

GVP COLLEGE OF ENGINEERING (A), VISAKHAPATNAM

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 has successfully undertaken R&D projects funded by external agencies amounting to Rs.1306 lakhs, along with consultancy projects executed to the tune of Rs.701 lakhs. 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.

RESOURCE PERSONS

1. **Dr. Srinivas V**, Chief Scientist & Head, CSIR-Structural Engineering Research Centre, Chennai.
2. **Dr. B. Srinivas**, Professor, Dept of Chemical Engineering, GVP College of Engineering (A)
3. **Dr. CV.K. Bhanu**, Professor & Dean IQAC, Dept of Electrical & Electronics Engineering, GVP College of Engineering (A)
4. **Dr. Gundala Nagaraju**, Chief Executive Officer, Smart Mieten Tech Pvt Ltd. Hyderabad.
5. **Dr. Upendra Kumar Mallela**, Head of Stress and Sr.Technical Manager, Expleo Solutions Limited, Bangalore.
6. **Dr. K.B.V.N Phanindra**, Professor, IIT Hyderabad.
7. **Dr VSS Kiran**, Founder and CEO, GARUDALYTICS, Hyderabad.
8. **Dr. K.V.R. Ravi Shankar**, Associate Professor, Dept of Civil Engineering, NIT Warangal.
9. **Dr. Najeeb Shariff Mohammad**, Assistant Professor, Dept of Civil Engineering, IIT Bombay.

LIST OF TOPICS

1. Overview of AI in Civil Engineering, Industry trends and its Future scope.
2. AI applications in structural Engineering – Design to Diagnostics.
3. Theory & Algorithms for ML and Implementation using sklearn.
4. Teaching-Learning with AI.
5. AI for Sustainability: Predicting Water Pollution to Safeguard Ecosystems.
6. Artificial Intelligence in Civil Engineering applications.
7. AI applications in Water Resource Engineering.
8. Geospatial data analytics.
9. Machine learning applications for effective traffic congestion management.
10. Prediction of crack width in reinforced concrete structures using machine learning algorithms.

REGISTRATION FEE

No Registration fee



AICTE Training and Learning (ATAL) Academy Sponsored

One week

Faculty Development Programme (Offline)

On

“Artificial Intelligence in Civil Engineering: Trends, Applications, and Future Prospects”

18th - 23rd August, 2025

Organized

by

**Department of Civil Engineering
Gayatri Vidya Parishad College of Engineering
(Autonomous)**

REGISTRATION FORM

1. Name:
2. Designation:
3. Category of Participant : Faculty / Research
Scholar / PG Scholar / Industry):
4. Institution/ Organization:
5. Address for Communication:
6. E-mail ID:
7. Telephone/Mobile No:
8. Registration Link:
<https://atalacademy.aicte-india.org/signup>

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Co-Coordinator

Dr. L. Venkat, Professor

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Sri. K. Padmanabham, Associate Professor

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Smt. Y. Bhuvaneswari Devi, Assistant Professor

Mr. Y. Pratap, Assistant Professor

Sri. V. Bhaskara Rao, Assistant Professor

Sri. G. L. Ravi Raj, Assistant Professor

Dr. G. Santosh Kumar, Assistant Professor

ABOUT THE PROGRAMME

This Program is designed to explore the growing role of Artificial Intelligence (AI) and Machine Learning (ML) in revolutionizing various domains of Civil Engineering. The program will focus on key applications such as AI-driven structural diagnostics, sustainability, structural health monitoring, traffic congestion management, and water resources modelling.

Through expert lectures and hands-on sessions, participants will gain a deep understanding of industry trends, predictive modelling techniques, and geospatial data analytics.

This FDP aims to equip researchers, academicians, and industry professionals with the necessary skills to leverage AI technologies for building resilient and smart infrastructure, ultimately contributing to the future of sustainable development in Civil Engineering.

PROGRAM OBJECTIVES:

- To familiarize the participants to AI & ML concepts relevant to Civil Engineering.
- To explore AI and demonstrate its practical applications in structural health monitoring, traffic modelling, sustainability, geospatial and water resource management.
- To provide hands-on experience with AI tools and platforms (Python, TensorFlow, Scikit-Learn, etc.)
- To foster research and industry collaborations in AI-driven Civil Engineering solutions

WHO CAN ATTEND

Faculty
Research Scholars
PG Scholars
Industry professionals

IMPORTANT DATES

Last date for registration: 10th August, 2025

Intimation of registered candidates: 12th August, 2025

FOR DETAILS, CONTACT

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Approved by AICTE, New Delhi and

Affiliated to Andhra University, Visakhapatnam from

2022-23

(Affiliated to JNTUK - Kakinada upto 2021-22)

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