100		100
7.	Digital Electronics Laboratory	2	-	-	3	-	-	-	-	50	-	50
8.	Applied Electronics Laboratory	2	-	-	3	-	-	-	-	50	-	50
9.	Programming In C	2	1		2					50		50
10.	Development of Life Skill-I	1	-	-	2	-	-		-	50	-	50
11.	Professional Practice – II	1			2						50	50
12.	Disaster Management	1	2	-	-	-	-	-	-	-	50	50
	<b>Total</b>	<b>26</b>	<b>17</b>	<b>1</b>	<b>15</b>	<b>45</b>	<b>90</b>	<b>135</b>	<b>315</b>	<b>300</b>	<b>100</b>	<b>850</b>

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