

CURRICULAR STRUCTURE FOR PART - I FIRST SEMESTER OF THE
FULL-TIME DIPLOMA COURSES IN METALLURGICAL ENGINEERING

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	CONTACT PERIODS / WEEK			EXAMINATION SCHEME				FULL MARKS		PAGE No.
						INTERNAL		EXTERNAL		TH.	SES.	
						ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE			
		THEORETICAL PAPERS	LECTURE	TUTORIAL	SESSIONAL							
1.	* / 1 / T1 / CSS	COMMUNICATION SKILLS (STUDIES)	2	1	—	10	2.5	—	50	50	—	9
2.	* / 1 / T2 / PHY1	PHYSICS – I	3	—	—	10	2.5	15	35	50	—	10
3.	* / 1 / T3 / CHM1	CHEMISTRY – I	2	1	—	10	2.5	15	35	50	—	12
4.	* / 1 / T4 / MTHS	MATHEMATICS	5	—	—	20	5	30	70	100	—	13
5.	* / 1 / T5 / EMK	ENGINEERING MECHANICS	3	1	—	20	5	30	70	100	—	15
		SESSIONAL PAPERS	LECTURE	TUTORIAL	SESSIONAL	INTERNAL		EXTERNAL		TH.	SES.	—
6.	* / 1 & 2 / S1 / LPHY	PHYSICS LAB (GROUP – A)	—	—	3	12.5		—		—	—	51
7.	* / 1 & 2 / S2 / LCHM	CHEMISTRY LAB (GROUP – A)	—	—	3	12.5		—		—	—	52
8.	* / 1 & 2 / S3 / SED	ENGINEERING DRAWING (S) (GROUP – A)	—	—	6	50		—		—	—	53
9.	* / 1 & 2 / S4 / WSPR	WORKSHOP PRACTICE	—	—	6	50		—		—	—	57
* Code for discipline			TOTAL			—		—		350	—	—

CURRICULAR STRUCTURE FOR PART - I SECOND SEMESTER OF THE
FULL-TIME DIPLOMA COURSES IN METALLURGICAL TECHNOLOGY

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	CONTACT PERIODS / WEEK			EXAMINATION SCHEME				FULL MARKS		PAGE No.
						INTERNAL		EXTERNAL		TH.	SES.	
						ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE			
		THEORETICAL PAPERS	LECTURE	TUTORIAL	SESSIONAL							
1.	* / 2 / T1 / BEA	BUSINESS ECONOMICS & ACCOUNTANCY	4	—	—	20	5	30	70	100	—	27
2.	* / 2 / T2 / PHY2	PHYSICS – II	2	—	—	10	2.5	15	35	50	—	29
3.	* / 2 / T3 / CHM2	CHEMISTRY – II	2	—	—	10	2.5	15	35	50	—	30
4.	* / 2 / T4 / CA	COMPUTER APPLICATIONS	3	—	—	10	2.5	15	35	50	—	32
5.	* / 2 / T5 / EMTH	ENGINEERING MATHEMATICS	3	—	—	20	5	30	70	100	—	33
6.	* / 2 / T6 / SOM	STRENGTH OF MATERIALS	3	—	—	20	5	30	70	100	—	35
7.	* / 2 / T7 / ETK	ELECTRICAL TECHNOLOGY	2	—	—	10	2.5	15	35	50	—	36
8.	* / 2 / T8 / ED	ENGINEERING DRAWING (4 HR. EXAM.)	—	—	—	20	5	30	70	100	—	53
		SESSIONAL PAPERS	LECTURE	TUTORIAL	SESSIONAL	INTERNAL		EXTERNAL		TH.	SES.	—
9.	* / 1 & 2 / S1 / LPHY	PHYSICS LAB (GROUP – B)	—	—	2	12.5		25		—	50	51
10.	* / 1 & 2 / S2 / LCHM	CHEMISTRY LAB (GROUP – B)	—	—	2	12.5		25		—	50	52
11.	* / 1 & 2 / S3 / SED	ENGINEERING DRAWING (S) (GROUP – B)	—	—	6	50		100		—	200	53
12.	* / 1 & 2 / S4 / WSPR	WORKSHOP PRACTICE	—	—	6	50		100		—	200	57
13.	* / 2 / S5 / LCA	COMPUTER APPLICATIONS LAB	—	—	3	50		50		—	100	65
14.	* / 2 / S6 / LETK	ELECTRICAL TECHNOLOGY LAB	—	—	2	25		25		—	50	67
* Code for discipline			TOTAL			—		—		600	650	—

- q Each of Part I – 1st & 2nd semester is of 17 weeks duration of which 15 weeks are scheduled as contact weeks and 2 weeks are scheduled for holding two Centralised Internal Assessments.
- q Part I – 1st & 2nd semester consists of 36 & 40 contact periods per week respectively, and, 8 & 4 periods per week respectively are allocated for Student Centred Activities like Library, Guided Studies etc.
- q Marks distribution in Part – I : Theoretical – 950, Sessional – 650; Total – 1600.

CURRICULAR STRUCTURE FOR PART – II FIRST SEMESTER OF
DIPLOMA IN METALLURGICAL ENGINEERING

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	CONTACT PERIODS / WEEK		EXAMINATION SCHEME				FULL MARKS		PAGE No.
					INTERNAL		EXTERNAL		TH.	SES.	
					ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE			
THEORETICAL PAPERS		LECTURE	SESSIONAL	ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE	TH.	SES.		
1.	MET / 3 / T1 / ENVE	ENVIRONMENTAL ENGINEERING	3	—	20	5	30	70	100	—	5
2.	MET / 3 / T3 / BE	BASIC ELECTRONICS	3	—	20	5	30	70	100	—	9
3.	MET / 3 / T4 / BM	BASIC METALLURGY	4	—	20	5	30	70	100	—	11
4.	MET / 3 / T5 / FFR	FUEL, FURNACE & REFRACTORY	4	—	20	5	30	70	100	—	12
5.	MET / 3 / T6 / MTM	MECHANICAL TESTING OF METALS	3 + 1	—	20	5	30	70	100	—	14
		SESSIONAL PAPERS	Lecture	SESSIONAL	INTERNAL		EXTERNAL		TH.	SES.	—
6.	MET / 3 / S1 / LBE	BASIC ELECTRONICS LAB	—	3	50		50		—	100	17
7.	MET / 3 / S2 / LCAD	COMPUTER AIDED DRAFTING	—	3	50		50		—	100	—
8.	MET / 3 / S3 / LBM	BASIC METALLURGY LAB	—	4	50		50		—	100	18
9.	MET / 3 / S4 / LFFR	FUEL, FURNACE & REFRACTORY LAB	—	4	50		50		—	100	19
10.	MET / 3 / S5 / LMTM	MECHANICAL TESTING OF METALS LAB	—	4	50		50		—	100	20
11.	MET / 3 / S5 / LMTM	WORKSHOP PRACTICE FOR METALLURGY	—	3	50		50		—	100	—
TOTAL			17 + 1	21	—		—		500	600	—

?á In Part II – 1st Semester, 15 weeks are scheduled as contact weeks during which theoretical & sessional classes will take place and the two centralised internal assessments will take place in another 2 weeks.

?á Each contact week of this Part II – 1st Semester consists of 39 contact periods and other 5 periods are allocated for Library & Guided Studies.

CURRICULAR STRUCTURE FOR PART – II SECOND SEMESTER OF
DIPLOMA IN METALLURGICAL ENGINEERING

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	CONTACT PERIODS / WEEK		EXAMINATION SCHEME				FULL MARKS		PAGE No.
					INTERNAL		EXTERNAL		TH.	SES.	
					ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE			
THEORETICAL PAPERS		LECTURE	SESSIONAL	ASSESSMENT	ATTENDANCE	OBJECTIVE	SUBJECTIVE	TH.	SES.		
1.	MET / 4 / T1 / CSJ	COMMUNICATION SKILLS (JOB)	2	—	10	2.5	—	50	50	—	—
2.	MET / 4 / T2 / EM	EXTRACTIVE METALLURGY	4	—	20	5	30	70	100	—	—
3.	MET / 4 / T3 / PM1	PHYSICAL METALLURGY – I	4	—	20	5	30	70	100	—	—
4.	MET / 4 / T4 / MWF	METAL WORKING & FINISHING	4	—	20	5	30	70	100	—	—
5.	MET / 4 / T5 /	ELECTRICAL ENGG. & MECHANICAL ENGG.	3	—	20	5	30	70	100	—	—
		SESSIONAL PAPERS	Lecture	SESSIONAL	INTERNAL		EXTERNAL		TH.	SES.	—
6.	MET / 4 / S1 / LCSJ	COMMUNICATION SKILLS (JOB) LAB	—	2	25		25		—	50	—
7.	MET / 4 / S2 / LEM	EXTRACTIVE METALLURGY LAB	—	5	50		50		—	100	—
8.	MET / 4 / S3 / LPM1	PHYSICAL METALLURGY LAB – I	—	5	50		50		—	100	—
9.	MET / 4 / S4 / LMWF	METAL WORKING & FINISHING LAB	—	5	50		50		—	100	—
10.	MET / 4 / S5 /	MECHANICAL ENGG. & ELECTRICAL ENGG. LAB.	—	5	50		50		—	100	—
TOTAL			17	22	—		—		450	450	—

?á In Part II – 2nd Semester, 15 weeks are scheduled as contact weeks during which theoretical & sessional classes will take place and the two centralised internal assessments will take place in another 2 weeks. The industrial training will take place beyond this time period.

?á Each contact week of this Part II – 2nd Semester consists of 39 contact periods and other 5 periods are allocated for Library & Guided Studies.

?á Marks distribution of Part – II: Theoretical – 950, Sessional – 1050; Total – 2000.

CURRICULAR STRUCTURE FOR THE PART - III FIRST SEMESTER OF
DIPLOMA IN METALLURGICAL ENGINEERING

SL. No.	SUBJECT CODE	Subject of Study	CONTACT PERIODS / WEEK		EXAMINATION SCHEME				FULL MARKS		PAGE No.
					INTERNAL		EXTERNAL		Th.	SES.	
					THEORETICAL PAPERS		ASSESSMENT	ATTENDANCE			
11.	MET / 5 / T1 / IMNG	INDUSTRIAL MANAGEMENT	3	-	20	5	30	70	100	-	
12.	MET / 5 / T2 / IM	IRON MAKING	3	-	20	5	30	70	100	-	
13.	MET / 5 / T3 / PM2	PHYSICAL METALLURGY-II	3	-	20	5	30	70	100	-	
14.	MET / 5 / T4 / FT	FOUNDRY TECHNOLOGY	3	-	20	5	30	70	100	-	
15.	MET / 5 / T5 / WT	WELDING TECHNOLOGY	3	-	20	5	30	70	100	-	
16.	MET / 5 / T6 / FASI	FERRO ALLOYS & SPONGE IRON PRODUCTION	4	-	20	5	30	70	100	-	
		SESSIONAL PAPERS	Lecture	SESSIONAL	INTERNAL		EXTERNAL		Th.	SES.	
17.	MET / 5 / S1 / LIM	IRON MAKING LAB	-	5	50		50		-	100	
18.	MET / 5 / S2 / LPM2	PHYSICAL METALLURGY-II LAB	-	5	50		50		-	100	
19.	MET / 5 / S3 / LFT	FOUNDRY TECHNOLOGY LAB	-	5	50		50		-	100	
20.	MET / 5 / S4 / PROJ	PROJECT WORK (PART-A)	-	5	50		-		-	-	
			19	20					600	300	

CURRICULAR STRUCTURE FOR THE PART - III SECOND SEMESTER OF
DIPLOMA IN METALLURGICAL ENGINEERING

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	CONTACT PERIODS / WEEK		EXAMINATION SCHEME				FULL MARKS		PAGE No.
					INTERNAL		EXTERNAL		Th.	SES.	
					THEORETICAL PAPERS		ASSESSMENT	ATTENDANCE			
1.	MET / 6 / T1 / HTT	HEAT TREATMENT TECHNOLOGY	4	-	20	5	30	70	100	-	
2.	MET / 6 / T2 / SM	STEEL MAKING	4	-	20	5	30	70	100	-	
3.	MET / 6 / T3 / PMAS	PHYSICAL METALLURGY OF ALLOY STEEL	4	-	20	5	30	70	100	-	
4.	MET / 6 / T4 / EEC	ENERGY & ENVIRONMENT CONTROL	3	-	20	5	30	70	100	-	
		SESSIONAL PAPERS	Lecture	SESSIONAL	INTERNAL		EXTERNAL		Th.	SES.	
5.	MET / 6 / S1 / LWT	WELDING TECHNOLOGY LAB	-	5	50		50		-	100	
6.	MET / 6 / S2 / LHHT	HEAT TREATMENT TECHNOLOGY LAB	-	5	50		50		-	100	
7.	MET / 6 / S3 / LSM	STEEL MAKING LAB	-	5	50		50		-	100	
8.	MET / 6 / S4 / LEEC	ENERGY & ENVIRONMENT CONTROL LAB	-	3	25		25		-	50	
9.	MET / 6 / S5 / PROJ	PROJECT WORK (PART-B)	-	5	50		100		-	200	
10.	MET / 6 / S6 / SEM	SEMINAR	-	1	25		25		-	50	
11.	MET / 6 / S7 / VIVA	FINAL VIVA VOCE	-	-	50		50		-	100	
		TOTAL	15	24					400	700	

?ā Part – III Second Semester consists of 39 contact periods per week and 5 periods per week for Library & Guided Studies.

?ā Marks distribution: Theoretical – 1000, Sessional – 1000; Total – 2000 (FIRST SEMESTER : Theoretical – 600, Sessional – 300 & SECOND SEMESTER : Theoretical – 400, Sessional – 700).