



KAZI NAZRUL UNIVERSITY

SCHOOL OF MINES & METALLURGY

DIPLOMA IN METALLURGICAL ENGINEERING

Semester	Course Name	Course Type	Course Code	Course Details	L -T- P	Course Credit	Sem Credit	Internal Marks		End Sem Marks		Total Marks	Sem Marks
								Practical	Theoretical	Practical	Theoretical		
1st Semester	Communicative English	GC	DIPEMETG101	GC-1	1-1-0	2	25	-	30	-	70	100	1000
	Basic Physics	CC	DIPEMETC101	CC-1	2-0-2	3		30	30	70	70	200	
	Basic Chemistry	CC	DIPEMETC102	CC-2	2-0-2	3		20	30	80	70	200	
	Mathematics	CC	DIPEMETC103	CC-3	4-1-0	5		-	30	-	70	100	
	Engineering Mechanics	CC	DIPEMETC104	CC-4	3-1-0	4		-	30	-	70	100	
	Engineering Drawing	CC	DIPEMETC105	CC-5	2-0-4	4		20	15	30	35	100	
	Computer Fundamentals	GC	DIPEMETG102	GC-2	1-0-2	2		20	15	30	35	100	
	Workshop Practice-I	CCP-1	DIPEMETCP101	CCP-1	0-0-4	2		50	-	50	-	100	
2nd Semester	Business Economics & Accountancy	GC	DIPEMETG201	GC-3	3-0-0	3	26		30	-	70	100	1000
	Applied Physics	CC	DIPEMETC201	CC-6	2-0-2	3		30	15	70	35	150	
	Applied Chemistry	CC	DIPEMETC202	CC-7	2-0-2	3		20	15	80	35	150	
	Engineering Mathematics	CC	DIPEMETC203	CC-8	3-1-0	4			30	-	70	100	
	Strength of Materials	CC	DIPEMETC204	CC-9	2-1-0	3			30	-	70	100	
	Electrical Technology	GC	DIPEMETG202	GC-4	2-1-0	3			30	-	70	100	
	Engineering Drawing-Part II	CC	DIPEMETC205	CC-10	1-0-4	3		30	15	70	35	150	
	Workshop Practice-II	CCP	DIPEMETCP201	CCP-2	0-0-4	2		50	-	50	-	100	
	Development of Life Skill-I	CCP	DIPEMETCP202	CCP-3	1-0-2	2		25	-	25	-	50	
3rd Semester	FUNDAMENTALS OF ELECTRONICS	GC	DIPEMETG301	GC-5	2-0-2	3	23	20	15	30	35	100	800
	FUNDAMENTALS OF METALLURGY	CC	DIPEMETC301	CC-11	2-0-2	3		20	30	30	70	150	
	METALLURGICAL THERMODYNAMICS	CC	DIPEMETC302	CC-12	4-0-0	4		0	30	0	70	100	
	MECHANICAL TESTING OF METALS	CC	DIPEMETC303	CC-13	4-0-4	6		40	30	60	70	200	
	MECHANICAL ENGINEERING	GC	DIPEMETG302	GC-6	2-0-4	4		20	15	30	35	100	
	WORKSHOP PRACTICE	CCP	DIPEMETCP301	CCP-4	0-0-4	2		0	0	100	0	100	
	PROFESSIONAL PRACTICE - I	CCP	DIPEMETCP302	CCP-5	0-0-2	1		0	0	50	0	50	
	IRON MAKING PROCESS	CC	DIPEMETC401	CC-14	3-0-2	4		20	30	30	70	150	

4th Semester	PHYSICAL METALLURGY	CC	DIPEMETC402	CC-15	3-0-4	5	26	40	30	60	70	200	900
	METAL WORKING	CC	DIPEMETC403	CC-16	3-0-2	4		20	30	30	70	150	
	FUEL, FURNACE & REFRACTORY	GC	DIPEMETG401	GC-7	3-0-2	4		20	30	30	70	150	
	ELECTRICAL ENGINEERING	GC	DIPEMETG402	GC-8	2-0-2	3		20	15	30	35	100	
	COMPUTER PROGRAMMING	GC	DIPEMETG403	GC-9	1-0-2	2		0	0	50	0	50	
	DEVELOPMENT OF LIFE SKILL – II	CCP	DIPEMETCP401	CCP-6	1-0-2	2		0	0	50	0	50	
	PROFESSIONAL PRACTICE - II	CCP	DIPEMETCP402	CCP-7	1-0-2	2		0	0	50	0	50	
5th Semester	STEEL MAKING PROCESS	CC	DIPEMETC501	CC-17	3-0-2	4	25	20	30	30	70	150	850
	FOUNDRY TECHNOLOGY	CC	DIPEMETC502	CC-18	3-0-4	5		40	30	60	70	200	
	METAL PROCESSING	CC	DIPEMETC503	CC-19	4-0-2	5		20	30	30	70	150	
	ALLOY STEEL	DSE (ANY ONE)	DIPEMETDSE501	DSE-1	4-0-0	4		0	30	0	70	100	
	CAST IRON		DIPEMETDSE502										
	ENERGY & ENVIRONMENT CONTROL	GC	DIPEMETG501	GC--10	4-0-0	4		0	30	0	70	100	
	COMPUTER AIDED DRAFTING	CCP	DIPEMETCP501	CCP-8	0-0-2	1		0	0	50	0	50	
	INDUSTRIAL PROJECT & ENTREPRENEURSHIP DEVELOPMENT	CCP	DIPEMETCP502	CCP-9	0-0-2	1		0	0	50	0	50	
	PROFESSIONAL PRACTICE - III	CCP	DIPEMETCP503	CCP-10	0-0-2	1		0	0	50	0	50	
	6th Semester	ENGINEERING MATERIALS & CORROSION METALLURGY	CC	DIPEMETC601	CC-20	3-0-0		3	24	0	30	0	
HEAT TREATMENT TECHNOLOGY		CC	DIPEMETC602	CC-21	3-0-4	5	40	30		60	70	200	
FERRO ALLOYS		DSE(any one)	DIPEMETDSE 601	DSE-2	3-0-0	3	0	30		0	70	100	
SOLID STATE REDUCTION OF IRON			DIPMETDSE 602										
PHYSICAL METALLURGY OF NON - FERROUS METALS AND ALLOYS		CC	DIPEMETC603	CC-22	3-0-0	3	0	30		0	70	100	
INDUSTRIAL MANAGEMENT		GC	DIPEMETG601	GC-11	3-0-0	3	0	30		0	70	100	
PROJECT WORK & SEMINAR		CCP	DIPEMETCP601	CCP-11	0-0-6	3	0	0		100	0	100	
PROFESSIONAL PRACTICE – IV		CCP	DIPEMETCP602	CCP-12	0-0-6	3	0	0		50	0	50	
GENERAL VIVA – VOCE		CCP	DIPEMETCP603	CCP-13	0-0-2	1	0	0		100	0	100	
TOTAL CREDITS		149											5400