

Curriculum Structure of

Diploma in Architecture [ARCH]

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

Revised 2022

Curriculum structure for part-II (2^{nd} Year) of the Full-time Diploma Courses in Engineering & Technology

1	West Bengal State Council of Technical & Vocational Education and Skill Development (Technical Education Division)											
	Teaching Scheme for Diploma in Engineering Courses: Branch- Architecture(3 rd Semester)											
Sl	Category	Code No	Course Title	Credits		perio	ds	Contact	Marks			
no			L TU PR h					hours per week				
1	Programme core course	ARPC 201	Strength of Material	2	2	0	0	2	100			
2	Programme core course	ARPC 203	Materials and Methods of Construction-I	2	2	0	0	2	100			
3	Programme core course	ARPC 205	History of Architecture-I	History of Architecture-I 2 2 0 0			2	100				
4	Programme core course	ARPC 207	Building services &Equipments-I	2	2	0	0	2	100			
5	Programme core course	ARPC 209	Architectural Design –I	1	0	2	0	2	100			
6	Programme core course	ARPC 211	Architectural Drawing-III (Sessional)	2	0	1	4	5	100			
7	Programme core course	ARPC 213	Architectural Design –I (Sessional)	2	0	0	3	3	100			
8	Programme core course	ARPC 215	Working Drawing-I (Sessional)	3	0	1	4	5	100			
9	Programme core course	ARPC 217	Computer Lab-I (Sessional)	2	0	1	4	5	100			
10	10 Internship-I SI 201 1 1							100				
	_		Total Credit	19				28	1000			

7	West Bengal State Council of Technical & Vocational Education and Skill Development (Technical Education Division)											
	Teaching Scheme for Diploma in Engineering Courses: Branch- Architecture(4 th Semester)											
Sl	Category	Code No	o Course Title Cred		Credits periods			Contact	Marks			
no				L TU PR								
1	Programme core course	ARPC 202	Theory of structure	2	2	0	0	2	100			
2	Programme core course	ARPC 204	Materials and Methods of Construction-II	2	2	0	0	2	100			
3	Programme core course	ARPC 206	History of Architecture-II	2	2	0	0	2	100			
4	Programme core course	ARPC 208	Building services &Equipments-II	2	2	0	0	2	100			
5	Programme core course	ARPC 210	Architectural Design –II	1	0	2	0	2	100			
6	Programme core course	ARPC 212	Architectural Drawing-IV (Sessional)	2	0	1	3	4	100			
7	Programme core course	ARPC 214	Architectural Design –II (Sessional)	2	0	0	3	3	100			
8	Programme core course	ARPC 216	Working Drawing-II (Sessional)	3	0	1	4	5	100			
9	Programme core course	ARPC 218	Computer Lab-II(Sessional)	2	0	1	3	4	100			
10	Programme elective course	ARPE 202	(Elective-I)- (Sessional)	2	0	1	2	3	100			
	•		Total Credit	20				29	1000			

Curriculum structure for part-III (3rd Year) of the Full-time Diploma Courses in Engineering & Technology

7	West Bengal State Council of Technical & Vocational Education and Skill Development (Technical Education Division)											
	Teaching Scheme for Diploma in Engineering Courses: Branch- Architecture(5 th Semester)											
Sl	Category	Code No	Course Title	Credits		period	S	Contact	Marks			
no					L	TU	PR	hours per week				
1	Programme core course	ARPC 301	DOS	2	2	0	0	2	100			
2	Programme core course	ARPC 303	ECSV-I	2	2	0	0	2	100			
3	Programme core course	ARPC 305	Contemporary architecture-I	2	2	0	0	2	100			
4	Programme core course	ARPC 307	Architectural Professional Practice	2	2	0	0	2	100			
5	Programme core course	ARPC 309	Architectural Design –III	1	0	2	0	2	100			
6	Programme core course	ARPC 311	Architectural Design –III (Sessional)	2	0	0	3	3	100			
7	Programme core course	ARPC 313	Working Drawing-III (Sessional)	3	0	1	4	5	100			
8	Programme elective	ARPE 301	Programme Elective-II	2	2	0	0	2	100			
9	Programme elective	ARPE303	Programme Elective-III (Sessional)	2	0	1	2	3	100			
10	Internship-II	SI301		1	-	-	-	-	100			
11	Architectural Project	PR302		-	0	2	3	5	-			
			Total Credit	19				28	1000			

7	West Bengal State Council of Technical & Vocational Education and Skill Development (Technical Education Division)											
	Teaching Scheme for Diploma in Engineering Courses: Branch- Architecture(6 th Semester)											
Sl	Category	Code No	Course Title	Credits	periods			Contact	Marks			
no					L	TU	PR	hours per week				
1	Programme core course	HS302	Entrepreneurship and start ups	3	2	0	0	2	100			
2	Programme core course	ARPC 302	ECSV-II	2	2	0	0	2	100			
3	Programme core course	ARPC 304	Contemporary architecture-II	2	2	0	0	2	100			
4	Programme core course	ARPC 306	Architectural Design –IV	1	0	2	0	2	100			
5	Programme core course	ARPC 308	Architectural Design –IV (Sessional)	2	0	0	3	3	100			
6	Programme core course	ARPC 310	Working Drawing-IV (Sessional)	3	0	1	4	5	100			
7	Programme elective	ARPE302	Programme Elective-I V(Sessional)	2	0	1	2	3	100			
8	Open elective	AROE 302	Open Elective-I	3	2	0	0	2	100			
9	Open elective	AROE 304	Open Elective-II	3	2	0	0	2	100			
10	Architectural Project & Seminar	PR302		5	0	0	6	6	100			
			Total	26				29	1000			

LIST OF **PROGRAMME ELECTIVE** (**PE**) COURSES OF DIPLOMA IN ARCHITECTURE, WBSCT&VE and SD (IV semester –VI semester)

Course	Course Title	Hou	ırs Per	Week	Semester	Credit
Code		L	TU	PR		
ARPE 202	Elective-I(Any one to be selected)					
	Surveying	0	1	2	IV	2
	Alternate Building Technology	0	1	2	IV	2
ARPE 301	Elective-II(Any one to be selected)					
	Building Maintenance& Repairing	2	0	0	V	2
	Steel Architecture	2	0	0	V	2
ARPE303	Elective-III(Any one to be selected)					
	Interior Design(Sessional)	0	1	2	V	2
	Illumination (Sessional)	0	1	2	V	2
ARPE302	Elective-IV(Any one to be selected)					
	Landscape Architecture(Sessional)	0	1	2	VI	2
	Architectural Conservation(Sessional)	0	1	2	VI	2

LIST OF OPEN ELECTIVE (OE) COURSES OF DIPLOMA IN ARCHITECTURE

Course	Course Title	Но	urs Per V	Veek	Semester	Credit
Code		L	TU	PR		
AROE 302	Elective-I					
	Engineering Economics & Accountancy	2	0	0	VI	3
AROE 304	Elective-II (Any one to be selected)					
	Project Management	2	0	0	VI	3
	Disaster Management	2	0	0	VI	3
	Environmental planning& sustainable design	2	0	0	VI	3

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	End Semester Exter Assessment	Total		
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Automobile Engineering [AE]

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

Revised 2022

Semester III (Second year) Branch/Course: Automobile Engineering

			Course Title	Но	ours per we	ek	Total	
Sl. No.	Category	Code		Lecture	Tutorial	Practical	contact hours/ week	Credits
1	Program Core Course	AEPC 301	Strength of Materials	2	1	0	3	3
2	Program Core Course	AEPC 302	Heat Power Engineering	3	0	0	3	3
3	Program Core Course	AEPC 303	Automotive Materials and Manufacturing Process	3	0	0	3	3
4	Program Core Course	AEPC 304	Automotive Chassis	3	0	0	3	3
5	Program Core Course	AEPC 305	Automotive Engines	3	0	0	3	3
6	Program Core Course	AEPC 306	Heat Power Engineering Lab	0	0	2	2	1
7	Program Core Course	AEPC 307	Automotive Materials and Manufacturing Process Lab	0	0	2	2	1
8	Program Core Course	AEPC 308	Automotive Chassis Lab	0	0	2	2	1
9	Program Core Course	AEPC 309	Automotive Engine Lab	0	0	3	3	1.5
10	Internship - I after II nd Sem	SI 301	Internship	0	0	0	0	1
		Total		14	1	9	24	20.5

Semester IV (Second year)

Branch/Course: Automobile E	Ingineering
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				Н	ours per we	eek	Total	
Sl. No.	Category	Code	Course Title	Lecture	Tutorial	Practical	contact hours/ week	Credits
1	Program Core Course	AEPC 401	Automotive Powertrain	3	0	0	3	3
2	Program Core Course	AEPC 402	Fluid Mechanics & Machines	2	1	0	3	3
3	Program Core Courses	AEPC 403	Theory of Machines & Mechanism	2	1	0	3	3
4	Program Elective Course	AEPC 404	Automotive Component Design	3	0	0	3	3
5	Program Elective Course	AEPE 411/ 412	Any one Programme Elective	3	0	0	3	3
6	Program Core Course	AEPC 405	Automotive Powertrain Lab	0	0	2	2	1
7	Program Core Course	AEPC 406	Strength of Material and Fluid Mechanics Lab	0	0	3	3	1.5
8	Program Core Course	AEPC 407	Automobile Engineering Drawing and Computer Graphics Lab	0	0	4	4	2
9	Minor Project	PR 402		0	0	4	4	2
		Total		13	2	13	28	21.5

List of Programme Electives for Fourth Semester

1. AEPE 411: Automotive Pollution & Control

2. AEPE 412: Alternate Fuels and Energy Systems

Semester V (Third year)

Branch/Course: Automobile Engineering

				Но	ours per we	ek	Total	
Sl. No.	Category	Code	Course Title	Lecture	Tutorial	Practical	contact hours/ week	Credits
1	Program Core Course	AEPC 501	Fluid Power	3	0	0	3	3
2	Program Core Course	AEPC 502	Automotive Electrical & Electronics	3	0	0	3	3
3	Program Core Course	AEPC 503	M. V. Act & Transport Management	3	0	0	3	3
4	Program Elective Course	AEPE 511/ 512	Any one Programme Elective	3	0	0	3	3
5	Program Elective Course	AEPE 513/ 514	Any one Programme Elective	3	0	0	3	3
6	Program Core Course	AEPC 504	Automotive Electrical & Electronics Lab	0	0	2	2	1
7	Internship-II after IV th Sem	SI 501		0	0	0	0	1
8	Major Project	PR 502		0	0	2	2	1
		Total		15	0	4	19	18

List of Programme Electives for Fifth Semester

- 1. AEPE 511: CAD/CAM and Modern Manufacturing Methods
- 2. AEPE 512: Automobile Air Conditioning
- 3. AEPE 513: Earth Moving Equipments & Farm Machinery
- 4. AEPE 514: Two & Three Wheelers

Semester VI (Third year)

Branch/Course: Automobile Engineering

				Но	ours per we	ek	Total	
Sl. No.	Category Code Course Title Lecture		Tutorial	Practical	contact hours/ week	Credits		
1	Program Core Course	AEPE 601	Garage Practice	3	0	0	3	3
2	Humanities and Social Science Course	HS 602	Entrepreneurs hip and Start- ups	3	1	0	4	4
3	Open Elective	AE0E 621	Engineering Economics and Project Management	3	0	0	3	3
4	Open Elective	AEOE 622/ 623/ 624/ 625	Any one Open Elective	3	0	0	3	3
5	Program Elective Course	AEPE 611/ 612	Any one Programme Elective	3	0	0	3	3
6	Program Core Course	AEPE 602	Garage Practice Lab	0	0	2	2	1
7	Program Core Course	AEPE 603	Driving Practice Lab	0	0	2	2	1
8	Major Project	PR 602		0	0	6	6	3
9	Seminar	SE 602	_	1	0	0	1	1
		Total		16	1	10	27	22

List of Programme Electives for Sixth Semester

1. AEPE 611: Modern Vehicle Technology

2. AEPE 612: Vehicle Aerodynamics & Design

List of Open Electives for Sixth Semester

1. AEOE 621: Engineering Economics and Project Management

2. AEOE 622: Electric Vehicle Technology

3. AEOE 623: Industrial Management

4. AEOE 624: Industrial Safety Engineering

5. AEOE 625: Disaster Management

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	End Semester Exter Assessment	Total		
Assignments in	Assignments in Class		Assignment on the day	Viva	Total
classes			of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Chemical Engineering [CHE]

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

Revised 2022

CURRICULAR STRUCTURE FOR PART-II (SEMESTER 3) OF THE FULL-TIME DIPLOMA COURSES IN CHEMICAL ENGINEERING

BRA	BRANCH: CHEMICAL ENGINEERING						Semester 3				
SL No	Category	Code No	Course Title	L	P	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks	
1	Program core	CHEPC201	Outlines of Chemical Engineering	3	-	3	3	100	40	60	
2	Program core	CHEEPC203	Momentum Transfer	3	-	3	3	100	40	60	
3	Program core	CHEEPC205	Engineering Thermodynamics	3	-	3	3	100	40	60	
4	Program core	CHEPC207	Mechanical Operations	3	1	3	3	100	40	60	
5	Program core	CHEPC209	Energy Engineering	3	-	3	3	100	40	60	
6	Program core	CHEPC211	Chemical Technology-I	3	-	3	3	100	60	40	
7	Program core	CHEPC213	Momentum Transfer Lab	-	3	2	1	100	60	40	
8	Program core	CHEPC215	Mechanical Operations Lab	-	3	2	1	100	60	40	
9	Internship	SI201	Internship-I	-	•	0	1	100	60	40	
	Total					26	21	900	440	460	

STUDENT CONTACT HOURS PER WEEK: 24 hours (Lecture-18 hours; Practical-6 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-900 (Internal Marks-440; ESE Marks-460)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	20
Internship 1	1
Total	21

Pass Criterion: Students have to obtain at least 40% marks (pass marks) in both internal assessment and end semester examination separately in each subject.

CURRICULAR STRUCTURE FOR PART-II (SEMESTER 4) OF THE FULL-TIME DIPLOMA COURSES IN CHEMICAL ENGINEERING

BRA	BRANCH: CHEMICAL ENGINEERING					SEMESTER 4						
SL No	Category	Code No	Course Title	L	P	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks		
1	Program Core	CHEPC202	Process Heat Transfer	3	0	3	3	100	40	60		
2	Program Core	CHEPE202	Mass Transfer – I	3	0	3	3	100	40	60		
3	Program Core	CHEPC204	Chemical Engineering Thermodynamics	3	0	3	3	100	40	60		
4	Program Core	CHEPC206	Chemical Technology-II	3	0	3	3	100	40	60		
5	Program Core	CHEPC208	Industrial Chemistry	3	0	3	3	100	40	60		
6	Program Elective	СНЕРЕ202	Material Science/Food Technology	3	0	3	3	100	60	40		
7	Program Core	CHEPC210	Heat Transfer Lab	0	3	3	1	100	60	40		
8	Minor Project	PR202	Minor Project	0	3	3	1	100	60	40		
			Total	18	06	24	20	800	380	420		

STUDENT CONTACT HOURS PER WEEK: 24 hours (Lecture-18 hours; Practical-06 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-800 (Internal Marks-380; ESE Marks-420)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Elective	3
Program Core	16
Project	1
Total	20

Pass Criterion: Students have to obtain at least 40% marks (pass marks) in both internal assessment and end semester examination separately in each subject.

Program Elective(Without Lab)	Total Credit	
Material Science[Sub Code: CHEPE204/1]	A my ama	2
Food Technology[Sub Code: CHEPE204/2]	Any one	3

CURRICULAR STRUCTURE FOR PART-III (SEMESTER 5) OF THE FULL-TIME DIPLOMA COURSES IN CHEMIICAL ENGINEERING

BRANCH: CHEMICALCAL ENGINEERING					SEMESTER 5						
SL No	Category	Code No	Course Title	L	P	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks	
1	Program Core	CHEPC301	Mass Transfer - II	3	-	3	3	100	40	60	
2	Program Core	CHEPC303	Chemical Reaction Engineering	3	-	3	3	100	40	60	
3	Program Core	CHEPC311	Process Control	3	-	3	3	100	40	60	
4	Program Core	CHPC309	Instrumentation	3	-	3	3	100	40	60	
5	Program Elective	СНРЕЗ01	Plant Utilities/Ceramic Technology	3	-	3	3	100	40	60	
6	Program Elective	СНРЕ303	Petroleum Refinery Engineering/Safety in Chemical Process Industries	3	-	3	3	100	40	60	
7	Program Core	CHPC313	Mass Transfer Lab	-	3	3	1	100	60	40	
8	Program Core	СНРС315	Chemical Reaction Engineering Lab	-	3	3	1	100	60	40	
9	Major Project	PR301	Major Project	-	3	3	1	100	60	40	
10	Internship	SI301	Internship - II	-	-	-	1	100	100	0	
			Total	18	9	27	22	1000	520	480	

STUDENT CONTACT HOURS PER WEEK: 27 hours (Lecture-18 hours; Practical-9hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks-520; ESE Marks-480)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	14
Program Elective	6
Project	1
Internship 2	1
Total	22

Pass Criterion: Students have to obtain at least 40% marks (pass marks) in both internal assessment and end semester examination separately in each subject.

Program Elective (without Lab)		Credit
1. Plant Utilities (Sub code: CHEPE301/1)	Any	2
2. Ceramic Technology (Sub code: CHEPE301/2)	one	3
3. Petroleum Refinery Engineering (Sub code: CHEPE303/1)	Any	2
4. Safety in Chemical Process Industries (Sub code: CHEPE303/2)	one	3
	Total	6

CURRICULAR STRUCTURE FOR PART-III (SEMESTER 6) OF THE FULL-TIME DIPLOMA COURSES IN CHEMICACAL ENGINEERING

BRA	BRANCH: CHEMICAL ENGINEERING				SEMESTER 6					
SL No	Category	Code No	Course Title	L	P	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks
1	Program Core	СНЕРС302	Process Equipment Design and Drawing	3	-	3	3	100	40	60
2	Program Elective	СНЕРЕЗ02	Petrochemicals/ WasteManagement	3	-	3	3	100	40	60
3	Humanities and Social Science	HS302	Entrepreneurship and start-ups	3	-	3	3	100	40	60
4	Open Elective	CHEOE302	Open Elective (Compulsory)	3	-	3	3	100	40	60
5	Open Elective	CHEOE304	Open Elective	3	-	3	3	100	40	60
6	Major Project	PR302	Major Project	-	6	6	3	100	60	40
7	Seminar	SE302	Seminar	3	-	3	1	100	100	0
	Total			18	6	24	19	700	360	340

STUDENT CONTACT HOURS PER WEEK: 26hours (Lecture-18 hours; Practical-8 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-700 (Internal Marks-380; ESE Marks-320)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	1
Program Elective	3
Open Elective	6
Project + Seminar	4
Humanities and Social Science	3
Total	19

Pass Criterion: Students have to obtain at least 40% marks (pass marks) in both internal assessment and end semester examination separately in each subject.

Sl. No.	Program Elective	Credit	
1.	Petroleum Refinery Engineering	A	2
2.	Waste Management	Any one	3

Sl. No.	Open Elective	Credit	
1.	Engineering Economics Project Management (<i>Compulsory for all Branches</i>) [Sub code: CHEOE302]		3
2.	Environmental Engineering and Science [Sub Code: CHEOE304/1]		
3.	Industrial Management [Sub Code: CHEOE304/2]	Any one	3
4	Renewable Energy [Sub Code: CHEOE304/3]		

Total = 6

FULL-TIME DIPLOMA COURSES IN CHEMICALCAL ENGINEERING

Sl.No.	Category	Semester	Title of Course	Credit
1	Program Core	Sem 3	Outlines of Chemical Engineering	3
2	Program Core	Sem 3	Momentum Transfer	3
3	Program Core	Sem 3	Engineering Thermodynamics	3
4	Program Core	Sem 3	Mechanical Operations	3
5	Program Core	Sem 3	Energy Engineering	3
6	Program Core	Sem 3	Chemical Technology-I	3
7	Program Core	Sem 3	Momentum Transfer Lab	1
8	Program Core	Sem 3	Mechanical Operations Lab	1
9	Program Core	Sem 4	Process Heat Transfer	3
10	Program Core	Sem 4	Mass Transfer – I	3
11	Program Core	Sem 4	Chemical Engineering Thermodynamics	3
12	Program Core	Sem 4	Chemical Technology-II	3
13	Program Core	Sem 4	Industrial Chemistry	3
14	Program Core	Sem 4	Heat Transfer Lab	1
15	Program Core	Sem 5	Mass Transfer - II	3
16	Program Core	Sem 5	Chemical Reaction Engineering	3
17	Program Core	Sem5	Process Control	3
18	Program Core	Sem 5	Instrumentation	3
19	Program Core	Sem5	Mass Transfer Lab	1
20	Program Core	Sem 5	Chemical Reaction Engineering Lab	1
21	Program Core	Sem 6	Process Equipment Design and Drawing	3
			Total:	53

FULL-TIME DIPLOMA COURSES IN CHEMICAL ENGINEERING

List of Program Elective (PE) Subjects	Semester	Choice	Credit
Material Science	4	Any One	3
Food Technology	4	Ally Olle	3
Plant Utilities	5	Any One	3
Ceramic Technology	5	Any One	3
Petroleum Refinery Engineering	5	Any One	3
Safety in Chemical Process Industries	5	Ally Olle	3
Petrochemicals	6	Any One	3
Waste Management	6	Any One	3

Total: 12

	List of Open Elective (OE)Subjects		Credit
Any one for Semester 6	Renewable Energy		3
Compulsory for Semester 6	Engineering Economics Project Management		3

Total 6

Semester wise and course category wise credit distribution					
	S3	S4	S5	<i>S6</i>	Total
Program Core	20	16	14	3	53
Program Elective	0	3	6	3	12
Open Elective	0	0	0	6	6
Project + Internship + Seminar	1	1	2	4	8
Humanities and Social Science	0	0	0	3	3
Semester wise Total	21	20	22	19	82
	Total credit allotted in S3, S4, S5 & S6:				
Total credit allotted in SEM 1 & 2:					38
			Gı	rand Total:	120

Semester wise marks distribution:

Semester wise Marks Distribution			
Semester 3	900		
Semester 4	800		
Semester 5	1000		
Semester 6	700		

Total: 3400

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessment (Continuous Evaluation)			End Semester External Assessment		Total
Assignments in Class Class		Class	Assignment on the day Viva		i otai
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Civil Engineering [CE]

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

Revised 2022

CURRICULAR STRUCTURE FOR PART – II FIRST SEMESTER (THIRD SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL.		SUBJECT OF STUDY]	HOURS PER W	EEK	
NO.	SUBJECT CODE	THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	CREDITS
1	CEPC301	Construction Materials	2	0	0	2
2	CEPC302	Basic Surveying	3	0	0	3
3	CEPC303	Mechanics of Materials	3	0	0	3
4	CEPC304	Building Construction	2	0	0	2
5	CEPC305	Concrete Technology	2	0	0	2
6	CEPC306	Civil Engineering Planning and Drawing	1	0	0	1
7	CEPC307	Transportation Engineering	2	0	0	2
		LABORATORY/ SESSIONAL PAPERS				
8	CEPC308S	Civil Engineering Planning and Drawing Practices	0	0	4	2
	CEPC309S: Civil F	Engineering Lab - I (consisting of				
	following four M	Modules with 8 Practical Classes and 4 Credits)				
9	CEPC309S/I	Module-I: Construction Material Lab	0	0	2	1
10	CEPC309S/II	Module-II: Mechanics of Materials Lab	0	0	2	1
11	CEPC309S/III	Module-III: Concrete Technology Lab	0	0	2	1
12	CEPC309S/IV	Module-IV: Transportation Engineering Lab	0	0	2	1
		INTERNSHIP				
13	CEI310S	Internship-I after 2nd Semester	0	0	0	1
		TOTAL	15	0	12	22

TENTATIVE CURRICULAR STRUCTURE FOR PART – II SECOND SEMESTER (FOURTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL.	SUBJECT	SUBJECT OF STUDY]	HOURS PER W	EEK	_
NO.	CODE	THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	CREDITS
1	CEPC401	Hydraulics	2	0	0	2
2	CEPC402	Advanced Surveying	3	0	0	3
3	CEPC403	Theory of Structure	3	0	0	3
4	CEPC404	Geotechnical Engineering	3	0	0	3
5	CEPC405	Design of RCC and Steel Structure	3	0	0	3
	LABORATORY/ SESSIONAL PAPERS					
6	CEPC406S	Basic Surveying Field Practices	0	0	2	1
	CEPC407S: Civil Engineering Lab - II (consisting of following two Modules with 4 Practical Classes and 2 Credits)					
7	CEPC407S/I	Module-V: Hydraulics Lab	0	0	2	1
8	CEPC407S/II	Module-VI: Geotechnical Engineering Lab	0	0	2	1
		ELECTIVE & PROJECT				
9	CEPE408	Elective - I:one subject out of Precast and Prestressed Concrete (subject code: CEPE 408/I)/Rural Construction Technology (subject code: CEPE 408/II)	3	0	0	3
10	CEPR409S	Minor Project	0	0	4	2
		TOTAL	17	0	10	22

TENTATIVE CURRICULAR STRUCTURE FOR PART – IIIFIRST SEMESTER (FIFTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL.	SUBJECT	SUBJECT OF STUDY	Н	OURS PER W	EEK	CREDITS
NO.	CODE	THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	
1	CEPC501	Water Resource Engineering	2	0	0	2
2	CEPC502	Estimating, Costing and Valuation	3	0	0	3
		LABORATORY/ SESSIONAL PAPERS				
3	CEPC503S	Design of RCC and Steel Structure Practices	0	0	2	1
4	CEPC504S	Estimating, Costing and Valuation Practices	0 0 2		2	1
5	CEPC505S	Water Resource Engineering Practices	0 0		2	1
		ELECTIVE, PROJECT AND INTERNSHIP	ELECTIVE, PROJECT AND INTERNSHIP			
6	CEPE506	Elective - II: one subject out of Advanced Design of Structures (CEPE506/I)/ Pavement Design & Maintenance (CEPE506/II)	3	0	0	3
7	CEPE507	Elective - III: one subject out of Building Services and Maintenance (CEPE507/I) / Traffic Engineering (CEPE507/II)	3	0	0	3
8	CEI508S	Internship-II after fourth Semester	0	0 0 0		1
9	CEPR509S	Major Project I	0	0 0 4		2
10	CEPC510	Construction Management	2	0	0	2
		TOTAL	13	0	10	19

^{*}Pavement Design & Maintenance (CEPE506/II)/ Traffic Engineering (CEPE507/II) - both from same subject. So both subjects or one of them may be changed if found necessary in future while framing the detailed syllabus.

TENTATIVE CURRICULAR STRUCTURE FOR PART – IIISECOND SEMESTER (SIXTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL.	SUBJECT	SUBJECT OF STUDY]	HOURS PER W	EEK	CDEDITC
NO.	CODE	THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	CREDITS
1	CEPC601	Public Health Engineering	2	0	0	2
		LABORATORY/ SESSIONAL PAPERS				
2	CEPC602S	Civil Engineering Lab- III: Module- VII: Public Health Engineering Lab	0	0	2	1
3	CEPC603S	Advanced Surveying Practices	0	0	2	1
		ELECTIVE AND SEMINAR				
4	CEPE604	Elective IV: one subject out of Tendering and Accounts (CEPE604/I) Advanced Construction Technology & Safety Practices in Construction (CEPE604/II)	3	0	0	3
5	CEHS605	Entrepreneurship and Start-ups	3	0	0	3
6	CEOE606	Common Open Elective: Open Elective I Engineering Economics & Project Management	3	0	0	3
7	CEOE607	Open Elective II: one subject out of Disaster Management (CEPE607/I) Industrial Safety Engineering (CEPE607/II)	3	3 0 0		3
8	CEPR608S	Major Project-II	0	0	4	2
9.	CESE609	Seminar	1	0	0	1
		TOTAL	15	0	8	19

ABSTRACT:

	Lecture	Tutorial	Practical	Credit
Semester 3	15	0	12	22
Semester 4	17	0	10	22
Semester 5	13	0	10	19
Semester 6	15	0	8	19
Total	60	0	40	82

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Computer Science and Technology [CST], Computer Science and Engineering [CSE], Computer Software Technology [CSWT] & Information Technology [IT]

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

Revised 2022



Semester-wise Detailed Curriculum Structure for Semester III, IV, V and VI of Computer Science and Technology, Computer Science and Engineering, Computer Software Technology & Information Technology

Semester III

Sl.	Category	Code No.	Course Title		urs j weel		Total contact	Cred-
No	category	code No.	course ritte	L	Т	P	hrs/ week	its
1.	Program core course	COPC201	Computer Programming	2	0	0	2	2
2.	Program core course	COPC203	Scripting Languages (Python, Perl, etc – any one)	2	0	0	2	2
3.	Program core course	COPC205	Data Structures	2	0	0	2	2
4.	Program core course	COPC207	Computer System Organisation	3	1	0	4	4
5.	Program core course	COPC209	Algorithms	3	1	0	4	4
6.	Summer Internship-I (4 weeks) after IInd Sem	SI201	Summer Intern- ship-1					2
7.	Program core course	COPC211	Computer Program- ming Lab	0	0	4	4	2
8.	Program core course	COPC213	Scripting Languages Lab	0	0	4	4	2
9.	Program core course	COPC215	Data Structures Lab	0	0	2	2	1
			Total Credits					21



Semester IV

Sl.	Category	Code No.	Course Title	Н	ours wee		Total contact	Credits
No	dategory	douc ivoi	dourse Title	L	Т	P	hrs/ week	
1.	Program core course	COPC202	Operating Systems	2	0	0	2	2
2.	Program core course	COPC204	Introduction to DBMS	2	0	0	2	2
3.	Program core course	COPC206	Computer Net- works	2	0	0	2	2
4.	Program core course	COPC208	SSAD/Software Engineering	3	0	0	3	3
5.	Program core course	COPC210	Web Technologies	2	0	0	2	2
7.	Minor Project	Proj.202	Minor Project	0	0	4	4	2
8.	Program core course	COPC212	Operating Systems Lab	0	0	2	2	1
9.	Program core course	COPC214	Introduction to DBMS Lab	0	0	2	2	1
10.	Program core course	COPC216	Computer Net- works Lab	0	0	2	2	1
11.	Program core course	COPC218	Web Technologies Lab	0	0	2	2	1
12.	Mandatory Course	AU202	Essence of Indian Knowledge and Tradition	2	0	0	2	0
		T	otal Credits					21



Semester V

Sl. No	Category	Code No.	Course Title	Н	ours per wee		Total contact hrs/	Credits
		1101		L	Т	P	week	
1.	Program core course	COPC301	Introduction to e-Governance	2	1	0	3	3
2.	Program core course	COPC303	IoT	2	1	0	3	3
3.	Program Elective Course	COPE304 / ***	Program Elective-1 (any one) i) Mobile Computing ii) Advanced Computer Network	3	1	0	4	4
4.	Program Elective course	COPE305 / ***	Program Elective-2 (any one) i) Microprocessor & Microcontroller (based on 8086 & 8051) ii) Fundamentals of AI	3	1	0	4	4
5.	Open Elective	OE301/* **	Open Elective-1 (Any one) i) Engineering Economics and Project Management	3	0	0	3	3
6.	Summer Internship-II (6 weeks) after IVth Sem	SI301	Summer Intern- ship-2					3
7.	Major Project	PR302		0	0	2	2	٨
	Total Credits							20



Semester VI

Code No. Code No. Course little To Post Nrs Week	Sl.	0.1	C I N	C Mil	Н	ours per		Total contact	G 111
1. Program Elective course COPE306/ **** COPE306/ **** Program Elective & Open Source Software 2. Program Elective course COPE307/ **** Program Elective course COPE307/ **** COPE307/ **** Program Elective-4 (any one) i) Data Sciences: Data Warehousing & Data Mining, ii) Cloud Computing. 3. Humanities and Social Science course HS302 Entrepreneurship and Start-ups and Start-ups and Science course i) Industrial Management Engineering and Sciences A. Open Elective OE302/**** Open Elective-2 (any one) i) Industrial Management Engineering and Sciences A. Open Elective OE302/*** Seminar SE302	No	Category	Code No.	Course Title	L	_			Credits
2. Program Elective course COPE307/ *** (any one) i) Data Sciences: Data Warehousing & Data Mining, ii) Cloud Computing. 3. Humanities and Social Science course HS302 Entrepreneurship and Start-ups 3 1 0 4 4 4. Open Elective OE302/*** ii) Environmental Engineering and Sciences 3 0 0 3 3 5. Major Project PR302 0 0 0 6 6 4^* 6. Seminar SE302 1 0 0 1 1	1.	Program Elective course	,	(any one) i) Information Security ii) FOSS (Free & Open Source	3	1	0	4	4
3. Science course HS302 and Start-ups 3 1 0 4 4 4. Open Elective OE302/*** ii) Industrial Management Engineering and Sciences 3 0 0 3 3 5. Major Project PR302 0 0 6 6 4^ 6. Seminar SE302 1 0 0 1 1	2.	Program Elective course		(any one)i) Data Sciences: Data Warehousing & Data Mining,	3	1	0	4	4
4. Open Elective OE302/*** ii) Environmental Engineering and Sciences 3 0 0 3 3 5. Major Project PR302 0 0 6 6 4^ 6. Seminar SE302 1 0 0 0 1 1	3.		HS302		3	1	0	4	4
6. Seminar SE302 1 0 0 1 1	4.	Open Elective	OE302/***	one) i) Industrial Management ii) Environmental Engineering	3	0	0	3	3
	5.	Major Project	PR302		0	0	6	6	4^
	6.	Seminar		. 16 19	1	0	0	1	_

Total Credit Point = 82 (Sem 3,4,5,6)

^{***} Will be mentioned by the subject name. ^1 credit is carried forward from the V^{th} semester major project evaluation.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Electrical & Electronics Engineering [EEE]

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

Revised 2022

Sl.No	Category of course	Code No	Course Title	Credits	Marks		Contact er Week
						L	P
1	Program Core Course		Introduction to Electric Generation Systems	3	100	3	0
2	Program Core Course		Introduction to Electric Generation Systems Laboratory	1	100	0	2
3	Program Core Course		Electrical Circuits	3	100	3	0
4	Program Core Course		Electrical Circuits Laboratory	1	100	0	2
5	Program Core Course		Electrical and Electronic Measurement	3	100	3	0
6	Program Core Course		Electrical and Electronic Measurement Laboratory	1	100	0	2
7	Program Core Course		DC Machines and Transformers	3	100	3	0
8	Program Core Course		DC Machines and Transformers Laboratory	1	100	0	2
9	Program Core Course		Electronic Devices and Circuits	3	100	3	0
10	Program Core Course		Electronic Devices and Circuits Laboratory	1	100	0	2
11	Internship		Internship-I	1	100	0	
	TOTAL			21	1100	15	10
Total o	contact hrs/ week =	=25					

4thSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Contact Hours per Week	
						L	P
1	Program Core Course		Fundamentals of Power Electronics	3	100	3	0
2	Program Core Course		Fundamentals of Power Electronics Laboratory	1	100	0	2
3	Program Core Course		Electric Power Transmission and Distribution	3	100	3	0
4	Program Core Course		Electric Power Transmission and Distribution Laboratory	1	100	0	2
5	Program Core Course		Induction, Synchronous and Special Electrical Machines	3	100	3	0
6	Program Core Course		Induction, Synchronous and Special Electrical Machines Laboratory	1	100	0	2
7	Program Core Course		Digital Techniques	3	100	3	0
8	Program Core Course		Digital Techniques Laboratory	1	100	0	2
9	Program Elective course I(Compulsory)		Consumer Electronics	3	100	3	0
10	Program Elective course I Lab (Compulsory)		Consumer Electronics Laboratory	1	100	0	2
11	Minor Project			1	100	0	2
TOTAL			21	1100	15	12	
Total co	ontact hrs/ week =27						

5thSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Total Contact Hours per Week	
						L	P
1	Program Core Course		Microprocessor and Microcontroller	3	100	3	0
2	Program Core Course		Microprocessor and Microcontroller Laboratory	1	100	0	2
3	Program Core Course		Switchgear& Protection	3	100	3	0
4	Program Core Course		Switchgear& Protection Laboratory	1	100	0	2
5	Program Elective course II		Any one of the following subjects to be chosen 1.Communication Systems 2. Industrial Drives	3	100	3	0
6	Program Elective course II lab		Any one of the following laboratories to be chosen 1. Communication Systems Laboratory 2. Industrial Drives Laboratory	1	100	0	2
7	Program Elective course III		Any one of the following subjects to be chosen 1. Electric Traction 2. Solar Power Technologies	3	100	3	0
8	Program Elective course III Lab		Any one of the following laboratories to be chosen 1. Electric Traction Laboratory 2. Solar Power Technologies Laboratory	1	100	0	2
9	Internship		Internship II	1	100	0	
10	Major Project			2	100	0	4
TOTAL				19	1000	12	12
Total co	ontact hrs/ week	= 24					

6th Semester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Total C Hours We	s per ek
1	Program Core		Energy conservation and Audit	3	100	L 3	P
1	Course		Energy conservation and Addit	3	100	3	0
2	Program Core Course		Energy conservation and Audit Laboratory	1	100	0	2
3	Program Elective course IV		Any one of the following subjects to be chosen 1. Industrial Instrumentation and Condition Monitoring 2. Electric Vehicles	3	100	3	0
4	Program Elective course IV Lab		Any one of the following subjects to be chosen 1.Industrial Instrumentation and Condition Monitoring lab 2. Electric Vehicles Laboratory	1	100	0	2
5	Humanities and Social Science		Entrepreneurship and Start-ups	4	100	4	0
6	Open Elective course-I (compulsory)		Engineering Economics and Project Management	3	100	3	0
7	Open Elective course- II		Any one of the following subjects to be chosen. i. Mechatronics ii. Disaster management iii. Internet of Thinks iv. Environmental Engineering and Science v. Industrial Management vi. Sustainable development vii. Industrial Safety Engineering viii. Introduction to E- Governance ix. Professional Orientation x. Medical Electronics xi. Artificial Intelligence xii. Internet of Things	3	100	3	0
8	Major Project			2	100	0	4
9	Seminar			1	100	1	0
TOTA	L			21	900	17	8
Total c	contact hrs/ week =25	5					

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessment (Continuous Evaluation)			End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20 20		100

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



Curriculum Structure of

Diploma in Electrical Engineering [EE]

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

Revised 2022

Curriculum structure for 3^{rd} , 4^{th} , 5^{th} and 6^{th} semester students of Diploma in Electrical Engineering

$\underline{3^{rd}Semester}$

Sl.No	Category of course	Code No	Course Title	Credits	Marks		Contact er Week P
1	Program Core Course		Introduction to Electric Generation Systems	3	100	3	0
2	Program Core Course		Introduction to Electric Generation Systems Laboratory	1	100	0	2
3	Program Core Course		Electrical Circuits	3	100	3	0
4	Program Core Course		Electrical Circuits Laboratory	1	100	0	2
5	Program Core Course		Electrical and Electronic Measurement	3	100	3	0
6	Program Core Course		Electrical and Electronic Measurement Laboratory	1	100	0	2
7	Program Core Course		DC Machines and Transformers	3	100	3	0
8	Program Core Course		DC Machines and Transformers Laboratory	1	100	0	2
9	Program Core Course		Analog and Digital electronics	3	100	3	0
10	Program Core Course		Analog and Digital electronics Laboratory	1	100	0	2
11	Internship		Internship-I	1	100	0	
Total	TOTAL contact hrs/ week	_25		21	1100	15	10
Total (contact HFS/ week	-43					

4thSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Contact Hours per Week	
						L	P
1	Program Core Course		Power Electronics Converters and Application	3	100	3	0
2	Program Core Course		Power Electronics Converters and Application Laboratory	1	100	0	2
3	Program Core Course		Electric Power Transmission and Distribution	3	100	3	0
4	Program Core Course		Electric Power Transmission and Distribution Laboratory	1	100	0	2
5	Program Core Course		Induction, Synchronous and Special Electrical Machines	3	100	3	0
6	Program Core Course		Induction, Synchronous and Special Electrical Machines Laboratory	1	100	0	2
7	Program Core Course		Renewable Energy Power Plants	3	100	3	0
8	Program Core Course		Renewable Energy Power Plants Laboratory	1	100	0	2
9	Program Elective course I (Compulsory)		Switchgear and protection	3	100	3	0
10	Program Elective course I Lab (Compulsory)		Switchgear and Protection Laboratory	1	100	0	2
11	Minor Project			1	100	0	2
TOTA				21	1100	15	12
Total c	ontact hrs/ week =27						

5thSemester

Sl.No	Category of course	Course Title	Credits	Marks	Total Contact Hours per Week		
					L	P	
1	Program Core Course	Microcontroller and its Applications	3	100	3	0	
2	Program Core Course	Microcontroller and its Applications Laboratory	1	100	0	2	
3	Program Core Course	Building Electrification	3	100	3	0	
4	Program Core Course	Building Electrification Laboratory	1	100	0	2	
5	Program Elective course II	Any one of the following subjects to be chosen 1. Industrial Automation & Control 2. Industrial Drives	3	100	3	0	
6	Program Elective course II lab	Any one of the following laboratories to be chosen 1. Industrial Automation & Control Laboratory 2. Industrial Drives Laboratory	1	100	0	2	
7	Program Elective course III	Any one of the following subjects to be chosen 1. Illumination Practices 2. Electric Traction 3. Solar Power Technologies.	3	100	3	0	
8	Program Elective course III Lab	Any one of the following laboratories to be chosen 1. Illumination Practices Laboratory 2. Electric Traction Laboratory 3. Solar Power Technologies Laboratory	1	100	0	2	
9	Internship	Internship II	1	100	0		
10	Major Project		2	100	0	4	
TOTA:	L		19	1000	12	12	

6th Semester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Tot Con Hours We L	tact s per
1	Program Core Course		Energy conservation and Audit	3	100	3	0
2	Program Core Course		Energy conservation and Audit Laboratory	1	100	0	2
3	Program Elective course IV		Any one of the following subjects to be chosen 1. Industrial Instrumentation and Condition Monitoring 2. Electrical Testing and Commissioning	3	100	3	0
4	Program Elective course IV Lab		Any one of the following subjects to be chosen 1.Industrial Instrumentation and Condition Monitoring lab 2. Electrical Testing and Commissioning Laboratory	1	100	0	2
5	Humanities and Social Science		Entrepreneurship and Start- ups	4	100	4	0
6	Open Elective course-I (compulsory)		Engineering Economics and Project Management	3	100	3	0
7	Open Elective course- II		Any one of the following subjects to be chosen. i. Mechatronics ii. Disaster management iii. Internet of Thinks iv. Environmental Engineering and Science v. Industrial Management vi. Sustainable development vii. Industrial Safety Engineering viii. Introduction to E- Governance ix. Professional Orientation x. Medical Electronics	3	100	3	0
8	Major Project			2	100	0	4
9	Seminar			1	100	1	0
TOT	AL			21	900	17	8
Total	contact hrs/ week =	=25					

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessment (Continuous Evaluation)			End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20 20		100

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



Curriculum Structure of

Diploma in Electrical Engineering (Industrial Control) [EEIC]

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

Revised 2022

Curriculum structure for 3rd, 4th, 5th and 6th semester students of <u>Diploma in Electrical Engineering (Industrial Control)</u>

3rdSemester

SI. No.	Category of course	Code No	Course Title	Credits	Marks	Hour We	Contact s per eek
						L	Р
1	Program Core Course		Introduction to Electric Generation Systems	3	100	3	0
2	Program Core Course		Introduction to Electric Generation Systems Laboratory	1	100	0	2
3	Program Core Course		Electrical Circuits	3	100	3	0
4	Program Core Course		Electrical Circuits Laboratory	1	100	0	2
5	Program Core Course		Electrical and Electronic Measurement	3	100	3	0
6	Program Core Course		Electrical and Electronic Measurement Laboratory	1	100	0	2
7	Program Core Course		DC Machines and Transformers	3	100	3	0
8	Program Core Course		DC Machines and Transformers Laboratory	1	100	0	2
9	Program Core Course		Analog and Digital electronics	3	100	3	0
10	Program Core Course		Analog and Digital electronics Laboratory	1	100	0	2
11	Internship		Internship-l	1	100	0	
	TOTAL			21	1100	15	10
	Total contact hrs/ week =25						

4thSemester

SI. No	Category of course	Code No	Course Title	Credits	Marks	Hour	itact s per eek
						L	P
1	Program Core Course		Power Electronics Converters and Application	3	100	3	0
2	Program Core Course		Power Electronics Converters and Application Laboratory	1	100	0	2
3	Program Core Course		Electric Power Transmission and Distribution	3	100	3	0
4	Program Core Course		Electric Power Transmission and Distribution Laboratory	1	100	0	2
5	Program Core Course		Induction, Synchronous and Special Electrical Machines	3	100	3	0
6	Program Core Course		Induction, Synchronous and Special Electrical Machines Laboratory	1	100	0	2
7	Program Core Course		Industrial Instrumentation & Control System	3	100	3	0
8	Program Core Course		Industrial Instrumentation & Control System Laboratory	1	100	0	2
9	Program Elective course I		Any one of the following subjects to be chosen 1. Switchgear and protection 2. Building Electrification	3	100	3	0
10	Program Elective course I Lab		Any one of the following subjects to be chosen 1. Switchgear and Protection Laboratory 2. Building Electrification Laboratory	1	100	0	2
11	Minor Project			1	100	0	2
	TOTAL			21	1100	15	12
	Total c	ontact hrs	/ week =27				

5thSemester

SI. No	Category of course	Code No	Course Title	Credits	Marks	Hour W	Contact rs per eek
	Program Core		Microcontroller and its			L	Р
1	Course		Applications	3	100	3	0
2	Program Core Course		Microcontroller and its Applications Laboratory	1	100	0	2
3	Program Core Course		Industrial Automation and Embedded Systems	3	100	3	0
4	Program Core Course		Industrial Automation and Embedded Systems Laboratory	1	100	0	2
5	Program Elective course II		Any one of the following subjects to be chosen 1. Electric Vehicle 2. Industrial Drives 3. Electrical Testing & Commissioning	3	100	3	0
6	Program Elective course II lab		Any one of the following laboratories to be chosen 1. Electric Vehicle Laboratory 2. Industrial Drives Laboratory 3. Electrical Testing & Commissioning Laboratory	1	100	0	2
7	Program Elective course III		Any one of the following subjects to be chosen 1. Non-Conventional Energy Sources 2. Utilization of Electrical Power 3. Communication Technologies	3	100	3	0
8	Program Elective course III Lab		Any one of the following laboratories to be chosen 1. Non-Conventional Energy Sources Laboratory 2. Utilization of Electrical Power Laboratory 3. Communication Technologies Laboratory	1	100	0	2
9	Internship		Internship II	1	100	0	
10	Major Project			2	100	0	4
		TOTA	L	19	1000	12	12
	Total c						

6th Semester

SI. No	Category of course	Code No	Course Title	Credits	Marks	Tot Cont Hours We	tact s per ek
						L	Р
1	Program Core Course		Energy conservation and Audit	3	100	3	0
2	Program Core Course		Energy conservation and Audit Laboratory	1	100	0	2
3	Program Elective course IV		Any one of the following subjects to be chosen 1. Object Oriented Programming and Networking 2. Solar Power Technologies 3. Industrial Measurement and Condition Monitoring	3	100	3	0
4	Program Elective course IV Lab		Any one of the following subjects to be chosen 1. Object Oriented Programming and Networking Laboratory 2. Solar Power Technologies Laboratory 3. Industrial Measurement and Condition Monitoring Laboratory	1	100	0	2
5	Humanities and Social Science		Entrepreneurship and Start-ups	4	100	4	0
6	Open Elective course-I (compulsory)		Engineering Economics and Project Management	3	100	3	0
7	Open Elective course- II		Any one of the following subjects to be chosen. [i] Mechatronics [ii] Disaster management [iii] Internet of Thinks [iv] Environmental Engineering and Science [v] Industrial Management [vii] Sustainable development [vii] Industrial Safety Engineering [viii] Introduction to E-Governance [ix] Medical Electronics [x] Illumination Practice	3	100	3	0
8	Major Project			2	100	0	4
9	Seminar			1	100	1	0
		21	900	17	8		
	Tota	l contact l	nrs/ week =25				

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	Internal Assessment (Continuous Evaluation)			End Semester External Assessment		
Assignments in	nents in Class Class		Assignment on the day Vi		Total	
classes	Performance	Attendance	of Viva voce	voce		
30	20	10	20	20	100	

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



Curriculum Structure of

Diploma in Electrical Power System [EPS]

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

Revised 2022

Curriculum structure for 3^{rd} , 4^{th} , 5^{th} and 6^{th} semester students of

Diploma in Electrical Power Systems

3rdSemester

SI. No.	Category of course	Code No	Course Title	Credits	Marks	Hour	Contact 's per eek
						L	Р
1	Program Core Course		Introduction to Electric Generation Systems	3	100	3	0
2	Program Core Course		Introduction to Electric Generation Systems Laboratory	1	100	0	2
3	Program Core Course		Electrical Circuits	3	100	3	0
4	Program Core Course		Electrical Circuits Laboratory	1	100	0	2
5	Program Core Course		Electrical and Electronic Measurement	3	100	3	0
6	Program Core Course		Electrical and Electronic Measurement Laboratory	1	100	0	2
7	Program Core Course		DC Machines and Transformers	3	100	3	0
8	Program Core Course		DC Machines and Transformers Laboratory	1	100	0	2
9	Program Core Course		Analog and Digital electronics	3	100	3	0
10	Program Core Course		Analog and Digital electronics Laboratory	1	100	0	2
11	Internship		Internship-I	1	100	0	
	TOTAL			21	1100	15	10
	Total co	ntact hrs/ w	reek =25				

4thSemester

SI. No	Category of course	Code No	Course Title	Credits	Marks	Hour	tact s per eek
						L	P
1	Program Core Course		Power Electronics Converters and Application	3	100	3	0
2	Program Core Course		Power Electronics Converters and Application Laboratory	1	100	0	2
3	Program Core Course	Course Distribution		100	3	0	
4	Program Core Course		Electric Power Transmission and Distribution Laboratory	1	100	0	2
5	Program Core Course		Induction, Synchronous and Special Electrical Machines	3	100	3	0
6	Program Core Course		Induction, Synchronous and Special Electrical Machines Laboratory		100	0	2
7	Program Core Course		Switchgear and protection	3	100	3	0
8	Program Core Course		Switchgear and Protection Laboratory	1	100	0	2
9	Program Elective course I	Program Elective Any one of the following subjects to be chosen 1. Renewable Energy Power Plants		3	100	3	0
10	Program Elective course I Lab		Any one of the following subjects to be chosen 1. Renewable Energy Power Plants Laboratory 2. Building Electrification Laboratory 3. Numerical Methods Laboratory	1	100	0	2
11	Minor Project			1	100	0	2
	TOTAL			21	1100	15	12
	Total c	ontact hrs	/ week =27				

5thSemester

SI.	Category of course	Code No	Course Title	Credits	Marks	Houi W	Contact rs per eek
						L	Р
1	Program Core Course		Microcontroller and its Applications	3	100	3	0
2	Program Core Course		Microcontroller and its Applications Laboratory	1	100	0	2
3	Program Core Course		Power System Operation, Control and Power Quality	3	100	3	0
4	Program Core Course		Power System Operation, Control and Power Quality Laboratory	1	100	0	2
5	Program Elective course II		Any one of the following subjects to be chosen 1. Electrical Testing & Commissioning 2. Electric Vehicle	3	100	3	0
6	Program Elective course II lab		Any one of the following laboratories to be chosen 1. Electrical Testing & Commissioning Laboratory 2. Electric Vehicle Laboratory	1	100	0	2
7	Program Elective course III		Any one of the following subjects to be chosen 1. Solar Power Technologies 2. Utilization of Electrical Power 3. Industrial Drives	3	100	3	0
8	Program Elective course III Lab		Any one of the following laboratories to be chosen 1. Solar Power Technologies Laboratory 2. Utilization of Electrical Power Laboratory 3. Industrial Drives Laboratory	1	100	0	2
9	Internship		Internship II	1	100	0	
10	Major Project		·	2	100	0	4
		ТОТА	L	19	1000	12	12
	Total c		s/ week = 24				
				L	I		I

6th Semester

SI. No	Category of course	Code No	Course Title	Credits	Marks	Tot Cont Hours We	tact s per ek
	Program Core				100	L	Р
1	Course		Energy conservation and Audit	3	100	3	0
2	Program Core Course		Energy conservation and Audit Laboratory	1	100	0	2
3	Program Elective course IV		Any one of the following subjects to be chosen 1. Object Oriented Programming and Networking 2. Control System 3. Industrial Instrumentation and Condition Monitoring	3	100	3	0
4	Program Elective course IV Lab		Any one of the following subjects to be chosen 1. Object Oriented Programming and Networking Laboratory 2. Control System Laboratory 3. Industrial Instrumentation and Condition Monitoring Laboratory	1	100	0	2
5	Humanities and Social Science		Entrepreneurship and Start-ups	4	100	4	0
6	Open Elective course-I (compulsory)		Engineering Economics and Project Management	3	100	3	0
7	Open Elective course- II		Any one of the following subjects to be chosen. [i] Mechatronics [ii] Disaster management [iii] Internet of Thinks [iv] Environmental Engineering and Science [v] Industrial Management [vi] Sustainable development [vii] Industrial Safety Engineering [viii] Introduction to E-Governance [ix] Illumination Practice		100	3	0
8	Major Project			2	100	0	4
9	Seminar			1	100	1	0
		21	900	17	8		
	Tota	l contact I	hrs/ week =25				

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	Internal Assessment (Continuous Evaluation)			End Semester External Assessment		
Assignments in	nents in Class Class		Assignment on the day Vi		Total	
classes	Performance	Attendance	of Viva voce	voce		
30	20	10	20	20	100	

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



Curriculum Structure of

Diploma in Electronics & Instrumentation Engineering [EIE]

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

Revised 2022

Curriculum Structure Electronics & Instrumentation Engineering

			Semest	er	Ш				
Sl No.	Category	Code No.	Course Title		Hours Per week L T P		Total Contact hrs/week	Credits	Marks
1	Program Core Course	EIEPC201	Analog Electronics	2	1	-	3	3	100
2	Program Core Course	EIEPC203	Electrical Machine and Measurement	2			2	2	100
3	Program Core Course	EIEPC205	Circuit Theory	2	1		3	3	100
4	Program Core Course	EIEPC207	Programming in C	2	1		3	3	100
5	Program Core Course	EIEPC209	Fundamentals of Instrumentation	2	1		3	3	100
6	Program Core Course	EIEPC211	Analog Electronics Lab			2	2	1	100
7	Program Core Course	EIEPC213	Electrical Machine and Measurement Lab			2	2	1	100
8	Program Core Course	EIEPC215	Circuit Theory Lab			3	3	1.5	100
9	Program Core Course	EIEPC217	Programming in C Lab			3	3	1.5	100
10	Internship- I (after Semester II)	SI201						1	100
	TOTAL						24	20	1000

			Semester	IV	r				
Sl No.	Category	Code No.	Course Title		urs I week		Total Contact	Credits	Marks
140.				L	T	P	hrs/week		
1	Program Core Course	EIEPC202	Digital Electronics	2	1		3	3	100
2	Program Core Course	EIEPC204	Electronic Instruments and Measurement	2			2	2	100
3	Program Core Course	EIEPC206	Process Instrumentation I	2	1		3	3	100
4	Program Core Course	EIEPC208	Industrial Electronics	2			2	2	100
5	Program Core Course	EIEPC210	Process Control -1	2	1		3	3	100
6	Program Core Course	EIEPC212	Digital Electronics Lab			3	3	1.5	100
7	Program Core Course	EIEPC214	Process Instrumentation I Lab			3	3	1.5	100
8	Program Core Course	EIEPC216	Industrial Electronics Lab			3	3	1.5	100
9	Program Core Course	EIEPC218	Python Programming & Circuit Simulation Lab			3	3	1.5	100
10	Program Elective Course	EIEPE202	Optical Instrumentation Or Renewable Energy	2			2	2	100
	TOTAL						27	21	1000

			Semest	er	V				
Sl	Category	Code No.	Course Title		urs]		Total	Credits	Marks
No.				L	week T	P	Contact hrs/week		
1	Program Core Course	EIEPC301	Process Instrumentation -II	2	1	1	3	3	100
2	Program Core Course	EIEPC303	Microprocessor	2	1		3	3	100
3	Program Core Course	EIEPC305	Process Control -II	2	1		3	3	100
4	Program Core Course	EIEPC307	Analytical Instrumentation	2			2	2	100
5	Program Core Course	EIEPC309	Process Instrumentation -II Lab			2	2	1	100
6	Program Core Course	EIEPC311	Microprocessor Lab			2	2	1	100
7	Program Core Course	EIEPC313	Process Control Lab			2	2	1	100
8	Program Elective Course	EIEPE301	Biomedical Instrumentation Or Application of Robotics and CNC	2			2	2	100
9	Program Elective Course	EIEPE303	Electronic Communication Principle Or Control Theory	2			2	2	100
10	Internship- II (after Semester IV)	SI301						1	100
11	Minor Project	PR301				4	4	2	100
	TOTAL						25	21	1100

			Semester	. 7	/ <u>I</u>				
Sl No.	Category	Code No.	Course Title		Ioui Per weel	•	Total Contact hrs/week	Credits	Marks
				L	T	P			
1	Program Core Course	EIEPC302	Microcontroller	2	1		3	3	100
2	Program Core Course	EIEPC304	Microcontroller Lab			3	3	1.5	100
3	Program Core Course	EIEPC306	PCB design & Control Simulation Lab			3	3	1.5	100
4	Program Elective Course	EIEPE302	Industrial Buses and Networks Or Process Plant Instrumentation	2			2	2	100
5	Humanities and Social Science	HS302	Entrepreneurship and Start-ups	3			3	3	100
6	Open Elective Course	EIEOE302	Engineering Economics & Project Management	2	1		3	3	100
7	Open Elective Course	EIEOE304	Industrial Safety Engineering Or Environmental Engineering and Science Or Electric Vehicle Technology	2	1		3	3	100
8	Major Project	PR302				4	4	2	100
9	Seminar	SE302				2	2	1	100
	TOTAL						26	20	900

	Summary									
Sem	Sem Subject Credit Marks									
I	10	18	1000							
II	10	20	1000							
III	10	20	1000							
IV	10	21	1000							
V	11	21	1100							
VI	9	20	900							
SUM	60	120	6000							

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Food Processing Technology [FPT]

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

Revised 2022

PROPOSED CURRICULUM STRUCTURE FOR THE PART - II (2ND YEARS) OF THE FULL TIME DIPLOMA COURSE IN FOOD PROCESSING TECHNOLOGY

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION

AND SKILL DEVELOPMENT

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: FOOD PROCESSING TECHNOLOGY

COURSE CODE: FPT SEMESTER: THIRD

DURATION OF COURSE: 6 SEMESTERS

Sl. No.	Category of Course	Code No	Course Title	Hours Per Week		Total Contact Hours Per Week	Credit	Full Marks	Internal	ESE
				L	P					
1	Program Core Course	FPTPC 201	Food Microbiology	2	0	2	2	100	40	60
2	Program Core Course	FPTPC 203	Chemistry of Food	2	0	2	2	100	40	60
3	Program Core Course	FPTPC 205	Unit Operation of Chemical Engineering-I	2	0	2	2	100	40	60
4	Program Core Course	FPTPC 207	Engineering Thermodynamics and Chemical Kinetics	2	0	2	2	100	40	60
5	Program Core Course	FPTPC 209	Fundamental Chemistry	2	0	2	2	100	40	60
6	Program Core Course	FPTPC 211	Technology of Food Preservation	3	0	3	3	100	40	60
7	Program Core Course	FPTPC 213	Food Microbiology Lab.	0	3	3	1.5	100	60	40
8	Program Core Course	FPTPC 215	Chemistry of Food Lab.	0	4	4	2	100	60	40
9	Program Core Course	FPTPC 217	Unit Operation of Chemical Engineering-I Lab.	0	3	3	1.5	100	60	40
10	Program Core Course	FPTPC 219	Food Preservation Lab.	0	4	4	2	100	60	40
11	Internship	SI201	Internship-I	0	0	0	1	100	100	0
TOTAL				13	14	27	21*	1100	580	520

STUDENT CONTACT HOURS PER WEEK: 27 hours (Lecture-13 hours; Practical-14 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1100 (Internal Marks= 580; ESE Marks = 520)

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: FOOD PROCESSING TECHNOLOGY

COURSE CODE: FPT

SEMESTER: FOURTH

DURATION OF COURSE: 6 SEMESTERS
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Sl. No.	Category of Course	Code No	Course Title		rs Per 'eek	Total Contact	Credit	Full Marks	Internal	ESE
				L	P	Hours Per Week				
1	Program Core Course	FPTPC 202	Microbial Technology	2	0	2	2	100	40	60
2	Program Core Course	FPTPC 204	Unit Operation of Chemical Engineering-II	2	0	2	2	100	40	60
3	Program Core Course	FPTPC 206	Technology of Food-I (cereal, pulses, legume, oil seed, extruded food)	3	0	3	3	100	40	60
4	Program Core Course	FPTPC 208	Technology of Food-II (meat, fish, poultry)	2	0	2	2	100	40	60
5	Program Core Course	FPTPC 210	Technology of Food-III (fruit, vegetable, soft drinks beverage, tea, coffee, cocoa, spices)	3	0	3	3	100	40	60
6	Program Elective Course	FPTPE 202	Program Elective -I 1) Food Additive, Functional Foods and Neutraceuticals 2) Protein Technology	2	0	2	2	100	40	60
7	Program Core	FPTPC	Microbial Technology	0	3	3	1.5	100	60	40
	Course	212	Lab.					100		
8	Program Core Course	FPTPC 214	Unit Operation of Chemical Engineering-II Lab.	0	3	3	1.5	100	60	40
9	Program Core Course	FPTPC 216	Food Processing Lab-I	0	4	4	2	100	60	40
10	Minor Project	FPTPR 202	Minor Project	0 14	2	2	1	100	60	40
	TOTAL				12	26	20*	1000	480	520

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks= 480; ESE Marks = 520)

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION

AND SKILL DEVELOPMENT

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: FOOD PROCESSING TECHNOLOGY

COURSE CODE: FPT SEMESTER: FIFTH

DURATION OF COURSE: 6 SEMESTERS

Sl. No.	Category of Course	Code No	Course Title	Hour Week		Total Contact	Credit	Full Marks	Internal	ESE
				L	P	Hours Per Week				
1	Program Core Course	FPTPC 301	Dairy Technology	3	0	3	3	100	40	60
2	Program Core Course	FPTPC 303	Bakery and Confectionary Technology	3	0	3	3	100	40	60
3	Program Elective Course	FPTPE 301	Program Elective -II	2	2 0 2		2	100	40	60
			1)Food Quality and Analysis							
	2) Food Biotechnology									
4	Program Elective Course	FPTPE 303	303		2	2	100	40	60	
			1) Food Engineering							
			2)Technology of Indigenous Milk Products							
	Виссиот Соно	FPTPC	Earl Drangaing Lab II	0	1	4	2	100		10
	Program Core Course	305	Food Processing Lab-II	U	4	4	2	100	60	40
	Program Core Course	FPTPC 307	Food Analysis and Quality Control Lab.	0	3	3	1.5	100	60	40
	Program Core Course	FPTPC 309	Dairy Technology Lab.	0	4	4	2	100	60	40
	Program Core Course	FPTPC 311	Bakery and Confectionary Lab.	0	4	4	2	100	60	40
	Major Project	FPTPR 301	Major Project	0	3	3	1.5	100	60	40
	Internship	FPTSI 301	Internship-II	0	0	0	1	100	100	0
	,	TOTA	L	10	18	28	20*	1000	560	440

STUDENT CONTACT HOURS PER WEEK: 28 hours (Lecture-10 hours; Practical-18 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks= 560; ESE Marks = 440)

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

COURSE NAME: FOOD PROCESSING TECHNOLOGY

COURSE CODE: FPT SEMESTER: SIXTH

DURATION OF COURSE: 6 SEMESTERS

Sl. No.	Category of Course	Code No	Course Title		rs Per eek	Total Contact	Credit	Full Marks	Internal	ESE
110.	Course			L	P	Hours Per Week		Widiks		
1	Program Core Course	FPTPC 302	Food Safety and Quality Management	2	0	2	2	100	40	60
2	Program Core Course	FPTPC 304	Food Packaging Technology	2	0	2	2	100	40	60
3	Program Core Course	FPTPC 306	Food Industry Waste Management	2	0	2	2	100	40	60
4	Program Elective Course	FPTPE 302	Program Elective-IV 1) Food Plant Design, Plant maintenance and Hygiene 2) Food Metabolism and Nutrition	2	0	2	2	100	40	60
5	Humanities and Social Science	HS302	Entrepreneurship and Start-ups	3	0	3	3	100	40	60
6	Open Elective Course	FPTOE 302	Open Elective I Engineering Economics and Project Management	3	0	3	3	100	40	60
7	Open Elective Course	FPTOE 304	Open Elective II 1) Environmental Engineering and Science 2) Industrial Management	3	0	3	3	100	40	60
		- FREED C		0				100		10
8	Program Core Course	FPTPC 308	Food Industry Waste Management Lab.	0	3	3	1.5	100	60	40
9	Major Project	PR302	Major Project	0	3	3	1.5	100	60	40
10	Seminar	SE302	Seminar	0	2	2	1	100	100	0
		TOTA	L	17	08	25	21*	1000	500	500

STUDENT CONTACT HOURS PER WEEK: 25 hours (Lecture-17 hours; Practical-08 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks= 500; ESE Marks = 500)

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Footwear Technology [FWT]

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

Revised 2022

CURRICULAR STRUCTURE OF DIPLOMA IN FOOTWEAR TECHNOLOGY

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

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S.L. No Category Cate		_			Ho	urs Per V	Veek				EXAMINATION SCHEME				
L T P Semester Examination Semester Examination Semester Examination Semester Examination Semester Examination Semester Test	S.L No	Course Category	Code	Course Title					Credits	Marks		Internal Assessment		ent	
1. Programme Core Course FWTPC 201 Principles of Footwear Manufacture 3 0 0 3 2 100 60 20 2. Programme Core Course FWTPC 203 Elements of Footwear Potential 3 0 0 3 2 100 60 20 3. Programme Core Course FWTPC 205 Footwear Manufacturing Techniques I 3 0 0 3 2 100 60 20 4. Programme FWTPC Footwear Material Study I 3 0 0 3 2 100 60 20					L	Т	P	Hours/Week			Semester	Semester	Quizzes/ Viva Voce/ Assignment	Class Attendance	
Core Course 201 Manufacture		THEORETICAL SUBJECTS													
Core Course 203 Designing & Pattern Cutting 3 0 0 3 2 100 60 20	1.				3	0	0	3	2	100	60	20	10	10	
Core Course 205 Techniques I	2.			Designing & Pattern	3	0	0	3	2	100	60	20	10	10	
" ''-8'-11'-11'-11'-11'-11'-11'-11'-11'-11	3.			· ·	3	0	0	3	2	100	60	20	10	10	
	4.			Footwear Material Study I	3	0	0	3	2	100	60	20	10	10	
5. Programme FWTPC Footwear Auxiliary 3 0 0 3 2 100 60 20 Core Course 209 Materials	5.	_	_	•	3	0	0	3	2	100	60	20	10	10	

PRACTICAL SUBJECTS

ļ											
S.L No	Course Category	Code	Course Title	Hours Per Week		Total Contact	Credits	Marks	EXAMINATION SCHEME		
				L	Т	Р	Hours/Week			Practical Internal Assessment	Practical External Assessment
6.	Programme Core Course	FWTPC 211	Design Process and Pattern Engineering I	0	0	6	6	3	100	60	40
7.	Programme Core Course	FWTPC 213	Footwear Upper Fabrication Technology I	0	0			1.5	100	60	40
8.	Programme Core Course	FWTPC 215	Footwear Bottom Fabrication Technology I	0	0	6	6	1.5	100	60	40
9.	Programme Core Course	FWTPC 217	Fundamentals of Computer Graphics Designing Lab	0	0	3	3	2	100	60	40
10.	Programme Core Course	FWTPC 219	Communication Skills II Lab	0	0	2	2	1	100	60	40
11.	Internship	SI201	Summer Internship I	1	0	0	1	1	100		
1			TOTAL	16	00	17	33	20	1100		

CURRICULAR STRUCTURE OF DIPLOMA IN FOOTWEAR TECHNOLOGY

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

FOURTH SEMESTER

				Hou	urs Per V	Veek					EXAMINA	ATION SCHEM	Ē	
S.L No	Course Category	Code	Course Title				Total Contac	ct	Marks	External Assessment	Internal Assessment			
				L	т	Р	Hours/W	/eek		End Semester Examination	Mid Semester Test	Quizzes/ Viva Voce Assignmer	/ Attendance	
	L			Į	•	THEOR	ETICAL SU	JBJECTS			l	1	I	
1.	Programme Core Course	FWTPC 202	Footwear Manufacturing Techniques II	3	0	0	3	2	100	60	20	10	10	
2.	Programme Core Course	FWTPC 204	Footwear Machinery Sciences I	3	0	0	3	2	100	60	20	10	10	
3.	Programme Core Course	FWTPC 206	Footwear Costing and Quality Management	3	0	0	3	2	100	60	20	10	10	
4.	Programme Core Course	FWTPC 208	Footwear Material Study II	2	0	0	2	2	100	60	20	10	10	
5.	Programme Elective Course I	FWTPE I	Programme Elective I	3	0	0	3	2	100	60	20	10	10	
						PRAC	TICAL SUB	JECTS						
S.L No	Course Category	Code	Course Title		Ηοι	ırs Per \	Week	Total Contact	Credits	Marks	EXAMINATION SCHEME			
					L	т	P	Hours/Week				al Internal essment	Practical External Assessment	
6.	Programme Core Course	FWTPC 210	Design Process and Patte Engineering II	rn	0	0	6	6	2	100	60		40	
7.	Programme Core Course	FWTPC 212	Footwear Upper Fabricati Technology II	on	0	0			1.5	100		60	40	
8.	Programme Core Course	FWTPC 214	Footwear Bottom Fabricat Technology II	ion	0	0	3	3	1.5	100		60	40	

0

0

00

14

3

3

17

3

3

31

2

2

2

21

100

100

100

1100

60

60

60

40

40

40

Computer Aided Design

Applications I Lab

Personality Development and Soft

Skill
Project on Footwear Technology

TOTAL

Programme

Core Course

Programme

Core Course

Minor Project

10.

11.

FWTPC

216

FWTPC

218

FWT

Proj.202

CURRICULAR STRUCTURE OF DIPLOMA IN FOOTWEAR TECHNOLOGY

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

						FIFT	TH SEMEST	ΓER						
	_			Hours Per Week			_			EXAMINATION SCHEME				
S.L No	Course Category	Code	Course Title				Total Contact	-	Marks	External Assessment		Internal Assessment		
				L	Т	Р	Hours/We	еек		End Semester Examination	Mid Semester Test	Quizzes/ Viva Voce/ Assignment	Class Attendance	
	•					THEOR	ETICAL SU	BJECTS	•				•	
1.	Programme Core Course	FWTPC 301	Industrial Engineering & Management	3	0	0	3	2	100	60	20	10	10	
2.	Programme Core Course	FWTPC 303	Footwear Fashion and Trend Forecasting	3	0	0	3	2	100	60	20	10	10	
3.	Programme Core Course	FWTPC 305	Footwear Machinery Sciences II	2	0	0	2	2	100	60	20	10	10	
4.	Programme Elective Course II	FWTPE II	Programme Elective II	3	0	0	3	2	100	60	20	10	10	
5.	Programme Elective Course III	FWTPE III	Programme Elective III	3	0	0	3	2	100	60	20	10	10	
	PRACTICAL SUBJECTS													
S.L No	Course Category	Code	Course Title		Hours Per \			Total Contact	Credits	Marks		EXAMINATIO		
					L	Т	Р	Hours/Week				al Internal ssment	Practical External Assessment	

S.L No	Course Category	Code	Course Title	Ηοι	ırs Per W	/eek	Total Contact	Credits	Marks	EXAMINATION SCHEME	
				L	Т	P	Hours/Week			Practical Internal Assessment	Practical External Assessment
6.	Programme Core Course	FWTPC 307	Footwear Material & Product Testing Lab	0	0	4	4	2	100	60	20
7.	Programme Core Course	FWTPC 309	Advance Footwear Designing I	0	0	6	6	2	100	60	40
8.	Programme Core Course	FWTPC 311	Advance Footwear Manufacturing Techniques	0	0	3	3	2	100	60	40
9.	Programme Core Course	FWTPC 313	Computer Aided Design Applications II Lab	0	0	3	3	2	100	60	40
10.	Major Project	FWT Proj.301	Project on Advance Leather/Non Leather Footwear Manufacture	0	0	2	2	1	100	60	40
11.	Internship	SI301	Summer Internship II	1	0	0	1	2	100		
			TOTAL	15	00	18	33	21	1100		

			CURRICU	II AR ST	TRUCTU	IRF OF	DIPI OMA	IN FOOTW	AR TECHNOL	OGY			
		WE	ST BENGAL STATE COUNCIL								ELOPMENT		
			TEACHING AND	EXAN	/INATIC	N SCHI	EME FOR I	DIPLOMA IN	ENGINEERIN	G COURSES			
						SIX	TH SEMES	TER					
	_			Hou	urs Per V	Veek					EXAMINA	ATION SCHEN	IE
S.L No	Course Category	Code	Course Title				Total Contac	it	ts Marks	External Assessment		Internal Ass	essment
				L	Т	P	Hours/W	eek		End Semester Examination	Mid Semester Test	Quizzes, Viva Voce Assignme	e/ Attendance
		Į.				THEOR	ETICAL SU	IBJECTS		<u> </u>		Į.	<u> </u>
1.	Humanities & Social Science	HS 302	Entrepreneurship & Start-Ups	3	0	0	3	3	100	60	20	10	10
2.	Programme Elective Course IV	FWTPE IV	Programme Elective IV	3	0	0	3	2	100	60	20	10	10
3.	Open Elective I	FWTOE I	Engineering Economics and Project Management	3	0	0	3	3	100	60	20	10	10
4.	Open Elective II	FWTOE II	Open Elective II	3	0	0	3	3	100	60	20	10	10
						PRAC	TICAL SUB.	JECTS					
S.L No	Course Category	Code	Course Title		Но	urs Per \		Total Contact	Credits	Marks		EXAMINATION	
					L	Т	Р	Hours/Weel	C		1 1 5 5 5 5 5	al Internal ssment	Practical External Assessment
5.	Programme Core Course	FWTPC 302	Advance Footwear Designir	ng II	0	0	6	6	2	100		60	40
6.	Programme Core Course	FWTPC 304	Seminar		1	0	1	2	1	100		60	40
7.	Programme Core Course	FWTPC 306	Port Folio/Wellington Boo Presentation		0	0	3 3 2		2	100		60	40
8.	Major Project	FWT Proj.302	Project on Advance Leather/ Leather Footwear Manufact		0	0	8	8	4	100		60	40

TOTAL

List of Programme Elective Courses [PE]

SI No	Code No	Course Title	Но	ours Per We	ek	Semester	Credits	Marks
			L	Т	Р			
1.	FWTPE I	Footwear Construction.	3	0	0	Fourth	2	100
	(Any One)	Application of Polymers in Footwear Industry.						
2.	FWTPE II	Leather Goods Technology I.						
	(Any One)	Footwear Production and Operation Management.	3	0	0	Fifth	2	100
	FWTPE III	Footwear Merchandising Practices.						
	(Any One)	Supply Chain & Export Management.						
3.	FWTPE IV	Footwear Marketing and E-Commerce.	3	0	0	Sixth	2	100
	(Any One)	Leather Goods Technology II.	3	0	0			

List of Open Elective Courses [OE]

SI No	Code No	Couse Title	Но	urs Per Wee	ek	Semester	Credits	Marks
			L	T	Р			
1.	FWTOE I	Engineering Economics and Project Management.	3	0	0		3	100
	(Mandatory)					Sixth		
2.	FWTOE II	Occupational Health and Safety Engineering.	3	0	0		3	100
	(Any One)	Disaster Management.						

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Geographic Information System & Global Positioning System [GISGPS]

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

Revised 2022

CURRICULAR STRUCTURE OF DIPLOMA IN GIS AND GPS

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

	В	RANCH: 0	GIS & GPS						SEME	STEF	R: III			
					CLV	.SS/\	NΚ		EVA	ALUAT	ION	SCHE	ME	
SL	CATEGORY	CODE	COURSE TITLE	CREDIT		.33/ V	VIX	INTERNAL			ECE			
NO					L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	Program core course	GISPC201	Spatial Statistics-I	3	2	1		20	10	10	60			100
2	Program core course	GISPC202	Cartography In GIS	2	2			20	10	10	60			100
3	Program core course	GISPC203	Basic Concept of Navigation	2	2			20	10	10	60			100
4	Program core course	GISPC204	Problem Solving and Coding	3	3			20	10	10	60			100
5	Program core course	GISPC205	Applied Surveying	3	3			20	10	10	60			100
6	Program core course	GISPC206	Computer Programming Lab	1			2					60	40	100
7	Program core course	GISPC207	Computer Aided Drafting	2			4					60	40	100
8	Program core course	GISPC208	Field Survey Practice-I	3			6					60	40	100
9	Summer Internship	SI201	Summer Internship-I	1								100		100
		TOTAL		20	12	1	12							900

STUDENT CONTACT HOURS PER WEEK: 25 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

	BRANCH: GIS & GPS SEMESTER: IV													
					CLA	.SS/\	Λ/K		EVA	LUAT	ION	SCHE	ME	
SL NO	CATEGORY	CODE	COURSE TITLE	CREDIT	CLA	33/ 1	VIX	INTERNAL		٩L	гсг	DIA	DEA	TOTAL
NO					L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	LA	IOIAL
1	Program core course	GISPC209	Spatial Statistics-II	3	2	1		20	10	10	60			100
2	Program core course	GISPC210	Advance Surveying-I	3	3			20	10	10	60			100
3	Program core course	GISPC211	Digital Image Processing	2	2			20	10	10	60			100
4	Program core course	GISPC212	Geographic Information System-I	3	3			20	10	10	60			100
5	Program Elective course	GISPE201	PROGRAMME ELECTIVE I	2	2			20	10	10	60			100
6	Program core course	GISPC213	Digital Image Processing-I	2			4					60	40	100
7	Program core course	GISPC214	GIS LAB-I	1			2					60	40	100
8	Program core course	GISPC215	Field Survey Practices – II	3			6					60	40	100
9	Minor Project	PR 202 TOTAL	PROJECT ON GIS	2			4					60	40	100
		21	12	1	16							900		

GISPE201: Any one of the two subjects: 1. Database Management System Post GIS 2. Database Administration

STUDENT CONTACT HOURS PER WEEK: 29 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

	В	RANCH: (GIS & GPS						SEME	STE	R: V			
6.					CLA	SS/V	VΚ		EVA	ALUAT	ION	SCHE	ME	
SL	CATEGORY	CODE	COURSE TITLE	CREDIT				11	NTERN	AL	-6-	514	554	
NO					L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	Program core course	GISPC301	Remote Sensing	3	3			20	10	10	60			100
2	Program core course	GISPC302	Geo-Informatics and GPS system	3	3			20	10	10	60			100
3	Program Elective Course	GISPE301	PROGRAMME ELECTIVE II	3	3			20	10	10	60			100
4	Program Elective	GISPE302	PROGRAMME ELECTIVE III	3	3			20	10	10	60			100
5	Open Elective	GISOE301	OPEN ELECTIVE I	3	3			20	10	10	60			100
6	Program core course	GISPC303	GIS LAB-II	2	,		4					60	40	100
7	Program core course	GISPC304	Digital Image Processing-II	2			4					60	40	100
8	Summer Internship	SI301	Summer Internship-II	1								100		100
9	Major Project	PR301	PROJECT	1			2							100
		TOTAL		21	15		10							

GISPE301: Any one of the two subjects 1. Application of GIS in Agriculture 2. Application of GIS in Urban Planning.

GISPE302: Any one of the two subjects 1. Artificial Intelligence. 2. Expert System

GISOE301: Any one of the two subjects 1. Engineering Economics and Project management.

STUDENT CONTACT HOURS PER WEEK: 25 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T – Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

	В	RANCH: 0	GIS & GPS						SEME	STEF	R: VI			
					СΙΔ	.SS/V	VΚ		EVA	ALUAT	ION	SCHE	ME	
SL	CATEGORY	CODE	COURSE TITLE	CREDIT		.JJ/ V	VIX	INTERNAL						
NO	J.1.20.1.	0022			L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	Program core course	GISPC305	Planning	2	2			20	10	10	60			100
2	Program Elective course	GISPE303	PROGRAMME ELECTIVE IV	3	3			20	10	10	60			100
3	Humanities and Social Science course	HS302	Entrepreneurship and Start- ups	3	3			20	10	10	60			100
4	Program core course	GISPC306	Python Programming	3	3			20	10	10	60			100
5	Open Elective	GISOE302	OPEN ELECTIVE II	3	3			20	10	10	60			100
6	Seminar	SE302	Seminar	1	1							60	40	100
7	Program core course	GISPC307	GIS LAB-III	2			4					60 40		100
8	Major Project	PR 302	PROJECT	3			6					60 40		100
		TOTAL		20	15	0	10							800

GISPE303: Any one of the two subjects 1. Application of GIS In Environmental Science & Management. 2. Application of GIS In Disaster Management, Resources Management.

GISOE302: Any one of the two subjects 1. Introduction to E-Governance. 2. Environmental Engineering and Science.

STUDENT CONTACT HOURS PER WEEK: 25 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Instrumentation & Control Engineering [ICE]

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

Revised 2022

Curriculum Structure Instrumentation & Control Engineering

			Semest	er	III				
Sl No.	Category	Code No.	Course Title	H	ours I week T		Total Contact	Credits	Marks
1	Program Core Course	ICEPC201	Analog Electronics	2	1	Р	hrs/week 3	3	100
2	Program Core Course	ICEPC203	Electrical Machine and Measurement	2	1		3	3	100
3	Program Core Course	ICEPC205	Fundamentals of Electrical Circuit and network	2	1		3	3	100
4	Program Core Course	ICEPC207	Programming in C	2	1		3	3	100
5	Program Core Course	ICEPC209	Basic Instrumentation & Control	2	1		3	3	100
6	Program Core Course	ICEPC211	Analog Electronics Lab			3	3	1.5	100
7	Program Core Course	ICEPC213	Electrical Machine and Measurement Lab			3	3	1.5	100
8	Program Core Course	ICEPC215	Electrical Circuit and network Lab			3	3	1.5	100
9	Program Core Course	ICEPC217	Programming in C Lab			3	3	1.5	100
10	Internship- I (after Semester II)	SI201						1	100
	TOTAL						27	22	1000

			Semester	IV	r				
Sl No.	Category	Code No.	Course Title		urs l week T		Total Contact hrs/week	Credits	Marks
1	Program Core Course	ICEPC202	Digital Electronics	2	1		3	3	100
2	Program Core Course	ICEPC204	Industrial Instrumentation I	2	1		3	3	100
3	Program Core Course	ICEPC206	Applied Electronics & Electronic Measuring Instruments	2	1		3	3	100
4	Program Core Course	ICEPC208	Process Control	2	1		3	3	100
5	Program Core Course	ICEPC212	Digital Electronics Lab			3	3	1.5	100
6	Program Core Course	ICEPC214	Industrial Instrumentation I Lab			3	3	1.5	100
7	Program Core Course	ICEPC216	Applied Electronics Lab			3	3	1.5	100
8	Program Core Course	ICEPC218	Circuit Simulation lab			3	3	1.5	100
9	Program Core Course	ICEPC2110	Python programming lab			2	2	1	100
10	Program Elective course	ICEPE202	Biomedical Instrumentation Or Electronic Communication Principle	2			2	2	100
	TOTAL						28	21	1000

			Semester	$\overline{\nabla}$	7				
Sl No.	Category	Code No.	Course Title		urs l weel		Total Contact	Credits	Marks
				L	T	P	hrs/week		
1	Program Core Course	ICEPC301	Industrial Instrumentation -II	2	1		3	3	100
2	Program Core Course	ICEPC303	Microprocessor	2	1		3	3	100
3	Program Core Course	ICEPC305	Advanced Process Control	2	1		3	3	100
4	Program Core Course	ICEPC307	Analytical & Optical Instrumentation	2	1		3	3	100
5	Program Core Course	ICEPC311	Industrial Instrumentation -II Lab			2	2	1	100
6	Program Core Course	ICEPC313	Microprocessor Lab			2	2	1	100
7	Program Core Course	ICEPC315	Process Control Lab			2	2	1	100
8	Program Elective course	ICEPE301	Industrial Automation Or Process Plant Instrumentation Or Application of Robotics and CNC	2			2	2	100
9	Program Elective course	ICEPE303	Industrial Electronics or Industrial Buses and Networks	2			2	2	100
10	Internship-II (after Semester IV)	SI301						1	100
11	Major Project	PR301				4	4	2	100
	TOTAL						26	22	1100
		<u> </u>							

			Semester	. /	/[
Sl No.	Category	Code No.	Course Title	,	Hours Per week T P		Total Contact hrs/week	Credits	Marks
1	Program Core Course	ICEPC302	Microcontroller	2	1	P	3	3	100
2	Program Core Course	ICEPC312	Microcontroller Lab			3	3	1.5	100
3	Program Core Course	ICEPC314	PCB Design and control Simulation Lab			3	3	1.5	100
4	Program Elective course	ICEPE302	Renewable energy Or Power Plant Instrumentation & Control	2	1		3	3	100
5	Humanities and Social Science	HS302	Entrepreneurship and Start-ups	3			3	3	100
6	Open Elective course	ICEOE302	Engineering Economics & Project Management	2	1		3	3	100
7	Open Elective course	ICEOE304	Industrial Safety Engineering Or Disaster Management Or Sustainable Development Or Industrial Management	2	1		3	3	100
8	Major Project	PR302	5			4	4	2	100
9	Seminar TOTAL	SE302				2	2 27	1 21	100 900
9							2	1	

Summary									
Sem	Subject	Credit	Marks						
I	10	18	1000						
II	10	20	1000						
III	10	22	1000						
IV	10	21	1000						
V	11	22	1100						
VI	9	21	900						
SUM	60	124	6000						

Note:In semester IV, Minor project has been omitted. Instead of that Circuit Simulation lab and Python Programming has been included.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	I Utai
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Interior Decoration [ID]

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

Revised 2022

West Bengal State Council of Technical and Vocational Education and Skill Development

Third Semester

CI N	Category of	C I N	G	Но	urs per	week	G 111	26 1
Sl. No	course	Code No	Course Title		T	P	Credits	Marks
1	Pro. C.C.	IDPC201	Evolution of Interior Design -I	2	0	0	2	100
2	Pro. C.C.	IDPC203	Materials and Construction-I	2	0	0	2	100
3	Pro. C.C.	IDPC205	Interior Design Fundamentals-II	1	0	0	1	100
4	Pro. C.C.	IDPC207	Services-I	2	0	0	2	100
5	Pro. C.C.	IDPC209	Indian Art	1	0	0	1	100
6	Pro. C.C.	IDPC211	Introduction to Structure	2	1	0	3	100
7	Pro. C.C.	IDPC213	Space Planning	0	0	2	1	100
8	Pro. C.C.	IDPC215	Graphics-I(Lab)	0	0	4	2	100
9	Pro. C.C.	IDPC217	Interior Design & Drawing-I(Lab)	0	0	4	2	100
10	Pro. C.C.	IDPC219	Cad Lab-I(Lab)	0	0	4	2	100
11	Pro. C.C.	IDPC221	Market Study-I(Lab)	0	0	2	1	100
12	Summer	SI201	Summer Internship	0	0	0	1	100
	Internship-I							
		TOTA	AL		27	•	20	1200

Total Contact Periods per week -27

PRO. C.C. - Programme Core Course

West Bengal State Council of Technical and Vocational Education and Skill Development

Fourth Semester

Sl. No.	Category of	Code	Course Title	Но	urs pei	week	Credits	Marks
31. NO.	course	No.	Course Title	L	Т	P	Credits	Marks
1	Pro. C. C.	IDPC202	Evolution of Interior Design -II	2	0	0	2	100
2	Pro. C. C.	IDPC204	Materials & Construction-II	2	0	0	2	100
3	Pro. C. C.	IDPC206	Services-II	2	0	0	2	100
4	Pro. C. C.	IDPC208	Interior Landscape	2	0	0	2	100
5	Pro. C. C.	IDPC210	Design & Drawing-A (6 hr. Exam)	1	0	0	1	100
6	Pro. C. C.	IDPC212	Graphics-(4 hr. Exam)	1	0	0	1	100
7	Pro. C. C.	IDPC214	Graphics-II(Lab)	0	0	4	2	100
8	Pro. C. C.	IDPC216	CAD Lab-II(Lab)	0	0	2	1	100
9	Pro. C. C.	IDPC218	Interior Design & Drawing-II (Lab)	0	0	4	2	100
10	Pro. C. C.	IDPC220	Interior Working Drawing-I(Lab)	0	0	4	2	100
11	Pro. C. C.	IDPC222	Market Study-II	0	0	2	1	100
12	Pro. E. C.	IDPE224	a. Low Cost Building	2	0	0	2	100
13	Minor Project	PR202	Furniture Design	0	0	2	1	100
		TOTAL			30		21	1300

Total Contact Periods per week-30

PRO. E.C. - Programme Elective Course-1 No

West Bengal State Council of Technical and Vocational Education and Skill Development

Fifth Semester

Sl. No.	Category of	Code No.	Course Title	Ho	urs pei	week	Credits	Marks
	course			L	T	P		
1	Pro. C. C.	IDPC301	Estimating, Specification and Costing	3	0	0	3	100
2	Pro. C. C.	IDPC303	Materials & Construction-III	3	0	0	3	100
3	Pro. C. C.	IDPC305	Services-III	3	0	0	3	100
4	Pro. E. C.	IDPE307	Elective Subject-I A. Illumination B. Vaastu	2	0	0	2	100
5	Pro. E. C.(Lab)	IDPE309	Elective Sessional-I A. Illumination B. Vaastu	0	0	4	2	100
6	Pro. C. C. (Lab)	IDPC311	Interior Design & Drawing- II(Lab)	0	0	4	2	100
7	Pro. C. C. (Lab)	IDPC313	Interior Working Drawing-II(Lab)	0	0	4	2	100
8	Major Project	PR302	Project Part-A	0	0	4	2	100
9	Summer Internship-II(6 weeks)	SI301	Summer Internship	0	0	0	1	100
		TOTAL			27		20	900

Total Contact Periods per week -27

PRO. E.C. - Programme Elective Course-2 Nos.

West Bengal State Council of Technical and Vocational Education and Skill Development

Sixth Semester

Sl. No.	Category of	Code No.	Course Title	Но	urs per	week	Credits	Marks
	course			L	T	P		
1	Pro. C. C.	IDPC302	Interior Maintenance	2	0	0	2	100
2	Pro. C. C.	IDPC304	Design & Drawing-B (6 hr. Exam)	0	0	2	1	100
3	Pro. E. C.	IDPE306	Elective Subject-II a. Interior of Heritage Structures b. Modular Design	2	0	0	2	100
4	Open Elective -I	IDOE308	Engineering Economics and Project Management	3	0	0	3	100
5	Open Elective -II	IDOE310	a.Environmental Engineering and Science b.Disaster Management	3	0	0	3	100
6	Humanities and Social Science	HS302	Entrepreneurship and Start-ups	3	1	0	4	100
7	Pro. C. C.	IDPC312	Interior Working Drawing-III(Lab)	0	0	4	2	100
8	Major Project	PR302	Project Part -B	0	0	6	3	100
9	Seminar	SE302	Seminar on thematic interior work	1	0	0	1	100
		TOTAL			27		21	900

Total Contact Periods per week -27

PRO. E.C. - Programme Elective Course-1 No

OE-Open Elective Course -2 Nos.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	I Utai
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Leather Goods Technology [LGT]

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

Revised 2022

	В	RANCH:L	EATHER GOODS TECHHNOLOGY , SEM	ESTER:3						
					Cla	ss/We	ek			
SLNO	CATEGORY	CODE	COURSE TITLE	CREDITS	L	Т	Р	Contact Hours	Marks	
1	Prog core	LGTPC301	History of Art and Fashion	2	2	0	0	2	100	
2	Prog core	LGTPC302	Designing Principles and Development	3	2	1	0	3	100	
3	Prog core	LGTPC303	Fashion Studies for leather goods	2	2	1	0	3	100	
4	Prog core	LGTPC304	Fundamental of leather Goods Manufacturing	3	3	0	0	3	100	
5	Prog core	LGTPC305	Essential management Studies for Leather Goods Industry	2	3	0	0	3	100	
6	Prog core	LGTPC306	Creative, Technical Drawing & Pattern Making -1	2	0	0	6	6	100	
7	Prog core	LGTPC307	Leather Goods Making Workshop-1	2	0	0	6	6	100	
8	Prog core	LGTPC308	Essential Computer Application - 1	1.5	0	0	3	3	100	
9	Prog core	LGTPC309	Communication Skill - II	1.5	0	0	3	3	100	
10	S-Intern-I	SI201	Internship Programme (Tannery)	2	0	0	1	1	100	
	TOTAL 21 33 1000									

STUDENT CONTACTHOURSPERWEEK:33 Hrs. TheoriesandPracticalPeriod of 60Minuteseach.

L-Lecture -Tutorial -Practical, INT- Internal Assessment AS/QZ - Assignment/Quiz ATD- Attendance ESE- End SemesterExam, PIA-Practical Internal Assessment, PEA-PracticalExternal Assessment.

	В	RANCH: L	EATHER GOODS TECHHNOLOGY SEME	STER: 4					
					Cla	ss/We	ek		
SL NO	CATEGORY	CODE	COURSE TITLE	CREDITS	L	Т	Р	Contact Hours	Marks
1	Prog core	LGTPC401	Designing problems and Solutions	2	2	0	0	2	100
2	Prog core	LGTPC402	Production planning and quality assurance	2	2	1	0	3	100
3	Prog core	LGTPC403	Leather Goods Costing	2	2	1	0	3	100
4	Prog core	LGTPC404	Leather Goods Construction Technique	3	3	0	0	3	100
5	Prog core	LGTPC405	Leather Goods Marketing & Merchandising	2	3	0	0	3	100
6	Prog Elec	LGTPE1	PROGRAMME ELECTIVE I	2	2	0	0	2	100
7	Prog core	LGTPC406	Leather Goods Making Workshop -II	1.5	0	0	3	3	100
8	Prog core	LGTPC407	Creative, Technical Drawing & Pattern Making -II	1.5	0	0	3	3	100
9	Prog core		Personality Development with Communication skill	1.5	0	0	3	3	50
10	Prog core	LGTPC409	Essential Computer Application-II	1.5	0	0	3	3	50
11	Min Pro	PR 202	Project on Hard Leather Goods	2	0	0	4	4	100
			TOTAL	21				32	1000

STUDENT CONTACT HOURS PER WEEK: 33 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

PROGRAMME ELECTIVE I: Fundamental of Footwear Technology | Fundamental of Leather Garments

	BRANCH: LEATHER GOODS TECHHNOLOGY SEMESTER: 5										
					Cla	ss/We	ek				
SL NO	CATEGORY	CODE	COURSE TITLE	CREDITS	L	Т	Р	Contact Hours	Marks		
1	Prog core	LGTPC501	Leather Goods Machinery	2	3	0	0	3	100		
2	Prog core	LGTPC502	Material Science for Leather Goods II	3	2	1	0	3	100		
3	Prog Elec	LGTPE2	PROGRAMME ELECTIVE II	3	2	1	0	3	100		
4	Prog Elec	LGTPE3	PROGRAMME ELECTIVE III	3	3	0	0	3	100		
5	Open Elec	LGTOE1	OPEN ELECTIVE I	3	3	0	0	3	100		
6	Prog core	LGTPC504	Leather goods Lab testing & Analysis	2	0	1	3	4	100		
7	Prog core	LGTPC505	Fashion and Product Photography and Styling	2	0	0	4	4	100		
8	S-int-2	SI301	Summer Internship II	1	0	0	0	-	100		
9	9 Maj Pro PR302 PROJECT					0	2	2	100		
		20				25	900				

PROGRAMME ELECTIVE II: Creative & Technical Drawing (Footwear)/ Leather Garment Designing

PROGRAMME ELECTIVE III: Retail Management | E-Commerce

OPEN ELECTIVE I Eng. Economics and Accountancy

STUDENT CONTACT HOURS PER WEEK: 32 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

	BRANCH: LEATHER GOODS TECHHNOLOGY SEMESTER: 6										
					Cla	ss/We	ek				
SL NO	CATEGORY	CODE	COURSE TITLE	CREDITS	L	Т	Р	Contact Hours	Marks		
1	Prog core	LGTPC601	Leather Goods Packaging and Labeling	3	2	1	0	3	100		
2	Pro-Ele	LGTPE3	PROGRAMME ELECTIVE IV	3	2	1	0	3	100		
3	Humanities	HS302	Entrepreneurship and Start-ups	3	3	0	0	3	100		
4	Prog core	LGTPE602	Fundamentals of Safety Leather Gloves	2	3	0	0	3	100		
5	Op-elec	LGTOE2	OPEN ELECTIVE II	3	3	0	0	3	100		
6	Semi	SE302	Seminar	1	1	0	0	1	100		
7	Prog core	LGTPC603	Port Folio Development	2	0	0	4	4	100		
8	Maj Pro	PR 302	PROJECT	3	0	0	6	6	100		
			TOTAL	20				26	800		

PROGRAMME ELECTIVE IV:Basic Pattern Making (Footwear) / Basic Pattern Making (Leather Garments)

OPEN ELECTIVE II Export Import Management | Industrial Management and Safety

STUDENT CONTACT HOURS PER WEEK: 27 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T – Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - End Semester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	End Semester Exter Assessment	Total		
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30			20	20	100

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT

[A Statutory Body under West Bengal Act XXVI of 2013] (Formerly West Bengal State Council of Technical Education)

"Karigori Bhavan", 4th Floor, Plot No. B/7, Action Area-III, New Town, Rajarhat, Kolkata-700160



CURRICULUM STRUCTURE
TEACHING AND EXAMINATION SCHEME
FOR
DIPLOMA IN MECHANICAL ENGINEERING COURSE

DURATION OF COURSE: 6 SEMESTERS

CURRICULUM STRUCTURE FOR PART-II (SEMESTER 3) OF THE FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

BRAN	ICH: MECHANIC	AL ENGINEE	RING				Se	mester 3		
SL No	Category	Code No	Course Title	L	Р	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks
1	Program core	MEPC201	Mechanical Engineering Drawing	2	-	2	2	100	40	60
2	Program core	MEPC203	Mechanical Engineering Materials	3	-	3	3	100	40	60
3	Program core	MEPC205	Strength of Materials	3	-	3	3	100	40	60
4	Program core	MEPC207	Manufacturing Processes-I	3	-	3	3	100	40	60
5	Program core	MEPC209	Thermal Engineering -I	3	-	3	3	100	40	60
6	Program core	MEPC211	Mechanical Engineering Drawing Practice	-	4	4	2	100	60	40
7	Program core	MEPC213	Materials Testing Lab	-	2	2	1	100	60	40
8	Program core	MEPC215	Thermal Engineering -I Lab	-	2	2	1	100	60	40
9	Program core	MEPC217	Manufacturing Processes -I Practice	-	4	4	2	100	60	40
10	Internship	SI201	Internship-I	-	-	0	1	100	60	40
	Total					26	21	1000	500	500

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks-500; ESE Marks-500)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	20
Internship 1	1
Total	21

CURRICULUM STRUCTURE FOR PART-II (SEMESTER 4) OF THE FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

BRAN	ICH: MECHAN	ICAL ENGINE	RING				SEM	ESTER 4		
SL No	Category	Code No	Course Title	L	Р	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks
1	Program Core	MEPC202	Theory of Machine	3		3	3	100	40	60
2	Program Elective	MEPE202	Program Elective (with Lab)	2		2	2	100	40	60
3	Program Core	MEPC204	Manufacturing Process-II	3		3	3	100	40	60
4	Program Core	MEPC206	Thermal Engineering-II	3		3	3	100	40	60
5	Program Core	MEPC208	Engineering Metrology	3		3	3	100	40	60
6	Program Core	MEPC210	Computer Aided Machine Drawing Practice		3	3	1.5	100	60	40
7	Program Core	MEPC212	Thermal Engineering-II Lab		2	2	1	100	60	40
8	Program Core	MEPC214	Engineering Metrology and Mechanical Measurement Lab		2	2	1	100	60	40
9	Program Elective	MEPE204	Program Elective Lab		2	2	1	100	60	40
10	Minor Project	PR202	Minor Project		3	3	1.5	100	60	40
	,	,	Total	12	26	20	1000	500	500	

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1000 (Internal Marks-500; ESE Marks-500)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Elective	3
Program Core	15.5
Project	1.5
Total	20

Program Elective (with Lab)		Total Credit
1. Refrigeration & Air Conditioning (Sub code: MEPE202/1)	A	•
2.Tool Engineering (Sub code: MEPE202/2)	Any one	3

CURRICULUM STRUCTURE FOR PART-III (SEMESTER 5) OF THE FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

BRAN	ICH: MECHANI	CAL ENGINE	ERING				SEN	/IESTER 5			
SL No	Category	Code No	Course Title	L	Р	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks	
1	Program Core	MEPC301	Power Engineering	3		3	3	100	40	60	
2	Program Core	МЕРС303	Advanced Manufacturing Processes	3		3	3	100	40	60	
3	Program Core	МЕРС309	Fluid Mechanics and Machinery	3		3	3	100	40	60	
4	Program Elective	MEPE301	Program Elective (without Lab)	2		2	2	100	40	60	
5	Program Elective	МЕРЕЗОЗ	Program Elective (with Lab)	2		2	2	100	40	60	
6	Program Core	MEPC311	Power Engineering Lab		2	2	1	100	60	40	
7	Program Core	MEPC313	Advance Manufacturing Processes Lab		2	2	1	100	60	40	
8	Program Core	MEPC315	Fluid Mechanics and Machinery Lab		2	2	1	100	60	40	
9	Program Elective	MEPE305	Program Elective Lab (for Sl. No. 5)		2	2	1	100	60	40	
10	Major Project	PR301	Major Project		2	2	1	100	60	40	
11	Internship	SI301	Internship - II	•	-		1	100	100	0	
	Total 13 10 23 19 1100 600 500										

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-16 hours; Practical-10 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-1100 (Internal Marks-600; ESE Marks-500)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	12
Program Elective	5
Project	1
Internship 2	1
Total	19

Program Elective (without Lab)		Total Credit
1. Power Plant Engineering (Sub code: MEPE301/1) Any		2
2. Material Handling System (Sub code: MEPE301/2)	E 301/2) one	
Program Elective (with Lab)		
1. Computer Aided Design & Manufacturing (Sub code: MEPE303/1)	Any	2
2. Automobile Engineering (Sub code: MEPE303/2)	one	3

CURRICULUM STRUCTURE FOR PART-III (SEMESTER 6) OF THE FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

BRAN	CH: MECHANIC	AL ENGINEER	ING				SE	MESTER 6		
SL No	Category	Code No	Course Title	L	Р	Total Class per week	Credit	Full marks	Internal Marks	ESE Marks
1	Program Core	MEPC302	Design of Machine Elements	3		3	3	100	40	60
2	Program Core	MEPC304	Work, Organization & Management	3		3	3	100	40	60
3	Program Elective	MEPE302	Program Elective (with Lab)	2		2	2	100	40	60
4	Humanities and Social Science	HS302	Entrepreneurship and start-ups	3		3	3	100	40	60
5	Open Elective	MEOE302	Open Elective (Compulsory)	3		3	3	100	40	60
6	Open Elective	MEOE304	Open Elective	3		3	3	100	40	60
7	Program Elective	MEPE304	Program Elective Lab		2	2	1	100	60	40
8	Major Project	PR302	Major Project		6	6	3	100	60	40
9	Seminar	SE302	Seminar	1		1	1	100	100	0
	•	Total		18	8	26	22	900	460	440

STUDENT CONTACT HOURS PER WEEK: 26hours (Lecture-18 hours; Practical-8 hours)

Theory and Practical Period of 60 minutes each.

FULL MARKS-900 (Internal Marks-460; ESE Marks-440)

L-Lecture, P-Practical, ESE- End Semester Examination

Credit Distribution	Credit
Program Core	6
Program Elective	3
Open Elective	6
Project + Seminar	4
Humanities and Social Science	3
Total	22

SI. No.	Program Elective (with Lab)	Credit	
1.	Mechatronics (Sub code: MEPE302/1)	A	2
2.	Oil Hydraulics & Pneumatics (Sub code: MEPE302/2)	Any one	3

SI. No.	Open Elective	Credit	
1.	Engineering Economics Project Management (<i>Compulsory for all Branc</i> [Sub code: MEOE302]	3	
2.	Electrical Machines& Controls(Sub code: MEOE304/1)	3	
3.	Environment Engineering & Science(Sub code: MEOE304/2)		3

FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

Sl.No.	Category	Semester	Title of Course	Credit
1	Program Core	Sem 3	Mechanical Engineering Drawing	2
2	Program Core	Sem 3	Mechanical Engineering Materials	3
3	Program Core	Sem 3	Strength of Materials	3
4	Program Core	Sem 3	Manufacturing Processes- I	3
5	Program Core	Sem 3	Thermal Engineering - I	3
6	Program Core	Sem 3	Mechanical Engineering Drawing Practice	2
7	Program Core	Sem 3	Materials Testing Lab	1
8	Program Core	Sem 3	Thermal Engineering-I Lab	1
9	Program Core	Sem 3	Manufacturing Processes-I Practice	2
10	Program Core	Sem 4	Theory of Machine	3
11	Program Core	Sem 4	Manufacturing Process-II	3
12	Program Core	Sem 4	Thermal Engineering -II	3
13	Program Core	Sem 4	Engineering Metrology	3
14	Program Core	Sem 4	Computer Aided Machine Drawing Practice	1.5
15	Program Core	Sem 4	Thermal Engineering -II Lab	1
16	Program Core	Sem 4	Engineering Metrology and Measurement Lab	1
17	Program Core	Sem5	Power Engineering	3
18	Program Core	Sem 5	Advanced Manufacturing Processes	3
19	Program Core	Sem5	Work, Organisation & Management	3
20	Program Core	Sem5	Fluid Mechanics and Machinery	3
21	Program Core	Sem5	Power Engineering Lab	1
22	Program Core	Sem5	Advance Manufacturing Processes Lab	1
23	Program Core	Sem5	Fluid Mechanics and Machinery Lab	1
24	Program Core	Sem 6	Design of Machine Elements	3
			Total:	53.5

FULL-TIME DIPLOMA COURSES IN MECHANICAL ENGINEERING

L	List of Program Elective (PE) Subjects			Credit
	1. Refrigeration & Air Conditioning	4		
	2.Tool Engineering	4	Any One	3
With Lab (Any one in each	3. Computer Aided Design & Manufacturing	5		
Semester)	4. Automobile Engineering	5	Any One	3
·	5. Mechatronics	6		
	6. Oil Hydraulics & Pneumatics	6	Any One	3
Without Lab	1. Power Plant Engineering			
(for Semester 5) [Any one]	2. Material Handling System	5	Any One	2

Total: 11

List of Open Elective (OE)Subjects			Credit
Any one for Semester 6 1. Electrical Machines & Controls		2	
	2. Environment Engineering & Science	Any one	3
Compulsory for Semester 6	1. Engineering Economics & Project Management		3

Total: 6

Semester wise and course category wise credit distribution						
	53	S4	<i>S5</i>	<i>S6</i>	Total	
Program Core	20	15.5	12	6	53.5	
Program Elective		3	5	3	11	
Open Elective				6	6	
Project + Internship + Seminar	1	1.5	2	4	8.5	
Humanities and Social Science				3	3	
Semester wise Total	21	20	19	22	82	
Total credit allotted in S3, S4, S5 & S6:					82	
Total credit allotted in SEM 1 & 2:					38	
Grand Total:					120	

Semester wise marks distribution:

Semester wise Marks Distribution				
Semester 3	1000			
Semester 4	1000			
Semester 5	1100			
Semester 6	900			

Total: 4000

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	End Semester Exter Assessment	Total		
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	30 20 10		20	20	100

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



Curriculum Structure of

Diploma in Mechanical Engineering (Production) [MEP]

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

Revised 2022

CURRICULAM STRUCTURE: 3RD SEM

SL NO.	CATEGORY	Code No	Course Title	L	P	TOTAL CLASS PER WEEK	CREDIT	FULL MARKS	INTERNAL MARKS	ESE MARKS
1	Program core	MEPC201	MECHANICAL ENGINEERING DRAWING	2	0	2	2	100	40	60
2	Program core	MEPC203	MECHANICAL ENGG. MATERIALS	3	0	3	3	100	40	60
3	Program core	MEPC205	STRENGTH OF MATERIALS	3	0	3	3	100	40	60
4	Program core	ME(P)PC207	INDUSTRIAL PRODUCTION TECHI	3	0	3	3	100	40	60
5	Program core	ME(P)PC209	HEAT POWER ENGGI	3	0	3	3	100	40	60
6	Program core	MEPC211	M.E. DRAWING PRACTICE	0	4	4	2	100	40	60
7	Program core	MEPC213	MATERIALS TESTING LAB	0	2	2	1	100	40	60
8	Program core	ME(P)PC215	HEAT POWER ENGGLAB	0	2	2	1	100	40	60
9	Program core	ME(P)PC217	INDUSTRIAL PRODUCTION TECH 1 LAB	0	4	4	2	100	40	60
10	INTRENSHIP- 1(4WEEKS)AFTER SEM-II	S1201	INTERNSHIP AFTER 2ND SEM	0	0	0	1	100	40	60
			TOTAL	14	12	26	21	1000	400	600

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours) Theory and Practical Period of 60 minutes each.
FULL MARKS-1000 (Internal Marks-500; ESE Marks-500)
L-Lecture, P-Practical, ESE- End Semester Examination

CURRICULAM STRUCTURE: 4TH SEM

SL NO.	CATEGORY	CODE NO	COURSE TITLE	_L	_ <u>P</u> _	TOTAL CLASS PER WEEK	CREDIT	FULL MARKS	INTERNA L MARKS	ESE MARKS
1	Program core	MEPC202	THEORY OF MACHINES	3	0	3	3	100	40	60
2	Program Elective	ME(P)PE202	PROGRAM ELECTIVE(with lab)	2	0	2	2	100	40	60
3	Program core	ME(P)PC204	INDUSTRIAL PRODUCTION TECH II	3	0	3	3	100	40	60
4	Program core	ME(P)PC206	HEAT POWER ENGGII	3	0	3	3	100	40	60
5	Program core	MEPC208	ENGINEERING METROLOGY	3	0	3	3	100	40	60
6	Program core	MEPC210	COMPUTER AIDED MACHINE DRAWING PRACTICE	0	3	3	1.5	100	60	40
7	Program core	ME(P)PC212	INDUSTRIAL PRODUCTION TECHNOLOGY -II LAB	0	2	2	1	100	60	40
8	Program core	MEPC214	ENGINEERING METROLOGY AND MECHANICAL MEASUREMENTLAB	0	2	2	1	100	60	40
		ME(P)PE204	PE LAB	0	2	2	1	100	60	40
10	MINOR PROJECT	PR202	MINOR PROJECT	0	3	3	1.5	100	60	40
			TOTAL	14	12	26	20	1000	500	500

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours) Theory and Practical Period of 60 minutes each.
FULL MARKS-1000 (Internal Marks-500; ESE Marks-500)
L-Lecture, P-Practical, ESE- End Semester Examination

CURRICULAM STRUCTURE: 5TH SEM

SL NO.	CATEGORY	Code No	Course Title	L	_P_	HOURS /WEEK	CREDIT	MARKS	INTERNA L MARKS	ESE MARKS
1	Program core	MEPC301	POWER ENGINEERING	3	0	3	3	100	40	60
2	Program core	ME(P)PC303	AUTOMATION AND CNC MACHINES	3	0	3	3	100	40	60
3	Program core	MEPC305	WORK,ORGANISATION AND MANAGEMENT	3	0	3	3	100	40	60
4	Program core	MEPC309	FLUID MECHANICS AND MACHINERY	3	0	3	3	100	40	60
5	Program Elective	ME(P)PE301	PE(FROM THE LIST)(WITHOUT LAB)	2	0	2	2	100	40	60
6	Program Elective	ME(P)PE303	PE(FROM THE LIST)(WITH LAB)	2	0	2	2	100	40	60
7	Program core	MEPC311	POWER ENGINEERING LAB	0	2	2	1	100	60	40
8	Program core	ME(P)PC313	AUTOMATION AND CNC MACHINES LAB	0	2	2	1	100	60	40
9	Program core	MEPC315	FLUID MECHANICS AND MACHINERY LAB	0	2	2	1	100	60	40
10	Prrogram Elective	ME(P)PE305	PE LAB FOR COURSE SL.6	0	2	2	1	100	60	40
11	Major Project	PR301	MAJOR PROJECT	0	2	2	0	0	0	0
12	INTRENSHIP- 1(4WEEKS)AFTER SEM-IV	S1301	INTERNSHIP II	0	0	0	1	100	60	40
			TOTAL	16	10	26	21	1100	540	560

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-16 hours; Practical-10 hours) Theory and Practical Period of 60 minutes each.
FULL MARKS-1100 (Internal Marks-540; ESE Marks-560)
L-Lecture, P-Practical, ESE- End Semester Examination

CURRICULAM STRUCTURE: 6TH SEM

SL NO.	CATEGORY	Code No	Course Title	L	Р	TOTAL CLASS/ WEEK	CREDIT	MARKS	INTERNAL MARKS	ESE MARKS
1	Program Core	MEPC302	DESIGN OF MACHINE ELEMENTS	3	0	3	3	100	40	60
2	Program Elective	ME(P)PE302	PROGRAM ELECTIVE (FROM THE LIST) (WITH LAB)	2	0	2	2	100	40	60
3	Humanities and social science	HS302	ENTREPRENEURSHIP AND START UPS	3	0	3	3	100	40	60
4	Open Elective	ME(P)OE302	OPEN ELECTIVE (FROM THE LIST) (WITH LAB)	2	0	2	2	100	40	60
5	Open Elective	ME(P)OE304	OPEN ELECTIVE (FROM THE LIST) (WITHOUT LAB)	3	0	3	3	100	40	60
6	Program Elective	ME(P)PE304	PROGRAM ELECTIVE LAB AS PER SL.NO.2	0	2	2	1	100	60	40
7	Open Elective	ME(P)0E306	OPEN ELECTIVE LAB AS PER SL.NO.4	0	2	2	1	100	60	40
9	Major Project	PR302	MAJOR PROJECT	0	6	6	4	100	60	40
10	Seminar	SE302	SEMINAR	1	0	1	1	100	60	40
			TOTAL	14	10	24	20	900	440	460

STUDENT CONTACT HOURS PER WEEK: 26 hours (Lecture-14 hours; Practical-12 hours) Theory and Practical Period of 60 minutes each.
FULL MARKS-1000 (Internal Marks-500; ESE Marks-500)
L-Lecture, P-Practical, ESE- End Semester Examination

	Program Con	re Subjects for Dif	ferent Semesters	
Sl. No.	Category	Semester	Title of Course	Credit
1	Program Core	Sem 3	Mechanical Engineering Drawing	2
2	Program Core	Sem 3	Mechanical Engineering Materials	3
3	Program Core	Sem 3	Strength of Materials	3
4	Program Core	Sem 3	Industrial Production Technology -I	3
5	Program Core	Sem 3	Heat Power EnggI	3
6	Program Core	Sem 3	Mechanical Engineering Drawing Practice	2
7	Program Core	Sem 3	Materials Testing Lab	1
8	Program Core	Sem 3	Heat Power Engg.Lab	1
9	Program Core	Sem 3	Industrial Production Technology-I Lab	2
10	Program Core	Sem 4	Theory of Machines	3
11	Program Core	Sem 4	Industrial Production Technology-II	3
12	Program Core	Sem 4	Heat Power EnggII	3
13	Program Core	Sem 4	Engineering Metrology	3
14	Program Core	Sem 4	Computer Aided Machine Drawing Practice	1.5

15	Program Core	Sem 4	Industrial Production Technology -II Lab	1
16	Program Core	Sem 4	Engineering Metrology and Measurement Lab	1
17	Program Core	Sem5	POWER ENGINEERING	3
18	Program Core	Sem 5	Automation and CNC Machines	3
19	Program Core	Sem5	Work, Organisation & Management	3
20	Program Core	Sem5	Fluid Mechanics and Machinery	3
21	Program Core	Sem5	POWER ENGINEERING LAB	1
22	Program Core	Sem5	Automation and CNC Machines Lab	1
23	Program Core	Sem5	Fluid Mechanics and MachineryLab	1
24	Program Core	Sem 6	Design of Machine Elements	3
		Total:		53.5

List of Pro	Credit	
	1. Tool Engg. (Sem-4)	3
	2.Refrigeration and Air-conditioning (Sem-4)	3
With Lab (Any one in each Semester)	3. Computer Aided Design & Manufacturing - (Sem 5)	3
(Any one in each semester)	4. Automobile Engineering - (Sem 5)	3
	5. Material Handling - (Sem 6)	3
	6. Industrial Robotics (Sem 6)	3
Without Lab (for Semester	1. Power Plant Engineering	2
5) [Any one]	2. Computer Integrated Manufacturing	2

List of O	pen Elective (OE) Courses	Credit
With Lah (Compaton ()	1. Electrical Machines & Controls	3
With Lab (Semester 6)	2. Environment Engineering & Science	3
Without Lab (Semester 6)	1. Engineering Economics & Project Management	3

Semester wise and course category	Semester wise and course category wise credit distribution								
	S3	S4	S5	S6	Total				
Program Core	20	15.5	15	3	53.5				
Program Elective		3	5	3	11				
Open Elective				6	6				
Project + Internship + Seminar	1	1.5	1	5	8.5				
Humanities and Social Science				3	3				
Semester wise Total	21	20	21	20	82				
Total credit allotted in S3, S	4, S5 &	S6			82				
Total credit allotted in SEM 1 & 2									
Grand Total									

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Examination	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



(A Statutory Body under West Bengal Act XXVI of 2013)

Technical Education Division
[Diploma in Engineering & Technology]

Curriculum Structure & Syllabus

of

Diploma in Medical Laboratory Technology [MLT]

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

Revised 2022

(Technical Education Division)

Curriculum Structure for Part-II, (2nd Year) of the Full Time Diploma in MLT

Program: Medical Laboratory TechnologyProgram Code: MLTProgram Level: Diploma in Engineering & TechnologyDuration: 3 Years

		SEMES	TER -	- 3rc	d								
Sr				Co	ntac	et	Ev	valuatio	on / Ass	essme	nt Sche	eme	Full
No	Course Code	Course Name	Credit	Hr./Wee			Inte	rnal		Ext	ernal	Mar	
			C	k				T		1		1	ks
				L	T	P	CA	TA	MST	P	P	ESE	
		Theoretical											
1	MLTPC301	Human Anatomy & Physiology	3	3	-	1	10	10	20	-	-	60	100
2	MLTPC302	Hematology & Body Fluids	2	2	-	-	10	10	20	-	-	60	100
3	MLTPC303	Biomedical Instrumentation -I	3	3	-	-	10	10	20	-	-	60	100
4	MLTPC304	Analog Electronics	2	2	-	-	10	10	20	-	-	60	100
5	MLTPC305	Electrical & Electronics Measurement	2	2	-	-	10	10	20	-	-	60	100
6	MLTPC306	Programming in C	2	2	-		10	10	20	-	-	60	100
		Sessional											
7	MLTPC301P	Human Anatomy & Physiology Lab	1		-	2	-	-	-	60	40	-	100
8	MLTPC302P	Hematology & Body Fluids Lab	1		-	2	-	-	-	60	40	-	100
9	MLTPC303P	Biomedical Instrumentation –I Lab.	1		-	2	-	-	-	60	40	-	100
10	MLTPC304P	Analog Electronics Lab	1		-	2	-	-	-	60	40	-	100
11	MLTPC305P	Electrical & Electronics Measurement	1		-	2	-	-	-	60	40	-	100
		Lab.											
12	MLTPC306P	Programming in C Lab.	1		-	2	-	-	-	60	40	-	100
13	*I301	Internship-I	1	-	-	-	-	-	-	60	*40	-	100
		TOTAL:	21										

		SEMEST	ER –	4th	l											
Sr			- 1	С	onta	ct	Ev	aluatio	n / Asse	ssmer	nt Sch	eme	Full			
N	Course Code	Course Name	edit	Credit k		Hr./W		Hr./Wee			Inte	rnal		Ext	ternal	Mar
О			Cr	k	T	D	CA	T.A.	MOT	D	D	ECE	ks			
				L	T	P	CA	TA	MST	P	P	ESE				
		Theoretical														
1	MLTPC407	Clinical Biochemistry & Biophysics	2	2	-	-	10	10	20	-	-	60	100			
2	MLTPC408	Serology & Histopathology	2	2	-	-	10	10	20	-	-	60	100			
3	MLTPC409	Biomedical Instrumentation -II	3	3	-	-	10	10	20	-	-	60	100			
4	MLTPC410	Diagnostic Techniques	2	2	-	-	10	10	20	-	-	60	100			
5	MLTPC411	Digital Electronics	2	2	-	-	10	10	20	-	-	60	100			
6	MLTPE41#	Elective-I:	2	2	-	-	10	10	20	-	-	60	100			
		Sessional														
7	MLTPC407P	Clinical Biochemistry & Biophysics Lab.	1		-	2	-	-	-	60	40	-	100			
8	MLTPC408P	Serology & Histopathology Lab.	1		-	2	-	-	-	60	40	-	100			
9	MLTPC409P	Biomedical Instrumentation –II Lab.	1		-	2	-	-	-	60	40	-	100			
10	MLTPC410P	Diagnostic Techniques Lab.	1		-	2	-	-	-	60	40	-	100			
11	MLTPC411P	Digital Electronics Lab.	1		-	2	-	-	-	60	40	-	100			
12	*PR401	Minor Project	2		-	4	-	-	-	60	40	-	100			
			20													

Code System:

Program (i.e. MLT) _Course Category (i.e. PC) _Semester (i.e. 3/4/5/6) _ Course No (i.e. 01, 02, ...)

Program (i.e. MLT) _Course Category (i.e. PC) _Semester (i.e. 3/4/5/6) _ Course No (i.e. 01, 02, ...) _ P (for Practical)



(Technical Education Division)

Curriculum Structure for Part-III, (3rd Year) of the Full Time Diploma in MLT

Program: Medical Laboratory Technology
Program Level: Diploma in Engineering & Technology
Duration: 3 Years

		SEMI	ESTE	\mathbf{R} –	5th								
Sr			ī	Co	ntact		Evaluation / Assessment Scheme						Full
N	Course Code	Course Name	redit	Hr.	/We	ek		Inte	rnal		Ext	ernal	Ma
О			Ü	L	T	P	CA	TA	MST	P	P	ESE	rks
		Theoretical											
1	MLTPC512	Clinical Microbiology & Parasitology	3	3	-	-	10	10	20	-	-	60	100
2	MLTPC513	Medical Imaging	2	2	-	-	10	10	20	-	-	60	100
3	MLTPC514	Advanced Bio-Medical Engineering	3	2	1	-	10	10	20	-	-	60	100
4	MLTPC515	Microprocessor & Microcontroller	3	2	1	-	10	10	20	-	-	60	100
5	MLTPE52#	Elective-II:	2	2	-	-	10	10	20	-	-	60	100
6	MLTPE53#	Elective-III:	2	2	-	-	10	10	20	-	-	60	100
		Sessional											
7	MLTPC512P	Clinical Microbiology & Parasitology Lab	1		-	2	-	-	-	60	40	-	100
8	MLTPC513P	Medical Imaging Lab	1		-	2	-	-	-	60	40	-	100
9	MLTPC514P	Bio-Medical Engineering Lab	1		-	2	-	-	-	60	40	-	100
10	MLTPC515P	Microprocessor & Microcontroller Lab	1		-	2	-	-	-	60	40	-	100
11	*PR502	Major Project	-		-	2	-	-	-	-	-	-	-
12	*I502	Internship-II	1	-	-	-	-	-	-	60	*40	-	100
		TOTAL:	20										

		SEME	STE	R –	6th								
Sr			Contact		Ev	aluatio	n / Asse	ssmer	nt Sch	Full			
N	Course Code	Course Name	Credit	Hr	./We	ek		Inte	rnal		Ex	ternal	Ma
О			S	L	T	P	CA	TA	MST	P	P	ESE	rks
		Theoretical											
1	MLTPC616	Installation & Maintenance of Medical Equipment	3	2	1	-	10	10	20	-	-	60	100
2	MLTPE64#	Elective-IV:	2	2	-	-	10	10	20	-	-	60	100
3	*OE611	Open Elective-I:	3	3	-	-	10	10	20	-	-	60	100
4	*OE62#	Open Elective-II:	3	3	-	-	10	10	20	-	-	60	100
5	*HS604	Entrepreneurship and Start-ups	4	3	1	-	10	10	20	-	-	60	100
		Sessional											
6	MLTPC616P	Installation & Maintenance of Medical Equipment Lab.	1	-	-	2	-	-	-	60	40	-	100
7	*PR603	Major Project	4		-	6	-	-	-	60	40	-	100
8	*SE601	Seminar	1	-	-	-	-	-	-	60	40	=	100
		TOTAL:	21										

Code System:

Program (i.e. MLT) _Course Category (i.e. PC) _Semester (i.e. 3/4/5/6) _ Course No (i.e. 01, 02, ...)

Program (i.e. MLT) _Course Category (i.e. PC) _Semester (i.e. 3/4/5/6) _ Course No (i.e. 01, 02, ...) _ P (for Practical)



(Technical Education Division)

		Program Elective (PE) Cou	rse					
Sr N	Course Code Course Name		Semester	Credit		itact Week		Full
О			Schlester	ິວ	L	T	P	Marks
	Elec	ctive-I (Any one course to be selected)	4 th	2	2	-	-	100
1	MLTPE411	Biomaterial						
2	MLTPE412	Tissue Engineering						
	Elec	etive-II (Any one course to be selected)	5 th	2	2	-	-	100
3	MLTPE521	Artificial Organs & Rehabilitation Engineering						
4	MLTPE522	Basic Bioinformatics						
	Elec	tive-III (Any one course to be selected)	6 th	2	2	-	-	100
5	MLTPE631	Hospital Management						
6	MLTPE632	Medical Image Processing						
	Elect	tive-IV (Any one course to be selected)	6 th	2	2	-	-	100
7	MLTPE641	Nano-Technology & Drug Delivery						
8	MLTPE642	Micro-Electro Mechanical System						

Code System:

Program (i.e. MLT) _Course Category (i.e. PE) _Semester (i.e. 4/5/6) _ Elective No (i.e. 1/2/3/4) _ Course No (i.e. 1, 2, ...)

	Open Elective (OE) Course											
Sr No	Course	Course Name	Course Name Semester		Con Hr./	tact Week	Full					
	Code			Cr	L	T	P	Marks				
1	*OE61#	Open Elective-I	6 th	3	3	0	0	100				
1.1	*OE611	Engineering Economics & Project Management										
2	*OE62#	Open Elective-II (Any one course to be selected)	6 th	3	3	0	0	100				
2.1	*OE621	Environmental Engineering & Science										
2.2	*OE622	Artificial Intelligence										
2.3	*OE623	Industrial Management										

Code System:

Program (All i.e. *) _Course Category (i.e. OE) _Semester (6th) _Open Elective No (i.e. 1 or 2) _Course No (i.e. 1, 2, ...)

	Examination Scheme										
Course		Internal					External				
	MST	Quiz /	Attend	Class	Total	ESE	Assignment	Viva-	Total		
		Assignment	ance	Performance				Voce			
Theory	20	10	10	-	40	60	-	-	60	100	
Sessional	-	30	10	20	60	-	20	20	40	100	

Pass Marks: Students have to obtain at least 40% marks (pass marks) in both Internal assessment and External separately.

CA: Class Attendance

TA: Teacher's Assessment is based on Average Marks obtained in Assignments/ quiz/ Viva-Voce on each Unit.

MST: Best of two MST marks obtained by the student.

I: Internship may be duration of 2-4 weeks at Hospital/Diagnostic Centre/Industry.

Note: Internship – 1) 60% (Internal) will be assessed by the Institute, based on Internship Report, Assignment and Viva-Voce. 2) 40% marks (External), will be assessed during internship by the concern authority of the Institute/ hospital/ Industry etc. where students will go for their Internship based on performance, attendance, report etc.



(Technical Education Division)

Distribution of Credits for Diploma in MLT									
Sr. No	Semester	Remarks							
1	Sem-1	18	Part-I : 38						
2	Sem-2	20	Fait-1.36						
3	Sem-3	21	Dout II . 41						
4	Sem-4	20	- Part-II: 41						
5	Sem-5	20	Part-III: 41						
6	Sem-6	21	- Part-III: 41						
	Total:	120	DMLT: 120						

Code	Definition
MLT	Medical Laboratory Technology
PC	Program Core Course
PE	Program Elective Course
OE	Open Elective Course
HS	Humanities & Social Science Course
AU	Audit Course
I	Internship
PR	Project
SE	Seminar
L	Lecture
T	Tutorial
P	Practical
CA	Class Attendance
TA	Teacher's Assessment
MST	Mid Semester Test
ESE	End Semester Exam

Definition of Credit	Credit
1 Hr. Lecture (L) per Week	1
1 Hr. Tutorial (T) per Week	1
1 Hr. Practical (P) per Week	0.5

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	- Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	End Semester Exter Assessment	Total		
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Metallurgical Engineering [MET]

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

Revised 2022

PROPOSED DRAFT SYLLABUS

DIPLOMA IN METALLURGY

SEMESTER - III

SI. No	Category of Course	Code No.	Course Title		urs per week		Total contact	Credits	
				L	Т	Р	hrs / week	Credits	Marks
1.	Program core course	MTPC201	Physical Metallurgy – I	2	1	0	3	3	100
2.	Program core course	MTPC203	Fuels , Furnaces & Refractories	2	1	0	3	3	100
3.	Program core course	MTPC205	Metallurgical Thermodynamics Fundamentals of Mechanical Engineering	1	1	0	2	2	100
4.	Program core course	MTPC207	Extractive Metallurgy	1	1	0	2	2	100
5.	Program core course	MTPC209	Fundamentals of Mechanical Engineering	1	1	0	2	2	100
6.	Program core course	MTPC211	Physical Metallurgy - I Lab	0	0	4	4	2	100
7.	Program core course	MTPC213	Fundamentals of Mechanical Engineering Lab	0	0	2	2	1	100
8.	Program core course	MTPC215	Extractive Metallurgy Lab	0	0	2	2	1	100
9.	Program core course	MTPC217	Computer Aided Drafting Lab	0	0	2	2	1	100
10.	Summer Internship-I (4 weeks) after II nd. Sem)	SI201						2	200
			Total	7	5	10	22	19	1100

SEMESTER - IV

SI.	Category of			Hour	s per	week	Total		T	
No	Course	Code No.	Course Title	L	Т	P	contact hrs/ week	Credits	Marks	
1.	Program core course	MTPC202	Physical Metallurgy – II	2	1	0	3	3	100	
2.	Program core course	MTPC204	Metal Working Process	1	1	0	2	2	100	
3.	Program core course	MTPC206	Ferro Alloy & DRI	1	1	0	2	2	100	
4.	Program core course	MTPC208	Testing of Metals	1	1	0	2	2	100	
5.	Program core course	MTPC210	Blast Furnace Iron Making Process	2	1	0	3	3	100	
6.	Program core course	MTPC212	Physical Metallurgy - II Lab	0	0	2	2	1	100	
7.	Program core course	MTPC214	Destructive Testing of Metals Lab	0	0	2	2	1	100	
8.	Program Elective course	MTPE202	Alloy Steel & Cast Iron	2	1	0	3	3	100	
9.	Minor Project	MTPR202		0	0	4	4	2	200	
10.	Mandatory Course	MTAU202	Essence of Indian Knowledge and Tradition	2	0	0	2	0	100	
			Total	11	6	8	25	19	1100	

SEMESTER - V

SI. No	Category of Course	Code No.	Course Title		urs p veek		Total contact	Credits	Marks
	Category or Course	Code No.	Course ritte	L	Т	Р	hrs/ week	Cieuits	
1.	Program core course	MTPC301	Primary Steel Making	1	1	0	2	2	100
2.	Program core course	MTPC303	Foundry Technology	1	1	0	2	2	100
3.	Program core course	MTPC305	Heat Treatment Technology	1	1	0	2	2	100
4.	Program core course	MTPC307	Foundry Technology Lab	0	0	2	2	1	100
5.	Program core course	MTPC309	Heat Treatment Technology Lab	0	0	2	2	1	100
6.	Program core course	MTPC311	Non - Destructive Testing of Metals Lab	0	0	2	2	1	100
7.	Program Elective course	MTPE301	Advance Engineering Materials	2	1	0	3	3	100
8.	Program Elective course	MTPE303	Corrosion & Oxidation	2	1	0	3	3	100
9.	Open Elective	MTOE301	Economic Policies in India	2	1	0	3	3	100
10.	Summer Internship-II (6 weeks) after IV th Sem	SI301		0	0	0	0	3	200
11.	Major Project	PR302		0	0	2	2	1	100
		1	Total				23	22	1200

SEMESTER - VI

				Hours per week		Total			
SI. No	Category of Course	Code No.	Course Title	L	T	Р	contact hrs/ week	Credits	Marks
1.	Program core course	MTPC302	Secondary Steel Making Process	1	1	0	2	2	100
2.	Program core course	MTPC304	Energy & Environment Control in Metallurgical Industries	1	1	0	2	2	100
3.	Program core course	MTPC306	Welding Technology	1	1	0	2	2	100
4.	Program core course	MTPC308	Welding Technology Lab	0	0	3	3	1.5	100
5.	Program Elective course	MTPE302	Advance Foundry & Forging Technology	2	1	0	3	3	100
6.	Humanities and Social Science course	HS302	Entrepreneurship and Start-ups	2	1	0	3	3	100
7.	Open Elective	MTOE302	Renewable Energy Technologies	2	1	0	3	3	100
8.	Open Elective	MTOE304	Engineering Economics & Accountancy	2	1	0	3	3	100
9.	Mandatory Course	AU302	Indian Constitution	2	0	0	2	0	100
10.	Major Project	PR302		0	0	3	3	1.5	100
11.	Seminar	SE302		1	0	0	1	1	100
			Total				27	22	1100

MARKS DISTRIBUTION

Sem	Subject	Credit	Marks	Total contact hrs / week
I	10	18	1000	25
II	10	20	1000	27
III	9	19	1100	22
IV	11	19	1100	25
V	11	22	1200	23
VI	11	22	1100	27
SUM	62	120	6500	

Total available contact hours per week = 27 Monday to Friday = 5 x 5 = 25 Saturday = 1 x 2 = 2

Total Credit point and total marks will remain fixed: 120 & 6500.

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Mining Engineering [MIN]

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

Revised 2022

WBSCTVESD Curriculum for Diploma in Mining Engineering Semester-wise Detailed Curricular Structure

Semester III

Sl. No	Category	Code No.	Course Title	Hou	rs per	week	Total contact	Credi ts	Marks
				L	Т	P	hrs/ week		
1.	Program core course	MINPC 301	Introduction to Mining Technology	3	0	0	3	3	100
2.	Program core course	MINPC 302	Underground Mine Environment	2	0	0	2	2	100
3.	Program core course	MINPC 303	Drilling & Blasting	2	0	0	2	2	100
4.	Program core course	MINPC 304	Underground Coal Mining	2	0	0	2	2	100
5.	Program core course	MINPC 305	Surface Mining	3	0	0	3	3	100
6.	Program core course	MINPC 306	Mining Geology	2	0	0	2	2	100
7.	Program core course	MINPC 311	Underground Mine Environment Lab.	0	0	2	2	1	100
8.	Program core course	MINPC 312	Drilling & Blasting Lab.	0	0	2	2	1	100
9	Program core course	MINPC 313	Mining Operations Lab.	0	0	2	2	1	100
10.	Program core course	MINPC 314	Mining Geology Lab.	0	0	2	2	1	100
11.	Internship-I after Semester II	MINSI 341		0	0	0	0	1	100
	TOTAL	•	•				22	19	1100

L- LECTURE, T- TUTORIAL, P- PRACTICAL/ LAB

Semester IV

Sl. No	Category	Code No.	Course Title	Hou	rs per	week	Total contact	Credi ts	Marks
				L	Т	P	hrs/ week		
1.	Program core course	MINPC 401	Mine Ventilation	3	0	0	3	3	100
2.	Program core course	MINPC 402	Underground Metalliferous Mining	2	0	0	2	2	100
3.	Program core course	MINPC 403	Mine Survey-I	3	0	0	3	3	100
4.	Program core course	MINPC 404	Elementary Rock Mechanics & Strata Control	2	0	0	2	2	100
5.	Program core course	MINPC 405	Electro- technology in Mining	2	0	0	2	2	100
6.	Program core course	MINPC 411	Mine Ventilation Lab.	0	0	2	2	1	100
7.	Program core course	MINPC 412	Mine Survey-I Lab.	0	0	4	4	2	100
8.	Program core course	MINPC 413	Strata Control Lab.	0	0	2	2	1	100
9.	Program core course	MINPC 414	Electro- technology in Mining Lab.	0	0	2	2	1	100
10.	Program elective course	MINPE 42*	Elective-I	2	0	0	2	2	100
a.	ANY ONE	MINPE 421	Special Underground Mining						
b.	COURSE HAS TO BE TAKEN FROM a & b	MINPE 422	Surface Mining-II						
11.	Minor Project	MINPR 451		0	0	4	4	2	100
	TOTAL	•		•		•	28	21	1100

L- LECTURE, T- TUTORIAL, P- PRACTICAL/ LAB

Semester V

Sl. No	Category	Code No.	Course Title	Hou	rs per v	week	Total contact	Credit s	Marks
				L	Т	P	hrs/ week		
1.	Program core course	MINPC 501	Mine Management Legislation & Safety-I	3	0	0	3	3	100
2.	Program core course	MINPC 502	Mine Hazards & Safety	3	0	0	3	3	100
3.	Program core course	MINPC 503	Mechanical Engineering in Mining	2	0	0	2	2	100
4.	Program core course	MINPC 511	Mine Hazards & Safety Lab.	0	0	2	2	1	100
5.	Program core course	MINPC 512	Mechanical Engineering in Mining Lab.	0	0	2	2	1	100
6.	Program core course	MINPC 513	Computer Aided Design & Drafting Lab.	0	0	2	2	1	100
7.	Program elective course	MINPE 52*	Elective-II	3	0	0	3	3	100
a.	ANY ONE COURSE HAS TO	MINPE 521	Mine Survey-II						
b.	BE TAKEN FROM a & b	MINPE 522	Petroleum & Natural Gas Engineering						
8.	Program elective course	MINPE 52*	Elective-III	3	0	0	3	3	100
c.	ANY ONE	MINPE 523	Impact of Mining Operation on Environment						
d.	COURSE HAS TO BE TAKEN FROM c & d	MINPE 524	Mineral Dressing						
9.	Internship-II after Semester IV	MINSI 541		0	0	0	0	1	100
10.	Major Project	MINPR 551		0	0	4	4	2	100
	TOTAL						24	20	1000

L- LECTURE, T- TUTORIAL, P- PRACTICAL/ LAB

Semester VI

Sl. No	Category	Code No.	Course Title	Hou	rs per	week	Total contact	Credi ts	Marks
				L	Т	P	hrs/ week		
1.	Program core course	MINPC 601	Mine Management Legislation & Safety-II	3	0	0	3	3	100
2.	Program core course	MINPC 602	Mine Machinery-I	3	0	0	3	3	100
3.	Program core course	MINPC 611	Mine Machinery-I Lab.	0	0	2	2	1	100
4.	Program elective course	MINPE 62*	Elective-IV	3	0	0	3	3	100
a.	ANY ONE	MINPE 621	Mine Machinery- II						
b.	COURSE HAS TO BE TAKEN FROM a & b	MINPE 622	Mineral Economics						
5.	Humanities and Social Science course	HS 302	Entrepreneurship and Start- ups	3	0	0	3	3	100
6.	Open elective course		Engineering Economics & Project Management	3	0	0	3	3	100
7.	Open elective course		Open Elective- II* (ANY ONE COURSE HAS TO BE TAKEN FROM THE LIST)	3	0	0	3	3	100
8.	Major Project	MINPR 651		0	0	4	4	2	100
9.	Seminar	MINSE 661		0	0	2	2	1	100
	TOTAL						26	22	900

L- LECTURE, T- TUTORIAL, P- PRACTICAL/ LAB

*LIST OF OPEN ELECTIVE-II COURSES

S No.	Code No.	Course Title	Но	urs per w	eek	Credit
			L	Т	P	
1.		Environmental Engineering & Science	3	0	0	3
2.		Industrial Management	3	0	0	3
3.		Disaster Management	3	0	0	3
4.		Sustainable Development	3	0	0	3
5.		Industrial Safety Engineering	3	0	0	3
6.		Introduction to E-Governance	3	0	0	3
7.		Renewable Energy Technologies	3	0	0	3
8.		Soft Computing Techniques	3	0	0	3
9.		Operations Research	3	0	0	3
10.		Professional Orientation	3	0	0	3

	SUMMARY										
Semester	No. of Subjects	Credit	Marks								
III	11	19	1100								
IV	11	21	1100								
V	10	20	1000								
VI	9	22	900								
Total		120 (Including Sem I & II)	6100 (Including Sem I & II)								

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Modern Office Practice & Management [MOPM]

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

Revised 2022

CURRICULAR STRUCTURE FOR PART–II $(2^{nd}\ YEAR)$ OF THE FULL-TIME DIPLOMA COURSE IN MODERN OFFICE PRACTICE & MANAGEMENT

MODERN OFFICE PRACTICE & MANAGEMENT: Semester III

SI No.	Category of Courses	Course Title	L	Т	Р	Contact Hours	Credit	Marks
1	Management	Secretarial Practice	2	0	0	2	2	100
2	Management	Business Statistics -II	3	0	0	3	3	100
3	Management	Conversational English -II	2	0	0	2	2	100
4	Humanities & Social Science	Advanced Accountancy	3	0	0	3	3	100
5	Humanities & Social Science	Principles of Auditing	2	0	0	2	2	100
6	Management	Secretarial Practice Lab	0	0	2	2	1	100
7	Engg Science	Data Analysis Lab-I	0	0	2	2	1	100
8	Humanities & Social Science	Conversational English Lab	0	0	2	2	1	100
9	Engg. Science	Financial Accounting Lab - I	0	0	3	3	1.5	100
10	Engg Science	C Programming	0	0	3	3	1.5	100
11	Engg Science	Multimedia Lab-I	0	0	2	2	1	100
12	Management	Industry Visit & Seminar-I	0	0	0	0	1	100
Tota	l Credits and Marks	3					20	1200

MODERN OFFICE PRACTICE & MANAGEMENT: Semester IV

SI No.	Category of courses	Course Title	L	Т	Р	Contact Hours	Credit	Marks			
1	Humanities & Social Science	Quantitative Technique	2	0	0	2	2	100			
2	Humanities & Social Science	Entrepreneurship Development	2	0	0	2	2	100			
3	Engg. Science	Principles of Banking	2	0	0	2	2	100			
4	Management	Office Equipment & Communication System	2	0	0	2	2	100			
5	Humanities & Social Science	Financial Management	2	0	0	2	2	100			
6	Management	Marketing Management	2	0	0	2	2	100			
7	Engg. Science	Data Analysis Lab-II	0	0	2	2	1	100			
8	Humanities & Social Science	Entrepreneurship Development Lab	0	0	2	2	1	100			
9	Engg. Science	Office Equipment & Communication System Lab	0	0	2	2	1	100			
10	Engg. Science	Financial Accounting Lab-II	0	0	2	2	1	100			
11	Management	Market Study	0	0	2	2	1	100			
12	Humanities & Social Science	Professional Orientation-I	0	0	2	2	1	100			
13	Engg Science	Multimedia Lab-II	0	0	2	2	1	100			
14	Management	Industry Visit & Seminar -II	0	0	0	0	1	100			
Total	Total Credits and Marks 20 1400										

CURRICULAR STRUCTURE FOR PART–III (3 $^{\rm rd}$ YEAR) OF THE FULL-TIME DIPLOMA COURSE IN MODERN OFFICE PRACTICE & MANAGEMENT

MODERN OFFICE PRACTICE & MANAGEMENT: Semester V

SI No.	Category of Courses	Course Title	L	Т	Р	Contact Hours	Credit	Marks
1	Management	Management Information System	3	0	0	3	3	100
2	Management	Human Resource management	3	0	0	3	3	100
3	Management	Total Quality Management	3	0	0	3	3	100
4	Humanities & Social Science	Office & business Correspondence	3	0	0	3	3	100
5	Humanities & Social Science	Industrial Relations	3	0	0	3	3	100
6	Humanities & Social Science	Elective: 1. Office Administration I 2. Record Management Principles -I	3	0	0	3	3	100
7	Humanities & Social Science	Elective Lab 1. Office Administration I Lab Record Management Principles –I Lab	0	0	2	2	1	100
8	Humanities & Social Science	Project & Seminar on any Specific Field of Management	0	0	2	2	1	100
9	Humanities & Social Science	Professional Orientation- II			2	2	1	100
		Total Credits and Ma	rks				21	900

MODERN OFFICE PRACTICE & MANAGEMENT: Semester VI

SI No.	Category of courses	Course Title	L	Т	Р	Contact Hours	Credit	Marks
1	Humanities & Social Science	Supply Chain Management	3	0	0	3	3	100
2	Humanities & Social Science	Indian Constitution	3	0	0	3	3	100
3	Humanities & Social Science	Current Economic Problems	3	0	0	3	3	
4	Humanities & Social Science	Elective : 1.Office Administration II	3	0	0	3	3	100
		2. Record Management Principles -II						
5	Management	Company Law	3	0	0	3	3	100
6	Humanities & Social Science	Elective Lab 1. Office Administration II Lab 2.Record Management Principles –II Lab	0	0	2	2	1	100
7	Internship	Industrial Training	0	0	0	0	2	100
8	Internship	Project	0	0	4	4	2	100
9	Management	Seminar	0	0	2	2	1	100
		Total Credits and Mark	(S	1		J.	21	900

Total Credits, Contact Hours & Marks

Semester	1 st	2 nd	3 rd	4 th	5 th	6 th	Total
Credit Point	18	20	20	20	21	21	120
Contact Hours	24	26	26	26	24	23	149
Marks	1000	1000	1200	1400	900	900	6400

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Multi Media Technology [MT]

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

Revised 2022

Revised curricular structure for Diploma in MultimediaTechnology, RIPT as per AICTE 2019 norms

Mu	ıltimedia 1	Гесhnolog	У				Evaluation Sche	me of Theoritical	Paper	Evaluatio	n Scheme of P	ractical/S	essional	Total Marks
							Internal Scheme			Internal Asse	essment	End Sem	ester Assessmen	TOtal Walks
Semester III	L	Т	P	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva- Voce	Assignment on the day of Viva-voce	
Image & Graphics I	3	0	0	3	3	20	10	10	60		1			100
Cel & 2D Animation I	3	0	0	3	3	20	10	10	60					100
Web Design(HTML,CSS & Java Script)	3	0	0	3	3	20	10	10	60					100
Digital Photography	3	0	0	3	3	20	10	10	60					100
Image & Graphics I Lab	0	0	3	3	1.5					50	10	20	20	100
Cel& 2D Animation I Lab	0	0	3	3	1.5					50	10	20	20	100
Web Design(HTML,CSS & Java Script) Lab	0	0	3	3	1.5					50	10	20	20	100
Digital Photography Lab	0	0	3	3	1.5					50	10	20	20	100
Internship I (after II sem)	0	0	0	0	1						•	•		100
				24	19									900

Mı	ultimedia 1	Technolog	ıv		•			me of Theoritical	Paper		on Scheme of P			Total Marks
			,,				Internal Scheme			Internal Assessment End Semester			ester Assessmen	sessment
Semester IV	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva- Voce	Assignment on the day of Viva-voce	
Image & Graphics II	3	0	0	3	3	20	10	10	60					100
Cel& 2D Animation II	3	0	0	3	3	20	10	10	60					100
Audiography	3	0	0	3	3	20	10	10	60					100
Videography	3	0	0	3	3	20	10	10	60					100
Programme Elective I: Fundamentals of Art & Design	3	0	0	3	3	20	10	10	60					100
Image & Graphics II Lab	0	0	3	3	1.5					50	10	20	20	100
Cel& 2D Animation II Lab	0	0	3	3	1.5					50	10	20	20	100
Audiography Lab	0	0	3	3	1.5					50	10	20	20	100
Videography Lab	0	0	3	3	1.5					50	10	20	20	100
Minor Project	0	0	4	4	2									100
				31	23									1000

Revised curricular structure for Diploma in MultimediaTechnology, RIPT as per AICTE 2019 norms

	Evaluation Scheme of Theoritical Paper Evaluation Scheme of Practical/Sessional													
Mu	ltimedia '	Technolog	v					me of Theoritical	Paper					Total Marks
1116	Ittiliouiu	. coc.og	,				Internal Scheme			Internal Assessment End Semester Assessm			ester Assessment	Total marko
Semester V	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva- Voce	Assignment on the day of Viva-voce	
3D Modeling & Animation	3	0	0	3	3	20	10	10	60					100
Motion Graphics & Compositting	3	0	0	3	3	20	10	10	60					100
Programme Elective II: Content Generation	3	0	0	3	3	20	10	10	60					100
Programme Elective III: Film Humanities & Arts	3	0	0	3	3	20	10	10	60					100
3D Modeling & Animation Lab	0	0	4	4	2					50	10	20	20	100
Motion Graphics & Compositting Lab	0	0	3	3	1.5]				50	10	20	20	100
Media Production Lab	0	0	3	3	1.5	1				50	10	20	20	100
Major Project	0	0	4	4	2									100
Internship II (after Sem IV)	0	0	0	0	1									100
				26	20								900	

							Evaluation Sche	me of Theoritical	Paper	Evaluatio	n Scheme of P	ractical/S	essional	
Mu	Itimedia	Technolog	У				Internal Scheme			Continuous As	sessment	End Sem	ester Assessmen	Total Marks
Semester VI	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva- Voce	Assignment on the day of Viva- voce	
Advanced 3D Modeling & Animation	3	0	0	3	3	20	10	10	60					100
Enterpreneurship and Start-ups	3	0	0	3	3	20	10	10	60					100
Programme Elective IV: Multimedia Production & Packaging	3	0	0	3	3	20	10	10	60					100
Open Elective I: Engineering Economics & Project Management	3		0	3	3	20	10	10	60					100
Open Elective II: Industrial Management or Professional Orientation or Disaster Management	3		0	3	3	20	10	10	60					100
Advanced 3D Modeling & Animation Lab	0	0	4	4	2					50	10	20	20	100
Major Project	0	0	6	6	3									100
Seminar	1		0	1	1									100
]	26	21									800

Evaluation Scheme

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

The weightage of Internal assessment is 60% and for End Semester Exam is 40%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100

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



Curriculum Structure of

Diploma in Packaging Technology [PT]

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

Revised 2022

$\frac{Proposed\ course\ curriculum\ for\ 3^{rd},\ 4^{th},\ 5^{th}\ and\ 6^{th}\ semester\ -\ Diploma\ in\ Packaging}{Technology}$

Semester-III

Sl. No.	Category of Course	Code No.	Course Tile	Credit	Marks	Total (Contact /week	
1,0,	Course	1,00				L	T	P
1.	Program Core Course		Introduction to Packaging Technology	3	100	3	0	0
2.	Program Core Course		Cellulose and Fiberboard Technology	3	100	3	0	0
3.	Program Core Course		Principles of Thermodynamics & Heat Transfer	4	100	3	1	0
4.	Program Core Course		Metal Packaging	3	100	3	0	0
5.	Program Core Course		Glass Packaging	3	100	3	0	0
6.	Program Core Course		Packaging Technology Lab	1	100	0	0	2
7.	Program Core Course		Paper and Corrugated Technology Lab	1	100	0	0	2
8.	Program Core Course		Thermodynamics & Heat Transfer Lab	1	100	0	0	2
9.	Internship-I (4 weeks) after the end of second semester (Semester- II)		Should be undertaken in an industry/ Govt. or Pvt. Certified agencies which are in social sector/ Govt. Skill Centers/Institutes/ Schemes	1	100	0	0	2
	Total			20	900	15	1	8
	Contact rs/week=24							
11001	5/ WCCK-24						1	1

Semester-IV

Sl. No.	Category of Course	Code No.	Course Tile	Credit	Marks	Total Contact Hours/week		
						L	T	P
1.	Program Core Course		Plastic Packaging	3	100	3	0	0
2.	Program Core Course		Ancillary Packaging Materials	3	100	3	0	0
3.	Program Core Course		Package Testing and Evaluation	3	100	3	0	0
4.	Program Core Course		Fluid Mechanics and Pneumatics	3	100	2	1	0
5.	Program Core Course		Drug and Pharmaceutical Packaging	3	100	3	0	0
6.	Program Elective course		i) Security Printing ii) Coding System for Packaging	3	100	3	0	0
7.	Program Core Course		Packaging Materials Testing Lab	1	100	0	0	2
8.	Program Core Course		Fluid Mechanics and Pneumatics Lab	1	100	0	0	2
9.	Program Core Course		Identification of Plastics Lab	1	100	0	0	2
Total			21	900	17	1	6	
	Total Contact Hours/week=24							

Semester-V

Sl. No.	Category of Course	Code No.	Course Tile	Credit	Marks	Hours	Contac /week	
						L	T	P
1.	Program Core Course		Food Preservation and Packaging	3	100	3	0	0
2.	Program Core Course		Packaging Technique and 3 100 3 0 Machinery				0	
3.	Program Core Course		Package Printing 3 100 3 0 Technology					0
4.	Program Elective Course		i) Packaging Rules and Regulation ii) Flexible Packaging	3	100	3	0	0
5.	Program Elective Course		i) Application of Computer in Packaging ii) Hazardous Material Packaging	3	100	3	0	0
6.	Program Core Course		Food Packaging Lab	1	100	0	0	2
7.	Program Core Course		Package Printing Lab	2	100	0	0	3
8.	Major Project	PR302		2	100	0	0	3
9.	Internship	SI301	Internship II	1	100	0	0	2
	Total			21	900	15	0	10
	l Contact rs/week=25	,						

Semester-VI

Sl.	Category of	Code	Course Tile	Credit	Marks	Total	Contac	et
No.	Course	No.				Hours	/week	
						L	T	P
1.	Program		Package Design	3	100	2	1	0
	Core Course							
2.	Program		Principle of	3	100	2	1	0
	Core Course		Refrigeration and Cold					
			Storage					
3.	Humanities	HS302	Entrepreneurship and	3	100	3	0	0
	and Social		Start-ups					
	Science							
4.	Open	OE302	Engineering Economics	3	100	3	0	0
	Elective		and Project					
	Course		Management					
5.	Open	OE304	Environmental	3	100	3	0	0
	Elective		Engineering and Science					
	Course							
6.	Program		Package Design Lab	2	100	0	0	3
	Core Course							
7.	Major	PR302		2	100	0	0	3
	Project							
8.	Seminar	AC202		1	100	0	0	2
	Total			20	800	13	2	8
Tota	l Contact							
Hou	rs/week=23							

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment	End Semester External Assessment	- Total	
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Photography [PHO]

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

	Photogra	aphy					Evaluation Sche	me of Theoritical F	Paper	E	valuation Scheme	of Practical/S	Sessional		Tota
							Internal Scheme			Contin	nuous Assessmen	t	End Sem	ester Assessment	Mark
Semester III	L	т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Teacher's Assessment & Laboratory Notebook	Class Performance	Class Attendance	Viva- Voce	Assignment on the day of Viva-voce	
Principles of Photography	3	0	0	3	3	20	10	10	60						100
Indoor and Outdoor Still Photography I	3	0	0	3	3	20	10	10	60						100
Lighting Technique	3	0	0	3	3	20	10	10	60						100
Digital Still Photography	3	0	0	3	3	20	10	10	60						100
Photo Design	0	0	3	3	1.5					30	20	10	20	20	100
Indoor and Outdoor Still Photography Lab I	0	0	3	3	1.5					30	20	10	20	20	100
Digital Lab Techniques in Still Photography	0	0	3	3	1.5					30	20	10	20	20	100
Photo Design Lab	0	0	3	3	1.5					30	20	10	20	20	100
Professional Practice I (Still Photography)	0	0	0	0	1										100
	T			24	19										900
							Internal Scheme		End Semester	Teacher's	nuous Assessmen			Assignment on	Mark
Semester IV	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	Examination	Assessment & Laboratory	Class Performance	Class Attendance	Viva- Voce	the day of Viva-	
Development of Life Skill-II		_								Notebook				voce	
	3	0	0	3	3	20	10	10	60	Notebook				voce	100
Digital Photography	3	0	0	3	3	20 20	10 10	10 10	60 60	Notebook			<u> </u>	voce	
Digital Photography Indoor and Outdoor Still Photography II	3	0	0	3	3	20 20	10 10	10 10	60 60	Notebook			<u> </u>	voce	100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animtion I	3 3	0 0	0 0	3 3	3 3 3	20 20 20	10 10 10	10 10 10	60 60 60	Notebook -				voce	100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animtion I Videography I	3 3 3	0 0 0	0 0 0	3 3 3 3	3 3 3 3	20 20	10 10	10 10	60 60						100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animtion I Videography I Digital Photography Lab	3 3	0 0	0 0	3 3	3 3 3	20 20 20	10 10 10	10 10 10	60 60 60	Notebook 30	20	10	20	voce	100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animition I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II	3 3 3	0 0 0	0 0 0	3 3 3 3	3 3 3 3	20 20 20	10 10 10	10 10 10	60 60 60		20 20	10	20 20		100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animtion I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Photography Lab II	3 3 3 3 0 0	0 0 0 0 0 0	0 0 0 0 3 3 3 3	3 3 3 3 3 3	3 3 3 1.5 1.5	20 20 20	10 10 10	10 10 10	60 60 60	30 30 30	20 20	10	20	20 20 20 20	100 100 100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animition I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Indoor A	3 3 3 3 0	0 0 0 0 0	0 0 0 0 0 3 3	3 3 3 3 3 3	3 3 3 1.5 1.5	20 20 20	10 10 10	10 10 10	60 60 60	30 30	20	10	20	20 20	100 100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animtion I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Photography Lab II	3 3 3 3 0 0	0 0 0 0 0 0	0 0 0 0 3 3 3 3	3 3 3 3 3 3 3 4	3 3 3 1.5 1.5 1.5 2	20 20 20	10 10 10	10 10 10	60 60 60	30 30 30	20 20	10	20	20 20 20 20	100 100 100 100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animition I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Professional Practice II	3 3 3 0 0	0 0 0 0 0 0	0 0 0 0 3 3 3 3 3 3	3 3 3 3 3 3 3	3 3 3 1.5 1.5 1.5	20 20 20	10 10 10	10 10 10	60 60 60	30 30 30	20 20	10	20	20 20 20 20	100 100 100 100 100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animition I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Wiltimedia and Animation Lab I Professional Practice II	3 3 3 0 0	0 0 0 0 0 0	0 0 0 0 3 3 3 3 3 3	3 3 3 3 3 3 3 4	3 3 3 1.5 1.5 1.5 2	20 20 20	10 10 10 10 10	10 10 10 10 10	60 60 60 60	30 30 30 30	20 20 20	10 10 10	20 20 20	20 20 20 20 20	100 100 100 100 100 100 100 100 100
Digital Photography Indoor and Outdoor Still Photography II Multimedia and Animition I Videography I Digital Photography Lab Indoor and Outdoor Still Photography Lab II Indoor and Outdoor Still Photography Lab II Multimedia and Animation Lab I Professional Practice II	3 3 3 0 0	0 0 0 0 0 0 0	0 0 0 0 3 3 3 3 3 3	3 3 3 3 3 3 3 4	3 3 3 1.5 1.5 1.5 2	20 20 20	10 10 10 10 10	10 10 10 10 10	60 60 60 60	30 30 30 30 30	20 20	10 10 10 10 e of Practical/S	20 20 20 20 Sessional	20 20 20 20 20	100 100 100 100 100 100 100 100

Semester V	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Teacher's Assessment & Laboratory Notebook	Class Performance	Class Attendance	Viva- Voce	Assignment on the day of Viva-voce	
Motion Picture Photography I	2	0	0	2	2	20	10	10	60						100
Videography II	2	0	0	2	2	20	10	10	60						100
Multimedia and Animation II	3	0	0	3	3	20	10	10	60						100
Filming and Editing Technique I	3	0	0	3	3	20	10	10	60						100
Motion Picture Photography Lab I	3	0	0	3	3	20	10	10	60						100
Digital Cinematography Lab	0	0	3	3	1.5					30	20	10	20	20	100
Multimedia and Animtion Lab II	0	0	3	3	1.5					30	20	10	20	20	100
Industrial Project & Entrepreneurship Development	0	0	4	4	2										100
Professional Practice III (Digital Execution & Logistics)	0	0	0	0	1										100
				23	19										900

	Photogra	anh.					Evaluation Sche	me of Theoritical	Paper	E	valuation Scheme	e of Practical/S	Sessional		
	Filologia	арпу					Internal Scheme			Contir	nuous Assessmen	nt	End Sem	ester Assessment	i
Semester VI	L	Т	Р	Contact Hours	Credit	Mid Sem Test	Class Assignment	Class Attendance	End Semester Examination	Teacher's Assessment & Laboratory Notebook	Class Performance	Class Attendance	Viva- Voce	Assignment on the day of Vivavoce	
Industrial Management	3	0	0	3	3	20	10	10	60						100
Motion Picture Photography II	3	1	0	4	4	20	10	10	60						100
Filming and Editing Technique II	3	0	0	3	3	20	10	10	60						100
Light and Sound in Motion Picture Photography	3		0	3	3	20	10	10	60						100
Elective	3		0	3	3	20	10	10	60						100
Motion Picture Photography Lab II	0	0	2	2	1					30	20	10	20	20	100
Filming and Editing Technique Lab II	0	0	6	6	3										100
Industrial Project						Ī									
Professional Practice IV (Short Film Production			0												
Grand Viva Voce	1			1	1	1									100
				25	21										800

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment	End Semester External Assessment	- Total	
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Printing Technology [DP]

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

			evised (curricula	ar struc	ture for Dip			gy, RIPT as per A			(D		
Pr	inting Tec	hnology		T	I		Internal Scheme	me of Theoretical	Paper	Continuous As	ion Scheme of sessment		essional ester Assessment	Total Marks
Semester III	L	т	P	Contact Hours	Credit	Class Test	Quizzes/Assignme nts/Student Activity	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva-Voce	Assignment on the day of Viva- voce and Practical report Submission	
Paper & Ink Technology	3	0	0	3	3	20	10	10	60					100
Graphics Reproduction Relief & Recess Printing	3	0	0	3	3	20 20	10 10	10 10	60 60					100
Electronic Composing	3	0	0	3	3	20	10	10	60					100
Paper & Ink Technology Laboratory	0	0	3	3	1.5					50	10	20	20	100
Graphic Reproduction Laboratory	0	0	3	3	1.5 1.5					50 50	10 10	20 20	20 20	100 100
Relief & Recess Printing Workshop Electronic Composing Laboratory	0	0	3	3	1.5					50	10	20	20	100
Internship I (after Semester II)	0	0	0	0 24	1 19					I	1			100 900
				24	19					I.				300
_							Evaluation Scher	ne of Theoretical	Paper	Evaluat	ion Scheme of	f Practical/S	essional	Total
Pi	inting Tec	chnology					Internal Scheme			Continuous As	sessment	End Sem	ester Assessment	Marks
Semester IV	L	т	P	Contact Hours	Credit	Class Test	Quizzes/Assignme nts/Student Activity	Class Attendance	End Semester Examination	Continuous Evaluation	Class Attendance	Viva-Voce	Assignment on the day of Viva- voce and Practical report Submission	
Printing Image Carrier Preparation	3	0	0	3	3	20	10	10	60		1	-	1	100
Color Technology in Printing Digital Pre-press	3	0	0	3	3	20 20	10 10	10 10	60 60	-				100 100
Offset Printing Technology	3	Ö	0	3	3	20	10	10	60					100
Programme Elective I: Digital and Security Printing or Electronic Imaging	3	0	0	3	3	20	10	10	60					100
Printing Image Carrier Preparation Laboratory	0	0	3	3	1.5					50	10	20	20	100
Color Technology in Printing Laboratory	0	0	3	3	1.5					50	10	20	20	100
Digital Pre-press Practical	0	0	3	3	1.5					50	10	20	20	100
Offset Printing Technology Workshop	0	0	3	3	1.5					50	10	20	20	100
Minor Project	0	0	4	4 31	2 23					I	1			100 1000
		-		J.	20				l .			1		1000
D-								ne of Theoretical	Paper	Evaluat	ion Scheme of	f Practical/S	essional	Total
Pr	inting Tec	hnology					Evaluation Schei	me of Theoretical	Paper	Evaluat Continuous As	ion Scheme of	f Practical/S End Sem	ester Assessment	Total Marks
Pr Semester V	inting Tec	thnology	P	Contact Hours	Credit	Class Test	Internal Scheme Quizzes/Assignme nts/Student Activity	Class Attendance	End Semester Examination	Evaluat Continuous As Continuous Evaluation	class Attendance	Fractical/S End Sem Viva-Voce	essional ester Assessment Assignment on the day of Viva- voce and Practical report Submission	Marks
Semester V Printer's Costing & Estimating	L 2	T 0	0	Hours 2	2	20	Internal Scheme Quizzes/Assignme nts/Student Activity	Class Attendance	End Semester Examination	Continuous As	Class	End Sem	Assignment on the day of Viva- voce and Practical	Marks
Semester V Printer's Costing & Estimating Graphics Design	L 2 3	T 0 0	0	Hours 2 3	2 3	20 20	Quizzes/Assignme nts/Student Activity 10 10	Class Attendance	End Semester Examination 60 60	Continuous As	Class	End Sem	Assignment on the day of Viva- voce and Practical	100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques	L 2	T 0	0	Hours 2	2	20	Internal Scheme Quizzes/Assignme nts/Student Activity	Class Attendance	End Semester Examination	Continuous As	Class	End Sem	Assignment on the day of Viva- voce and Practical	Marks
Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management	L 2 3	T 0 0	0	Hours 2 3	2 3	20 20	Quizzes/Assignme nts/Student Activity 10 10	Class Attendance	End Semester Examination 60 60	Continuous As	Class	End Sem	Assignment on the day of Viva- voce and Practical	100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital	L 2 3 3 3	T 0 0 0	0 0	2 3 3	2 3 3	20 20 20	Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60	Continuous As Continuous Evaluation	Class	End Sem	ester Assessment Assignment on the day of Viva- voce and Practical report Submission	100 100 100 100
Semester V Printer's Coating & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective III: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical	L 2 3 3 3 3 3 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 3	2 3 3 3 3 3 3 3 3	2 3 3 3 3	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem Viva-Voce	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop	L 2 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0	0 0 0 0	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 3 1.5	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem	ester Assessment Assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100
Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project	L 2 3 3 3 3 3 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	Hours 2 3 3 3 3 4	2 3 3 3 3	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem Viva-Voce	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop	L 2 3 3 3 3 3 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 3 3 3	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 3 1.5	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem Viva-Voce	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100 100
Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project	L 2 3 3 3 3 3 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	Hours	2 3 3 3 3 1.5 1.5 2	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10	Class Attendance	End Semester Examination 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem Viva-Voce	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV)	L 2 3 3 3 3 3 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	Hours	2 3 3 3 3 1.5 1.5 2	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10	Class Attendance	End Semester Examination 60 60 60 60 60	Continuous As Continuous Evaluation 50 50	Class Attendance	End Sem Viva-Voce 20 20	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV)	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	Hours	2 3 3 3 3 1.5 1.5 2	20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10	Class Attendance 10 10 10 10 10	End Semester Examination 60 60 60 60 60	Continuous As Continuous Evaluation	Class Attendance	End Sem Viva-Voce 20 20	assignment on Assignment on the day of Viva-voce and Practical report Submission 20 20 20 20 essional ester Assessment	100 100 100 100 100 100 100 100 900
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Print Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Semester VI	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 3 3 4 0	Hours 2 3 3 3 3 3 3 4 4 0 24 Contact Hours Hou	2 3 3 3 3 1.5 1.5 2 1 20	20 20 20 20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 Evaluation Scher Internal Scheme Quizzes/Assignme nts/Student Activity	Class Attendance 10 10 10 10 10 10 Class Attendance	End Semester Examination 60 60 60 60 60 60 Paper End Semester Examination	Continuous As Continuous Evaluation 50 50	Class Attendance	End Sem Viva-Voce 20 20	assignment on the day of Viva-voce and Practical report Submission	100 100 100 100 100 100 100 100 100 900
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 3 3 4 0	Hours 2 3 3 3 3 3 4 0 24 Contact	2 3 3 3 3 1.5 1.5 2 1	20 20 20 20 20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 Evaluation Sche Internal Scheme duizzes/Assignme nts/Student Activity 10 10	Class Attendance 10 10 10 10 10 10 Class Attendance Class Attendance	End Semester Examination 60 60 60 60 60 60 End Semester Examination End Semester Examination	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Maior Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 4 0	2 3 3 3 3 3 4 4 0 24 Contact Hours 3 3 3	2 3 3 3 1.5 1.5 1.5 2 1 20	20 20 20 20 20 20 20 Class Test	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 Evaluation Schen Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 1	Class Attendance 10 10 10 10 10 10 Class Attendance 10 10 10	End Semester Examination 60 60 60 60 60 Paper End Semester Examination 60 60 60	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques	L 2 3 3 3 3 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 3 3 4 0	Hours 2 3 3 3 3 3 3 4 4 0 24 Contact Hours Hou	2 3 3 3 3 1.5 1.5 2 1 20	20 20 20 20 20 20 20 20 Class Test 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 Evaluation Sche Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 10	Class Attendance 10 10 10 10 10 10 10 Class Attendance 10 10 10 10 10	### End Semester Examination 60	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Production Management Production Management (Workflow) or Quality management (Workflow) or Quality management practical Print Converting & Packaging Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques Open Elective I: Engineering Economics & Project Management Open Elective II: Industrial	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 4 0	2 3 3 3 3 3 4 4 0 24 Contact Hours 3 3 3	2 3 3 3 1.5 1.5 1.5 2 1 20	20 20 20 20 20 20 20 Class Test	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 Evaluation Schen Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 1	Class Attendance 10 10 10 10 10 10 Class Attendance 10 10 10	End Semester Examination 60 60 60 60 60 Paper End Semester Examination 60 60 60	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workflow) or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques Open Elective II: Industrial Management or Professional Orientation or Disaster Management	L 2 3 3 3 3 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 4 0	Hours 2 3 3 3 3 3 4 0 0 24	2 3 3 3 1.5 1.5 2 1 20 Credit	20 20 20 20 20 20 20 20 Class Test 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 Evaluation Sche Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 10	Class Attendance 10 10 10 10 10 10 10 Class Attendance 10 10 10 10 10	### End Semester Examination 60	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Print Converting & Packaging Techniques Programme Elective III: Print Production Management (Workflow) Or Quality management (Printing) Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques Open Elective II: Industrial Management Printing Machine Maintenance Programme Elective II: Industrial Management Printing Machine Maintenance Professional Orientation or Disaster Management	L 2 3 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 3 4 0	Hours 2 3 3 3 3 3 4 0 24	2 3 3 3 3 3 1.5 1.5 1.5 2 1 20	20 20 20 20 20 20 Class Test 20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 10	Class Attendance 10 10 10 10 10 10 Class Attendance 10 10 10 10 10 10 10	End Semester Examination	Continuous As Continuous Evaluation 50 50 Continuous As Continuous As Continuous	Class Attendance	End Sem Viva-Voce 20 20 20 End Sem	assignment on the day of Viva- voce and Practical report Submission 20 20 20 20 assignment on the day of Viva- voce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Color Management Programme Elective III: Print Production Management (Workfow) Graphics Design practical Print Converting & Packaging Techniques Workshop Maior Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques Open Elective II: Industrial Management Open Elective II: Industrial Management Open Elective II: Industrial Management Printing Machine Maintenance Professional Orientation or Desaster Management Printing Machine Maintenance Printing Machine Maintenance Workshop Major Project	L 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hours 2 3 3 3 3 3 4 0 0 24	2 3 3 3 3 1.5 1.5 1.5 2 1 20 Credit 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	20 20 20 20 20 20 Class Test 20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 10	Class Attendance 10 10 10 10 10 10 Class Attendance 10 10 10 10 10 10 10	End Semester Examination	Continuous As Continuous Evaluation 50 50 Evaluat Continuous As Continuous As	Class Attendance	End Sem Viva-Voce 20 20 20 F Practical/S End Sem Viva-Voce	assignment on the day of Vivavoce and Practical report Submission 20 20 20 20 essional ester Assessment Assignment on the day of Vivavoce and Practical report Submission	100 100 100 100 100 100 100 100 100 100
Semester V Printer's Costing & Estimating Graphics Design Print Converting & Packaging Techniques Programme Elective II: Digital Publishing or Gobr Management Programme Elective III: Digital Publishing or Gobr Management (Workflow) Or Quality management in Printing Graphics Design practical Print Converting & Packaging Techniques Workshop Major Project Internship II (after Semester IV) Printing Machine Maintenance Entrepreneurship and Start-ups Programme Elective IV: Press standardization or Advanced Packaging Techniques Open Elective II: Engineering Economics & Project Management Open Elective II: Industrial Management or Professional Orientation or Disaster Management Printing Machine Maintenance University of the Start of the Start Management or Professional Orientation or Disaster Management Printing Machine Maintenance Workshop	L 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 3 3 3 4 4 0 0	Hours	2 3 3 3 3 3 3 1.5 1.5 2 1 1 20 Credit	20 20 20 20 20 20 Class Test 20 20 20 20	Internal Scheme Quizzes/Assignme nts/Student Activity 10 10 10 10 10 10 10 10 10 10	Class Attendance 10 10 10 10 10 10 Class Attendance 10 10 10 10 10 10 10	End Semester Examination	Continuous As Continuous Evaluation 50 50 Evaluat Continuous As Continuous As	Class Attendance	End Sem Viva-Voce 20 20 20 F Practical/S End Sem Viva-Voce	assignment on the day of Vivavoce and Practical report Submission 20 20 20 20 essional ester Assessment Assignment on the day of Vivavoce and Practical report Submission	100 100

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment	End Semester External Assessment	- Total	
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	End Sem. Exammation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	Total	
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20	100



Curriculum Structure of

Diploma in Survey Engineering [SE]

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

CURRICULAR STRUCTURE OF DIPLOMA IN

SURVEY ENGINEERING

WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION AND SKILL DEVELOPMENT TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

			3RD	SEN	/IES	TER							
				CL	ASS/\	ΝK		E.	XAMIN	IOITAI	N SCH	IEME	
SL	CODE	COURSE TITLE	CREDIT					INTERNA	۸L				
NO				L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	SEPC201	Surveying -I	3	3	-	-	20	10	10	60	1	1	100
2	SEPC203	Surveying -II	3	3	-	-	20	10	10	60	-	-	100
3	SEPC205	Building Construction Practices	2	2	-	-	20	10	10	60	-	1	100
4	SEPC207	Cadastral Survey and Land Laws	2	2	1	ı	20	10	10	60	-	ı	100
5	SEPC209	Mechanics of Material	2	2	-	-	20	10	10	60	-	-	100
6	SEPC211	Concrete Technology	3	3	-	-	20	10	10	60	-	-	100
7	SEPC213	Field Survey Practices -I	3	-	-	6	-	-	-	-	60	40	100
8 SI201 Internship -I		1	-	-	-	-	-	-	-	100	-	100	
		TOTAL	19	15	ı	6	-	-	-	-	-	-	800

STUDENT CONTACT HOURS PER WEEK: 21 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment, AS/QZ – Assignment / Quiz, ATD- Attendance, ESE - EndSemester Exam, PIA-Practical Internal Assessment, PEA-Practical External Assessment.

	4TH SEMESTER												
				CL	ASS/\	ΝK		E.	EXAMINATION SCHEME				
SL	CODE	COURSE TITLE	CREDIT				ا	INTERNA	λL	565	514	55.4	TOTAL
NO				L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	SEPC202	Surveying -III	2	2	•	-	20	10	10	60	-	-	100
2	SEPC204	Photogrammetry and Remote Sensing	3	3	ı	ı	20	10	10	60	-	ı	100
3	SEPC206	Tunnel and Mine Survey	2	2	1	ı	20	10	10	60	1	ı	100
4	SEPC208	Geodesy and Astronomy	2	2	-	ı	20	10	10	60	ı	ı	100
5	SEPC210	Triangulation & Trilateration	2	2	-	-	20	10	10	60			100
6	SEPE202	Program Elective -I	3	3	1	-	20	10	10	60	-	1	100
7	SEPC212	Computer Aided Drawing and Survey Software	2	ı	-	4	ı	-	-	1	60	40	100
8	SEPC214	Field Survey Practices -II	2	-	-	4		-	-		60	40	100
9	PR202	Minor Project	2	-	-	4	-	-	-	-	60	40	100
		TOTAL	20	14	-	12	-	-	-	-	-	-	900

SEPE1: Any one of the three subjects: 1. Estimating, Costing, Specification and Valuation, 2. Theory of Structure, 3. Mining Technology.

STUDENT CONTACT HOURS PER WEEK: 26 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment, AS/QZ – Assignment / Quiz, ATD- Attendance,

ESE - EndSemester Exam, PIA-Practical Internal Assessment, PEA-Practical External Assessment.

	5TH SEMESTER												
				CLASS/WK EXAMINATION S					N SCH	SCHEME			
SL	CODE	COURSE TITLE	CREDIT		INTERNAL								
NO				L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
1	SEPC301	Design of R.C.C. Structure	3	3	-	-	20	10	10	60	-	-	100
2	SEPC303	Carto-GIS	2	2	-	ı	20	10	10	60	-	-	100
3	SEPC305	Advanced Survey	2	2	-	ı	20	10	10	60	-	-	100
4	SEPC307	Route Survey	3	3	-	-	20	10	10	60	-	-	100
5	SEPE301	Program Elective -II	3	3	1	ı	20	10	10	60	-	-	100
6	SEPE303	Program Elective -III	3	3	-	ı	20	10	10	60	-	-	100
7	SEPC309	Field Survey Practices – III	3	-	-	6	-	-	-	-	60	40	100
8	SEPC311	Quantity Survey	1	-	-	2	-	-	-	•	60	40	100
9	SI301	Internship -II	1	-	-	ı	-	i	-	-	100	-	100
10	PR301	Major Project	1	-	-	2	-	-	-	-	60	40	100
		TOTAL	22	16		10	-	-	-	-	-	-	1000

SEPE2: Any one of the three subjects 1. Municipal Engineering, 2. Transportation Engineering, 3. Design of Steel Structure.

SEPE3: Any one of the three subjects 1. Setting out Survey, 2. Construction Management, 3. Landscape Design

STUDENT CONTACT HOURS PER WEEK: 26 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T –Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - EndSemester Exam, PIA-Practical Internal Assessment, PEA-Practical External Assessment.

	6TH SEMESTER												
				CLASS/WK EXAMINATIO					IOITAI	N SCH	SCHEME		
SL	CODE	COURSE TITLE	CREDIT		INTERNAL								
NO				L	Т	Р	INT	AS/QZ	ATD	ESE	PIA	PEA	TOTAL
	655.600.6		2	_			20	10	10	<i>(</i> 0			400
1	SEPC302	Transmission Line Survey	3	3	-	-	20	10	10	60	-	-	100
2	HU302 Entrepreneurship and Start-		3	3	-	-	20	10	10	60	-	-	100
	110302	up											
3	SEPE302	Program Elective-IV	3	3	-	-	20	10	10	60	-	-	100
4	SEOE302	Open Elective –I	3	3	ı	ı	20	10	10	60	-	ı	100
5	SEOE304	Open Elective -II	3	3	-	ı	20	10	10	60	-	ı	100
6	SESE302	Seminar	1	1	-	ı	ı	-	-	ı	100	-	100
7	PR302	Major Project	3	ı	1	6	-	-	ı		60	40	100
8	SEPC304	Survey Training Camp	2	1	-	4	-	-	1		60	40	100
		TOTAL	21	16	-	10	-	-	-	-	-	-	800

SEPE4: Any one of the three subjects 1. Building Planning and Drawing, 2. Construction Safety, 3. Township Planning. SEOE302: 1. Engineering Economics and Project Management

SEOE304: Any one of the three subjects 1. Disaster Management, 2. Industrial Management, 3. Environmental Engineering and Science.

STUDENT CONTACT HOURS PER WEEK: 26 Hrs. Theories and Practical Period of 60 Minutes each.

L – Lecture, T – Tutorial, P – Practical, INT- Internal Assessment AS/QZ – Assignment / Quiz ATD- Attendance ESE - EndSemester Exam, PIA-Practical Internal Assessment PEA-Practical External Assessment.

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20 20	



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)

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.	SUBJECT	CREDITS	PER	IODS			EVALUA	TION S	СНЕМЕ		
NO.			L	PR		THEORETICAL PRACTICAL			TICAL	Total Marks	
					TA	CT	Total	ESE	Internal	External	
1.	Principles of Electronic Communication	3	4	-	20	20	40	60	-	-	100
2.	Electronic Devices and Circuits	3	4	-	20	20	40	60	-	-	100
3.	Digital Electronics	2	3	-	20	20	40	60	-	-	100
4.	Electric circuits and network	3	4	-	20	20	40	60	-	-	100
5.	Computer Programming Language	2	3	-	20	20	40	60	-	-	100
6.	Principles of Electronic Communication Lab	1	-	3	-	-	-	-	60	40	100
7.	Electronic Devices and Circuits Laboratory	1	-	3	-	-	-	-	60	40	100
8.	Digital Electronics Laboratory	1	-	2	-	-	-	-	60	40	100
9.	Electric circuits and network Laboratory	1	-	3	-	-	-	-	60	40	100
10.	Computer Programming Language Laboratory	1	-	2	-	-	-	-	60	40	100
11.	Internship-I	1	-	-	-	-	-	-	-	-	100
	Total	19	18	13	100	100	200	300	300	200	1100

- STUDENT CONTACT HOURS PER WEEK: 31+2 = 33 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-I will be completely assessed internally.

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20 20	



Curriculum Structure of

Diploma in Mine Surveying [MIS]

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

Draft Syllabus for Semester -3 (Part-II) Mine Surveying Dept.

Curricular structure for semester-3 (Part –II) of the Full time Diploma Course in Mine Surveying

				Clas	s lev	el work		
Sl. No.	Category of Course	Code no.	Course Title	L	Т	P	Credit	Full marks
1	PCC	MSPC201	Elements of Surveying	2			2	100
2	PCC	MSPC203	Chain Surveying	2			2	100
3	PCC	MSPC205	Traverse Surveying	2	1		3	100
4	PCC	MSPC207	Elements of Mining	2			2	100
5	PCC	MSPC209	Area and Volume Calculation	2			2	100
6	PCC	MSPC211	Levelling and Contouring	2	1		3	100
7	PCC	MSPC213	Chain Surveying Lab			2	1	100
8	PCC	MSPC215	Traverse Surveying Lab			2	1	100
9	PCC	MSPC217	Auto CAD Lab			4	2	100
10	PCC	MSPC219	Levelling and Contouring Lab			2	1	100
11	Summer Internship- I (4 weeks after second Semester)	SI201					1	100
	Total			12	2	10	20	1100

Students contact hours per week: 24 HOURS

Each Theory and Practical period is of one hour each.

L - Lecture, T - tutorial, P - Practical, PCC - Programme Core Course

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits.

For Theory Courses:

The weightage of Internal assessment is 40% and for End Semester Exam is 60%. The student has to obtain at least 40% marks individually both in internal assessment and end semester exams to pass.

	Internal Assessment		End Semester External Assessment	Total
Mid. Sem.	Quizzes, Viva-voce,	Class	End Sem. Examination	Total
Tests	Assignments	Attendance	Eliu Selli. Exallillation	
20	10	10	60	100

For Practical Courses:

Internal Assessi	ment (Continuous	s Evaluation)	End Semester Exter Assessment	nal	Total
Assignments in	Class	Class	Assignment on the day	Viva	Total
classes	Performance	Attendance	of Viva voce	voce	
30	20	10	20	20 20	