

MECHANICAL ENGINEERING														
Programme Structure of Levels I, II and III (180 Q 12)														
Level- I Foundation Level Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
HU161	English		COMPULSORY	2	2	0	4	20	80	25	--	--	--	125
SC161	Applied Mathematics -I		COMPULSORY	3	0	1	4	20	80	--	--	--	--	100
SC162	Applied Mathematics II		COMPULSORY	3	0	1	4	20	80	--	--	--	--	100
SC164	Engineering Physics		COMPULSORY	4	2	0	6	20	80	--	--	50	--	150
HU162	Communication Skills		COMPULSORY	2	2	0	4	20	80	25	--	--	--	125
SC169	Chemistry		COMPULSORY	4	2	0	6	20	80	25	--	25	--	150
6	TOTAL			18	8	2	28	100	400	100	--	100	--	700
Level - II Core Technology Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
AM261	Engineering Mechanics		COMPULSORY	4	2	0	6	20	80	25	25	--	--	150
CM264	Computer Fundamentals		COMPULSORY	2	2	0	4	0	0	25	--	50	--	75
EE263	Elements of Electrical Engineering		COMPULSORY	3	2	0	5	20	80	25	--	--	--	125
ET262	Elements of Electronics Engineering		COMPULSORY	3	2	0	5	20	80	25	--	--	--	125
ME262	Engineering Graphics		COMPULSORY	2	4	0	6	20	80	50	--	--	--	150
ME264	Computer Aided Drafting		COMPULSORY	0	4	0	4	0	0	50	--	50	--	100
WS261	Work Shop Practice		COMPULSORY	0	4	0	4	0	0	50	--	--	--	50
7	TOTAL			14	20	0	34	80	320	250	25	100	--	775
Level - III Auxiliary Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
GROUP (A) ANY TWO														
AU361	Environmental Science		ANY 2	2	1	0	3	20	80	--	--	--	--	100
AU362	Community Development			2	1	0	3	20	80	--	--	--	--	100
AU363	Renewable & sustainable energy mgmt			2	1	0	3	20	80	--	--	--	--	100
AU364	Engineering Economics			2	1	0	3	20	80	--	--	--	--	100
AU365	Industrial Psychology			2	1	0	3	20	80	--	--	--	--	100
AU367	Programming in C			1	2	0	3	0	0	50	--	50	--	100
SC361	Applied Maths-III	SC161, SC162		2	0	1	3	20	80	--	--	--	--	100
2							6	40	160	50	--	50	--	200
GROUP B (NON CREDIT & NON EXAM)														
NE376	Development of Soft Skills-I		COMPULSORY	1	2	0	3	--	--	25	--	--	--	25
NE377	Development of Soft Skills-II		COMPULSORY	1	2	0	3	--	--	25	--	--	--	25
4	TOTAL			2	4	0	6	0	0	50	--	--	--	50

MECHANICAL ENGINEERING														
Programme Structure of Levels IV, V, & VI (180 Q 12)														
Level IV – Basic Technology Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
AM 470	Strength of Materials	AM261	COMPULSORY	4	2	0	6	20	80	25	25	--	--	150
EE 470	Electric Machines & Controls	EE263/ET262	COMPULSORY	3	2	0	5	20	80	50	--	--	--	150
ME 461	Thermodynamics & Heat Engines		COMPULSORY	3	2	0	5	20	80	25	25	--	--	150
ME 469	Fluid Mechanics & Fluid Machinery		COMPULSORY	4	2	0	6	20	80	25	25	--	--	150
ME 464	Mechanical Measurement		COMPULSORY	2	1	0	3	10	40	25	--	--	#	75
ME 467	Theory of Machines & Mechanisms		COMPULSORY	4	2	0	6	20	80	25	25	--	--	150
ME 468	Machine Drawing	ME262	COMPULSORY	2	4	0	6	20	80	25	--	--	--	125
MT 468	Engineering Materials	SC169	COMPULSORY	2	1	0	3	20	80	25	--	--	--	125
WS 461	Manufacturing Processes		COMPULSORY	2	4	0	6	20	80	50	25	--	--	175
9	TOTAL			26	20	0	46	170	680	275	125	0	--	1250
#-Practical of 2 hrs alternate weeks														
Level V – Applied Technology Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
ME 561	Power Engineering	ME461	COMPULSORY	4	2	0	6	20	80	50	25	--	--	175
ME 562	Industrial Hyd. & Pneumatics.		COMPULSORY	4	2	0	6	20	80	50	25	--	--	175
ME 563	Prod. Planning and Control & CAPP		COMPULSORY	4	2	0	6	20	80	50	25	--	--	175
ME 566	Machine Design & CADD	AM470	COMPULSORY	4	2	0	6	20	80	50	25	--	--	175
ME 565	Metrology & CAQC		COMPULSORY	4	2	0	6	20	80	50	25	--	--	175
WS 561	Production Technology & CAM		COMPULSORY	4	2	0	6	20	80	25	25	--	--	150
WS 562	CNC & Unconv. Adva. Mnfg.	WS461	COMPULSORY	3	3	0	6	20	80	50	25	--	--	175
7	TOTAL			27	15	0	42	140	560	325	175	--	--	1200
Level VI – Allied (Humanity Science) Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
MA 661	Principles of Management		COMPULSORY	3	0	0	3	20	80	--	--	--	--	100
MA 662	Enterpreneurship Development		Any-1	3	0	0	3	20	80	--	--	--	--	100
MA 663	Project Management			3	0	0	3	20	80	--	--	--	--	100
MA 664	Material Management			3	0	0	3	20	80	--	--	--	--	100
MA 665	Supervisory Management			3	0	0	3	20	80	--	--	--	--	100
MA 666	Total Quality Management			3	0	0	3	20	80	--	--	--	--	100
MA 667	Software Project Management			3	0	0	3	20	80	--	--	--	--	100
MA 668	Management Information Systems			3	0	0	3	20	80	--	--	--	--	100
2	TOTAL				6	0	0	6	40	160	--	--	--	--

MECHANICAL ENGINEERING														
Programme Structure of Level VII (180 Q 12)														
Level VII – Diversified Courses														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY/ OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	REM.	T.M.
ME761	Project & Seminar	90	COMPULSORY	0	8	0	8	--	--	50	50	--	--	100
ME762	Robotics & Mechatronics		ANY-2	3	2	0	5	20	80	25	25	--	--	150
ME763	Refrigeration & Air condationing			3	2	0	5	20	80	25	25	--	--	150
ME764	CIM			3	2	0	5	20	80	25	25	--	--	150
ME765	Instrumentation & Control			3	2	0	5	20	80	25	25	--	--	150
ME766	Tool Engineering.			3	2	0	5	20	80	25	25	--	--	150
ME767	QFD			3	2	0	5	20	80	25	25	--	--	150
ME768	MRP I & II			3	2	0	5	20	80	25	25	--	--	150
ME769	Product Life-cycle Mngnt.			3	2	0	5	20	80	25	25	--	--	150
ME770	Supply Chain Mngnt.			3	2	0	5	20	80	25	25	--	--	150
ME771	Reliability Engg.			3	2	0	5	20	80	25	25	--	--	150
ME772	Hybrid Power Mngnt. Emerging Power Applications			3	2	0	5	20	80	25	25	--	--	150
ME773	Automobile Engineering			3	2	0	5	20	80	25	25	--	--	150
3	TOTAL					6	12	0	18	40	160	100	100	--
TOTAL CREDITS				180										
Theory to Practical ratio				53.9 43.9										
L - Lecture, P-Practical, C- Ceditis, PA- Progressive Assessment, PR- Practical, TW- Term Work, OR- Oral, REM. - Remarks, T.M.- TOTAL MARKS, Each Lecture / Practical period is of one clock hour,														
(Prof. S. V. Chaudhari) CDC In-charge							(Prof. M. S.Deshmukh) Chairman, PBOS							