

❖ Overview of the Course:

This course curriculum is aimed to provide working knowledge on state of the art implementation techniques related to Advanced Transportation Management Systems (ATMS) that are currently applied in US and Europe. The use of Intelligent Transportation Systems including; CCTV Cameras, Vehicle Detection Systems, Dynamic Message Systems, Traveler Information Systems, Electronic Toll collection Systems, and a variety of Highway Emergency and Incident response Systems – all geared and used as ATMS packages to enhance mobility and safety on transportation corridors are clearly explained through real time application scenarios. The proposed curriculum uses prominent and successful ATMS techniques that reflect real time operational management applications and geared to minimize loss of capacity, delay, flow disturbance, emission and crashes– and to improve overall reliability of transportation system. The course curriculum is designed to draw on current ATMS applications in US and European Union and transpose them to suit Indian context and offer first-hand knowledge, training, education, research frameworks. Once exposed to these ATMS implementation elements the course takers are expected to become proficient to successfully carry out implementation of ATMS methods and establish best practices in operating Transportation corridors in a safe and reliable manner.

❖ Course Objectives:

The primary objectives of the course are as follows:

- i) Expose participants with the specific concepts of corridor level operations using ATMS techniques emphasizing real time ATMS implementation and operations management
- ii) Present the ATMS implementation state of the practice in the US (and elsewhere) including roadway and roadside operations using case studies. These include design, implementation and analytical frameworks to assess ATMS implementation benefits and use of Intelligent Transportation Systems such as CCTV cameras, Dynamic Message Signs (DMS) and state of the art Advanced Traveler Information Systems (ATIS).

iii) Provide an opportunity for participants to use the ATMS Implementation methods in a simulated setting of typical Indian urban transportation corridors.

iv) Generate discussion regarding the Implementation of ATMS techniques and related practices in India drawing on the perspectives and experience of participants

❖ International Faculty:

Dr. Gummada Murthy is Associate Program Director, Operations, AASHTO and is responsible for transportation infrastructure operations programs. Serves as AASHTO liaison for the Subcommittee on Transportations Systems Management Operations, provides program support to Highways Subcommittee on Maintenance, Subcommittee on Traffic Engineering, Special Committee on Wireless Communication and Technology and the Special Committee on Transportation Security and Emergency Management. Prior to joining AASHTO, Dr. Murthy served as Senior Program Officer, TRB, National Academy of Sciences, responsible for implementation of Reliability research focus Area outcomes from the Academy's ongoing Strategic Highway Research Program (SHRP2). Additional career roles include; Director of Operations, VDOT, Virginia, Director, Operations and Maintenance, WSDOT, Washington and Asst. Turn pike Operations Engineer, FDOT, Florida. Graduate of the University of South of Florida, Tampa, Florida and holds Ph.D. and Masters of Science Degree in Civil Engineering from USF with concentration in ITS Operations. Licensed professional engineer in Virginia and served on several research and technical panels and expert working groups for TRB's NCHRP, SHRP2, Transportation Systems Operations and Management (TSOM), and TRRB-AASHTO-USDOT lead Connected Vehicle and Autonomous Vehicle programs.

Dr. Murthy also serves as Adjunct Faculty at Catholic University of America, Washington D.C, USA and has successfully designed, developed and taught at undergraduate and graduate level courses in Advanced Transportation Management Systems.

❖ Who can participate?

This program is open to the Faculty, Post graduate students, Field Engineers and Research Scholars working in the areas of Transportation Engineering / Highways from various Institutes. Civil Engineers working in Industries, Consultancy firms, R&D laboratories can also participate.

❖ How to Register?

Stage-1: Web Portal Registration:

Visit <http://www.gian.iitkgp.ac.in/GREGN/index> and create login User ID and Password. Fill up the blank registration form and do web registration by paying Rs. 500/- online through Net Banking / Debit / Credit card. This provides the user with life time registration to enroll in any number of GIAN courses offered.

❖ Stage-2: Course Registration:

Login to the GIAN portal with the user ID and Password already created in Step 1. Click on Course Registration option at the top of Registration Form. Select the Course titled "IMPLEMENTATION OF ADVANCED TRANSPORTATION MANAGEMENT SYSTEMS (ATMS)" from the list and click on Save option. Confirm your registration by clicking on Confirm Course.

❖ Registration Fee:

Faculty	Rs. 2,000/-
Participants from Industry / Research Organizations	Rs. 4,000/-
Students & Scholars	
<ul style="list-style-type: none"> ● Without award of Grade ● With award of Grade 	Rs. 500/- Rs. 1,000/-
Participants from abroad	US \$ 200

The Registration fee includes instructional materials, laboratory use and session teas. **The out-stationed participants will be provided with boarding and lodging on additional payment of Rs. 2,000/- in Student Hostel on sharing basis.**

❖ Selection and Mode of Payment:

Selected candidates will be intimated through e-mail. They have to remit the necessary course fee to the Bank as per the details given below.

Outstation participants requiring accommodation and boarding facilities have to pay Rs. 2,000/- in addition to the course fee.

Account Name	GIAN NITW
Account No.	62447453600
Bank	State Bank of Hyderabad
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC	SBHY0020149
MICR Code	506004011
SWIFT Code	SBHYINBB018

Candidates registering early will be given preference in short listing process. For any queries regarding registration of the course, please contact the Course Coordinators:

Prof. CSRK Prasad

Department of Civil Engineering,
NIT, Warangal – 506004, Telangana

Tel: +91 870 2462117 (O)
+91 9440 347 348

Email: csrkr@nitw.ac.in;
csrkr_prasad@yahoo.com

Dr. K.V.R. Ravi Shankar

Department of Civil Engineering,
NIT, Warangal – 506004, Telangana

Tel: +91 870 246 2148 (O)
+91 8332 969 262

Email: ravikvr@nitw.ac.in;
kvrshankar@gmail.com

❖ About GIAN Course:

Ministry of Human Resource Development (MHRD), Government of India (GoI) has launched an innovative program titled “Global Initiative of Academic Networks (GIAN)” in higher Education, in order to garner the best international experience. As part of this, internationally renowned Academicians and Scientists are invited to augment the Country’s academic resources, accelerate the pace of quality reforms and elevate India’s scientific and technological capacity to global excellence.

❖ About the Institute and Warangal:

National Institute of Technology, Warangal (NITW) formerly known as RECW is the first among seventeen RECs set up in 1959. Over the years, the Institute has established itself as a premier Institution in imparting technical education of a very high standard, leading to B.Tech, M.Tech and Ph.D. programmes in various specializations of Science and Engineering streams. Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140 km from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology, Warangal campus is 3 km away from Kazipet railway station and 12 km away from Warangal railway station.

❖ About the Department

The Department of Civil Engineering offers B.Tech programme in Civil Engineering, 7 M.Tech programmes including Transportation Engineering and PhD programme. The Department is a recognized QIP centre since 1978. The Department has well established and well equipped laboratories. The Department has experienced faculty engaged in teaching, research, capacity building activities and industry extension services. Faculty members represent several policy making and professional bodies. The Department has liaison with reputed industries and R&D organizations.

Transportation Engineering Division was introduced in the year 1968. This is the first Institution in India to have started a full-fledged M.Tech Degree Program in Transportation Engineering under the able guidance of Prof. Martin Ekse of Washington State University, USA, Prof. V.V. Sylyanov of Moscow Automobile and Road Construction Institute, USSR, and other distinguished experts in India.



Five Days GIAN Course on

IMPLEMENTATION OF ADVANCED TRANSPORTATION MANAGEMENT SYSTEMS (ATMS) (A CORRIDOR BASED ATMS IMPLEMENTATION FOR INDIAN TRANSPORTATION SYSTEM)

September 4-8, 2017

Call for Registration and Participation

International Faculty

Dr. Gummada Murthy

Adjunct Faculty, CUS, Washington D.C., USA

Course Coordinators

Prof. CSRK Prasad

Dr. K.V.R. Ravi Shankar

Transportation Division
Department of Civil Engineering
National Institute of Technology Warangal
506 004, Telangana, India