K L UNIVERSITY
TRANSPORTATION SYSTEMS (09 – CE E71)

SYLLABUS

L	T	P	Cr
3	0	0	3

UNIT – 1:

System elements and attributes, correspondents of transportation system, transportation network, vehicle and containers, challenges of transportation analysis.

UNIT-2:

Transportataion scenario in india and the neighbourhood, prediction of flows, systems of models, cost concepts, supply and demand, demand for transportation, derived demand, applications in passenger and freight transportation.

UNIT-3:

Inter model transportation, issues of design, implementation and operation , globalization and its impact on transportation systems.

UNIT-4:

Model choice, service levels, service variables, technologies.

UNIT-5:

Transportation system performance, choice structure, network analysis, specification of transportation and activity system options, new alternatives , future transportation systems in the information age.

TEXT BOOKS:

1. Optimization of transport network by P.A.Steenbrink, John Willey & Sons , Newyork, 1978.
2.Discrete Choice Analysis: Theory And Application To Travel Demand By M.Ben Akiva and S.R.Lerman , The MIT press Cambridge,1987

REFERENCEBOOKS:

1. Transportation:A Supply Chain Perspective By J.J.Coyle , R.A.Novack , B.Gibson And E.J.Bardi , South Western Cengage Learning 2010