

M.E Semester: 2 M.E Mechanical (Automobile Engineering)
Subject Name: Transport Management and Laws MEA204

A. 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

B. Teaching / Examination Scheme

SUBJECT		Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L	T	P	Total		THEORY		IE	CIA	PRACT.	
CODE	NAME	Hrs	Hrs	Hrs	Hrs		Hrs	Marks	Marks	Marks	Marks	
MEA204	Transport management and laws	3	0	0	3	3	3	70	30	20	0	120

C. Detailed Syllabus

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 organization structure. Truck fleet operators organization.
3. Economics of Road Transport: Theory of fares and cost of services, fare charging, costing and statistics of operating cost.
4. Planning for New Transport Organization: Geographical considerations, economic factors, vehicles used, planning of trips. Concept of BRTS operations.
5. Organization of Transport Services: Records and fleet management, vehicles schedule, booking and reservation, statistical records and shipment center, recording of goods transport.
6. 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.

7. 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.
8. Accident & Prevention: Vehicle accident, laws, injury, safety precautions, road transport regulations.
9. Insurance & Finance: Classes/types of insurance, accident claims and settlements, duty of driver in case of accident, hire purchase.
10. 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.

D. Lesson Planning

<u>SR.NO</u>	<u>DATE/WEEK</u>	<u>UNIT NO</u>	<u>%WEITAGE</u>	<u>TOPIC NO</u>
1	1 ST , 2 ND , 3 RD	1	20	1,2
2	4 TH , 5 TH , 6 TH	2	20	3,4
3	7 TH , 8 TH , 9 TH	3	20	5,6
4	10 TH , 11 TH , 12 TH	4	20	7,8
5	13 TH , 14 TH , 15 TH	5	20	9,10

E. 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.

F. 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.

G. Recommended Study Materials

- **REFERENCES**

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

