



Online Short Term Training Programme (STTP)

On

“Tools for Transportation Data Analysis & Modelling” (TTDAM-2021)

March 18 – 23, 2021

Coordinators

Dr. Yogeshwar Vijaykumar Navandar

Dr. Harikrishna M

Centre for Transportation Research (CTR)
(A Centre of Excellence funded by MHRD)



DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
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OVERVIEW OF THE COURSE

The field of Transportation Engineering is diverse with a large number of stakeholders participating in the decision making processes. The decision making pertaining to the issues faced in the domain of Transportation Engineering requires reliable data for analysis. Moreover, it is essential that the decision making authorities and students of Transportation Engineering are well versed with various techniques for analysing transportation related data. This becomes imperative in the era of big data and data analytics in the realm of Transportation Engineering. This short term programme aims to introduce the various new emerging tools and techniques available for data analysis in the field of transportation engineering. The objective of this programme is to empower research scholars, teachers, practicing engineers and planners so that they can apply the latest tools and techniques in transportation data analysis, particularly qualitative data, and arrive at logical convincing and effective solutions. This programme also gives hands on training on different software such as AMOSS, NLOGIT, etc. Hands on training session will be useful for participant to learn the different tools and modelling techniques for data analysis.

COURSE OBJECTIVES

The course will cover the conceptual aspects related to emerging tools and techniques for transportation data analysis. The primary objectives of the course are as follows:

- Transportation Surveys – Survey Methodology and Design
- Design of Questionnaire
- Univariate and Bivariate Data Analysis
- Discrete Choice Theory – Behavioural Analysis and Estimation
- Exploratory and Confirmatory Factor Analysis
- Structural Equation Modelling (SEM)
- Ordered Probit Modelling (OPM)
- Multinomial and Binary Logit Model etc.
- Practical case studies on application of SEM, Ordered Probit Model, Multinomial and Binary Logit Model in Transportation Engineering

RESOURCE PERSONS

The lectures for the programme will be handled by faculty from IITs, NITs and other renowned technical institutions in the country.

REGISTRATION FEE

- The registration fees for the program is INR 1200/- for students and research scholars and INR 5000/- for faculty from academic institutions, industry personnel and practicing engineers. The registration fee is inclusive of GST.
- The non-refundable registration fees should be paid only by online transfer in account of:
"Director, NIT Calicut"
A/C No: 37618269594, State Bank of India, NITC Branch, NIT Calicut
IFSC: SBIN0002207
- The Transaction details have to be entered in Googleform for registration. The confirmation to the selected applicant will be intimated on 17/03/2021.

WHO CAN ATTEND

- The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from government organisations and industry

COURSE MATERIAL

- Necessary course materials and software access will be provided to the participants during the course.

HOW TO APPLY

- Prospective applicants for participation in the course should register through the following link:
<https://forms.gle/QTLbhvYZWVAFkFu49>
- The payment and identity proof should be uploaded in the Googleform.
- The candidates will be informed of their selection through mail by March 17, 2021. The candidates will be informed as soon as their payment and identity proof reaches to the coordinator (via Googleforms).

IMPORTANT DATES

- Last date for application: March 16, 2021
- Course dates: March 18-23, 2021

ADDRESS FOR CORRESPONDENCE:

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For any query and to submit the registration form, drop the mail

ABOUT NITC and CALICUT CITY

The Institute was initially established as Calicut Regional Engineering College (CREC), which was the forerunner to the present National Institute of Technology, Calicut (NITC) in 1961. NIT Calicut is one of the pioneering engineering institutions of the country, which has contributed many outstanding engineers in India and abroad. It is conducting ten UG programs, Thirty PG programs, and doctoral programs in various fields of Science, Technology and Engineering. Calicut is a major knowledge Hub of Kerala and is the hometown of many institutions of national importance including NITC, IIMK, DOEACC, CWRDM etc. Calicut is connected by direct trains/road/air to all major cities in India. NITC is located about 22 kilometers north-east of Calicut City. Calicut, also known as Kozhikode, is known as the city of spices.

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering is one of the oldest Departments in this Institute. It was established at the inception stage of the Calicut Regional Engineering College (CREC), which was the forerunner to the present National Institute of Technology, Calicut (NITC) in 1961. The department has highly qualified faculty members engaged in teaching and research and development. Department also offers Post Graduate and Doctoral Programs in the areas of Structural Engineering, Traffic and Transportation Planning, Offshore Structures, Environmental Geotechnology, Water Recourses Engineering

The Department is a recognized QIP centre of the AICTE for both M.Tech. and Ph.D. program. The major strength of the department is due its multidisciplinary activities like R&D, Consultancy, and Testing etc.

CENTRE FOR TRANSPORTATION RESEARCH (CTR)

The Centre for Transportation Research (CTR) is a Centre of Excellence funded by the Ministry of Human Resources Development, under the scheme 'Establishment of 50 Centres of Excellence in frontier areas of Science and Technology', in the year 2013. The objectives of the Centre are to undertake research in various aspects of transportation and develop solutions that lead to sustainable transportation, create a pool of quality conscious and qualified transportation engineers sensitive to societal requirements, enhance the skills and knowledge of working transportation professionals and bring awareness among public for their active and informed participation.