



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING



A Brief Report on 2 Day National Workshop on “ADVANCE SURVEYING TECHNIQUES & MAPPING USING TOTAL STATION: HANDS ON PRACTICE” (ASMT 2013) Under TEQIP – II 18.01.2013 – 19.01.2013



THEME OF WORKSHOP:

The traditional surveying techniques are generally tedious and time consuming. To overcome this, modern electronic equipment are used now days. Modern electronic equipment like Total Station give the results directly, accurately and quickly saving a lot of time and labor. This course will give proficiency in new concepts, methodologies and their theoretical & practical applications, so that they can be applied to the real life.

The main objective of this workshop is to discuss on provide hands on experience in use of Total Station technology and its application for project lay-out & construction. It is hoped that get - together of different stake holders such as consultants, researchers and academicians will provide an opportunity for multi – directional dissemination of knowledge in surveying

CONTENTS OF WORKSHOP:

- ☛ Hands on experience on Total Station
- ☛ Different modules of Total Station in connection with surveying such as Areas Longitudinal Profile, Curve Setting, REM, Stake Out etc.
- ☛ Downloading process
- ☛ Mapping and Plotting using Surfer AUTOCAD & E - Survey

Er. D.V.Bhavanna Rao Retired Engineer-in-Chief(R&B), gave inaugural address on the workshop and released workshop souvenir. About Twenty five participants from Industries, academicians have registered for the workshop. Sri. T.K. Shau Officer Surveyor from Indian Institute of Surveying & Mapping, Survey of India, Uppal, Hyderabad, had delivered a talk on Field Data Collection for Surveying Using Total Station on 18.01.13. In the afternoon session; Mr. A.Ramesh, Associate Professor, CED, VNR VJIET, had explained the hands on experience on Total Station instruments.

On the second day Mr. A.Ramesh, & all the participants were been to the proposed Hostel site of VNR VJEIT, for having Hands on experience in performing various exercises through total station instruments. The Exercise includes area determination, longitudinal, cross section profiles, stake out and contours. In the afternoon session Mr. A.Ramesh had delivered a talk on “Downloading Process through Total Station Instruments, Plotting & Mapping”. The participants were also giving an opportunity in downloading the data collected from the total station instruments. They also had hands on practice in mapping and potting for the data collected.

The workshop was concluded with a Valedictory & certificate distribution by Prof. BNM Rao, Head CED, Prof. KSV Radha Krishna, Professor in Civil Engineering Dept. A CD containing the workshop notes was also distributed to all the participants.

It is understood from the feedback of all the participants that all the sessions were very informative and appreciated by the participants to the faculty. I thank the Management, Principal, TEQIP – II & Sponsors (IVRCL & APT Survey Solutions) for their constant encouragement and valuable suggestions given in organizing this workshop successfully.



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

A Brief Report on 2-Day National Workshop on “Recent Advances In Concrete Technology (RACT—13) 23 & 24 March 2013.



Workshop Organizer with Department Faculty

THEME OF WORKSHOP:

The primary objective of this work shop is to bring together to bring the professionals from academic institutions and research scholars to enhance their knowledge in Concrete Technology & Innovative Construction Practices .Based on the exposure to these fields through a workshop of this nature can build up one's Knowledge and can start to work with advanced concepts in concrete technology like High Performance Concrete, Reactive Powder Concrete Bacterial Concrete & Geo - Polymer Concrete etc.

CONTENTS OF WORKSHOP:

1. New construction materials.
2. New construction methodologies
3. High Performance concrete
4. Development of self -compacting concrete
5. Bacterial concrete
6. Geo-Polymer concrete
7. Fiber reinforced concrete.
8. Light weight concrete



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING



**A Brief Report on 3 - Day National Workshop on
“TUTELAGE ON TRAFFIC ENGINEERING & TRANSPORTATION
PLANNING USING VISSIM & VISUM”
(TTETPV 2013) Under TEQIP – II
20.05.2013 – 22.05.2013**



THEME OF WORKSHOP:

Transportation today plays an important role in the economic and physical development of any modern city. Today, much micro-simulation software have been made available in the market and used as tools for the evaluation of traffic management and control. VISSIM is a microscopic, time step and behavior based simulation model developed to model urban traffic and public transit operations. This course will give proficiency in new concepts, methodologies and their theoretical & practical applications of traffic simulation and modeling, so that they can be applied to the real life

At the end of the course the participant will be able to independently build basic network models and perform common evaluations. In addition, he will learn how to conduct high quality and efficient traffic studies using the microscopic simulation software, VISSIM. Dynamic Assignment Module of VISSIM is also explained during this course.

CONTENTS OF WORKSHOP:

- ✚ Network Editing: Link and Connectors
- ✚ Output Data I: Delay, Queue Length, Data Collection & Node Evaluation
- ✚ Output Data II: Link Evaluation, Network Performance, Vehicle
- ✚ Traffic Signal Design & Simulation, 2D & 3D
- ✚ Pedestrian Simulation & Analysis
- ✚ Introduction to public transport modeling
- ✚ Basic Transit Network Modeling

About Twenty five participants from Industries, academicians's research scholars have registered for the workshop. Mr. B. Manraj, Officer PTV New Delhi, had delivered a talk on Road network editing developing links and connectors Using VISSIM on 20.05.2013. In the afternoon session he had trained how vehicle input should be provided for different categories of vehicles and its related parameters.

On the second day i.e.21.05.2013 Mr. Manraj Officer PTV New Delhi, explained on how traffic signal design is carried along with its evaluation techniques. In the afternoon session he had explained on how pedestrian analysis and evaluation is carried through VISSIM. On the last day Dr. K.S. Ravi Shankar, Asst. Prof NIT W had made the participants to work on real time data for carrying Parking and Junction improvement studies. In the last session of the same Mr. A. Ramesh had provided real time data for design and evaluation of traffic signal.

The workshop was concluded with a Valedictory & certificate distribution by Prof. BNM Rao, Head CED, Prof. KSV Radha Krishna, Professor in Civil Engineering Dept. and Prof. BDV Chandra Mohan Rao, Professor in Civil Engineering Dept. A CD containing the workshop notes was also distributed to all the participants.

It is understood from the feedback of all the participants that all the sessions were very informative and appreciated by the participants to the faculty. I thank the Management, Principal, TEQIP – II for their constant encouragement and valuable suggestions given in organizing this workshop successfully.



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

A Brief Report on 3-Day National Workshop on “Efficient Use OF Available Water Resources For More Crop Per Drop(EUAWR-2015)



President Of VNRVJIET Distributing Certificates



Principal Of VNRVJIET Distributing Certificates

THEME OF WORKSHOP:

The Hon' ble Prime Minister of India while delivering the 8th ICAR Foundation Day lecture on 29th July ,2014 called upon the scientists to develop the technologies that will improve water productivity and result in "Per Drop More Crop" By the year 2015the national population likely to increase to 1.5 billion .Water remains a critical input for the agricultural output .As a consequence of increasing Urbanization and industrialization ,the most likely scenario is that the area currently the area under cultivation will see a decline in coming years .But the available water for agricultural use is also set to see a decline due to increasing completion from Domestic & Industrial users. Furthermore the Climatic Changes also set to adversely affect the availability of fresh water.

CONTENTS OF WORKSHOP:

1. Crop water management.
2. Deficit Irrigation.
3. Effect of Climate Change on agricultural production
4. Remote sensing and GIS applications.
5. Reuse of drainage water runoff.
6. Participatory Irrigation Management.
7. Irrigated agricultural issues , Challenges ,and Opportunities.
8. Innovative approaches and technologies for water harvest and storage.
9. Innovative approaches and technologies for increasing on farm water efficiency.
10. Innovative ways to use agricultural water, Municipal waste water and low quality water for agricultural purpose.



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING



**A Brief Report on 3 Day National Workshop on
“URBAN TRAFFIC AND TRANSPORTATION PLANNING PERSPECTIVE FOR
SMART CITIES”
(UTTPSC 2016) Under TEQIP – II
20th – 22nd January 2016**



THEME OF WORKSHOP:

India's fast-growing urban centres present a unique opportunity to approach urban development differently. The need for thoughtful solutions that address quality of life issues within Indian cities is more important than ever. Smart Cities Challenge is a competition designed to inspire and support municipal officials as they develop smart proposals to improve residents' lives. The Smart Cities Mission aims to promote economic growth, improve governance, and produce better results for India's urban resident. Growing travel demand and congestion, rising accident rates, energy and environmental sustainability, rapid urbanization, global warming, and globalization of economies are issues that must be addressed to ensure safe and efficient access to goods and services for developing smart cities. It is hoped that get - together of different stake holders such as consultants, researchers and academicians will provide an opportunity for multi – directional dissemination of knowledge in developing smart cities for providing good transportation to the end users

CONTENTS OF WORKSHOP:

- ✚ Role of urban transport in India with perspective for smart cities
- ✚ Transit Options for Large and Medium size cities
- ✚ Traffic Simulation & Parking analysis for smart cities
- ✚ Macroscopic network modeling through VISSIM
- ✚ Public transport modeling through VISSIM
- ✚ Basic Transit Network Modeling through VISSIM

Dr B. P. Chandrasekhar, Technical Advisor, Govt. AP, former Retd. Director NRRDA, Professor, NIT W has enlightened the importance of smart cities during the inaugural session on the workshop. About Twenty two participants from Industries, academicians and research scholars have registered for the workshop. In the forenoon session (20.01.2016) Dr. A. Ramesh, Associate Professor, CED, VNR VJIET had delivered a talk on *Review of urban transport perspective for smart cities*. In the afternoon session; Dr. K.V.R. Ravi Shankar, Faculty NIT W had delivered talk on Multimodal mobility services and public transportation importance for the smart cities.

On the second day forenoon session (21.01.2016) Dr. V. Vinayaka Ram Associate Professor, CED BITS Hyderabad, had explained the participants on *ITS technologies for Smart Cities*. Dr. A. Ramesh has explained on *Traffic Simulation Techniques and Traffic Signal Design Evaluation Through VISSIM package*. In the afternoon session Mr. T.D. Prabhu from M/s. Sunovatech, New Delhi had provided hands on training on *traffic Signal Optimization*. Third day forenoon session (22.01.2016) Mr. T.D. Prabhu had given hands on training on *Parking and Pedestrian Analysis through VISSIM simulation package*. During the afternoon session Dr M Kumar, Professor and Head, UCE, OU had delivered talk on residential choice modeling and traffic network planning in context with smart cities. All the participants were also giving an opportunity hands on training of simulation package through VISSIM.

The workshop was concluded with a Valedictory & certificate distribution by Dr M Kumar, Professor and Head, UCE, OU, Dr. BDV Chandra Mohan Rao, In- Charge Head CED, Prof. KSV Radha Krishna, Professor in Civil Engineering Dept. A CD containing the workshop notes was also distributed to all the participants.

It is understood from the feedback of all the participants that all the sessions were very informative and appreciated by the participants to the faculty. I thank the Management, Principal, HOD – CE, TEQIP – II, Faculty & Staff of CED and Students for their constant encouragement, valuable suggestions and support provided in organizing this workshop successfully.