

1152AU130

REGULATORY MECHANISM FOR TRANSPORTATION SYSTEMS

L T P C

3 0 0 3

1. Preamble

This course imparts knowledge of regulatory mechanism for vehicle certification, control of traffic, insurance and acts & rules for off road and speciality vehicle.

2. Pre-requisite

NIL

3. Course Outcomes

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
C01	Explain the Motor Vehicle Act	K2
C02	Describe state motor vehicle act to certify the vehicle on the safety aspects.	K2
C03	Explain the trends in controlling traffic and procedure of insurance investigation.	K2
C04	Describe the vehicle approval procedure for certification.	K2
C05	Illustrate the acts and rules of off-road and specialty vehicles.	K2

(K2-understand, K3-Apply, K4-Analysis)

4. Correlation with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	H	H	H	M	L	H							L	L
CO2	H	H	H	M	L	H							L	L
CO3	H	H	H	M	L	H							L	L
CO4	H	H	H	M	L	H							L	L
CO5	H	H	H	M	L	H							L	L

H- Strong; M-Medium; L-Low

5. Course Content

UNIT I REGULATORY FRAMEWORK OF CMVR

L-9

Introduction to CMVR 1989, Introduction to Licenses of Drivers of Motor Vehicles, Licensing of Drivers of Motor Vehicles - Unified Drivers Licensing Registry, Licensing - Modified Fitness, Driving Test, Refresher Training - Registration of Motor Vehicles - Unified Motor Vehicle Registration System, Fitness of Vehicles, Suspension of Registration, Cancellation of Registration, Unique Identification Number/Registration Number, Control of Transport Vehicles - Tourist Permit and National Permit, Centralized Permit and Tax Submission System, Construction Equipment and Maintenance Of Motor Vehicles.

UNIT II INTRODUCTION TO VEHICLE CERTIFICATION

L-9

Introduction to State Motor Vehicle Acts, Compliance of Motor Vehicles, Dimensions of Motor Vehicles, Tyre Requirements for the Motor Vehicles, Braking System Compliance, Steering System Compliance, Wiping System Compliance, Lights and Light Signaling Requirements Including Installation, Mirror and Horn Requirements and Installation, Exhaust Emissions and Smoke Arrangements and Requirements, Speed Limits and Speedometer, Additional Safety Components

UNIT III CONTROL OF TRAFFIC AND INSURANCE **L-9**

Control of Traffic, Traffic Signals and New Trends in the Control of Traffic, Requirements of Highway Police and Role of RTOs, Insurance of Motor Vehicle against Third Party, Third Party Risk, Necessity of Insurance and its Risk Coverage, Settlement if Insurance and Procedure of Investigation, Introduction to Claims Tribunal, Offence and Penalty Procedure, Provisions of Punishment and Offences, List of Offences and Penalties

UNIT IV PROCEDURE FOR VEHICLE CERTIFICATION **L-9**

Vehicle Approval Procedure, Bus Body Code Approval Procedure, Light and Light Signaling Device Mirror, Horn Compliance of Transport of Vehicles, Introduction of Safety Enhancement of Public Transport Vehicles, Type Approval and Conformity of Production Procedures for Safety Critical Components, Introduction to Relevant AIS and IS Pertaining to Vehicle Certification

UNIT V ACTS AND RULES **L-9**

Acts and Rules for Off Road Vehicles, Acts and Rules for Specialty Vehicles, Acts and Rules for Govt. Department Vehicles

Total: 45 Periods

6. Text Books

1. Peter R. White: Public Transport: Its Planning, Management and Operation (Natural and Built Environment Series, Kindle Edition, September 2008).
2. John Doke – Fleet Management, Mc Graw Hill, USA.
3. Kitchin. L.D –Bus Operation , Illiffie and sons Co, London, III edition

7. References

1. CMVR 1989
2. The Motor Vehicle Act 1988
3. Automotive Industry Standard