

TRAFFIC ENGINEERING LABORATORY

- ❖ Hot Applied Thermoplastic Road Marking Materials (White & Yellow)
- ❖ Determination of % of Binder Content and Aggregates in Paints
- ❖ Determination of Softening Point of Paint Binder
- ❖ Measurement of Flow Resistance of Thermoplastic Paints
- ❖ Traffic Calming (Strategies, Design, Studies)
- ❖ Highway Capacity and Level of Service Analysis
- ❖ Traffic Impact Assessments
- ❖ Statistical Consultancy Services (including Planning and Designing)
- ❖ Intelligent Transportation Systems
- ❖ Global Positioning Systems and Probe Vehicle Traffic Data Collection
- ❖ Map-Matching (GPS and GIS data)
- ❖ Travel Time Estimation Methods and Algorithms

TRANSPORTATION COMPUTER AIDED DESIGN LABORATORY

- ❖ Highway Capacity Software (HCS), Sidra, Synchro/Simtraffic, VISSIM
- ❖ Winjulea, KenLayer, KenPave
- ❖ Project Management with Primavera P6
- ❖ AutoCAD, AutoCAD Civil3D
- ❖ SPSS, SAP, Etabs & MS Office Suit
- ❖ Certified Safety Officer



CONSULTANCY SERVICES

The Department is actively engaged in various industry related projects as well as commercial testing aiming to develop even stronger academia-industry liaison.



INSTITUTE OF TRANSPORTATION ENGINEER (ITE) STUDENT CHAPTER



DTEM has gained a prestigious honor of establishing first Student Chapter of ITE in Pakistan and making UET, Lahore the 9th University outside USA which has initiated ITE Student Chapter.

A Brief Overview about ITE

Founded in 1930 in USA, ITE is an international educational and scientific association of transportation professionals working towards transportation mobility and safety needs

Through meetings, seminars, publications and a network of nearly 17,000 members, working in more than 90 countries, ITE is a source for expertise, knowledge and ideas.

For more info: www.ite.org

DEPARTMENT OF TRANSPORTATION ENGINEERING AND MANAGEMENT






UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE



CONTACT INFORMATION

- Email: chair-tem@uet.edu.pk
- Off. #: +92-42-99029125
- Mob. #: +92-302-7928216
- Fax #: +92-42-99250202

 TransportationEngineeringDeptt
 dtem@TE_dtem
 DTEM DTEM

INTRODUCTION

Department of Transportation Engineering & Management introduces the transportation professionals capable of planning, designing, constructing, operating, and maintaining of various modes of transportations such as highways, railways, airways, waterways and pipeways.

VISION – To improve the transportation infrastructures for safe, rapid, efficient, and environmentally friendly movement of people and goods.

MISSION – To facilitates the application of technology and scientific principles to research, planning, functional design, implementation, operation, management and facilitation towards improved policies for various transportation modes.

DEGREE PROGRAMS

B.Sc. Transportation Engineering

M.Sc. Transportation Engineering

Ph.D. Transportation Engineering



Vice Chancellor
Prof. Dr. Fazal Ahmad Khalid

Dean
Prof. Dr. Abdul Sattar Shakir



Chairman
Prof. Dr. Ammad Hassan Khan



LABORATORIES

- Asphalt and Concrete Mix Design
- Traffic Engineering
- Geo-Materials Testing
- Transportation Computer Aided Design
- Motor Vehicle Examination
- Geomatics Engineering
- Railway Engineering

ASPHALT AND CONCRETE MIX DESIGN LABORATORY

- ❖ Dynamic Shear Rheometer (DSR) Test
- ❖ Rolling Thin Film Oven (RTFO) Test
- ❖ Pressure Aging Vessel (PAV) Test
- ❖ Dynamic Shear Rheometer (DSR) Test in RTFO Aged Condition
- ❖ Dynamic Shear Rheometer (DSR) Test in PAV Aged Condition
- ❖ Rotational Viscometer (RV) Test
- ❖ Bending Beam Rheometer (BBR) Test
- ❖ Centrifugal Extractor Test
- ❖ Gyrotory Compactor Test for Compaction of Asphalt Mix
- ❖ Resilient Modulus Test using Universal Testing Machine (UTM)
- ❖ Dynamic Modulus test using Universal Testing Machine (UTM)
- ❖ Bitumen Extraction
- ❖ Rotavapor Extraction
- ❖ Stripping



GEOMATICS ENGINEERING LABORATORY

- ❖ GIS and RS Applications
- ❖ Advanced Field Surveying
- ❖ Application of Latest GIS Softwares
- ❖ Spatial, Network and Geo-Statistical Analyses

GEO-MATERIALS TESTING LABORATORY

- ❖ Gradation Analysis
- ❖ Atterberg's Limits
- ❖ Unconfined Compression Test
- ❖ Direct Shear Test
- ❖ Consolidation Test
- ❖ Compaction Tests
- ❖ One Point and Three Point CBR Test
- ❖ Field Density Test
- ❖ Sulphate Content, Chloride Content, pH-value, Organic Matter Content
- ❖ Los Angeles Abrasion Test
- ❖ Geotechnical Investigation of Soil Stratum
- ❖ Pavement Condition Survey
- ❖ Pavement Evaluation and Rehabilitation



MOTOR VEHICLE EXAMINATION LABORATORY

- ❖ Wheel Alignment
- ❖ Camber Angle Adjustment
- ❖ Toe-in and Toe-out Adjustment
- ❖ Caster Angle Adjustment
- ❖ Head Light Aiming/Focusing