

STEPS FOR REGISTRATION

Please follow the steps below for registering in the GIAN program: "ROAD SAFETY ENGINEERING"

Step 1: Register at the GIAN portal using the link: <http://www.gian.iitkgp.ac.in/> and by clicking on 'Course Registration/Participant Login.'

Step 2: It shall state –Registration to the portal is one time affair and will be valid for life time of GIAN. One time non-refundable fee of 500/- INR will be charged for this service.

Step 3: Once done with registration, please select the course "ROAD SAFETY ENGINEERING" from the list of courses and confirm it.

Step 4: Send the copy of registration details from GIAN website and scanned copy of DD of applicable fee to Email: akmaurya@gmail.com for advance processing.

Last Date of Registration: May 15, 2019

REGISTRATION FEE:

Students	₹ 2,000/-*
Academician	₹ 10,000/-#
Participants from Industry/ Research Organizations	₹ 15,000/-#
Participants from Abroad	USD 250/-#

* Refundable subject to joining the course

Plus 18% GST extra

All candidates must pay the applicable fees using Demand Draft (DD). The participants will be provided with accommodation on payment basis.

For more detail, please visit
www.iitg.ac.in/maurya/GIAN-RSE

COURSE COORDINATOR

Dr. Akhilesh Kumar Maurya

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Prof. Srinivas S. Pulugurtha,
Dept. of Civil & Environmental Engg.,
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Srinivas S. Pulugurtha is currently working as Professor & Graduate Program Director of the Department of Civil & Environmental Engineering at The University of North Carolina at Charlotte (UNC Charlotte).

Srinivas has experience working in diverse fields of transportation including transportation safety, ITS, transportation system planning, Geographic Information Systems (GIS) applications, Internet applications, traffic operations, and, artificial intelligence (AI) techniques and operations research applications. His experience and knowledge in computer modeling and adaptation of emerging technologies is germane to development of tools and techniques for quantitative analysis of transportation systems to support decision making.

During his 23 year tenure as a researcher, Srinivas was involved in 69 sponsored projects (7.2M+ dollars in funding) as a principal or co-principal investigator. He has authored/co-authored more than 200 peer reviewed journal papers, conference papers, and research reports. He has made over 150 technical presentations at International, National, Regional, and Local Conferences / Meetings.



ROAD SAFETY ENGINEERING

For more detail: www.iitg.ac.in/maurya/GIAN-RSE



ONE WEEK GIAN COURSE
24-28TH JUNE, 2019

INTERNATIONAL FACULTY

Srinivas S. Pulugurtha,

Professor & Graduate Program Director
Department of Civil & Environmental
Engineering, The University of North
Carolina, Charlotte, NC 28223-0001, USA

COURSE COORDINATOR

Akhilesh Kumar Maurya

Associate Professor, Department of
Civil Engineering, IIT Guwahati,
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HOST INSTITUTE

DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
ASSAM 781039, INDIA



OVERVIEW

The rapid development and expansion of the road network, along with an increase in the number of registered motor vehicles, led to a substantial rise in levels of both passenger and freight movement. Concomitantly, the number of road crashes and fatalities have increased at an alarming rate. The fatalities in road crashes was documented as the eight leading cause of deaths, worldwide, in 2018. Over 1.35 million people were killed, worldwide, in road crashes during 2016. The economic losses associated with road crashes exceed \$250 billion, annually, just in developed countries such as the United States. However, financial resources as well as manpower to collect adequate data, understand causal factors, identify countermeasures, and implement countermeasures to enhance safety (reduce the number of crashes and fatalities) have not increased at the same rate. The limited financial resources and manpower has made prioritization and allocation of resources efficiently even more important. Furthermore, the effort to enhance road safety is a multidisciplinary problem involving engineering, enforcement and education (3Es).

This course is designed for Executives, Engineers and Researchers of Transportation Engineering to identify and study the factors contributing to road crashes, its data collection, analysis using geospatial and statistical methods, prioritization, management and derivation of preventive countermeasures (3Es), and, before-after evaluations. The before-after evaluations include behavioral studies (conflicts) at treatment sites or using historical crash data (say, three years before and three years after). Overall, the evaluation of planned/existing roadway facilities will be presented from a safety point of view while emphasising the need for consistent data collection standards (crash data, geometric features, traffic characteristics, environmental conditions and surrogate data).

OBJECTIVES

The objectives of the course are:

- Highlighting the need for road safety and identification of various factors contributing to road crashes.
- Exposing participants about road crash data collection procedure, its analysis, prioritization, management and derivation of preventive countermeasures, and, before-after evaluations.
- Explaining the procedure for evaluation of planned/existing roadway facilities from a safety point of view as well as emphasis on the need for consistent data collection standards (crash data, geometric features, traffic characteristics, environmental conditions and surrogate data).
- Training the participants related theoretical and practical concepts.

IIT GUWAHATI

IIT Guwahati, the sixth member of the IIT fraternity was established in 1994 and its academic programme commenced in 1995. With 11 departments and 5 interdisciplinary academic centres, it has built up its world class infrastructure for carrying out advanced research and has been equipped with state-of-the-art scientific and engineering instruments sprawling across 285 hectares plot of land on the north bank of the river Brahmaputra.

CIVIL DEPARTMENT

Civil Engineering is considered to be the most versatile branch among all the engineering branches. It is the branch with a lot of diversity from Geotechnical Engineering to Structural engineering, Environmental to Hydraulics, Transportation to Hydrology; Civil Engineering can be considered as a single largest branch among all the engineering branches. The vision of the department is to give an exposure to Civil Engineers to various challenges in the profession. The department offers courses as B.Tech., M.Tech. and Ph.D. programmes.



COURSE COORDINATOR

Akhilesh Kumar Maurya is currently an Associate Professor in Department of Civil Engineering at IIT Guwahati, India. He received his Ph.D. degree in Civil Engineering from IIT Kanpur and M. Tech. degree in Computer Aided Design from IIT Roorkee. He is active academically and professionally in the area of traffic flow modeling, driver behaviour, road safety audit and accident analysis, traffic data collection and analysis studies since more than one decade. He has published more than 90 technical papers in international journals and conferences. He has received the DAAD fellowship for one month visited at Technische Universität Darmstadt. He is currently Vice President of “Transportation Research Group (TRG)” of India and life member of “Indian Roads Congress”. He is also certified “Road Safety Auditor” by International Road Federation (India) and Australian Road Research Board. Apart from several Indian Institutions, he has also delivered invited lectures at various International Institutes like Technische Universität Berlin, Technische Universität Darmstadt, University Duisburg-Essen and National University of Singapore.