

Gayatri Vidya Parishad College of Engineering (A) [GVPCE(A)] was established in 1996 by Gayatri Vidya Parishad, a premier educational trust, to promote technical education. This institute is offering 10 B.Tech, 5 M.Tech and one MCA program under the affiliating University, Andhra University. The College was granted autonomous status by UGC in 2009. The status of autonomy is further extended by UGC up to 2025. The institute has been accredited by NAAC two cycles with A grade with CGPA of 3.47. The institute has been accredited by NAAC for the third cycle with A++ Grade with CGPA of 3.52 for 7 years. All the eligible seven B. Tech programs are accredited at least thrice by NBA. The institute reached another mammoth milestone by receiving fund to the tune of Rs 5 crore under Sub-Component 1.2 of Technical Education Quality Improvement Program Phase II (TEQIP-II) for Scaling up PG Education and demand-driven Research & Development and Innovation in the country. The institute is recognized by Indian Society for Technical Education as "The Best Engineering College" of Andhra Pradesh and Telangana States. The college boasts of an established Skill Development Centre with 6 Laboratories in tandem with APSSDC and Siemens and a dedicated Incubation Centre with 10 start ups at work under Centre for Innovation. The institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences.

#### ABOUT THE DEPARTMENT

The Department of Civil Engineering started in 1999, with an intake of 30 students. The current intake is 120. The department also started two M.Tech programs in Infrastructural Engineering and Management, in 2008 and Structural Engineering in 2011 with an intake of 18 each. The department has well-qualified faculty and well-equipped laboratories to impart training to the students. The faculty are also working on internally and externally-funded R&D projects and have published their research in various journals and conferences. The Department has signed MoUs with reputed organisations like NHAI, GVMC, UNDP-GoI (USAID), ISRO, M/s Eco-Carbon Private Limited, AARVEE Associates. The Department has different student chapters like IGBC, IEI (I), ICI, ACE. The Department has been accredited thrice by NBA.

#### About ICI:

The Indian Concrete Institute (ICI), established in 1982, is a premier non-profit professional organization in India dedicated to promoting concrete technology, research, and construction. Originating from a successful seminar by SERC Chennai and Anna University, it has grown to over 14,500 members, including 381 organizational members, across 47 regional centres. ICI conducts various national and international seminars, workshops, and conferences, providing a platform for engineers, manufacturers, academics, and researchers to collaborate, share knowledge, and advance concrete industry practices.

#### RESOURCE PERSONS

1. Sri. Suresh C Tripathi, Executive Director AEPL, Director C-Probe Technologies, NOIDA, U.P.
2. Sri. Dnyanesh Nikam, Manager, C-Probe Technologies, NOIDA, U.P.
3. Sri G Ashok Kumar, DGM, Quality Control, M/s SARVANI INDUSTRIES Pvt. Ltd Visakhapatnam
4. Dr L.Venkat, Professor, Dept of Civil Engg, GVP College of Engineering (A), Visakhapatnam.
5. Dr. Voggu Srinivas, Chief Scientist & Head, SHM Laboratory & Professor, (AcSIR), CSIR-SERC Chennai.

#### DAY WISE ACTIVITIES:

##### Day 1:

Concrete Quality Control Tests at M/s Sarvani Ready Mix Concrete Plant, Madhurawada, Visakhapatnam.

##### Day 2:

Hands on Training using MOLA Structural Kit to understand the structural behaviour of different structural elements.

##### Day 3:

- i) Technical Lecture on "KYC - Know Your Concrete - Relative Insights"
- ii) Technical Lecture on "Universal Structural Health Monitoring using DFOS System.
- iii) Hands on Training using C-Probe to predict the strength of concrete at green stage.

##### Day 4:

Technical Lecture on" Health monitoring of bridges (Online mode)

##### Day 5:

Hands on Training using vibration analyzer and NDT equipments to assess the Structural Health Condition of different structural elements



A Five-day National Workshop  
On  
"Technologies for Smart & Resilient City  
Infrastructure"

28th November - 2nd December, 2024

Organized by  
Department of Civil Engineering  
Gayatri Vidya Parishad College of Engineering  
(Autonomous)  
In Association with M/s SARVANI INDUSTRIES  
Pvt. Ltd., Visakhapatnam  
Under the aegis of Indian Concrete Institute (ICI)  
student chapter

#### REGISTRATION FORM

1. Name:

2. Designation:

3. Category of Participant : (Faculty / Research scholar/Student /Industry):

3. Institution/ Organization:

5. Address for Communication:

6. E-mail ID:

7. Telephone/Mobile No:

Date:

Signature

## ORGANISING COMMITTEE

### Chief Patron

Prof. Dr. Ing. P.S. Rao, President, GVP

### Patrons

Sri D. Dakshina Murthy, Vice-President, GVP

Prof. K. P. R. Sastry, Vice-President, GVP

Prof. P. Somaraju, Secretary, GVP

### Chairman

Prof. A.B.K.Rao, Principal, GVPCE (A)

### Advisory Committee

Prof. P. Veerabhadra Rao, Dean Infrastructure Planning & Development

Prof.G.Papa Rao , HoD, Dept of CE

Prof. Manchikanti Srinivas, Dean, Alumni Relations & Professional Body Student Chapters

Prof. C.N.V Satyanarayana Reddy, Department of Civil Engg, Andhra University & Chairman, ICI, Vizag chapter

Prof. K.Srinivasa Rao, Department of Civil Engg, Andhra University & Secretary, ICI, Vizag chapter

Sri D V Krishna Reddy, Director, M/s SARVANI INDUSTRIES Pvt. Ltd., Visakhapatnam

### Coordinator

Dr.G.Madhuri, Associate Professor, Dept of CE, Treasurer, ICI, Vizag chapter

### Co-Coordinator

Smt. J.Sumasree, Assistant Professor

Mr. Y. Pratap, Assistant Professor

### Members

Dr.Ch.Ramesh Naidu, Professor

Dr.L.Venkat, Professor

Sri.K.Sridhar, Associate Professor

Sri.K.Padmanabham, Associate Professor

Dr.Ch. Suryanarayana, Assistant Professor

Dr.V. Mahalakshmi Naidu, Assistant Professor

Dr.N.Ramakrishna, Assistant Professor

Smt.D.Preethi, Assistant Professor

Sri.V.Ramesh, Assistant Professor

Smt.A. Chandrakala, Assistant Professor

Sri. D. Pradeep, Assistant Professor

Smt. Y. Bhuvaneshwari Devi, Assistant Professor

Sri. V. Bhaskara Rao, Assistant Professor

Sri. G.L.Ravi Raj, Assistant Professor

Dr. G Santosh Kumar, Assistant Professor

### About Workshop:

This workshop aims to explore the applications of Structural Health Monitoring (SHM) technologies with specific focus on smart sensors. SHM is crucial for ensuring the safety, durability and performance of infrastructure, buildings and other structures. It involves monitoring the condition of structures to detect potential issues before they become critical. Concrete Maturity Meter (CMM) is a non-destructive test which measures the concrete temperature and maturity to determine its strength development. The reliance on cube test results which are unreliable, often leads to premature bursting of concrete during de-stressing in PT slabs. This leads to delays in construction cycles, unsafe conditions and loss of revenue due to increase in overhead costs. To mitigate these risks in PT slabs, Quality 4.0 technology, indigenously developed of Concrete Maturity Meter System (CMMS) were implemented to monitor in-situ strength in real-time, continuously and automatically. This workshop provides deeper insights to the participants about the concepts and applications of SHM in infrastructure projects. This workshop also explores the structural behaviour using MOLA structural kit. After going through the various lectures and hands-on training sessions, participants will get an opportunity to explore the modern NDT technology in Civil Engineering infrastructure.



Who can attend: Faculty and students from academia, Employees from Industry, Government and Private sectors.

### BOARDING & LODGING

The participants are requested to make their own arrangements for lodging and boarding for offline mode.

### IMPORTANT DATES

Last date for registration: 25 th November, 2024

Intimation of registered candidates: 27th November, 2024

### FOR DETAILS CONTACT

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Venue:

Department of Civil Engineering

Gayatri Vidya Parishad College of Engineering  
(Autonomous),

Approved by AICTE, New Delhi and

Affiliated to Andhra University, Visakhapatnam from  
2022-23

(Affiliated to JNTUK - Kakinada upto 2021-22)

Accredited by NAAC with “A++” Grade

with a CGPA of 3.52/4.00 for 7 years

Madhurawada, Visakhapatnam-530048

Fax No. 0891-2739605, <http://www.gvpce.ac.in>