

Founded in 1981 by Vasavi Academy of Education, Vasavi College of Engineering (VCE) represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, VCE owes its vision to Sri Pendekanti Venkata Subbaiah, a veteran statesman of Independent India. VCE has been conferred with Autonomous Status by the University Grants Commission (UGC), New Delhi and Osmania University, Hyderabad for a period of six years with effect from the Academic Year 2014-15 and has been extended for a period of ten years from 2021-22 to 2030-31. The college is Accredited by NAAC with 'A++' Grade.

Vision: To be a Centre of excellence in emerging areas of Information Technology.

- Provide a comprehensive learning experience on the latest technologies and applications.
- Equip the stakeholders with technical knowledge and leadership skills with collaboration to become competent professionals.
- Motivate innovation and contribute to the social issues with human values and professional ethics.

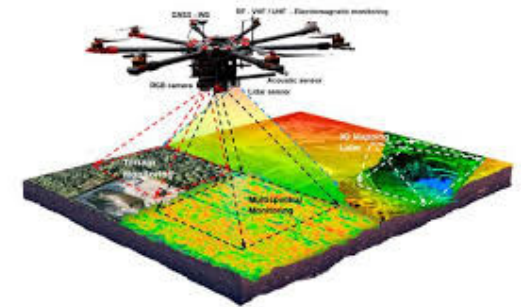
The IT department was established in the year 2000. It offers a 4-year undergraduate program, B.E. in Information Technology, with an annual intake of 180 students. This program is accredited by the National Board of Accreditation under TIER-I. The program ensures that our students effectively meet the highest benchmarks of competence required by the industry. Since 2020, the department has also been offering the B.E. IT Honors degree with Artificial Intelligence and Machine Learning (AI&ML). The students of our department have been consistently selected by leading multinational companies, including Google, Microsoft, Amazon, Uber, ServiceNow, Cisco, Oracle, Pegasystems, and TCS, during campus recruitment drives. Our department organized several workshops in collaboration with IEEE GRSS and hosted international conferences on Machine Intelligence for GeoAnalytics and Remote Sensing. Our department holds a funded project on “Drone/UAV based Multi Sensor High Quality Precision Photogrammetry Laser Mapping and Data Capture, Processing for Geo-Spatial Platforms”, funded by DST NGP under National Geospatial Programme, worth of 35.75Lakhs.

Sri P. Ramamohan Rao, President, VAE
Sri V. M. Parthasarathi, Secretary, VAE

Dr. V. V. Appaji
Dr. S. Aruna
Dr. B. Kezia Rani
Dr. M. Neelakantappa
Dr. S. K. Prashanth
Mr. R. Dharma Reddy
Dr. S. Sree Lakshmi
Dr. K. Rama Krishna
Dr. K. Srinivasa Chakravarthy
Ms. S. Rajya Lakshmi
Mr. N. David Raju
Mr. G. Rajashekhar
Mrs. D.R.L. Prasanna
Mrs. L. Divya
Dr. C. Sireesha
Dr. B. Leelavathy
Ms. G. Radha
Ms. Haseeba Yaseen
Dr. M. Sathya Devi
Mrs. Sruthi Anand
Mrs. Soume Sanyal
Dr. T. Anjani Devi
Mr. Md. Ghazwan Ahmed Khan
Mrs. R. Nanda Kumari
Dr. Arun Kumar Silivery
Mr. Ch. Harishwar Reddy
Mrs. K. Kavya
Mr. Mohan Kamal Hassan

[illegible]

17th to 22nd August, 2026



Organized by
Department of Information Technology
VASAVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
ACCREDITED BY NAAC WITH 'A++' GRADE
Website: www.vce.ac.in

About ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. AICTE is committed to the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need to train the young generation in the skill sector and have faculty & technicians be trained in their respective disciplines. Training is required to increase the knowledge and skills of students making them more employable to acquire global competencies.

About the FDP

The Faculty Development Program (FDP) on "Drone-Based Multi-Sensor Remote Sensing and AI for Geospatial and Environmental Applications" is designed to introduce faculty members and researchers to drone-based geospatial technology. Structured for participants with little or no prior background in remote sensing, drones, or artificial intelligence, the program is accessible and practical from day one.

The FDP builds a step-by-step understanding of how drones collect data using sensors such as RGB cameras, multispectral sensors, and LiDAR, and how this data is processed into maps and spatial information. It also offers a conceptual introduction to AI and Machine Learning as applied to drone and satellite imagery, with emphasis on tools and workflows rather than mathematical theory.

Through hands-on lab sessions, live demonstrations, case studies, and an industrial visit, participants gain practical exposure to applications in environmental monitoring, agriculture, urban planning, and disaster management. The program additionally covers the essential rules and regulations governing drone operations in India.

By the end of the FDP, participants will have a solid foundational understanding of drone-based geospatial workflows and will be well-positioned to incorporate these technologies into their teaching, research, and academic projects.

Objectives of FDP

- Introduce drone (UAV) technology, remote sensing principles, and sensor types such as RGB, multispectral, and LiDAR to faculty with no prior background.

- Familiarise participants with drone mission planning, field data collection, and basic geospatial tools like QGIS and Google Earth.
- Build conceptual awareness of AI and ML as applied to remote sensing imagery, focusing on understanding rather than programming.
- Demonstrate applications of drone and geospatial technologies in environmental monitoring, agriculture, urban planning, and disaster management.
- Promote hands-on and interdisciplinary learning through lab sessions, article discussions, and industry interaction.
- Equip participants to pursue further learning, contribute to geospatial research, and follow drone regulations and data ethics in India.

Major Course Contents

- Fundamentals of remote sensing, GIS, and drone technology
- Overview of sensor types: RGB, multispectral, LiDAR, and SAR
- Drone mission planning and field data collection basics
- Introduction to AI and ML concepts for remote sensing
- Deep learning awareness through live demonstrations using open-source tools
- Applications in environment, agriculture, urban planning, and disaster management
- Hands-on lab sessions using QGIS and open datasets
- Research article discussions connecting theory to practice
- Industrial visit and expert interaction for real-world exposure
- Drone regulations, data ethics, and responsible geospatial data usage

Resource Persons

- Dr.K.Raghavendra, Scientist 'G', Head High Performance and Quantum Computing, Advanced Data Processing Research Institute, ISRO, Hyderabad.
- Mr. K. Srinivasa Raju, CEO and Director, Unistring Tech Solutions (UTS)
- Mr. Suraj Reddy, Scientist "SF" & Dy. Division Head, FRD, NRSC
- Mr. Harish Alladi, CEO and Managing Director, X Dimension Robotics Pvt Ltd
- Dr. Rama Rao Nidamanuri, Professor, IIST, Trivandrum
- Dr. K. Ram Mohan Rao, Prof. & HoD, Dept. of IT, VCE
- Dr. Subash Yeggina, Lead Scientist at Pixxel,
- Mr. Amit Kumar Gupta, Sr. Data Scientist, Microsoft, Hyderabad
- Dr. T. Hitendra Sarma, Assoc. Prof., Dept. Of IT, VCE

Location & Transport

The college is located 8 kms from Mehdiapatnam (on the way to Gandipet) near Ibrahimbagh bus stop. BUS Route Nos. (from Mehdiapatnam): 220V, 6B, 505, 220J, 120M

Registration Information

- Registration must be through ATAL portal.
- No Registration Fee.
- Maximum no. of participants: 50
- First signup at <https://atalacademy.aicte-india.org/>
- After login, fill general details.
- Select the FDP from the link <https://atalacademy.aicte-india.org/participant/workshop.php>
- Any one Identity Proof (JPEG File) and NOC from present organization (PDF file) need to be submitted by the participants.

Who should Attend:

Assistant Professors/Associate Professor/Ph.D. Scholars/PG students

Mode of Delivery: In house (offline)

Evaluation of participants:

Candidates would be eligible to receive a certificate up on achieving **at least 70% cumulated weightage** in the following aspects in the weightage mentioned.

1. Attendance – minimum 80% attendance essential. 100 % attendance - (individual) - weightage 20%
2. One assessment, - combination of MCQs/short answer type/reasoning based, etc. -(Individual) - weightage10%
3. Two Page Article Summary/per Team - (Team & Individual)- - weightage30%
4. Output of practical sessions -(Individual)-weightage15 %
5. Report/outcome of Industrial visit- (Team) at the last session -weightage10%
6. Reflection Journal - (Individual) - at the last session - weightage15%

Contact Details: Coordinator

Dr. K. Ram Mohan Rao
Professor & HOD
Department of Information Technology
Vasavi College of Engineering, Hyderabad-31
hodit@staff.vce.ac.in
Phone. No: 9866670213