

## **DESIGN METHODS**

– Methods of flexible pavement design can be classified into five categories;

- ü Empirical method
- ü Limiting shear failure method
- ü Limiting deflection method
- ü Regression method
- ü Mechanistic-Empirical method

## **FLEXIBLE, RIGID AND COMPOSITE DESIGN**

- ü CBR Method
- ü Asphalt Institute method
- ü National Crushed Stone Association Design Method
- ü California Method
- ü AASHTO Method
- ü Mechanistic design Method

## DESIGN OD OVERLAYS

- An **overlay** is one or more courses of asphalt or Portland cement concrete construction on an existing pavement. The overlay generally includes a levelling course to correct the contour of the old pavement, followed by uniform course or courses to provide needed thickness.
- **Importance of Overlay**
- Most overlay design procedures however can be categorized into:
  - Ø Component analysis
  - Ø Deflection-based analysis
  - Ø Analytical or Mechanistic-based procedures