

ANNA UNIVERSITY :: CHENNAI – 600 025

**DEGREE OF BACHELOR OF ENGINEERING**  
(8 SEMESTER PROGRAMME)

**BRANCH: B.E. MECHANICAL ENGINEERING**  
*CURRICULUM*

Code No.	Course Title	L	T	P	M
<b>SEMESTER 1</b>					
(Applicable to candidates to be admitted in 2003–2004)					
<b>THEORY</b>					
CM125	Chemistry I	3	0	0	100
GE131	Engineering Mechanics	3	1	0	100
L1	Language Elective I	3	1	0	100
MA131	Mathematics I	3	1	0	100
PH125	Physics I	3	0	0	100
<b>PRACTICAL</b>					
PH126	Physics Laboratory	0	0	2	100
GE132	Computer Practice I	1	0	3	100
GE133	Workshop Practice	0	0	4	100
CM126	Chemistry Laboratory	0	0	2	100
<b>SEMESTER 2</b>					
(Applicable to candidates to be admitted in 2003 – 2004)					
<b>THEORY</b>					
EE151	Electrical Engineering	2	0	0	100
EC152	Electronics Engineering	2	0	2	100
L2	Language Elective II	3	0	0	100
MA132	Mathematics II	3	1	0	100
ME132	Thermodynamics	3	0	0	100
PH138	Physics II	3	0	0	100
CM132	Chemistry II	3	0	0	100
<b>PRACTICAL</b>					
GE135	Computer Practice II	1	0	3	100
GE134	Engineering Graphics	1	0	3	100

1. The Syllabi for other courses of I and II semester may be followed as given under Syllabi 1 – 4.
2. The Revised Syllabi for MA131, MA132 should be followed.

The following curriculum is applicable to all candidates studying 2<sup>nd</sup> and 3<sup>rd</sup> year in the academic year 2003- 2004

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
<b>SEMESTER 3</b>					
<b>THEORY</b>					
ME231	Applied Thermodynamics	3	0	0	100
EE252	Electrical Machines and Drives	2	0	2	100
CE253	Fluid Mechanics and Machinery	3	1	0	100
MA231	Mathematics III	3	1	0	100
ME232	Kinematics of Machines	3	1	0	100
<b>PRACTICAL</b>					
CE254	Fluid Mechanics and Machinery Laboratory	0	0	3	100
ME234	Machine Drawing	1	0	3	100
ME233	Manufacturing Technology lab	0	0	3	100
<b>SEMESTER 4</b>					
<b>THEORY</b>					
PH233	Applied Materials Science	3	0	0	100
ME236	Dynamics of Machines	3	1	0	100
MA038	Numerical Methods	3	1	0	100
ME235	Production Technology	3	0	0	100
CE251	Strength of Materials	3	0	0	100
ME237	Thermal Engineering	3	1	0	100
<b>PRACTICAL</b>					
ME238	Computer Graphics and Drafting	1	0	3	100
CE252	Strength of Materials Lab	0	0	2	100
<b>SEMESTER 5</b>					
<b>THEORY</b>					
ME335	Computer Aided Design	2	0	2	100
ME331	Design of Machine Elements	3	0	0	100
MF331	Engineering Metrology	2	0	2	100
ME333	Gas Dynamics and Space Propulsion	3	1	0	100
ME334	Machine Tools	3	0	0	100
ME332	Measurements and Controls	3	0	0	100
<b>PRACTICAL</b>					
ME336	Dynamics Lab	0	0	4	100
ME337	Thermal Engineering Laboratory I	0	0	3	100
<b>SEMESTER 6</b>					
<b>THEORY</b>					
E1***	Elective I	3	0	0	100
ME338	Computer Aided Manufacturing	3	0	0	100
ME339	Design of Jigs, Fixtures and Press Tools	3	0	0	100
ME342	Design of Transmission System	3	1	0	100

ME340	Heat and Mass Transfer	3	1	0	100
ME341	Hydraulics and Pneumatics Controls	3	0	0	100

**PRACTICAL**

ME344	Thermal Engineering Laboratory II	0	0	4	100
ME343	CAM Laboratory	0	0	4	100

**SEMESTER 7**

**THEORY**

ME433	Mechatronics	3	0	0	100
ME432	Power plant Engineering	3	0	0	100
MF441	Process Planning and Cost Estimation	3	0	0	100
CE071	Principles of Environmental Science and Engineering	3	0	0	100
GE035	Professional Ethics	3	0	0	100
E2***	Elective II	3	0	0	100

**PRACTICAL**

ME439	Comprehension	0	0	2	100
ME434	Microprocessor Lab	0	0	4	100

**SEMESTER 8**

**THEORY**

ME437	Automobile Engineering	3	0	0	100
ME435	Engineering Management	3	0	0	100
ME436	Operations Research	3	1	0	100
GE406	Total Quality Management	3	0	0	100

**PRACTICAL**

ME444	Project Work	0	0	12	200
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## ELECTIVES FOR B.E. MECHANICAL ENGINEERING

### ELECTIVES FOR VI SEMESTER

Code No.	Course Title	L	T	P	M
GE034	Creativity, Innovation and New Product Development	2	0	2	100
ME034	Refrigeration and Air Conditioning	3	0	0	100
ME035	Design of Heat Exchangers	3	0	0	100
ME042	Turbo Machinery	3	0	0	100
ME043	Advanced IC Engineering	3	0	0	100
ME044	Special Casting Processes	3	0	0	100
ME045	Industrial Robotics	3	0	0	100
ME047	Experimental Stress Analysis	3	0	0	100
ME048	Mechanical Vibrations	3	0	0	100
ME049	Industrial Tribology	3	0	0	100
ME050	Design for Manufacture	3	0	0	100
ME055	Combustion Engineering	3	0	0	100
HS053	Communication Skills for Engineers	2	0	2	100

### ELECTIVES FOR VII SEMESTER

Code No.	Course Title	L	T	P	M
ME036	Cryogenic Engineering	3	0	0	100
ME037	Wind and Solar Power Engineering	3	0	0	100
ME038	Energy Engineering and Management	3	0	0	100
ME039	Nuclear Engineering	3	0	0	100
ME040	Environment Pollution	3	0	0	100
ME041	Waste Heat Recovery and Co-generation	3	0	0	100
ME046	Finite Element Techniques	3	0	0	100
ME051	Design of Pressure Vessels and Piping	3	0	0	100
ME052	Composite Materials Technology	3	0	0	100
ME053	Mechanics of Fracture	3	0	0	100
ME054	Unconventional Machining Processes	3	0	0	100
ME056	Entrepreneurship Development	3	0	0	100
ME057	Technology Management	3	0	0	100
ME058	Marketing Management	3	0	0	100
ME059	Information Technology	3	0	0	100
ME060	Computational Fluid Flow and Heat Transfer	3	0	0	100
GE037	Intellectual Property Rights (IPR)	3	0	0	100
GE038	Indian Constitution and Society	3	0	0	100

## LANGUAGE ELECTIVES

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
HS035	Technical German I	3	1	0	100
HS036	Technical German II	3	1	0	100
HS037	Technical Japanese I	3	1	0	100
HS038	Technical Japanese II	3	1	0	100
HS039	Technical French I	3	1	0	100
HS040	Technical French II	3	1	0	100
HS041	English I	3	1	0	100
HS042	English II	3	1	0	100

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