

# PECI 5410 **TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING** (3-0-0)

## **Module – I**

Organization of traffic engineering department and its importance under Indian conditions. Road user characteristics, Human factors governing road user behaviour, Vehicle characteristics, Slow moving traffic characteristics in Indian conditions.

## **Module –II**

Speed, Journey time and delay surveys, Traffic Volume and Origin-Destination survey, Traffic flow parameters, Speed, density and volume relationships.

Parking types, ill effects of parking, off street parking facilities, Traffic regulations, Traffic management measures.

## **Module –III**

High capacity analysis, Capacity of freeways and express ways in rural areas. Design of rotary intersection and capacity of rotary intersection.

Systems approach to transport planning, Stages in transport planning, Trip generation and distribution, Traffic assignment and modal split, Economic evaluation of transportation plans

## **Reference Books:**

- 1 Traffic Engineering and Transport Planning, L.R. Kadiyali, Khanna Publishers, New Delhi
2. Transportation Planning, C. S. Papacostas and P. D. Prevedouros, PHI
3. Transportation Engg: An introduction, C. J. Khisty & B. K. Lall, PHI