



Road Calc and Surface Modeling

Course Outline:

- **Overview of the Typical Highway Design Process**
 - Survey Data Preparation
 - Conventional Survey Techniques
 - Modern Survey Techniques
 - Highway Geometric Design Process

- **Computer Aided Highway Geometric Design**
 - Preparation of Digital Terrain Model (DTM) using of Surface Modeling.
 - Design Horizontal Alignment
 - Cross-sectional Data Handling
 - Design of Vertical Alignment
 - Preparation of Design Cross-sections (Templates)
 - Calculation of Volumes
 - Preparation of Design Sheets