



**B.E - MECHANICAL ENGINEERING
 (FOUR YEAR FULL TIME)
 CURRICULUM - 2009**

SEMESTER I

Code No	Course Title	L	T	P	C
Theory					
XME101	Mathematics- I	3	1	0	4
XME102	Technical English	3	1	0	4
XME103	Applied Physics	3	1	0	4
XME104	Engineering Materials and Metallurgy	3	0	0	3
XME105	Engineering Graphics	2	0	3	4
XME106	Fundamentals of Computing	4	0	0	4
Practical					
XME107	Applied Physics Lab	0	0	3	2
XME108	Fundamentals of Computing Lab	0	0	3	2
XME109	Basic Workshop Practice	0	0	3	2

Total Hours: 33

Total Credits: 29

SEMESTER II

Code No	Course Title	L	T	P	C
Theory					
XME201	Mathematics – II	3	1	0	4
XME202	Engineering Mechanics	3	1	0	4
XME203	Applied Chemistry	3	1	0	4
XME204	Elements of Electrical Engineering	3	1	0	4
XME205	Manufacturing Technology I	3	0	0	3
XME206	Thermodynamics	3	1	0	4
Practical					
XME 207	Applied Chemistry Lab	0	0	3	2
XME 208	Communication Skills Enhancement	2	0	2	3
XME 209	Electrical Machines and Drives Lab	0	0	3	2

Total Hours: 33

Total Credits: 30

SEMESTER III

Code No	Course Title	L	T	P	C
Theory					
XME301	Mathematics-III	3	1	0	4
XME302	Energy and Environmental Engineering	3	0	0	3
XME303	Elements of Electronics Engineering	3	0	0	3
XME304	Strength of Materials	3	1	0	4
XME305	Fluid Mechanics and Machines	3	1	0	4
XME306	Machine Drawing	2	0	3	4
Practical					
XME307	Strength of Materials and Fluid machinery lab	0	0	3	2
XME308	Electronics Lab	0	0	3	2

Total Hours: 29

Total Credits: 26

SEMESTER IV

Code No	Course Title	L	T	P	C
Theory					
XME401	Probability and Statistics	3	1	0	4
XME402	Mechanics of machines-I	3	1	0	4
XME403	Thermal engineering	3	0	0	3
XME404	Metrology & Measurements	3	0	0	3
XME405	Manufacturing Technology-II	3	0	0	3
XME406	Professional Ethics and Human values	3	0	0	3
Practical					
XME407	Thermal engineering lab	0	0	3	2
XME408	Machines Lab - I	0	0	3	2

Total Hours: 26

Total Credits: 24

SEMESTER V

Code No	Course Title	L	T	P	C
Theory					
XME501	Numerical methods	3	1	0	4
XME502	Mechanics of machines-II	3	1	0	4
XME503	Machine Element Design	3	1	0	4
XME504	CAD/CAM	3	0	0	3
XME505	Automobile Engineering	3	0	0	3
XME506	Total Quality Management	3	0	0	3
Practical					
XME507	Metrology and Measurements Lab	0	0	3	2
XME508	CAD/CAM lab	0	0	3	2

Total Hours: 27

Total Credits: 25

SEMESTER VI

Code No	Course Title	L	T	P	C
Theory					
XME601	Design of Transmission systems	3	1	0	4
XME602	Heat and Mass Transfer	3	1	0	4
XME603	Gas Dynamics and Jet Propulsion	3	1	0	4
XME604	Entrepreneurship and Management	3	0	0	3
XME605*	ELECTIVE-I	3	0	0	3
XME606*	ELECTIVE-II	3	0	0	3
Practical					
XME607	Dynamics Lab	0	0	3	4
XME608	Heat and Mass Transfer lab	0	0	3	2

Total Hours: 27

Total Credits: 27

SEMESTER VII

Code No	Course Title	L	T	P	C
Theory					
XME701	Operations Research	3	1	0	4
XME702	Engineering economics & cost analysis	3	0	0	3
XME703	Renewable Energy Sources	3	0	0	3
XME704	Power Plant Engineering	3	0	0	3
XME705	Mechatronics	3	0	0	3
XME706	Fluid Power Engineering	3	0	0	3
Practical					
XME707	Mechatronics Lab	0	0	3	2
XME708	Machines Lab-II	0	0	3	2

Total Hours: 25

Total Credits: 23

SEMESTER VIII

Code No	Course Title	L	T	P	C
Theory					
XME801	Industrial Engineering & Quality Control	3	0	0	3
XME802	Social Engineering	3	0	0	3
XME803*	Elective-III	3	0	0	3
XME804*	Elective-IV	3	0	0	3
Practical					
XME805	Project Work	0	0	20	12

Total Hours: 32

Total Credits: 24

Total Credits: 218

LIST OF ELECTIVES

ELECTIVE I

* Elective Code	Course Title	L	T	P	C
605A	Refrigeration & Air conditioning	3	0	0	3
605B	Automotive Electronics	3	0	0	3
605C	Energy Conversion Systems	3	0	0	3

ELECTIVE II

* Elective Code	Course Title	L	T	P	C
606A	Finite Element Methods	3	0	0	3
606B	Optimum Utilization of Heat and Power	3	0	0	3
606C	Advanced I.C Engines	3	0	0	3

ELECTIVE III

* Elective Code	Course Title	L	T	P	C
803A	Mathematical Modeling and simulation-MATLAB	3	0	0	3
803B	Computational Fluid Dynamics	3	0	0	3
803D	Nano Technology	3	0	0	3

ELECTIVE IV

* Elective Code	Course Title	L	T	P	C
804A	Automation and Control Engineering	3	0	0	3
804B	Modern Manufacturing Technology- JIT, AMT	3	0	0	3
804C	Reliability Engineering	3	0	0	3

NOTE:

- L → LECTURE HOURS
- T → TUTORIAL HOURS
- P → PRACTICAL HOURS
- C → CREDITS HOURS