

CE/BOS/ CE E75/0210

**K L UNIVERSITY
RURAL ROADS (09 – CE E75)**

L	T	P	Cr
3	0	0	3

SYLLABUS

UNIT – 1: Introduction

Definition & distinctions between rural roads and highways, Indian scenario- road development plans of GOI, PGMSY- phase I,II,III, NRRDA

UNIT-2: Geometric Design

Speed, typical cross-section, road width, camber, sight distance, longitudinal gradient

UNIT-3: Structural Design

Traffic conditions, Assessment of sub-grade and construction materials, Design methodology specification, premises of rural roads

UNIT-4: Construction

Equipment for construction, suitability of local construction materials for sub-base and base coarse, compaction of different layers, quality control

UNIT-5: Stabilized soil roads

Use of lime, flyash, cement, bitumen etc – their influence on soils, advantages of agglomeration, OMC, MDD, CBR, conjugation methodology including curing.

TEXT BOOKS:

1. IRC-2010, rural roads Manual, Indian Road Congress

REFERENCEBOOKS:

1. Indian Roads Congress (IRC) specifications: Guidelines and special publications on Traffic Planning and Management.

2. Guidelines of Ministry of Road Transport and Highways, Government of India.