

# GUJARAT TECHNOLOGICAL UNIVERSITY

## B. E. SEMESTER: VI Automobile Engineering

Subject Name: **Transport Management and Laws**

Subject Code: **160203**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
4	0	0	4	70	30	50

Sr. No.	Course Contents	Total Hrs
1.	<b>Elements of Mass Transportation:</b>  History of transport, modes of transport, types of transport.	6
2.	<b>Transport Management:</b>  Transport organization structure, operations, General set up, transport industry, government / (STU) State Government Undertakings and private Bus transport organizations. Bus depot organisation structure. Truck fleet operators organization. <b>Economics of Road Transport:</b>  Theory of fares and cost of services, fare charging, costing and statistics of operating cost.	12
3.	<b>Planning for New Transport Organization:</b>  Geographical considerations, economic factors, vehicles used, planning of trips. Concept of BRTS operations. <b>Organisation of Transport Services:</b>  Records and fleet management, vehicles schedule, booking and reservation, statistical records and shipment center, recording of goods transport.	12
4.	<b>Motor Vehicle Act:</b>  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 taxis and buses, rules and regulations, testing and passing of vehicles.	20

	<p><b>Taxation:</b></p> <p>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 &amp; operational management. Build Operate Transfer arrangement.</p>	
5.	<p><b>Accident &amp; Prevention</b></p> <p>Vehicle accident, laws, injury, safety precautions, road transport regulations.</p> <p><b>Insurance &amp; Finance</b></p> <p>Classes/types of insurance, accident claims and settlements, duty of driver in case of accident, hire purchase.</p>	8
6.	<p><b>Laws Related to Pollution Under Control (PUC):</b></p> <p>Pollution Under control certification agency, Authority &amp; 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>	6

### **Text Books:**

1. Motor Vehicles Acts, Law Publishers

### **Reference Books:**

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