Two Weeks Online Faculty Development Programme (FDP) on
‘COMPUTER DILIGENCE IN CIVIL ENGINEERING & APPLICATIONS’
(21st to 30th March 2022)

Organised by
ELECTRONICS & ICT ACADEMY, NIT-WARANGAL
In association with
SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

**Preamble:**

‘Electronics & ICT Academy’ was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy’s role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

**About FDP**

This Faculty Development Programme will help to disseminate the knowledge in the domain of Civil Engineering in general and role of computer technology with respect to construction techniques in particular. It empowers the participants to facilitate up-gradation of knowledge, skill and intends to provide opportunities to enrich the knowledge and to interact with cutting-edge technologies in the field construction engineering, geotechnical engineering, water resources engineering, transportation engineering, earthquake engineering and GIS applications.

Civil engineers have one of the world’s most important jobs; they build our quality of life with creativity and technical skill. The civil engineers plan, design, construct and operate the facilities essential to modern life, ranging from factories, bridges and highway systems to water treatment plants and energy efficient buildings. The Civil engineers meet the challenges of pollution, traffic congestion, drinking water and energy needs for present and future generation. The paper discusses recent applications of computer in the field of civil engineering and addresses the role of application in transferring information, organizing discussion sessions, conferencing and providing technical advice on line.

The outcomes of the program were as follows:

- Understand the availability and usability of software packages for various civil engineering applications.
- Awareness on software packages for design of huge structures, virtual reality, solving equations for optimization of resources, earth-work estimation, cost estimation, project management, structural drawing and predictive model making
- Understand and design different structures using various software packages.
- Demonstrate various case studies in the field of civil engineering.
- Design solutions for several applications using software

**Major Course Contents:**

- An Overview on Civil Engineering and its applications
- Introduction to various software pertaining to civil engineering
- Computer software and its significance in construction technology
- Introduction to the software packages pertaining to design of transportation systems, dams and bridges.
- Awareness on software tools pertaining earthquake engineering.
- Software packages in modern surveying and GIS application
- Introduction to effective utilization of Auto CIVIL (Civil engineering with Auto CAD), STAAD Pro (Structural Analysis And Design), 3D Home Architect Deluxe (Dream Home), ANSYS (Structural Analysis). Illustration of some case studies in civil engineering applications
- Analysis of new class of problems in civil engineering with project management techniques (PERT/CPM)
- Introduction to Structural Health Monitoring (SHM)
- Introduction to REVIT, MATLAB, QGIS, Bentley Civil Engineering Software Suite, Sewer Gem and Highway Gem.

**Faculty Conducting this Program:**

The programme will be conducted and organized by the faculty members from NIT Warangal and SNIST, Hyderabad. Academicians in the concerned field from IITs/NITs/IITs/Central/Deemed/State Universities are invited to deliver lectures in the programme. Experts from construction industries are also expected to deliver as a part of the course.

**About NIT-Warangal:**

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

**About Sreenidhi Institute of Science and Technology, Hyderabad:**

Sreenidhi Institute of Science and Technology (SNIST), Hyderabad, Telangana 501301 is a non-profit organization founded by a group of Industrialists, Academicians, Professionals and non-resident Indians with an idea of imparting purposeful education to youth. SNIST which is being sponsored by Sree Educational Group was established in the year 1997 by Dr. K.T. Mahhe, an extraordinary educationist, a pragmatic leader and a dynamic entrepreneur with rich experience in Academics and Industry with the permission of AICTE, New Delhi and the Government of Andhra Pradesh. The Institute offers 11 UG (B.Tech) and 9 PG (M.Tech and MBA) programs. SNIST is striving hard to empower the students in their technical knowledge and imbibe adequate skills through the teaching by eminent faculty. The present annual intake of the institute is 1836. The institution has been accredited by NAAC with A+ grade and NBA, New Delhi. This year SNIST is celebrating its 25th year (Silver Jubilee).
Two weeks Online Faculty Development Programme (FDP) on ‘COMPUTER DILIGENCE IN CIVIL ENGINEERING & APPLICATIONS’ (21st to 30th March 2022)

Organised by ELECTRONICS & ICT ACADEMY, NIT-WARANGAL

In association with SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD

(Sponsored by Ministry of Electronics and Information Technology (MeIT), GOI)

<table>
<thead>
<tr>
<th>Name:</th>
<th>Registration Fee Particulars:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Faculty and Research Scholars: INR 500</td>
</tr>
<tr>
<td></td>
<td>Industry Participants: INR 1000</td>
</tr>
<tr>
<td>Institution:</td>
<td>Participants need to pay the Registration Fee Online using the following details</td>
</tr>
<tr>
<td>E-mail:</td>
<td>Account Name: Electronics &amp; ICT Academy NITW</td>
</tr>
<tr>
<td>Mobile No.:</td>
<td>Account No: 62423775910; IFSC: SBIN0020149</td>
</tr>
<tr>
<td>Reference No. (fee paid):</td>
<td>Bank and Branch: State Bank of India, NIT (REC) Warangal</td>
</tr>
<tr>
<td>Mode of Payment:</td>
<td></td>
</tr>
<tr>
<td>Amount paid:</td>
<td></td>
</tr>
<tr>
<td>Name of the Bank:</td>
<td></td>
</tr>
<tr>
<td>Date of Payment:</td>
<td></td>
</tr>
<tr>
<td>Address for Correspondence:</td>
<td></td>
</tr>
<tr>
<td>Educational Qualification:</td>
<td></td>
</tr>
<tr>
<td>Subjects taught so far:</td>
<td></td>
</tr>
<tr>
<td>No. of refresher courses/workshop attended:</td>
<td></td>
</tr>
<tr>
<td>Experience in Teaching:</td>
<td></td>
</tr>
<tr>
<td>Research:</td>
<td></td>
</tr>
<tr>
<td>Industry:</td>
<td></td>
</tr>
<tr>
<td>Do you belong to SC/ST: Yes/No</td>
<td></td>
</tr>
</tbody>
</table>

**Declaraiton:**

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for entire duration. I also undertake the responsibility of the course.

**Registration Link:** https://bit.ly/snistfdp

**Important Dates:**

- Last Date (Application & DD): 19th March 2022
- Selection List (by e-mail): 20th March 2022
- Duration: 21st to 30th March 2022

**Note:**

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

**Registration Link:** https://bit.ly/snistfdp

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: https://nitw.ac.in/eict

**Sponsorship Certificate:**

Dr. /Mr. /Ms. ................................. is an employee of our Institute/Organization and is hereby sponsored to participate in the ONLINE FDP on “COMPUTER DILIGENCE IN CIVIL ENGINEERING & APPLICATIONS” sponsored by Electronics & ICT Academy of National Institute of Technology, Warangal in association with Sreenidhi Institute of Science and Technology, Hyderabad during 21st to 30th March 2022.

Signature of Head of the institution/Organization (with seal)

**Coordinators:**

- Dr. M. Heeralal
  - Department of Civil Engineering
  - National Institute of Technology, Warangal
  - Email id: mhl@nitw.ac.in
  - Mobile: 8332969251

- Dr. Venkat Praveen Gannavaram
  - Professor & Head, Department of Civil Engineering
  - Sreenidhi Institute of Science and Technology, Hyderabad
  - Email id: hod-civil@sreenidhi.edu.in
  - Mobile: 8008799755