

About the Institute

L. D. College of Engineering, Ahmedabad is a premier engineering college in Gujarat State set with the objectives of imparting higher education in various fields of engineering. The institute is affiliated to Gujarat University and administrated by Department of Technical education, Gujarat State. Sheth Shri Kasturbhai Lalbhai established institute in 1948 with generous donation. It is situated adjacent to Gujarat University and at nucleus of various national level institutes like PRL, ATIRA, ISRO, IIM etc. The campus is having building for various departments, offices, hostels, library with 38,000 sq.m. Plinth area. The institute made a modest start with 75 students for undergraduate programs in 1948, post graduate programs in 1954. At present institute runs 14 undergraduates, 12-post graduate and 4 part-time programs.



About Civil Engineering Department

Civil Engineering Department is one of the oldest department of L. D. College of Engineering, Ahmedabad. Over the years, it has grown in to the most dynamic department providing a platform for various academic staff orientation and refresher courses for in service teachers, professionals and students of various branches of Civil Engineering. Our college runs P. G. Course of Transportation Engineering since 2002. The course is accredited by NBA and affiliated with Gujarat Technological University. Transportation Engineering Division (P.G.) focuses more on practical / projects oriented study as per the curriculum with a view to be acquainted with current trends / advancement in the field of Transportation Engineering. The P. G. students get adequate knowledge of various software like VISSIM, TransCAD, HDM, MX Road etc.



How to Apply

The completed application through sponsoring authority and any other correspondence related to this course should be addressed to:

The Head of Department
Civil Engineering

L. D. College of Engineering
Ahmedabad-380015.

E-mail: ldctrans@gmail.com

Contact No. +91 9723757050 / 9427145693

**Last date of receipt of completed applications
along with Demand Draft: 25/4/2017**

CTE & ISTE Approved

A one-week

Short-Term Training Programme

(STTP)

on



SOFT COMPUTING TECHNIQUES IN TRANSPORTATION ENGINEERING

1st May to 6th May, 2017



Chief Patron : **Prof. (Dr.) G. P. Vadodaria**
Principal, L. D. College of Engineering

Patron : **Prof. A. M. Malek**
Head of Department, Civil Engineering

Coordinators : **Prof. (Dr.) P. J. Gundaliya**
Prof. Rena Shukla

Co-coordinators : **Prof. V. R. Patel**
Prof. N. G. Raval

Organized by
Civil Engineering Department
L. D. College of Engineering,
Ahmedabad.

For more details - <https://sites.google.com/site/ldctrans/>

Preamble

Transportation is a basic and essential sector for the overall development of a country. Efficient transportation network is a backbone of any country, which satisfies flexibility, accessibility, strategic and administrative requirements. Since last few years, developments in transportation sector have been quite significant. Many innovative and scientific approaches have been developed to achieve not only the quantity but also the quality of transportation projects. There has been technological advancement in many aspects of planning design, construction and maintenance methodologies. Still need is felt for interaction among various agencies involved in the field of transportation with an objective of dissemination of the state of the art technology. The training programme is an attempt to bring together the researchers, academicians, students and provide them a platform for discussions and deliberations on the advanced soft computing techniques applied in the area of transportation. This also enables to enhance the knowledge in the field of transportation engineering.

Course Objectives

In real world, the problems of road sector can be solved theoretically, but, it is not possible to solve due to its requirement of huge resources, data base and excess time required for computation. The problems encountered in the field of Transportation Engineering are generally unstructured and imprecise influenced by intuitions and past experiences of a designer. These problems are complex in nature with variations in parameters, which make it difficult to solve mathematically. Soft computing is also known as computational intelligence. Soft computing techniques like Genetic Algorithms, Fuzzy logic, Artificial Neural Network etc. using software like VISSIM, MX Road, TransCAD etc. can be applied effectively to solve these type of problems. The short term training programme will give understanding of these techniques and their procedural aspects to solve the problems of the field.

Course Structure

The e-content may be used for the teaching learning process. Technical expert from renowned institutions / organizations will be remaining in the sessions for technical discussions and case studies.

Course Structure

The course will enable the participants to upgrade their knowledge on various key aspects of Transportation Engineering including study of

- 1) Trans CAD software
- 2) VISSIM Software
- 3) Genetic Algorithm
- 4) Fuzzy logic
- 5) Artificial Neural Network
- 6) MX Road software
- 7) Simulation using MATLAB
- 8) Soft computing algorithms for multi-objective numerical optimization

Accommodation

Accommodation is available in the university's guesthouse for the limited numbers of candidates with nominal charges, to be paid by participants.

Programme Fees

Professionals	₹ 4,850/-
Faculty Members	₹ 2,850/-
Students	₹ 850/-

Fee should be paid by A/C payee Demand Draft drawn in favour of '**Principal, L. D. College of Engineering**', payable at Ahmedabad. All participant has to pay ₹ 150/- in cash additionally for ISTE certificate at the time of registration.

Venue

Seminar Hall

Center of Excellence in Transportation Engineering,
Block-4, Nr. Hostel gate,
L. D. College of Engineering,
Ahmedabad-380015.

REGISTRATION FORM

A Short Term Training Program on

SOFT COMPUTING TECHNIQUES IN TRANSPORTATION ENGINEERING

1st May to 6th May, 2017

Name: _____

Designation: _____

Institute / Organization: _____

Address: _____

Contact No: _____

Email: _____

Registration Fee Details: _____

D.D. No.: _____

Amount: _____

Accommodation Required: YES / NO: _____

Address of the sponsoring authority: _____

Date: _____ Signature of the Candidate

Sponsorship Certificate

Certified that Shri/Smt. _____

_____ has been officially
deputed for the above mentioned Short Term Training
Programme to be conducted at L. D. College of
Engineering, Ahmedabad.

Date: _____ Signature of Sponsoring authority
with office Seal