

**CIVIL ENGINEERING DEPARTMENT
GOVERNMENT ENGINEERING COLLEGE – DAHOD**

MID SEM SYLLABUS

Departmental Elective - I URBAN TRANSPORTATION SYSTEM (2160608)

B.E. 6th SEMESTER

Sr. No.	Content
1	Urbanization, urban class groups, transportation problems and identification, impacts of transportation, urban transport system planning process, modeling techniques in planning.
2	Urban mass transportation systems: urban transit problems, travel demand, types of transit systems, public, private, para-transit transport, mass and rapid transit systems, BRTS and Metro rails, capacity, merits and comparison of systems, coordination, types of coordination.
3	Introduction to land use planning models, land use and transportation interaction. The transportation study area definition; division into traffic zones; network identification and coding; types of trips,
4	Travel demand modeling: Trip generation-zonal regression and category analysis, Trip distribution-growth factor models, gravity model, opportunity models, Desire line diagram. Modal split analysis-trip end models, trip interchange models, logit models,