



Engineering Courses

3. Transportation

- » Highway geometric design
- » Pavement design and analysis
- » Roundabout design and analysis using SIDRA
- » Applications of Geographic Information Systems(GIS) to Transportation Engineering
- » Sustainable Urban Planning and Development
- » Transportation Economics including Lifecycle cost Analysis
- » Traffic engineering and field studies
- » Traffic control and management
- » Road Safety Audit
- » Basics of Airport Engineering
- » Basics of Harbour Engineering
- » Basics of Railway Engineering

4. Construction/Project Management

- » Construction contract Management
- » Project Management body of knowledge(PMBOK 6)
- » Project Management
- » Planning, scheduling and controlling of construction projects
- » Short training course on PRIMAVERA 06.
- » Short courses for Take-off & BOQ production for building projects using NRM2 and SMM7
- » Health and Safety at Construction Sites

5. Land Surveying

- » Land Surveying for Highway Engineers
- » Basic Land Surveying Course for Civil Engineers

- » Basic ArcGIS training for Civil and Environmental Engineers

6. Geotechnics

- » Geotechnical Investigations
- » Soil Testing for Construction

Mathematics and Statistics

- Reliability and Risk Analysis of Industrial Systems - 15 hours
- Data Analysis and visualization using R-language - 15 hours

Educational and Professional Development

- Advanced Presentation skills
- Essential Workplace Skills.
- Corporate counselling
- Essential Team-work skills.
- Time management.
- Digital Entrepreneurship
- Technical writing.
- Business writing.
- Employability skill development.

CATALYSE Department

- Basic Workshop Skills (Fitting, Sheet Metal, Carpentry, Welding, Plumbing etc.)
- Conventional Machining Training (Lathe, Milling, Shaper, Drilling)
- Welding Training (ARC Welding, Gas Welding, MIG Welding and TIG Welding)
- Programming and Operation of CNC Machines (CNC Lathe and CNC Milling Machine)
- Basic Electrical and Electronics Engineering