

FCE 546 - Transportation Engineering IIIB (45 hrs) - Optional

Pavement Design

Types of road pavements. Functions of various pavement layers. Pavement loading characteristics. Behaviour of layered pavement systems under traffic loading. Stress distribution in flexible pavements. Bearing capacity considerations, evaluation of sub-grade and pavement materials. Flexible road pavements; analysis and design. Road maintenance methods of evaluation and strengthening of existing road pavements. Pavement materials; stabilization for road construction materials, bituminous mixes - their ingredients and design. Road construction Techniques and quality control.

Laboratory Work - H1 - BCR Test

- H2 - Soil Stabilization

- H3 - Marshall Test