

GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT

**COURSE CURRICULUM
COURSE TITLE: MOTOR VEHICLE ACTS AND LOSS ASSESSMENT
(COURSE CODE:3360205)**

Diploma Programme in which this course is offered	Semester in which offered
Automobile Engineering	Sixth

1. RATIONALE

Now days different models of vehicles are launched by many companies in the Indian markets and the vehicle population is increasing day by day. Because of this number of cases of accidents and complexities in insurance settlements are also increasing. In this situation there are opportunities for automobile engineers to work as valuer/assessor for different insurance companies for assessing the loss to the vehicle and settling the claims. Looking to this, the course is designed to provide the students understanding of the provisions regarding traffic control and offences, different types of insurance policies and procedure for settlement of claims related to accidents. This course will also make the students more equipped with the assessment of vehicle losses.

2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of skills leading to the achievement of the following competency:

- **Apply knowledge of Motor vehicle acts, insurance policy and procedure for claims to be settled against accidents.**

3. COURSE OUTCOMES

Students will be able to:

- Describe motor vehicle acts.
- Describe general provision regarding maintenance of motor vehicle for safety & pollution control.
- Use guide lines for different offences & penalty procedure for traffic control.
- Describe different provisions of motor insurance.
- Analyse effect of impact on accidental vehicle.
- Use claim procedure for assessing various losses of accidental vehicle.

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE	PA	ESE	PA	100
3	0	0	3	70	30	00	00	

Legends: **L**-Lecture; **T** – Tutorial/Teacher Guided Student Activity; **P** - Practical; **C** – Credit;; **ESE** - End Semester Examination; **PA** - Progressive Assessment.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Course Outcomes in Cognitive Domain according to NBA terminology)	Topics and Sub-topics
Unit – I PRELIMINARY ABOUT TRANSPORT AUTHORITIES	1a. Describe basic Functions of transport authorities. 1b. Explain anatomy of different vehicles. 1c. Describe procedure to obtain the permit.	1.1 Functions of Transport authorities 1.2 The key terms used in the motor vehicle act 1.3 The classification and anatomy of different types of vehicle like Two wheelers, Three wheelers, Four wheelers, Multi wheelers, Imported vehicles and miscellaneous vehicle 1.4 The necessity of permit 1.5 The provision regarding the permit and forms used for granting permit 1.6 Special provision relating to State Transportation Undertaking.
Unit– II CONSTRUCTION EQUIPMENT AND MAINTENANCE OF MOTOR VEHICLE	2a. Describe general provision regarding maintenance of motor vehicle for safety & pollution control.	2.1 General provisions regarding construction and maintenance of motor vehicle 2.2 Provisions regarding : Lamps, Brakes, Horn, Silencer, Mirror, Safety glass, Wind screen wiper, Tyres, Speedometer, Steering, Springing, Direction indicator and stop light, First Aid Box, Emission of smoke, vapour and grit, For attaching side-car to a motor-cycle
Unit– III OFFENCES AND PENALTY PROCEDURE FOR TRAFFIC CONTROL	3a. Describe various provisions regarding traffic control. 3b. Describe the guide lines for different offences & provision for the punishment of offences. 3c. Explain the procedure for penalty regarding offences.	3.1 Limits of Speed and loading limit of vehicle with respect to power to weight ratio 3.2 Provisions regarding vehicle with Left-hand control 3.3 The duties of driver and owner. 3.4 The provisions regarding (i) Motor vehicle temporarily leaving or visiting India. (ii) Payment of compensation on the principle of no fault. (iii) Punishment of offences. (iv) Disobedience, obstruction and refusal of information (v) Allowing driving of vehicle by unauthorized person (vi) Offences relating to Licences (vii) Using the vehicle without registration of permit (viii) Driving the vehicle exceeding

Unit	Major Learning Outcomes (Course Outcomes in Cognitive Domain according to NBA terminology)	Topics and Sub-topics
		permissible weight (ix) Driving the uninsured vehicle (x) Power to detain the vehicles used without certificate of registration of permit 3.5 Guide Line for following offences such as : (i) Driving recklessly or dangerously (ii) Driving while under the influence of drink or drugs (iii) Taking part in unauthorized race or trial of speed (iv) Driving when disqualified (v) Obtaining or applying for a licence without giving particulars of endorsement (vi) Failing to stop on the occurrence of accident
Unit– IV TYPES OF VEHICLE INSURANCE.	4a. Describe different types of insurance covered in motor vehicles.	4.1 Origin, history and development of insurance. 4.2 Act liability only 4.3 Third party only. 4.4 Comprehensive policy. 4.5 Policies with Zero Depreciation Option 4.6 Policy term and condition.
Unit– V VEHICLE IMPACT ANALYSIS.	5a. Analyse effect of impact on accidental vehicle.	5.1 Causes of accidents. 5.2 Effect of Impact from any one side 5.3 Head on collision. 5.4 Vehicle topples. 5.5 Failure of vehicle.
Unit– VI INSURANCE SURVEY AND INVESTINGATI ON OF CLAIM	6a. Describe role of surveyor and loss adjustor. 6b. Explain Claim procedure of various loss assessments.	6.1 Role of surveyor and loss adjustor. 6.2 Licensing authority and controller of insurance. 6.3 Empanelment of surveyor. 6.4 Claim Procedure Intimation, Site visit, Garage visit, Checking of documents (Paper pertaining related to claim), Photography, Estimate and claim form, Passing of estimate (i) Cost of parts (ii) Cost of repairing (iii) Labour, Preparation of survey reports and submission 6.5 Various types of loss assessment. 6.6 Important aspects of survey 6.7 Fraud claims 6.8 Connected to MACT

6. SUGGESTED SPECIFICATION TABLE WITH HOURS & MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks (Duration – 42 Hours)			
			R Level	U Level	A Level	Total
I.	Preliminary about transport authorities	06	00	04	06	10
II.	Construction equipment and maintenance of motor vehicle	06	04	06	00	10
III.	Control of traffic offences, penalty & procedure	10	04	04	08	16
IV.	Types of insurance	06	02	02	06	10
V.	Vehicle Impact analysis	04	02	02	04	08
VI.	Insurance survey and investigations of claims	10	04	04	08	16
	Total	42	15	22	33	70

Legends:

R = Remembrance; U = Understanding; A = Application and above levels (Revised Bloom's taxonomy).

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

7. SUGGESTED LIST OF EXPERIMENTS

(No laboratory experiments in the teaching scheme.)

8. SUGGESTED LIST OF STUDENT ACTIVITIES

Following is the list of proposed student activities like:

- i. Seminar by Students on a given topic
- ii. Prepare survey report of accidental Vehicle(two wheeler, three wheeler, four wheeler)
- iii. Fill up various types of forms/formats
- iv. Write assignments (classroom, library, home)
- v. Report writing on claim procedure

9. SPECIAL INSTRUCTIONAL STRATEGIES (if any)

- i. Arrange visit at R.T.O., any Insurance company, authorized workshop
- ii. Case study on survey report

10. SUGGESTED LEARNING RESOURCES**A. List of Books**

Sr.No	Author	Title of Books	Publication
1	Government of India	Motor vehicles Act, 1989	Government of India
2	Government of Gujarat	The Gujarat Motor vehicles Rules, 1989	Government of Gujarat
3	Government of India	The Central Motor vehicle Rules, 1989	Government of India
4	Universal's Legal Manual	Motor Vehicle Laws (Act and regulation) ISBN- 978-81-7534-936-0	Universal Law Publishing Co. Pvt Ltd
5	Dr. L.P.Gupta	Insurance claims solutions ISBN- 978-9383303038	Dr. L P Gupta
6	Rudolf Limpert	Motor vehicle Accident Reconstruction & Cause Analysis 7 th addition	Lexis Nexis Publication

B. List of Major Equipment/ Instrument Not Required**C. List of Software/Learning Websites**

Sr. No.	Topic	URL Address
1	Auto Insurance Claims Process	http://youtu.be/J-vrjgKqqSQ
2	Car Crash Compilation # 359 August 2014 - Sample Accident Videos	http://youtu.be/vJVrFjzNj3w
3	Claims Video	http://youtu.be/JRDN6hwCIjs
Or Complete Playlist in one URL https://www.youtube.com/playlist?list=PLPvqVA0h0J6gqQc2XkNjYzaCwbimt4aaA		
Rules		
1	Central Motor Vehicle Rules1989.pdf	https://drive.google.com/folderview?id=0BwlcAhaTpxajdnU4c052WW03TGc&usp=sharing
2	Gujarat Motor Vehicle RULES_1989.pdf	
3	THE MOTOR VEHICLES ACT, 1988.pdf	

11. COURSE CURRICULUM DEVELOPMENT COMMITTEE**Faculty Members from Polytechnics**

- Mr.D.A.Dave, H.O.D., Auto.Dept. Sir Bhavsinhji Polytechnic Inst., Bhavnagar.
- Mrs.M.N.Vibhakar, Lecturer, Automobile Dept. DR.S&SS Gandhi Polytechnic, Surat
- Mr.D.J.Gohel, Lecturer, Automobile Dept., C.U.Shah Polytechnic, Surendranagar
- Mr.V.B.Patel, Lecturer, Automobile Engg. Dr. J.N.Mehta Government Polytechnic, Amreli

Coordinator and Faculty Members from NITTTR Bhopal

- Prof. K. K. Jain, Professor, Deptt. of Mechanical engineering, NITTTR, Bhopal
- Dr. C. K. Chugh, Professor, Deptt. of Mechanical engineering, NITTTR, Bhopal