

**DR S. & S.S. GHANDHY COLLEGE OF ENGINNERING  
AND TECHNOLOGY**

**GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)**

***DIPLOMA AUTOMOBILE ENGINEERING***

**CURRICULUM BOOKLET**

**AUTOMOBILE ENGINEERING DEPARTMENT**

## SEMESTER 1

<u>SUB CODE</u>	<u>SUBJECT NAME</u>	<u>CATEGORY</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>TOTAL</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>TOTAL</u>
<a href="#"><u>4300001</u></a>	Mathematics	Basic Sciences	3	1	0	4	70	30	0	0	100
<a href="#"><u>4300002</u></a>	Communication Skills in English	Humanities & Social Sciences	2	0	2	3	70	30	25	25	150
<a href="#"><u>4300004</u></a>	Applied Physics	Basic Sciences	3	0	2	4	70	30	25	25	150
<a href="#"><u>4300007</u></a>	Engineering Drawing	Engineering Sciences	2	0	4	4	70	30	25	25	150
<a href="#"><u>4300015</u></a>	Sports and Yoga	Audit	0	0	2	0	0	0	50	0	50
<a href="#"><u>4310001</u></a>	Basics of Civil Engineering	Engineering Sciences	0	2	2	3	0	0	25	25	50
<a href="#"><u>4310201</u></a>	Auto Trade Practice	Program Core	0	0	4	2	0	0	25	25	50

## SEMESTER 2

<b><u>SUB CODE</u></b>	<b><u>SUBJECT NAME</u></b>	<b><u>CATEGORY</u></b>	<b><u>L.</u></b>	<b><u>T.</u></b>	<b><u>P.</u></b>	<b><u>TOTAL</u></b>	<b><u>E</u></b>	<b><u>M</u></b>	<b><u>I</u></b>	<b><u>V</u></b>	<b><u>TOTAL</u></b>
4300003	Environment and Sustainability	General Science	3	0	0	3	70	30	0	0	100
4300008	Engineering Mechanics	Engineering Sciences	3	1	2	5	70	30	25	25	150
4300014	Basics of Electrical and Electronic Engineering	Engineering Sciences	0	2	2	3	0	0	25	25	50
4300019	Computer Applications and Graphics	Engineering Sciences	0	0	4	2	0	0	25	25	50
4300020	Engineering Material	Program Core	3	0	2	4	70	30	25	25	150
4301901	Engineering Workshop practice	Engineering Sciences	0	0	4	2	0	0	25	25	50
4320202	Thermodynamics & Hydraulics	Program Core	3	1	0	4	70	30	0	0	100

## SEMESTER 3

<b><u>SUB CODE</u></b>	<b><u>SUBJECT NAME</u></b>	<b><u>CATEGORY</u></b>	<b><u>L.</u></b>	<b><u>T.</u></b>	<b><u>P.</u></b>	<b><u>TOTAL</u></b>	<b><u>E</u></b>	<b><u>M</u></b>	<b><u>I</u></b>	<b><u>V</u></b>	<b><u>TOTAL</u></b>
4330201	Automobile Engine	Program Core	3	0	2	4	70	30	25	25	150
4330202	Automobile Transmission & Mechanism	Program Core	3	0	2	4	70	30	25	25	150
4330203	Automobile Electrical and Electronic System	Program Core	3	0	2	4	70	30	25	25	150
4330204	Fuels and Pollution Control System	Program Core	3	0	2	4	70	30	25	25	150
4330205	Vehicle Body Engineering	Program Core	2	0	2	3	70	30	25	25	150
4330206	Automobile Design & Drafting	Program Core	2	2	2	5	70	30	25	25	150

## SEMESTER 4

<b><u>SUBCODE</u></b>	<b><u>SUBJECTNAME</u></b>	<b><u>CATEGORY</u></b>	<b><u>L.</u></b>	<b><u>T.</u></b>	<b><u>P.</u></b>	<b><u>TOTAL</u></b>	<b><u>E</u></b>	<b><u>M</u></b>	<b><u>I</u></b>	<b><u>V</u></b>	<b><u>TOTAL</u></b>
4300003	Environment and Sustainability	compulsory	3	0	0	3	70	30	0	0	100
4340001	Essence of Indian Knowledge and Tradition	Elective(Any one)	2	0	0	2	70	30	25	25	150
4340002	Contributor Personality Development	Elective(Any one)	2	0	0	2	70	30	25	25	150
4340003	Integrated Personality Development Course	Elective(Any one)	2	0	0	2	70	30	25	25	150
4340201	Automotive Heating & Air Conditioning	compulsory	2	0	2	3	70	30	25	25	150
4340202	Automotive Mechanics	compulsory	2	2	0	4	70	30	0	0	100
4340203	Recent Trends in Automobile	compulsory	2	0	2	3	70	30	25	25	150
4340204	Manufacturing Technology	compulsory	3	0	2	4	70	30	25	25	150
4340205	Automobile Professional Practice-1	compulsory	0	0	6	3	0	0	50	50	100

## SEMESTER 5

<u>SUBCODE</u>	<u>SUBJECTNAME</u>	<u>CATEGORY</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>TOTAL</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>TOTAL</u>
4350201	Industrial Training	compulsory	0	0	30	15	0	0	500	300	800

## SEMESTER 6

<u>COURSE</u>	<u>COURSE TITLE</u>	<u>CATEGORY</u>	<u>TEACHING SCHEME (HOURS)</u>			<u>EXAMINATION SCHEME</u>					
			L	T	P	-	<u>THEORY MARKS</u>		<u>PRACTICAL</u>		-
-	-	-	L	T	P	CREDITS (L+T+P)	ESE	PA	ESE	PA	GRAND TOTAL
4300021	Entrepreneurship and Start-ups	compulsory	3	0	0	3	70	30	0	0	100
4360201	Maintenance & Service -I	compulsory	2	0	2	4	70	30	25	25	150
4360202	Maintenance & Service -II	compulsory	2	0	2	4	70	30	25	25	150
4360203	Maintenance & Service -III	compulsory	2	0	2	4	70	30	25	25	150
4360204	Electric & Hybrid vehicle	compulsory	2	0	2	4	70	30	25	25	150
4360205	Transport	compulsory	3	1	0	4	70	30	0	0	100

	management & motor Industry										
4360206	Automobile professional practice-2	compulsory	0	0	6	6	0	0	50	50	100
TOTAL			18	0	11	29	350	150	80	180	800