

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

(A Statutory Body under West Bengal Act XXI of 1995) **"Kolkata Karigori Bhavan", 2<sup>ml</sup> Floor, 110 S.N.Banerjee Road, Kolkata – 700 013** 

Phone: (033) 2227-7070; 2227-7592

Memo No:5287-SC(T)E

Date: 10<sup>th</sup> October, 2013

### **Notice**

This is for information to all concern that, Council has successfully revamp the syllabi of 1<sup>st</sup> year for Diploma courses offered through different Polytechnics affiliated to the Council. In continuation of the revamping procedure, various syllabus sub-committees have exerted their full effort to frame out the curriculum structure initially for the seven major disciplines. The proposed draft curriculum structures have been developed in consideration with the model syllabus uploaded by AICTE on the website <u>http://www.aicte-india.org/mdiploma.htm</u> and after active consultation with eminent University experts.

Suggestions and comments are invited from the respective subject teacher of different Polytechnics and from other stake holders regarding the proposed curriculum structure with the aim to implement new revised syllabi from the next academic session.

The suggestion should be contained the branch name and relevant title mentioning it position on the particular structure with his/her name and phone The number. suggestions submitted address be to email to "syllabus.w<u>bscte.2013@gmail.com</u>" within 12th November 2013. Constructive suggestion and comments will be actively considered by the syllabus committee for finalization of curriculum structure for further development of detailed syllabi essential for the enhancement of the quality of Diploma education in the state.

SECRETARY

# PROPOSED CURRICULAR STRUCTURE FOR PART-II (2<sup>ND</sup> YEAR) OF THE FULL TIME DIPLOMA COURSE IN AUTOMOBILE ENGINEERING

	WEST BE	NGAL STA	TE CC	UNCI	_ OF TI	ECHNI	CALE	DUCATIO	N						
	TEACHING & EXAN	/INATION S	SCHEI	ME FO	R DIPL	.OMA	IN EN	GINEERIN	G COL	JRSES					
BRA	ANCH: DIPLOMA IN AUTOMO	BILE ENGIN	IEERI	NG					SE	EMESTE	R: TH	IRD			
SR.	SUBJECT	CREDITS	F	PERIOD	DS			EVALUA	ATION	SCHEN	ЛЕ				
NO.			L	TU	PR	I	NTERI	NAL	ESE	PR	ΤW	TOTAL			
							SCHE	ME				MARKS			
			_			TA	CT	TOTAL							
1	Fundamental s of	2	2	-	-	5	10	15	35	-	-	50			
2	Electronics	2	2			-	10	15	25			50			
2	Advanced strength of	2	2	-	-	5	10	15	35	-	-	50			
	materials														
2	Heat Rower Engineering	2	2	_	_	10	20	30	70		_	100			
5	heat rower Lingmeening -	5	5	-	_	10	20	30	70	-	_	100			
Λ	Automotive Engines	5	3	-	Δ	10	20	30	70	50	-	150			
5	Automotive Chassis –I	2 2	3	-	2	10	20	30	70	50	-	150			
5		·	5		-	10	20	50	/0	50		100			
6	6Materials Science and Manufacturing Process43-31020307050-1507Automobile Engineering Drawing31-3100-100														
Ũ	6     Materials Science and Manufacturing Process     4     3     -     3     10     20     30     70     50     -     150       7     Automobile Engineering Drawing     3     1     -     3     -     -     -     100     -     100       8     Electrical & Electronics     1     -     2     -     -     50     -     50														
7	6Materials Science and Manufacturing Process43-31020307050-1507Automobile Engineering Drawing31-3100-1008Electrical & Electronics1250-50														
	6Materials Science and Manufacturing Process43-31020307050-1507Automobile Engineering Drawing31-3100-1008Electrical & Electronics1250-50														
8	oIvial errais science and Manufacturing Process43-31020307050-1507Automobile Engineering Drawing31-3100-1008Electrical & Electronics1250-50														
	7Automobile Engineering Drawing31-3100-1008Electrical & Electronics Laboratory1250-50														
9	7     Automobile Engineering Drawing     3     1     -     3     -     -     -     100     -     100       8     Electrical & Electronics     1     -     -     2     -     -     -     50     -     50       9     Professional Practice -I     2     -     -     2     -     -     -     50     50														
	Drawing       I </td														
STUD	ENT CONTACT HOURS PER W	EEK: 33Hrs.													
Theory	and Practical Period of 60 Minutes	each.													
L – Le c	turer, TU –Tutorial, PR – Practical, T	A – Tea che rs '	Asses	sment,	CT – da	iss Test	, ESE —	End Semest	ter Exan	n., TW –	Term V	Vork.			
	WEST BE	ENGAL STA	TE CC	UNCI	_ OF TI	ECHNI	CAL EI	DUCATIO	N						
	TEACHING & EXAN	/INATION S	SCHE	ME FO	R DIPL	.OMA	IN EN	GINEERIN	G COL	JRSES					
BRA	ANCH: DIPLOMA IN AUTOMO	BILE ENGIN	IEERI	NG					SE	EMESTE	R: FO	RTH			
SR.	SUBJECT	CREDITS		PERIO	DS			EVALU	ATION	SCHE	ME				
NO.			L	TU	PR		INTEF	RNAL	ESE	PR	ΤW	TOTAL			
							SCHE	EME	_			MARKS			
		-		-		TA	СТ	TOTAL							
1	Development of life skill - I	2	2	1	-	5	10	15	35	-	-	50			
2	Heat Power Engineering -II	2	2	-	-	5	10	15	35	-	-	50			
3	Computer Programming	2	1	-	2	-	-	-	-	50	-	50			
4	Advanced Automobile	4	3	-	3	10	20	30	70	50	-	150			
	Engines														
5	Automobile Transmission	4	3	-	2	10	20	30	70	50	-	150			
	System														
6	Automobile Manufacturing	4	3	-	2	10	20	30	70	50	-	150			
	Process				-	- 10	-		=-			105			
/	Ineory of Machines &	3	3	1	-	10	20	30	/0	-	25	125			
0		1			-	-	-			50		50			
ð	Heat Power Engineering	1	-	-	2	-	-	-	-	50	-	50			
0	Drofossional Drastica	2			2						FO	50			
Э		2	-	-	3	-	-	-	-	-	20	50			
	Total	24	17	2	1/	50	100	150	350	250	75	825			
	ΕΝΤ CONTACT HOURS PER W	FFK· 22Hrc	11/		1 14	50		100	550		15	525			
	· · · · · · · · · · · · · · · · · · ·														
Theory	and Practical Period of 60 Minutes	each.													

# PROPOSED CURRICULAR STRUCTURE FOR PART-III (3<sup>RD</sup> YEAR) OF THE FULL TIME DIPLOMA COURSE IN AUTOMOBILE ENGINEERING

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

	TEACHING & EXAN	VIINATION S	CHER	VIE FOI	R DIPL	OIVIA	IN ENG	JINEERIN	GCOL	JRSES			
BRA	ANCH: DIPLOMA IN AUTOMOI	BILE ENGINI	EERIN	IG					SE	MESTEI	R: FIFT	Ή	
SR.	SUBJECT	CREDITS	F	PERIO	DS			EVALUA	ATION	SCHEN	ΛE		
NO.			L	TU	PR		NTER	NAL	ESE	PR	TW	TOTAL	
							SCHEI	ME				MARKS	
						TA	СТ	TOTAL					
1	Automobile Component	2	-	-	3	-	-	-	-	100	-	100	
	Design												
2	Automotive Chassis- II	4	3	-	2	10	20	30	70	50	-	150	
3       Hydraulics & Pneumatics       3       3       -       10       20       30       70       -       100													
4       Earth Moving Equipments       4       3       -       10       20       30       70       -       100													
4       Earth Moving Equipments       4       3       -       10       20       30       70       -       -       100         & Farm Machinery													
5	Elective-I	2	2	1	-	10	20	30	70	-	25	125	
6	Automotive Electrical &	4	3	-	3	10	20	30	70	50	-	150	
	Electronics												
7	Strength of Material And												
	Hydraulic & Pneumatic	2	-	-	4	-	-	-	-	50	-	50	
	Laboratory												
8	Industrial Project &												
	Entrepreneurship	2	1	-	2	-	-	-	-	50	-	50	
	Development												
9	Professional Practice-	2	-	-	3	-	-	-	-	-	50	50	
	III(AE)												
	Total	25	15	1	17	50	100	150	350	300	75	875	
STUD	ENT CONTACT HOURS PER WI	EEK: 33Hrs.											
Theory	and Practical Period of 60 Minutes	each.											

L – Lecturer, TU – Tutorial, PR – Practical, TA – Teachers' Assessment, CT – Class Test, ESE – End Semester Exam., TW – Term Work

	WEST B	ENGAL STA	TE CO	OUNC	IL OF T	ECHN	ICAL E	DUCATIO	N						
	TEACHING & EXA	MINATION	SCHE	ME FC	DR DIP	loma	IN EN	GINEERI	IG COL	IRSES					
BRA	ANCH: DIPLOMA IN AUTOMC	BILE ENGIN	IEERI	NG					SE	MESTEI	R: SIXT	ΓH			
SR.	SUBJECT	CREDITS	F	PERIO	DS			EVALU	ATION	SCHEN	1E				
NO.			L	TU	PR		NTER	NAL	ESE	PR	TW	TOTAL			
							SCHEI	ME				MARKS			
						TA	СТ	TOTAL							
1	1       Industrial Management       3       3       -       10       20       30       70       -       -       100         2       Workshop Organisation &                100														
2	1   Industrial Wallagement   5   5   1   10   20   30   70   1   100     2   Workshop Organisation &        10   20   30   70   1   100														
	2Workshop Organisation & Vehide Maintenance63161020307075-175														
	Vehide Maintenance       6       3       1       6       10       20       30       70       75       -       175         Management                175         175														
3	M.V Act & Transport	3	3	-	-	10	20	30	70	-	-	100			
	Management														
4	Elective –II	3	3	1	-	10	20	30	70	-	25	125			
5	Industrial Project	3	1		5	-	-	-	-	100	50	150			
6	Professional Practice-	2	-	-	3	-	-	-	-		50	50			
	IV(AE)														
7	Driving Practice	2	-	-	4	-	-	-	-	50	-	50			
8	Grand Viva-voce	3	-	-		-	-	-	-	-	-	100			
	Total	25	13	2	18	40	80	120	280	225	125	850			
STUD	ENT CONTACT HOURS PER W	/EEK: 33Hrs													
Theory	and Practical Period of 60 Minutes	each.				_			_						
L – Le c	turer, TU –Tutorial, PR – Practical, T	TA – Tea che rs	Asses	ssment,	CT – Ca	ass Tes	t, ESE –	End Semes	ter Exam	. <i>,</i> TW – T	erm Wo	ork			

					ROPOSED CUR	RRICULUM FOR THE SEM	ESTER	3 of I	DIPLOMA IN	CIVIL	ENGIN	NERING						
								]	Examination	n Pa	attern		Fu	11 m	arks	for		
					contact p	eriod per week	as th	inter sessmo eoretic	nal ent(for cal sub)	Exte (for	ernal as theore	sessment tical sub)	Theoretical	S	essional	subjects	Full Marks alloted for Semester 3	Credits
SL no	subject	subject code	question code	packet code	lecture	sessional	СТ	TA	Total internal	obj	subj	Marks alloted for ESE	subject	TW	PR	total for sessional	examination	
	Theoreti cal																	
1	Surveying				3		20	10	30			70	100				100	3
2	Building material and construction				3		20	10	30			70	100				100	3
3	Concrete Technology				3		20	10	30			70	100				100	3
4	Mechanics of Structure				4		20	10	30			70	100				100	4
5	Hydraulics				3		20	10	30			70	100				100	3
	Sessional																	
6	Civil Engineering Drawing					6								25	75	100	100	3
7	Civil Engg Lab I					6								25	75	100	100	3
8	Professional Practice I					3								25	25	50	50	2
	Total =				16	15	100	50	150			350	500	75	175	250	750	24

Student contact hour per week is 31 hour.

Theory and Practical classes will be of 1(one) hour duration.

List of abbreviation used: CT - class test; TA - Teacher's Assessment (Attendance & surprise quizzes = 6 marks; Assignment & group discussion = 4 marks.)

Obj - objective (Fill in the blanks, True/False, Multiple choice question, of very short calculation etc)

Subj - Subjective question (each question consists of three to four subdivision having number not exceeding 4 marks)

#### NO QUESTION SHOULD START WITH "WHY" OR ASKS FOR "GIVING OR CITING REASONS"

TW - term work (to be evaluated by a board of departmental teachers)

PR-Practical (to be evaluated by external teachers)

Minimum passing marks for Theoretical and Sessional subjects will be 40%

All other rules and regulations for assessment of practical and term work will be carried out as per prevailing norms

					PROPOSED CU	RRICULUM FOR THE SEM	IESTER	R4 of	DIPLOMA II	N CIVI	L ENGI	NNERING						
								]	Examination	n Pa	attern		Fu	11 m	arks	for		
					contact p	eriod per week	as th	inter ssessmo eoretic	nal ent(for cal sub)	Exte (for	ernal as theore	sessment tical sub)	Theoretical	s	essional	subjects	Full Marks alloted for Semester 4	Credits
SL no	subject	subject code	question code	packet code	lecture	sessional	СТ	ТА	Total internal	obj	subj	Marks alloted for ESE	subject	TW	PR	total for sessional	examination	
	Theoretical																	
1	Advanced Surveying				3		20	10	30			70	100				100	3
2	Geotechnical Engineering I				3		20	10	30			70	100				100	3
3	Transportation Engineering				3		20	10	30			70	100				100	3
4	Estimating and Costing				4		20	10	30			70	100				100	4
5	Irrigation Engineering				3		20	10	30			70	100	-			100	3
	Sessional																	
6	Field Survey Practice I *					3								25	75	100	100	2
7	Application of CAD in Civil Engineering I					3								25	75	100	100	2
8	Professional Practice II					3								25	25	50	50	2
9	Civil Engg Lab II					3								25	75	100	100	2
10	Development of Life Skill II					2								25	25	50	50	1
	Total =				16	14	100	50	150			350	500	125	275	400	900	25

Student contact hour per week is 30 hour.

Theory and Practical classes will be of 1(one) hour duration.

List of abbreviation used: CT - class test; TA - Teacher's Assessment (Attendance & surprise quizzes = 6 marks; Assignment & group discussion = 4 marks.)

Obj - objective (Fill in the blanks, True/False, Multiple choice question, of very short calculation etc)

Subj - Subjective question (each question consists of three to four subdivision having number not exceeding 4 marks)

#### NO QUESTION SHOULD START WITH "WHY" OR ASKS FOR "GIVING OR CITING REASONS"

 $TW\xspace$  – term work ( to be evaluated by a board of departmental teachers)

PR-Practical (to be evaluated by external teachers)

Minimum passing marks for Theoretical and Sessional subjects will be 40%

Rules and regulations for assessment of practical and term work will be carried out as per prevailing norms

					PROPOSED CU	URRICULUM FOR THE SE	MESTE	R <b>5of</b> ∐	DIPLOMA	n civi	ENGIN	INERING						
									Examinati	on Pa	attern		Fu	11 m	arks	for	Full Marks	
					contact p	eriod per week	a tł	inter ssessm neoreti	nal ent(for cal sub)	Exte (for	ernal as theore	sessment tical sub)	Theoretical	S	essional	subjects	alloted for Semester 5 examination	Credits
SL no	subject	subject code	question code	packet code	lecture	sessional	СТ	ТА	Total internal	obj	subj	Marks alloted for ESE	subject	тw	PR	total for sessional		
	Theoretical																	
1	Building Services and Entrepreneurship Development				3		20	10	30			70	100				100	3
2	Contract and Accounts				2		10	5	15			35	50				50	2
3	Highway Engineering				3		20	10	30			70	100				100	3
4	Design of RCC structure				4		20	10	30			70	100				100	4
5	Geotechnical Engineering II				2		10	5	15			35	50				50	2
	Sessional																	
6	Geotechnical Engineering Lab					3								25	75	100	100	2
7	Civil Engineering Lab III					3								25	75	100	100	2
8	Application of CAD in Civil Engineering II					3								25	75	100	100	2
9	Professional Practice III					3								25	25	50	50	2
10	Civil Engineering Project I					3								25	75	100	100	2
	Total =				14	15	80	40	120			280	400	125	325	450	850	24

Student contact hour per week is 29 hour.

Theory and Practical classes will be of 1(one) hour duration.

List of abbreviation used: CT - class test; TA - Teacher's Assessment (Attendance & surprise quizzes = 6 marks; Assignment & group discussion = 4 marks.)

Obj - objective (Fill in the blanks, True/False, Multiple choice question, of very short calculation etc)

Subj - Subjective question (each question consists of three to four subdivision having number not exceeding 4 marks)

#### NO QUESTION SHOULD START WITH "WHY" OR ASKS FOR "GIVING OR CITING REASONS"

TW – term work ( to be evaluated by a board of departmental teachers) imum passing marks for Theoretical and Sessional subjects will be 40%

PR-Practical (to be evaluated by external teachers)

Rules and regulations for assessment of practical and term work will be carried out as per prevailing norms

								Examinatio	n Pa	attern		Fu	ll ma	arks	tor		
				contact p	eriod per week	a: th	inter ssessm leoreti	nal ent(for cal sub)	Exte (for	ernal as theore	sessment tical sub)	Theoretical	Se	essional	subjects	Full Marks alloted for Semester 3	Credit
SL no	subject	subject code	question code packet code	lecture	sessional	СТ	TA	Total internal	obj	subj	Marks alloted for ESE	subject	TW	PR	total for sessional	examination	
	Theoretical																
1	Design of Steel Structure			4		20	10	30			70	100				100	4
2	Management			3		20	10	30			70	100				100	3
3	Environmental Engineering			4		20	10	30			70	100				100	4
4	Elective (any one) #			3		20	10	30			70	100				100	3
	Sessional																
5	Civil Engineering Project II				3								25	75	100	100	2
6	Civil Engg Lab IV				3								25	75	100	100	2
7	Field Survey Practice II				3								25	75	100	100	2
8	Professional Practice IV				3								25	25	50	50	2
9	Rural Engineering				3								25	25	50	50	2
10	General Viva-voce													100	100	100	
	Total =			14	15	80	40	120			280	400	125	375	500	900	24
ist o Jbj - Subj	ent contact hour per v of abbreviation used: ( objective (Fill in the l - Subjective question <b>QUESTION SHOULD</b>	week is 29 f CT – class t blanks, Tru i (each qu <b>) START i</b>	Theory and Practic est; TA - Teacher's Assessment ( e/False, Multiple choice question estion consists of three to four su WITH "WHY" OR ASKS FOR "	al classes will be of 1 (o Attendance & surprise , of very short calculatio bdivision having numbe <b>GIVING OR CITING RE</b>	ne) hour duration. quizzes = 6 marks ; Assig m etc) r not exceeding 4 marks) <b>ASONS"</b>	mment &	s group	discussion =	= 4 mai	rks.)							
ſW –	term work (to be eva	luated by a	board of departmental teachers)		PR-Practical (to be eval	uated by	externa	al teachers)			Minimum	passing marks	for Theor	retical an	d Sessional sul	ojects will be 40%	
<b># A.</b>	Elective 1 -Advanced	dconstruct	tion techniques and equipment	s B. Elective 2 - Maint	enance and Rehabilitat	ion of St	ructur	e C. Electiv	e 3 - P	lumbin	g services I	). Elective 4 - A	rchitect	ural prac	ctices and inte	rior designe	
* Fie	ld survey practice II	can be co	nducted at a stretch within a	time frame of 10 days	. In such case class load	for FSP	II ma	v be distrib	uted to	o the ot	ther subject	ts, if required					

### WEST BENGAL STATE COUNCIL OF ECHNICAL EDUCATION

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: COMPUTER SCIENCE AND TECHNOLOGY

### SEMESTER: THIRD

BRANCH CODE: CST

		CREDITS	F	RIO	DS			EVALUAT	TON SCI	HEME	
SR.	SUBJECT		L	Т	PR	INTE	R N AL SC	CHEME	ESE	PR	TOTAL
NO.				U		TA	СТ	Total			MARK
1	Discrete Mathematics	3	3			10	20	30	70		100
2	C Programming	3+2	3		3	10	20	30	70	100	200
3	Digital Techniques	3+1	3		2	10	20	30	70	50	150
4	Relational Data Base Management	3+2	3		3	10	20	30	70	50	150
	Systems										
5	Computer Organization & Architecture	3	3			10	20	30	70		100
6	Electronics Device & Circuits	3+1	3		2	10	20	30	70	50	150
7	Professional Practice-I (PC Maintenance)	2			3					50	50
Tota	l	26	18		13	60	120	180	420	300	900
CTU											

STUDENT CONTACT HOURS PER WEEK: 31 HRS.

Theory and Practical Periods of 60 minutes each.

L-Lecture, TU-Tutorials, PR-Practical, TA-Teachers Assessment, CT-Class Test, ESE-End Semester Examination.

### PROPOSED CURRICULAR STRUCTURE FOR PART – 2 (2<sup>ND</sup> YEAR) OF THE FULL- TIME DIPLOMA COURSE IN ENGINEERING AND TECHNOLOGY

WEST BENGAL STATE COUNCIL OF ECHNICAL EDUCATION

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: COMPUTER SCIENCE AND TECHNOLOGY

### SEMESTER: FOURTH

BRANCH CODE: CST

		CREDITS	Р	RIOD	S		E	VALUATI	ON SCH	EME	
SR.	SUBJECT		L	Т	PR	INTER	NAL SC	HEME	ESE	PR	TOTAL
NO.				U		TA	СТ	Total			MARK
1	Microprocessor & Programming	3+1	3		2	10	20	30	70	50	150
2	Computer Network	3+1	3		2	10	20	30	70	50	150
3	Data Structure	3+2	3		3	10	20	30	70	100	200
4	Object Oriented Programming	3+1	3		2	10	20	30	70	50	150
5	Computer Graphics	3+1	3		2	10	20	30	70	50	150
6	Development of Life Skills-II	1+1	1		2					50	50
7	Professional Practice-II ( Web Page	2			3					50	50
	Development)										
Tota		24	16		15	50	100	150	350	400	900
STUD	DENT CONTACT HOURS PER WEEK: 31 HRS.										
Theo	ory and Practical Periods of 60 minutes eac	h.									

L-Lecture, TU-Tutorials, PR-Practical, TA-Teachers Assessment, CT-Class Test, ESE-End Semester Examination.

### WEST BENGAL STATE COUNCIL OF ECHNICAL EDUCATION

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: COMPUTER SCIENCE AND TECHNOLOGY

### SEMESTER: FIFTH

BRANCH: CST

		CREDITS	PF	RIO	DS			EVALUAT	ION SCH	HEME	
SR.	SUBJECT		L	Т	PR	INTE	R N AL SC	CHEME	ESE	PR	TOTAL
NO.				U		TA	СТ	Total			MARK
1	Software Engineering	3	3			10	20	30	70		100
2	Java Programming	3+2	3		4	10	20	30	70	100	200
3	Operating System	3+1	3		2	10	20	30	70	50	150
4	Theory of Computation	3	3			10	20	30	70		100
5	ELECTIVE- I (Any One)										
	Network Management and Administration	3+2	3		3	10	20	30	70	50	150
	Multimedia and Animation Technique	3+2	3		3	10	20	30	70	50	150
	Advanced Microprocessor Technology	3+2	3		3						
6	Project (Phase-I)				4						
7	Professional Practice-III (Visual Basic)	2			3					50	50
Tota		22	15		16	50	100	150	350	250	750

STUDENT CONTACT HOURS PER WEEK: 31 HRS.

Theory and Practical Periods of 60 minutes each.

L-Lecture, TU-Tutorials, PR-Practical, TA-Teachers Assessment, CT-Class Test, ESE-End Semester Examination.

### PROPOSED CURRICULAR STRUCTURE FOR PART – 2 (2<sup>ND</sup> YEAR) OF THE FULL- TIME DIPLOMA COURSE IN ENGINEERING AND TECHNOLOGY

WEST BENGAL STATE COUNCIL OF ECHNICAL EDUCATION

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: COMPUTER SCIENCE AND TECHNOLOGY

### SEMESTER: SIXTH

### BRANCH: CST

		CREDITS	PI	RIOD	S			EVALUA	FION SCHE	ME	
SR.	SUBJECT		L	Т	PR	INTE	R N AL SC	CHEME	ESE	PR	TOTAL
NO.				U		TA	СТ	Total			MARK
1	Industrial Management	3	3			10	20	30	70		100
2	Advanæd Java Programming	3+2	3		4	10	20	30	70	100	200
3	System Programming & Compiler Design	3+1	3		2	10	20	30	70	50	150
4	ELECTIVE – II (Any One)										
	Numerical Methods	3+2	3		4	10	20	30	70	50	150
	Advanced Web Technology	3+2	3		4	10	20	30	70	50	150
	Digital Image Processing	3+2	3		4						
5	Project (Phase-II)	6			6					100	100
6	Professional Practice-IV(Seminar Work)	2			3					50	50
7	General Viva Voce	3								100	100
Tota		28	12		19	40	80	120	280	450	850
STUD	DENT CONTACT HOURS PER WEEK: 31 HRS.										
Theo	ory and Practical Periods of 60 minutes each	•									

L-Lecture, TU-Tutorials, PR-Practical, TA-Teachers Assessment, CT-Class Test, ESE-End Semester Examination.

### W.B.S.C.T.E. TEACHING AND EXAMINATION SCHEME FOR DIPLOMA COURSES COURSE NAME: ELECTRICAL ENGINEERING

## COURSE CODE : EE

**DURATION OF COURSE : 6 SEMESTER SEMESTER: THIRD SEMESTER** 

SEMES	TER: THIRD SEMESTER						SC	HEME	: C		
Sr.No.	SUBJECT	P	ERIO	DS		Ε	VALUATI	ON SC	HEME		Credits
	THEORY	L	тп	Р	SESS	ONSAL	EXAM	ESE	PR(	PR	
	miloni		10	•	ТА	СТ	Total	LJL	INT.	(EA T.)	
1	Electrical Circuit &	03	01	02	10	20	30	70	25	25	5
	Network										
2	Electrical Machine I	03		03	10	20	30	70	25	50	5
3	Basic Electronics	03		02	10	20	30	70	25	25	4
4	Programming in C	02		02	5	10	15	35			3
5	Electrical Measuring	03		02	10	20	30	70	25	25	4
6	Electrical Workshop I			02					25	25	1
7	Elements of Mechanical & Civil Engineering	02			5	10	15	35			2
8	Professional Practices I			02					25	25	1
	Total	16	01	15	50	100	150	350	150	17	25

#### STUDENT CONTACT HOURS PER WEEK: **32 HTEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH**

#, External Assessment @, Internal Assessment ESE - End Semester Exam.

ABBREVIATIONS: CT- Class Test, TA - Teachers Assessment, L - Lecture, TU - Tutorial, PR (INT.) – Practical

(Internal) Practical(External) TA: Attendance & surprise quizzes = 6 marks. Assignment & group discussion = 4 marks. **Total Marks : 825** 

Minimum passing for socional marks is 100% and for theory subject 100%

### W.B.S.C.T.E. TEACHING AND EXAMINATION SCHEME FOR DIPLOMA COURSES COURSE NAME: ELECTRICAL ENGINEERING

COURSE CODE : EE

## DURATION OF COURSE : 6 SEMESTERS

SEMES	TER: FOURTH SEMESTE	R					SC	CHEME	E : C		
Sr.No.	SUBJECT	P	ERIO	DS		E	VALUATI	ON SC	НЕМЕ		o 11.
	τηέυδα	T	тп	D	SESS	IONSAL	EXAM	FSF	DD(	PR	Credits
	meori	L	10	1	ТА	СТ	Total	LSL	INT.	(EX T.)	
1	Electrical Machine II	03		03	10	20	30	70	25	50	5
2	Electrical Measurement & Control	03		02	10	20	30	70	25	25	4
3	Utilization, Traction and	03		02	10	20	30	70	25	25	4
	Heating										
4	Applied Electronics	03		02	10	20	30	70	25	25	4
5	Power Plant	03			10	20	30	70			3
6	Computer aided Drawing using Autocad			03					25	25	2
7.	Development of Life Skill - II	01		02					25	25	2
8.	Professional Practice - II			02					25	25	1
	Total	16		16	50	100	150	350	175	200	25
STUDE	NT CONTACT HOURS PER	WE	EK· 3	2 HR	S	1		1	I		

HTEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH

#, External Assessment @, Internal Assessment ESE - End Semester Exam.

ABBREVIATIONS: CT- Class Test, TA - Teachers Assessment, L - Lecture, TU - Tutorial, PR (INT.) – Practical

(Internal) Practical(External)

TA: Attendance & surprise quizzes = 6 marks. Assignment & group discussion = 4 marks.

Total Marks : 875

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

### W.B.S.C.T.E. TEACHING AND EXAMINATION SCHEME FOR DIPLOMA COURSES COURSE NAME: ELECTRICAL ENGINEERING

**COURSE CODE : EE** 

### **DURATION OF COURSE : 6 SEMESTERS**

SEMES	TER: FIFTH SEMESTER						SCHI	EME : C			
Sr.No	SUBJECT	P	ERIO	DS			EVALUA	<b>ΓΙΟΝ S</b>	CHEME		
	THEORY				SES	SIONSA	AL EXAM		PR(I	PR (E	
		L	TU	Р	TA	СТ	Total	ESE	NT.)	XT. )	Credits
1	Power Electronics and Drives	03		02	10	20	30	70	25	25	4
2	Application of	03		02	10	20	30	70	25	25	4
	Microprocessor &										
	Microcontroller										
3	Switchgear & Protection	03		02	10	20	30	70	25	50	4
4	Industrial Project &	02		02					25	50	3
	Entrepreneurship										
	Development										
5	Transmission & Distribution of Power	03		02	10	20	30	70	25	25	4
6	Elective I (Any One)	03		02	10	20	30	70	25	25	4
	Illumination Engineering										
	Process Control										
	Energy Conservation & Audit										
	Non Conventional										
7	Professional Practice -			03					25	25	2
	Total	17		15	50	100	150	350	175	225	25
STUDE HTEOR	NT CONTACT HOURS PER RY AND PRACTICAL PER	WE	EK: <b>3</b> 5 <b>of</b> 6	2 HRS 50 MIN	UTES				<b>I</b>	I	I

EACH

#, External Assessment @, Internal Assessment ESE - End Semester Exam.

ABBREVIATIONS: CT- Class Test, TA - Teachers Assessment, L - Lecture, TU - Tutorial, PR (INT.) – Practical

(Internal)

Practical(External)

TA: Attendance & surprise quizzes = 6 marks. Assignment & group discussion = 4 marks. **Total Marks : 900** 

W.B.S.C.T.E.

### TEACHING AND EXAMINATION SCHEME FOR DIPLOMA COURSES COURSE NAME: ELECTRICAL ENGINEERING

SEMES	TER: SIXTH SEMESTER						SCH	EME : C			
Sr.No	SUBJECT	P	ERIO	DS		E	VALUATI	ON SCI	HEME		
					SESS	IONSAL	EXAM		PR(I	PR (EX	Credit
	THEORY	L	TU	Р	ТА	СТ	Total	ESE	NT.)	T.)	cicun
1	Electrical Design, Estimation & Drawing (Using Autocad)	03		04	10	20	30	70	25	25	5
2	Electrical Installation , Maintenance , Testing & repairing	04			10	20	30	70			4
3	Electrical Workshop II			04					25	25	2
4	Industrial Project			05					50	50	3
5	Industrial Management	03			10	20	30	70			3
6	Elective II (Any One)	03		02	10	20	30	70	25	25	4
	Industrial Automation										
	Computer Hardware & Networking										
	Heating, Ventilation &										
	Air conditioning										
	Control of Machine										
7	Professional Practice -			04					25	25	2
8	General Viva								50	50	2
	Total	13		19	40	80	120	280	200	200	25
HTEOI EACH # , Exte ABBRE (Intern Practic TA: Att	<b>RY AND PRACTICAL PER</b> ernal Assessment     @ , Ir       EVIATIONS: CT- Class Test,       nal)       eal(External)       cendance & surprise quizze	TA -	S OF 6	50 MI sessn chers	<b>NUTES</b> nent E Assessm	ESE - End lent, L - I	d Semeste Lecture, T	er Exam TU - Tut sion = 4	ı. corial, PF 4 marks	R (INT.) –	Practical
Total l	Marks: 800	<u></u>							<b>D) OF T</b>	UE	
	FULL-TIME DIP	LOM	A CO	URS	ES IN EN	UR PAR IGINEEI	r – II (20) RING & T	ECHNO	DLOGY	n E	
	WEST BENGAL S	TATE	COU	NCILO	F TECHN	ICAL EDU	CATION				
COL	TEACHING AND EXAMINAT	ION S		E FOR	DIPLOMA	A IN ENGI	NEERING ( ECOMM	COURSES	S TION		
	NGENAMIE, FULL INVIEDIPLU				011100			UNICA		1	

SEMES	TER: THIRD											
BRANC	CH: Electronics & Telecommunication	Engineering	5									
			P	ERIOI	DS		EVA	LUATIO	NSCI	IEME		
SR. NO.	SUBJECT	CREDI TS	L	TU	PR	IN S	TERNA CHEM	AL E	ES	PR	Total Mark	
		15	-	10		TA	СТ	Total	Ε		s	
1	Network Analysis	5	4	1	2	10	20	30	70	75	175	
2	Analog Electronics -I	5	5	2	3	10	20	30	70	100	200	
3	Digital Electronics	5	4	1	2	10	20	30	70	75	175	
4	Electrical Engineering	3	2	-	1	5	10	15	35	50	100	
5	C Programming	3	2	-	1	5	10	15	35	50	100	
6	Professional Practice-I	2	-	-	3	-	-	-	-	50	50	
	Total: 23 17 4 12 40 80 120 280 400 800											
STUDENT CONTACT HOURS PER WEEK:33 hrs												
Theory	Theory and Practical Period of 60 Minutes each.											
L- Lect	L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.											

#### WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: FULL TIME DIPLOMA IN ELECTRONICS & TELECOMMUNICATION

#### ENGINEERING

**DURATION OF COURSE: 6 SEMESTERS** 

SEMESTER: FOURTH

BRANCH: : Electronics & Telecommunication Engineering

			P	ERIO	DS		EV	ALUAT	ION S	CHEM	E	
SR.	SUBJECT	CRED I	т	Т	Р	IN S	NTER SCHE	NAL ME	ES	PD	Total Mark	
110.		15	Ľ	U	R	T A	C T	Total	Ε	IN	S	
1	Communication Engineering -I	5	4	1	2	10	20	30	70	75	175	
2	Analog Electronics-II	5	4	1	2	10	20	30	70	75	175	
3	Consumer Electronics	4	3	-	2	10	20	30	70	75	175	
4	Microprocessor	5	4	1	2	10	20	30	70	75	175	
5	Development of Life Skill-II	3	2	-	1	5	10	15	35	50	100	
6	Professional Practice-II	3	1	-	3	-	-	-	-	50	50	
	Total:	25	18	3	12	45	90	135	315	400	850	
STU	STUDENT CONTACT HOURS PER WEEK:33 hrs											
Theo	ry and Practical Period of 60 Minutes each.											
L- Le	- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.											

#### WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

### TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSENAME: FULL TIME DIPLOMA IN ELECTRONICS & TELECOMMUNICATION

#### ENGINEERING

<b>DURATION OF COURSE: 6 SEMESTERS</b>
SEMESTER: FIFTH

BRANCH: Electronics & Telecommunication Engineering

Diante		Linginicering	,								
			Р	ERIOI	DS		EVA	LUATIO	N SCH	IEME	
SR.	SUBJECT	CREDI	_			IN	TERNA	AL .	FS		Total
NO.		TS	L	TU	PR	S	CHEM	E	E	PR	Mark
						TA	СТ	Total	Ľ		S
1	Communication Engineering-II	5	4	1	2	10	20	30	70	75	175
2	Electronics Measurement	4	3	-	2	10	20	30	70	75	175
3	Industrial Electronics - I	3	2	1	2	5	10	15	35	75	125
4	Microcontroller & Embedded	5	4	1	2	10	20	20	70	75	175
4	System	5	4	1	2	10	20	30	70	15	1/5
	Elective-I (Select any one)										
	Computer Network-I										
5	Medical Electronics-I	3	2		1	5	10	15	35	50	100
5	Digital Signal Processing-I	3	2	-	1	5	10	15	35	50	100
	Computer Hardware Maintenance-										
	I										
6	Industrial Project &	2	1		2					50	50
0	Entrepreneurship Development	2	I	-	2	-	-	-	-	50	50
7	Professional Practice-III	2	-	-	3	-	-	-	-	50	50
	Total:	24	16	3	14	40	80	120	280	450	850
STUDE	UDENT CONTACT HOURS PER WEEK:33 hrs										
The	and Due of col Davied of (0 Minutes as a	1.									

Theory and Practical Period of 60 Minutes each.

L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.

### WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

#### TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES COURSE NAME: FULL TIME DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING

### DURATION OF COURSE: 6S EMES TERS

<b>DLAVE</b>												
BRAN	NCH: : Electronics & Telecommunication Engin	eering										
			PF	ERIOI	DS		EV	ALUAT	ION S	CHEMI	E	
SR. NO.	SUBJECT	CREDIT	L	Т	Р	IN S	NTER SCHE	NAL ME	ES	PR	Total Mark	
1101		5	-	U	R	T A	C T	Total	E		s	
1	Industrial Management	3	3	-	-	10	20	30	70	-	100	
2	Communication Engineering-III	4	3	1	3	10	20	30	70	75	175	
3	Instrumentation & Control	4	3	-	2	10	20	30	70	50	150	
4	Industrial Electronics-II	4	3	1	2	10	20	30	70	75	175	
5	<u>Elective-II (Select any one)</u> Computer Network-II Medical Electronics-II	3	2	1	2	5	10	15	35	50	100	
	Digital Signal Processing-II Computer Hardware Maintenance-II											
6	Industrial Project	2	-	-	4	-	-	-	-	50	50	
7	Professional Practice-IV	2	-	-	3	-	-	-	-	50	50	
8	General Viva voce	3	-	-	-	-	-	-	-	100	100	
	Total:       25       14       3       16       45       90       135       315       350       900											
STU	STUDENT CONTACT HOURS PER WEEK:33 hrs											
Theo	Theory and Practical Period of 60 Minutes each.											
L- Le	cture, TU- Tutorials, PR- Practical, TA- Teache	rs Assessmen	it, CT	- Class	s Test,	, ES E-	End S	Semester	: Exam	•		

	WEST BENGAL STATE CO UNCIL OF TECHNICAL EDUCATION TEACHINC AND EXAMINATION SCHEME FOR DIPLOMAIN ENCIMEERING COURSES														
	TEACHING	AND EXAMINA	ΠΟΝ	SCHEM	EFOR	<b>DIPLOM</b>	A IN EN	GINEERING	COURSI	ES					
	COUR	SENAME: FU	LL TIN	<b>1E DIPL</b>	O MA I	N:MECH			RING						
DUR	ATION OF COURSE: 6 SEMESTERS														
SEM	SEMESTER: THIRD BRANCH · · MECHANICAL ENGINEERING														
BRA	BRANCH: : MECHANICAL ENGINEERING														
SI	SUBJECT	CREDITS		PERIOD	DS			EVA	LUATION	SCHEM	E				
No	No L TU PR INTERNAL SCHEME ESE PR TOTAL														
	TA       CT       TOTAL       INT       EXT       MARKS         4       Advanced Strangth of Materials       2       5       40       45       25       25       400														
1	1       Advanced Strength of Materials       3       2       -       2       5       10       15       35       25       25       100														
2	2       Thermal Engineering-I       4       3       -       2       10       20       30       70       25       25       150														
3	2       Inermal Engineering-i       4       3       -       2       10       20       30       70       25       25       150         3       Manufacturing Technology       4       2       -       4       10       20       30       70       50       50       200														
4	Fundamentals of Electronics	4	3	-	2	10	20	30	70	25	25	150			
5	Engineering Materials	3	3	-	-	10	20	30	70	-	-	100			
6	M.E.Drawing	5	3	-	4	5	10	15	35	50	50	150			
7	Professional Practice-I	1	-	-	2	-	-	-	-	25	25	50			
TOTAL 24 16 - 16 50 100 150 350 200 200 900															
STUE Theor	DENT CONTACT HOURS PER WEEK ry and Practical Period of 60 Minutes e	k:32 hrs ach.													

L- Le cture, TU- Tutorials, PR- Practical, INT-Internal Assessment, EXT-External Assessment, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.

		WEST BENGAL	LSTAT	ECOUN	<b>CILO</b>	F TEC HN	ICAL EI	DUCATION							
	TEACHING	AND EXAMINA	MOIL	SCHEM	EFOR	<b>DIPLOM</b>	A IN EN	GINEERING	COURSE	Ŧ\$					
	COU	RSE NAME: FU	LL TIN	1E DIPL	O MA I	N:MECH	HANICAL	_ ENGINEEF	RING						
DURA	TION OF COURSE: 6 SEMESTERS														
SEME	STER: FOURTH	-													
BRAN		<b>i</b>	<b>r</b>							0011511	-				
SI	SUBJECT	CREDITS		PERIOD	S			EVAL	UATION	SCHEME	=				
No			L	ΤU	PR	INTER	NAL SC	HEME	ESE	PR		TOTAL			
	TA CT TOTAL INT EXT MARKS														
1	Development of Life Skill-II       2       1       -       2       -       -       -       25       25       50														
2	Thermal Engineering-II       4       3       -       2       10       20       30       70       25       25       150														
3	I hermal Engineering-II       4       3       -       2       10       20       30       70       25       25       150         Production Processes       5       3       -       4       10       20       30       70       25       25       150														
4	Principles of Electrical	4	3	-	2	10	20	30	70	25	25	150			
	Engineering														
5	Computer Programming	2	1	-	2	-	-	-	-	25	25	50			
6	Theory of Machines	4	3	-	2	10	20	30	70	25	25	150			
	& Mechanism														
7	Professional Practice-II	2	-	-	3	-	-	-	-	25	25	50			
ΤΟΤΑ	L	23	14	-	17	40	80	120	280	200	200	800			
STUD	ENT CONTACT HOURS PER WEEK	<b>:</b> 31 hrs													
Theory	y and Practical Period of 60 Minutes ea	ach.													

L- Lecture, TU- Tutorials, PR- Practical, INT-Internal Assessment, EXT-External Assessment, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.

#### PROPOSED CURRICULAR STRUCTURE FOR PART – III (3rd YEAR) OF THE FULL-TIME DIPLOMA COURSES IN ENGINEERING & TECHNOLOGY

#### WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES COURSE NAME: FULL TIME DIPLOMA IN : MECHANICAL ENGINEERING

DURA	TION OF COURSE: 6 SEMESTERS														
SEME	STER: FIFTH														
BRAN	CH::MECHANICAL ENGINEERING	i													
SI	SUBJECT	CREDITS		PERIOD	DS			EVAI		SCHEME	:				
No			L	ΤU	PR	INTER	NAL SC	HEME	ESE	PR		TOTAL			
						ТА	СТ	TOTAL		INT	EXT	MARKS			
1	Fluid Mechanics & Machinery	4	3	-	2	10	20	30	70	25	25	150			
2	2       Engineering Metrology       3       2       -       2       5       10       15       35       25       25       100														
3	Advanced Manufacturing	4	2	-	3	10	20	30	70	50	50	200			
	Process														
4	Measurement & Control	3	2	-	2	5	10	15	35	25	25	100			
5	Power Engineering	4	3	-	2	10	20	30	70	25	25	150			
6	Elective I	4	3	-	2	5	10	15	35	25	25	100			
7	Industrial Project &	2	1	-	2	-	-	-	-	25	25	50			
	Entrepreneurship														
8	Professional Practice-III	1	-	-	2	-	-	-	-	25	25	50			
ΤΟΤΑ	L	25	16	-	17	45	90	135	315	225	225	900			
STUD	ENT CONTACT HOURS PER WEEK	:33 hrs													

Theory and Practical Period of 60 Minutes each.

L- Lecture, TU- Tutorials, PR- Practical, INT-Internal Assessment, EXT-External Assessment, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.

#### WEST BENGAL STATE CO UNCIL OF TECHNICAL EDUCATION TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES COURSE NAME: FULL TIME DIPLOMA IN :MECHANICAL ENGINEERING

DURA	URATION OF COURSE: 6 SEMESTERS												
SEME	STER: SIXTH												
BRAN	CH: : MECHANICAL ENGINEERING												
SI	SUBJECT	CREDITS	F	PERIOD	S			EVAL	UATIONS	SCHEMI			
No			L	τu	PR	INTERN	IAL SCI	HEME	ESE		PR	TOTAL	
		TA CT TOTAL INT EXT M											
1	Design of M/C Elements	5	4	-	2	10	20	30	70	25	25	150	
2	Industrial Management	3	3	-	-	10	20	30	70	-	-	100	
3	Fluid Power	4	3	-	2	10	20	30	70	25	25	150	
4	Elective II	4	3	-	2	5	10	15	35	25	25	100	
5	Production Management	3	3	-	-	5	10	15	35	-	-	50	
5	Project	3	-	-	6	-	-	-	-	50	50	100	
6	Professional Practice-IV	nctice-IV 2 4 25 25 50											
7	General Viva	1	-	-	-	-	-	-	-		100	100	
ΤΟΤΑ	TOTAL 25 16 - 16 40 80 120 280 150 250 800												

STUDENT CONTACT HOURS PER WEEK:32 hrs

Theory and Practical Period of 60 Minutes each.

L- Lecture, TU- Tutorials, PR- Practical, INT-Internal Assessment, EXT-External Assessment/Assessment by all departmental lecture rs for General Viva, TA-Teachers Assessment, CT- Class Test, ESE- End Semester Exam.

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION												
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME:												
DURATION OF COURES: 6 SEMESTERS												
SEMESTER: THIRD												
BRANCH: ELECTRONICS AND INSTRUMENTATION ENGINEERING												
SR.	SR. SUBJECT CREDIT PERIODS EVALUATION SCHEME											
NO.			L	TU	PR	R INTERNAL ESE PR TOTAL						
							SCH	EME				
						TA	CT	TOTAL				
1	Basic Electronics	3+1	3		3	5	20	25	75	50	150	
2	Circuit Theory	4+2	3	1	4	5	20	25	75	100	200	
3	Fundamentals of	3	3			5	20	25	75		100	
	Instrumentation											
4	Electrical Measuring	2	2			5	10	15	35		50	
	Instruments											
5	Electrical Machine	2	2			5	10	15	35		50	
6	Optical Instrumentation	2	2			5	10	15	35		50	
7	Programming in C and	3	1		4	100 100					100	
	Auto CAD											
8	Electrical Measurement	2			3					100	100	
	& Machine Lab											
9	Professional Practice - I	1			1					50	50	
TOTA	AL	25	16	1	15	30	90	120	330	400	850	
STUI	DENT CONTACT HOURS	PER WEE	K: 3	32								
Theor	Theory and Practical Period of 60 Minutes each.											
L - Lecture, TU – Tutorial, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE – End												
Seme	Semester Exam											

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION												
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME:												
DURATION OF COURES: 6 SEMESTERS												
SEMESTER: FOURTH												
BRANCH: ELECTRONICS AND INSTRUMENTATION ENGINEERING												
SR.	SR. SUBJECT CREDIT PERIODS EVALUATION SCHEME											
NO.			L	TU	PR	INTERNAL ESE PR TOTAL						
							SCH	EME				
						TA	CT	TOTAL				
1	Analog	3+2	3		4	5	20	25	75	100	200	
	Electronics											
2	Digital	4+2	3	1	4	5	20	25	75	100	200	
	Electronics											
3	Process	4+2	3	1	3	5	20	25	75	100	200	
	Instrumentation –											
							10					
4	Electronic	2	2			5	10	15	35		50	
~	Measurement	4	2	1							100	
5	Process Control	4	3	1	-	5	20	25	/5	50	100	
6	Development of	1			2					50	50	
7	Life skill- II	1			-					50	50	
/	Professional	1			2					50	50	
	Practice - II											
		$\frac{23}{1000000000000000000000000000000000000$		3	15	25	90	115	333	400	850	
STUDENT CONTACT HOURS PER WEEK: 32												
I heory and Practical Period of 60 Minutes each.												
E - Lec	$u_{1}e_{1}$ , $10 - 1 u_{1}o_{1}a_{1}$ , $1$	r- Fractica	1 <b>1, 1</b> <i>F</i>	<b>1</b> - 1ea	ichers	ASSE	ssme	III, UI-UI	ass res	or, ESE –	End Semester	
Exam												

	WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION											
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME:												
DURATION OF COURES: 6 SEMESTERS												
SEMESTER: FIFTH												
BRANCH: ELECTRONICS AND INSTRUMENTATION ENGINEERING												
SR.	SUBJECT	CREDIT	PI	ERIO	DS	S EVALUATION SCHEME						
NO.			L	TU	PR	INTERNAL ESE PR TOTAL						
							SCH	EME				
						TA	CT	TOTAL				
1	Process	4+2	3	1	3	5	20	25	75	100	200	
	Instrumentation											
	- II	4	2	1		~	20	25	75		100	
2	Advance Process	4	3	1		5	20	25	15		100	
2	Control Industrial	2 + 1	2		2	5	20	25	75	50	150	
3	Floatronics	3+1	3		Ζ	3	20	25	15	50	150	
	Microprocessor	3+1	3		2	5	20	25	75	50	150	
5	Electronic	$\frac{3\pm1}{2}$	2		2	5	10	15	35	50	50	
5	Communication	2	2			5	10	15	55		50	
	Fundamentals											
6	Process Control	2			4					100	100	
0	Lab	-								100	100	
7	Industrial	2			3					50	50	
	Project &											
	Entrepreneurship											
	Development											
8	Professional	1			2					50	50	
	Practice - III											
TOTAL		25	14	2	16	25	90	115	335	400	850	
STUDE	NT CONTACT HO	URS PER	WEE	EK: 32	2							
Theory a	and Practical Period	of 60 Minu	ites e	each.					1 -			
L - Lect	L - Lecture, TU – Tutorial, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE – End											
Semester Exam												

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION												
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES												
COURSE NAME:												
DURATION OF COURES: 6 SEMESTERS												
SEMESTER: SIXTH												
BRANCH: ELECTRONICS AND INSTRUMENTATION ENGINEERING												
SR.	SUBJECT	CRE	PI	ERIO	DS			EVALUA	TION	SCHE	ME	
NO.		DIT	L	TU	PR	INTERNAL ESE				PR	TOTAL	
						SCHEME						
						TA CT TOTAL						
1	Industrial	3	3			5	20	25	75		100	
	Management											
2	Advance	4+2	3	1	4	5	20	25	75	100	200	
	Microprocessor											
	and											
	Microcontroller											
3	Biomedical	2	2			5	10	15	35		50	
	Instrumentation											
4	Analytical	2	2			5	10	15	35		50	
	Instrumentation											
5	Elective (Any	2+1	2		3	5	10	15	35	50	100	
	One)											
	a) Power Plant											
	Instrumentation											
	b)Industrial											
	Automation											
	c)Computer Aided											
	Instrumentation											
	d)Data											
	Communication											
6	Circuit Simulation	2			4					100	100	
	and Control											
	Simulation Lab											
7	General Viva	3								100	100	
	Voce											
8	Industrial Project	3			6					100	100	
9	Professional	1			2					50	50	
	Practice - IV											
TOTAL		25	12	1	19	25	70	95	255	500	850	
STUDE	NT CONTACT HOU	RS PER	WE	EK: 32	2							
Theory a	nd Practical Period o	f 60 Min	utes	each.	_			~				
L - Lectu	re, TU – Tutorial, PI	R- Praction	cal, T	A- Te	eache	rs As	sessm	ent, CT- C	lass Te	est, ES	E – End	
Semester Exam												