

B.E Semester: VI
Automobile Engineering
Subject Name: Transport management and laws (AE605)

Course Objective:

- To present a problem oriented in depth knowledge of transport management and laws.
- To address the underlying concepts and methods behind transport management and laws.

Teaching / Examination Scheme:

SUBJECT		Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L	T	P	Total		THEORY		IE	CIA	PR. / VIVO	
CODE	NAME	Hrs	Hrs	Hrs	Hrs		Hrs	Marks	Marks	Marks	Marks	
AE605	Transport management and laws	4	0	0	4	4	3	70	30	20	-	120

Detailed Syllabus:

Topic no	Details
1	Elements of Mass Transportation: History of transport, modes of transport, types of transport.
2	Transport Management: Transport organization structure, operations, General set up, transport industry, government / (STU) State Government Undertakings and private Bus transport organizations. Bus depot organisation structure. Truck feet operators organization. Economics of Road Transport: Theory of fares and cost of services, fare charging, costing and statistics of operating cost.
3	Planning for New Transport Organization: Geographical considerations, economic factors, vehicles used, planning of trips. Concept of BRTS operations. Organisation of Transport Services: Records and fleet management, vehicles schedule, booking and reservation, statistical records and shipment center, recording of goods transport.
4	Motor Vehicle Act: Acts & definitions, Licensing of drivers and conductors , registration of vehicles, control of transport, RTO and other regulations , offences, penalties and procedures, types of form and procedures, licensing of taxies and buses, rules and regulations, testing and passing of vehicles.
5	Taxation: Structure, method of laying taxation, goods vehicle taxation, passenger vehicle taxation, mode of payment, tax exemption, one / life time taxation. Service Life of vehicles. Toll tax reasons & operational management. Build Operate Transfer arrangement.

6	<p>Accident & Prevention Vehicle accident, laws, injury, safety precautions, road transport regulations.</p> <p>Insurance & Finance Classes/types of insurance, accident claims and settlements, duty of driver in case of accident, hire purchase.</p>
7	<p>Laws Related to Pollution Under Control (PUC): Pollution Under control certification agency, Authority & procedure for PUC certification agency. Harmful exhaust gas constituents, permissible limits, Euro / Bharat Stage -I, II, III, IV norms and implementation, testing and measurements.</p>

Lesson Planning:

Sr.No.	Date/Week	Unit No.	% Weightage	Topic No:
1	1 st , 2 ^{ed} , 3 ^{ed}	Unit 1	20 % .	1,2
2	4 th , 5 th , 6 th	Unit 2	20 %	3,5
3	7 th , 8 th , 9 th	Unit 3	20 %	4
4	10 th , 11 th , 12 th	Unit 4	20 %	6
5	13 th , 14 th , 15 th	Unit 5	20 %	7

Instructional Method & Pedagogy:

- At the start of course, the course delivery pattern , prerequisite of the subject will be discussed
- Lecture may be conducted with the aid of multi-media projector, black board, OHP etc. & equal weightage should be given to all topics while teaching and conduction of all examinations.
- Attendance is compulsory in lectures and laboratory, which may carries five marks in overall evaluation.
- One/Two internal exams may be conducted and total/average/best of the same may be converted to equivalent of 30 marks as a part of internal theory evaluation.
- Assignment based on course content will be given to the student for each unit/topic and will be evaluated at regular interval. It may carry an importance of ten marks in the overall internal evaluation.
- Surprise tests/Quizzes/Seminar/Tutorial may be conducted and having share of five marks in the overall internal evaluation.
- The course includes a laboratory, where students have an opportunity to build an appreciation for the concept being taught in lectures.

Students Learning Outcomes

- The student can identify different areas of transport management and laws.
- Can find the applications of all the areas in day to day life.

Recommended Study Materials

- **Text & Reference Books:**

1. Motor Vehicles Acts, Law Publishers
2. Schumer ,Economics of transport, TMH
3. Fair and Williams, Economics of transportation, East West Press..
4. Hudson, Motor transportation, TMH.
5. M.V. Act 1988-RTO rules and regulation manual
6. Fuel Economy of Motor Vehicle, Allied Publishers.
7. National Research Council, Automotive Fuel Economy, National Academic Press.
8. CIRT Journal of Transport Management.

