

TRANSPORT MANAGEMENT AND MOTOR VEHICLE ACT**Course Code : 315375****Programme Name/s : Automobile Engineering.****Programme Code : AE****Semester : Fifth****Course Title : TRANSPORT MANAGEMENT AND MOTOR VEHICLE ACT****Course Code : 315375****I. RATIONALE**

This course enables students to understand the transportation system as a whole, including the various modes of transportation, their advantages and disadvantages, and how they work together. Transport Management provides knowledge of government rules, regulations and standards, essential for those entering the transportation industry. The transport industry offers excellent employment opportunities for Automobile Diploma Engineers, such as service engineers, fleet managers, depot managers, and insurance surveyors etc. To excel in these roles, they require in-depth knowledge of the Motor Vehicle Act, taxation, insurance, record-keeping, vehicle estimation and valuation, standard operating procedures, and effective driving skills. This knowledge is crucial for developing transport-related policies, ensuring safety regulations, and meeting environmental and legal standards while providing quality services.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME

Apply legal aspects related to motor vehicle act in effective transport management.

III. COURSE LEVEL LEARNING OUTCOMES (COS)

Students will be able to achieve & demonstrate the following COs on completion of course based learning

- CO1 - Interpret the Motor Vehicle Act and Traffic Rules
- CO2 - Implement concept of Taxation and Insurance in vehicle registration
- CO3 - Manage the business processes involved in buying and selling vehicles
- CO4 - Select suitable mode of transportation and vehicle according to specific requirements
- CO5 - Distinguish the role of various research organizations in technological advancements and innovations in the motor industry

IV. TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category/s	Learning Scheme					Credits	Assessment Scheme												Total Marks	
				Actual Contact Hrs./Week			SLH	NLH		Paper Duration	Theory				Based on LL & TL				Based on SL				
															Practical								
				CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA				
							Max	Min							Max	Min	Max	Min	Max	Min			
315375	TRANSPORT MANAGEMENT AND MOTOR VEHICLE ACT	TMM	DSC	4	-	-	2	6	2	3	30	70	100	40	-	-	-	-	25	10	125		

Total IKS Hrs for Sem. : 1 Hrs

Abbreviations: CL- ClassRoom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 10 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.
7. * Self learning includes micro project / assignment / other activities.

V. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
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Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
1	TLO 1.1 Interpret the given terms used in Motor Vehicle Act. TLO 1.2 Describe procedure for obtaining the given type of licence according to Motor Vehicle Act. TLO 1.3 Describe procedure for registration of the given type of motor vehicle according to Motor Vehicle Act. TLO 1.4 Apply knowledge of Offenses, Penalties, and Procedures to Address Violations of Traffic Rules. TLO 1.5 Describe the given advanced traffic control system with its features. TLO 1.6 Interpret various traffic signs, explaining their significance and applications. TLO 1.7 Describe the duties and responsibilities of drivers and conductors in various operational contexts. TLO 1.8 Describe the roles and functions of the State and Regional Transport Authority in transport regulation and management.	Unit - I Introduction to Motor Vehicle Act 1.1 Transport systems in ancient India: Trade logistics (IKS) 1.2 Motor Vehicle Act: Brief description, Short titles and Definitions of terms used. 1.3 Licensing of Drivers and conductors of Motor Vehicle: a) Driver's Licence - Necessity, Eligibility criteria, Documents required, or's Licence, Power to disqualify conductor's licence, Renewal of conductor's licence. c) Duties and responsibilities of driver and co Procedure to obtain Learner's Licence and Permanent Driving Licence, Driving Test, Validity and Renewal of driving licence, Restriction on use of learner's licence as a driving licence, Addition of class to the driving licence, Suspension or cancellation of driving licence. b) Conductor's License – Necessity, Eligibility criteria, Application for grant of conductor's licence, Revocation of Conductor's Licence, Power to disqualify conductor's licence, Renewal of conductor's licence. c) Duties and responsibilities of driver and conductor. 1.4 Registration of Vehicles: Necessity of registration, Exemption from registration, Procedure of registration of motor vehicles, Display of Registration mark, Validity of certificate of registration, Renewal of registration, Temporary registration, Transfer of Ownership of Motor Vehicle, Suspension and cancellation of registration. 1.5 Offences, Penalties and Procedures: - Regarding driving of vehicle and violation of laws. 1.6 Transport Authorities and Control of Transport: a) Transport authorities and their functions, motor vehicle department Maharashtra, b) Necessity of Permits, Types of Permit -Stage Carriage Permit, Contract Carriage Permit, Private Service Vehicle Permit, Goods Carriage Permit, Tourist permit, National Permit, Temporary Permit, Exemption from Permit 1.7 Control of Traffic: Traffic Signs and Signals, Vehicle navigation system, vehicle tracking system, Advance traffic control devices, intelligent transport system, Smart card.	Case Study Lecture Using Chalk-Board Cooperative Learning Presentations

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Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
2	TLO 2.1 Describe general provisions regarding construction and maintenance of the given class of motor vehicle. TLO 2.2 Describe method of levying tax for the given class of motor vehicle. TLO 2.3 Describe significance of the given type of motor vehicle insurance. TLO 2.4 Describe the procedure for claiming compensation in the given situation.	Unit - II Construction of Motor Vehicle, Taxation and Insurance 2.1 Construction of Motor Vehicle: Overall dimensions, General provision regarding construction and maintenance of motor vehicle, Power of state and central government to make rules. 2.2 Taxation: Objectives, Basis of taxation, Methods of levying tax to motor vehicle, Tax structure for motor vehicles in Maharashtra, Modes of payment of the tax, Tax exemption, Refund of tax. 2.3 Insurance: Types of Motor Vehicle insurance – Comprehensive and Third-Party insurance, Procedure to claim compensation, Motor Accident Claim Tribunal, Liability without fault in certain cases, Provision of compensation in Hit and Run case.	Presentations Lecture Using Chalk-Board Cooperative Learning Case Study
3	TLO 3.1 Describe the duties and responsibilities of a surveyor in the given condition. TLO 3.2 Describe the procedure used for accident survey and valuation of vehicle. TLO 3.3 Describe the significance of warranty for the given vehicle. TLO 3.4 Identify the factors to be considered when buying a new vehicle. TLO 3.5 Categorise the factors to be considered when buying a specific type of vehicle in a given condition. TLO 3.6 Describe procedure for selling the given type of vehicle.	Unit - III Estimation and Valuation of Vehicle 3.1 Role of surveyor: Eligibility for surveyor, Procedure to obtain surveyor's licence, Duties and responsibilities of Surveyor. 3.2 Procedure of accident survey and valuation of vehicle, Claim investigation and Accident Survey Report. 3.3 Importance of warranty system and protection of law. 3.4 Buying a new vehicle: Factors to be considered - Ex-showroom price and on road price, use of vehicle, when and where to buy. 3.5 Buying used vehicles: When and where to buy - Dealers, used car firms, Private sellers, Garages, Auctions. 3.6 Sale of used vehicles: Procedures - Before, During and after sale of vehicle, Auctions, Garages, Private sale, preparing the vehicle documents, selling price.	Presentations Lecture Using Chalk-Board Cooperative Learning Case Study

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Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
4	TLO 4.1 Interpret the given terms used in transport operation. TLO 4.2 Compare different modes of transportation for the given conditions. TLO 4.3 Describe the criteria used for vehicle selection for the given transport operation. TLO 4.4 Describe services provided by transport organization to the given stakeholders. TLO 4.5 Identify the factors to be considered in Bus scheduling for the given requirement. TLO 4.6 Draw a layout of bus depot for the given facilities. TLO 4.7 Calculate the fare/ freight charges of vehicle as per given data. TLO 4.8 Explain the significance of records kept in the given transport organization.	Unit - IV Passenger and Goods transport operation. 4.1 Terms used in transportation: Transport vehicle, Public service vehicle, Goods vehicle, Public place, Depot, Route, Trip, Crew, Time table, Vehicle schedule, Fare, Freight charges. 4.2 Modes of transportation and comparison of urban and rural transport. 4.3 Basic elements in Transport Management – Market Potential, Selection of vehicle, Organization setup, Legal compliance, Policies of transport organization towards Passenger and employee service. 4.4 Bus and Crew scheduling: Basic factors in bus, crew (staff) scheduling. 4.5 Bus depot layout: Site selection for depot, Layout, Passenger amenities and infrastructural facilities required. 4.6 Fare and Freight charge calculation in transport organization. 4.7 Record Keeping: Log book, Trip operational sheet, Vehicle ledger, Truck history card, Monthly operational sheet, Goods consignment note, Types of bookings.	Presentations Case Study Cooperative Learning Lecture Using Chalk-Board
5	TLO 5.1 Draw organizational structure of the given transport organization. TLO 5.2 Explain the working of the given transport organization with schematic diagram. TLO 5.3 Describe role of the given research organization in relation to road transport.	Unit - V Motor Transport and Research organizations 5.1 Structure and working of Transport Organizations - MSRTC, BEST 5.2 Functions and Role of Research Organizations: Central Institute of Road Transport (CIRT), Automotive Research Association of India (ARAI), Vehicle Research Development and Establishment (VRDE), Central Road Research Institute (CRRI), Petroleum Conservation and Research Association (PCRA).	Lecture Using Chalk-Board Presentations Case Study Site/Industry Visit

VI. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL / TUTORIAL EXPERIENCES : NOT APPLICABLE.**VII. SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)****Assignment**

- Prepare a report on registration Process of Motor Vehicle – Steps involved in registration process of given class of motor vehicle.
- Modern traffic management: Case study of implemented modern traffic management system.
- Prepare a report on transfer of ownership: Formalities involved in the given case of transfer of ownership (Examples- Within state/region, Interstate, Class of vehicle, change of owner)
- Transport Organization Management: Prepare a case study report on passenger transport organizations
- Visit Saarathi website to prepare a report on faceless services available on motor vehicle department Maharashtra containing relevant application forms and required documents
- Prepare a visit report on Central Institute of Road Transport/ Automotive Research Association of India/Vehicle Research Development and Establishment/Central Road Research Institute/ Petroleum Conservation and Research Association.
- Prepare a record of forms required for the different activities carried out in transport industries
- Prepare an accidental survey report for accidental vehicle.
- Prepare a report on various e-platforms used in motor vehicle department.
- Prepare a case study on goods transport organizations like VRL logistics Ltd., GATI, TCI, CONCOR etc.
- Prepare a case study on app-based taxi/ rikshaw services.

Note :

- Above is just a suggestive list of microprojects and assignments; faculty must prepare their own bank of microprojects, assignments, and activities in a similar way.
- The faculty must allocate judicious mix of tasks, considering the weaknesses and / strengths of the student in acquiring the desired skills.
- If a microproject is assigned, it is expected to be completed as a group activity.
- SLA marks shall be awarded as per the continuous assessment record.
- For courses with no SLA component the list of suggestive microprojects / assignments/ activities are optional, faculty may encourage students to perform these tasks for enhanced learning experiences.
- If the course does not have associated SLA component, above suggestive listings is applicable to Tutorials and maybe considered for FA-PR evaluations.

VIII. LABORATORY EQUIPMENT / INSTRUMENTS / TOOLS / SOFTWARE REQUIRED : NOT APPLICABLE**IX. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table)**

Sr.No	Unit	Unit Title	Aligned COs	Learning Hours	R-Level	U-Level	A-Level	Total Marks
1	I	Introduction to Motor Vehicle Act	CO1	16	2	8	10	20
2	II	Construction of Motor Vehicle, Taxation and Insurance	CO2	6	2	4	6	12

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Sr.No	Unit	Unit Title	Aligned COs	Learning Hours	R-Level	U-Level	A-Level	Total Marks
3	III	Estimation and Valuation of Vehicle	CO3	6	2	4	6	12
4	IV	Passenger and Goods transport operation.	CO4	8	2	8	6	16
5	V	Motor Transport and Research organizations	CO5	4	2	4	4	10
Grand Total				40	10	28	32	70

X. ASSESSMENT METHODOLOGIES/TOOLS**Formative assessment (Assessment for Learning)**

- tests and assignments

Summative Assessment (Assessment of Learning)

- End semester examination

XI. SUGGESTED COS - POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes* (PSOs)		
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2	PSO-3
CO1	3	2	-	-	3	3	3			
CO2	3	3	2	2	3	3	3			
CO3	3	3	3	2	3	3	3			
CO4	3	3	2	2	2	3	3			
CO5	-	-	2	-	3	2	3			

Legends :- High:03, Medium:02, Low:01, No Mapping: -
 *PSOs are to be formulated at institute level

XII. SUGGESTED LEARNING MATERIALS / BOOKS

Sr.No	Author	Title	Publisher with ISBN Number
1	Ministry of Transport, Government of India	Central Motor Vehicle Rules 1989	Government of India
2	KLR Publications	The Motor Vehicles Act, 1988 (Bare Act) With Notes	Karnataka Law Reporter Publications
3	Dr.L.P.GUPTA	Insurance Claims Solutions	2016th edition (1 January 2013) ISBN-13 978-9383303038

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Sr.No	Author	Title	Publisher with ISBN Number
4	Government of India	Annual Report:Motor Vehicle Accident Fund & Compensation to Victims of Hit and Run Motor Accidents Scheme, 2022	Motor Vehicle Accident Fund Trust General Insurance Council
5	IRDA	Insurance Act,1938 - incorporating all amendments till 2021	Insurance Regulatory and Development Authority of India(IRDAI)
6	Sudarsanam Padam	Bus Transport in India: The Structure, Management and Performance of Road Transport	South Asia Books, ISBN-13 978-8120202221
7	G. John Gunaseelan	Public Sector Road Transport Corporation A Comparative Study with Private Sector	Deep & Deep Publications ISBN-13 978-8176290814

XIII . LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://morth.nic.in/	Ministry of road transport and highways
2	https://parivahan.gov.in/parivahan/	Intelligent Transport Systems
3	https://parivahan.gov.in/parivahan//node/2702	motor vehicle related services by transport department of government of India
4	https://parivahan.gov.in/parivahan//node/2697	Tourist Permit
5	https://parivahan.gov.in/parivahan//node/2699	Intelligent Transport Systems
6	https://transport.maharashtra.gov.in/1035/Home	Motor vehicle related services in Maharashtra state
7	https://parivahan.gov.in/parivahan//node/2702	Next generation mParivahan
8	https://parivahan.gov.in/parivahan//node/2700	Vehicle location tracking system
9	https://parivahan.gov.in/parivahan//node/2696	BH series
10	https://irdai.gov.in/	motor vehicle insurance related services

Note :

- Teachers are requested to check the creative common license status/financial implications of the suggested online educational resources before use by the students

MSBTE Approval Dt. 24/02/2025**Semester - 5, K Scheme**