

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

100 LEVEL 1ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 101	R	General Chemistry I	2	1	3	4
CVE 105	R	History and Philosophy of Science	2	-	-	2
GNS 101	R	Use of English I	1	1	-	2
GNS 103	R	Information Retrieval	1	-	-	1
MTS 101	C	Introductory Mathematics I	2	1	-	3
MEE 101	R	Engineering Drawing I	1	-	6	3
PHY 101	R	General Physics 1	2	1	-	3
PHY 103	R	General Physics III.	1	1	-	2
PHY 107	R	General Physics Laboratory I.	-	-	3	1
	Total					21

2ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 102	R	General Chemistry II	2	1	3	4
GNS 102	R	Use of English II	1	1	-	2
GNS 106	R	Logic & Philosophy	2	-	-	2
MTS 102	R	Introductory Mathematics II	2	1	-	3
MTS 104	R	Introductory Applied Mathematics III	2	1	-	3
CSC 102	R	Introduction to Computing	2	-	-	2
MEE 102	C	Workshop Practice	0	-	6	2
PHY 102	R	General Physics II	2	1	-	3
PHY 108	R	General Physics Laboratory II	-	-	3	1
	Total					22

200 LEVEL 1ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 205	R	Physical Chemistry I	1	-	3	2
CSP 201	R	General Agriculture (Theory)	1	-	-	1
EEE 201	R	Basic Electrical & Electronics Engineering I	2	-	3	3
CSC 201	R	Introduction to Fortran Programming	2	-	3	3
MTS 201	R	Mathematical Methods I	2	1	-	3
MEE 201	C	Manufacturing Technology I	1	-	3	2
MEE 207	C	Applied Mechanics	2	1	-	3
MME 201	R	Science of Materials	2	1	-	3
MNE 201	R	Engineer-in-Society	1	-	-	1
	Total					21

University Required/Audited Courses for D.E students						
COURSE CODE		COURSE TITLE	L	T	P	Units
GNS 101	R	Use of English I	1	1	0	2
GNS 103	R	Information Retrieval	1	0	0	1
MEE 101	R	Engineering Drawing I	1	0	6	3

200 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
AGE 204	R	Basic Fluid Mechanics	2	-	3	3
CSP 210	R	General Agriculture (Practical)	-	-	6	2
CVE 208	R	Strength of Materials I	2	-	3	3
EEE 202	R	Basic Electrical & Electronics Engineering II	2	-	3	3
PMT 210	R	Principles of Economics	2	1	-	3
MEE 202	R	Engineering Drawing II	1	-	6	3
MEE 206	R	Basic Thermodynamics	2	1	3	4
MTS 202	R	Numerical Analysis I	2	1	-	3
	Total					24

University Required/Audited Courses for D.E students						
MEE 102	R	Workshop practice	0	-	6	2
GNS 102	R	Use of English II	1	1	-	2
GNS 106	R	Logic and Philosophy	1	1	-	2

200 LEVEL LONG VACATION TRAINING						
COURSE CODE		COURSE TITLE	L	T	P	Units
MEE 210	C	Students Works Experience Program/Entrepreneur I	-	-	12	4

300 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
MTS 315	R	Engineering Mathematics I	2	1	-	3
MME 301	C	Mineral Processing Technology I	2	-	3	3
MME 306	C	Ferrous Extraction and Refining	2	1	-	3
MME 307	C	Physical Metallurgy I	2	1	-	3
MME 313	C	Metallurgical Thermodynamics & Kinetics	2	1	-	3
MME 317	R	Polymeric Materials	2	-	-	2
MME 319	R	Metallurgical & Materials Lab. I	-	-	3	1
AGE 301	R	Engineering Statistics	2	-	-	2
EMT 301	R	Introduction to Entrepreneurship	2	-	-	2
	Total					22

300 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
MTS 316	R	Engineering Mathematics II	2	1	-	3
MME 302	C	Mineral Processing Technology II	2	1	-	3
MME 304	C	Phase Transformations	2	-	-	2
MME 306	C	Mechanical Processing of Materials	2	1	-	3
MME 308	C	Foundry Technology I	2	1	-	3
MME 312	C	Metallurgical & Materials Lab. II	-	-	3	1
MEE 302	R	Mechanical Engineering Design	2	-	3	3
***MNE 314	R	Technical Report Writing	2	-	-	2
EMT 302	R	Practical Skills in Entrepreneurship	-	-	9	3
	Total					23

LONG VACATION TRAINING						
COURSE CODE		COURSE TITLE	L	T	P	Units
MEE 326	C	Field Work Exercise/Entrepreneurship II				4

400 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
MTS 415	R	Engineering Mathematics III	2	1	-	3
MEE 401	C	Corrosion Engineering	2	1	-	3
MEE 403	C	Metal Forming Processes	2	1	-	3
MEE 405	C	Ceramics & Glass Technology	2	-	-	2
MEE 407	C	Material Characterization	2	-	-	2
MEE 409	C	Foundry Technology II	2	-	3	3
MEE 413	C	Heat Treatment Principles & processes	2	-	-	2
MME 429	C	Metallurgical & Materials Lab. II	-	-	3	1
***EEE 455	R	Information Technology in Engineering	2	-	-	2
		Total				21

2 ND SEMESTER	LONG VACATION STUDENTS INDUSTRIAL WORK					
COURSE CODE		COURSE TITLE	L	T	P	Units
MME 402	R	Industrial Training Assessed by Industrial based Supervisors	0	0	0	4
MME 404	R	Industrial Training Assessed by FUTA-Based Supervisors	0	0	0	4
MME 406	R	Student Report and Seminar Presentation	0	0	0	4
	Total	Total				12

500 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
MME 503	C	Metallurgical & Materials Process and Plant Design	2	1	-	3
MME 507	C	Physical Metallurgy I	2	1	-	3
MME 511	C	Technology Policy and Planning	2	-	-	2
MME 519	C	Seminar	-	-	3	1
MME 521	C	Non-Ferrous Extractive Metallurgy	2	-	3	3
MME 523	C	Joining and Welding Technology	1	-	3	2
MME 599	C	Final Year Student's Project	-	-	18	6
		Electives	2	-	-	2
	Total					22
ELECTIVES						
COURSE CODE		COURSE TITLE	L	T	P	Units
MME 525	E	Refractory Technology	2	-	-	2
MME 527	E	Nanotechnology	2	-	-	2
MME 529	E	Physical Properties of Materials	2	-	-	2

500 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
MME 502	C	Powder Metallurgy	2	-	-	2
MME 504	C	Heat and Mass Transfer	2	1	-	3
MME 510	C	Engineering Management and Law	2	1	-	3
MME 516	C	Selection of Engineering	2	-	-	2

		Materials				
MME 518	C	Materials Fracture and Failure Analysis	2	-	-	2
MME 520	C	Fuels, Furnace & Refractories	2	-	-	2
MME 524	C	Composite Materials	2	-	-	2
		Electives				2
		Total				18
ELECTIVES						
COURSE CODE		COURSE TITLE	L	T	P	Units
MME 518	E	Chemical & Electrochemical Processing of Minerals	2	-	-	2
MME 522	E	Cole and Coke Technology	2	-	-	2
MME 526	E	Environmental Engineering	2	-	-	2

