

ANNA UNIVERSITY :: CHENNAI – 600 025

DEGREE OF BACHELOR OF ENGINEERING
(8 SEMESTER PROGRAMME)

BRANCH: B.E. AUTOMOBILE ENGINEERING
CURRICULUM

Code No.	Course Title	L	T	P	M
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I SEMESTER

(Applicable to candidates to be admitted in 2003–2004)

THEORY

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

PRACTICAL

GE132	Computer Practice I	1	0	3	100
GE133	Workshop Practice	0	0	4	100
CM126	Chemistry Laboratory	0	0	2	100
PH126	Physics Laboratory	0	0	2	100

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II SEMESTER

(Applicable to candidates to be admitted in 2003–2004)

THEORY

CM136	Chemistry II	3	0	2	100
IT132	Electrical Engineering	3	0	0	100
EL132	Electronics Engineering	3	0	0	100
L2	Language Elective II	3	1	0	100
MA132	Mathematics II	3	1	0	100
PH138	Physics II	3	0	0	100

PRACTICAL

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 2nd and 3rd year in the academic year 2003- 2004

III SEMESTER

THEORY

PR231	Elements of Production Techniques	3	0	0	100
AT231	Engineering Thermodynamics	3	1	0	100
AE231	Fluid Mechanics and Machinery	3	0	0	100
MA231	Mathematics III	3	1	0	100
AT232	Solid Mechanics	3	1	0	100

PRACTICAL

AT234	Automotive Engine Components Laboratory	0	0	3	100
PR232	Material Testing and IC Engines Laboratory	0	0	3	100
PR234	Production Process Laboratory	0	0	3	100

IV SEMESTER

THEORY

AT236	Automotive Chassis	3	1	0	100
AT235	Automotive Petrol Engines	4	0	0	100
PR236	Mechanics of Machines	3	1	0	100
MA038	Numerical Methods	3	1	0	100

PRACTICAL

AT237	Automotive Chassis Components Laboratory	0	0	3	100
AT238	Computer Aided Drafting	0	0	4	100
IT244	Electrical Sciences Laboratory	0	0	3	100

V SEMESTER

THEORY

AT333	Automotive Diesel Engines	3	0	0	100
AT332	Automotive Electrical Systems	3	0	0	100
AT334	Automotive Materials and Metallurgy	3	0	0	100
AT335	Automotive Transmission	3	1	0	100
AT331	Engineering Design	3	0	0	100
AT336	Instrumentation and Metrology	3	0	0	100

PRACTICAL

AT338	Computer Aided Machine Drawing	0	0	3	100
AT337	Computer Aided Vehicle Design Data Characteristics	1	0	3	100
AT339	Engine and Vehicle Testing Laboratory	0	0	3	100

VI SEMESTER

THEORY

AT340	Automotive Electronics	3	0	0	100
AT344	Automotive Pollution and Control	3	0	0	100
AT342	Manufacturing Processes	3	0	0	100
AT345	Quality Control and Reliability Engineering	3	0	0	100
AT343	Two and Three Wheelers	3	0	0	100
AT341	Vehicle Body Engineering	3	0	0	100

PRACTICAL

AT347	Automotive Pollution and Electronics Laboratory	0	0	3	100
AT348	Comprehension	0	0	3	100
AT346	Computer Aided Design Application in Automotive Engine Design	1	0	6	100

VII SEMESTER**THEORY**

CE071	Principles of Environmental Science and Engineering	3	0	0	100
GE035	Professional Ethics	3	0	0	100
PR431	Management Sciences	3	0	0	100
AT431	Vehicle Dynamics	3	0	0	100
AT432	Vehicle Maintenance	3	0	0	100

PRACTICAL

AT433	Computer Aided Design Application for Automotive Chassis Design	2	0	3	100
AT435	Industrial Visit / Training	0	0	4	100
AT434	Vehicle Maintenance Laboratory	0	0	3	100

VIII SEMESTER**THEORY**

GE406	Total Quality Management	3	0	0	100
E1***	Elective I	3	0	0	100

PRACTICAL

AT437	Project Work	0	0	12	200
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LIST OF ELECTIVE COURSES

VII SEMESTER

Code No.	Course Title	L	T	P	M
AT035	Alternate Fuels and Energy Systems	3	0	0	100
AT039	Combustion and Heat Transfer	3	0	0	100
AT041	Computer Graphics and Design	3	0	0	100
AT042	Computer Integrated Manufacturing Systems	3	0	0	100
AT044	Finite Element Methods	3	0	0	100
AT046	Microprocessor Application in Automobiles	3	0	0	100
AT047	Optimization for Engineering Design	3	0	0	100
AT049	Theory and Design of Jigs and Fixtures	3	0	0	100
AT051	Renewable Sources of Energy	3	0	0	100
AT052	Modern Vehicle Technology	3	0	0	100
GE034	Creativity, Innovation and New Product Development	3	0	0	100
HS053	Communication Skills for Engineers	2	0	2	100

VIII SEMESTER

Code No.	Course Title	L	T	P	M
AT034	Advanced Theory of IC Engines	3	0	0	100
AT036	Automotive Aerodynamics	3	0	0	100
AT037	Automotive Air-conditioning	3	0	0	100
AT038	Offroad Vehicles	3	0	0	100
AT040	Computer Aided Vehicle Design	3	0	0	100
AT043	Computer Simulation of IC Engines Process	3	0	0	100
AT045	Fleet Management	3	0	0	100
AT048	Production Processes for Automotive Components	3	0	0	100
AT050	Tractor and Farm Equipments	3	0	0	100
AT053	Total Life Cycle Management	3	0	0	100
GE037	Intellectual Property Rights (IPR)	3	0	0	100
GE038	Indian Constitution and Society	3	0	0	100

LANGUAGE ELECTIVES

Code No.	Course Title	L	T	P	M
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