VIT Vidyalankar Institute of Technology
Accredited A+ by NAAC

Autonomous Institute Affiliated to University of Mumbai

EXTRACTING

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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Vision of the Department

To be recognized as a center of Excellence in the field of Electronics and Telecommunication Engineering where learners are nurtured in a scholarly environment to evolve into competent professionals to benefit society.

Mission of the Department

1. Evolve a curriculum which emphasizes on strong engineering fundamentals with the flexibility to choose advanced courses of interest and gain exposure to tools and techniques in Electronics and Telecommunication Engineering.
2. Encourage a teaching-learning process in which highly competent faculty share a symbiotic association with the institutes of repute.
3. Facilitate creation and dissemination of Electronics and Telecommunication knowledge through a digitally-enabled learning environment.
4. Develop academic and infrastructural facilities with modern equipment and other learning resources and encourage reciprocal sharing with other institutes through networking.
5. Establish a centre of excellence to enhance academia – Electronics and Telecommunication industry partnership and work on collaborative projects.

Programme Educational Objectives (PEO)

1. Graduates will be able to apply Electronics and Telecommunication knowledge to design technically sound systems, adopt new technologies through lifelong learning and to lead a successful career in diverse domains and streams.
2. Graduates will be able to show ability of Research and Development and Entrepreneurship skills.
3. Graduates will be able to exhibit professionalism, ethics, teamwork and social awareness in their career.

WHAT'S INSIDE

DR. GIRISH GIDAYE

HEAD OF DEPARTMENT, ELECTRONICS AND TELECOMMUNICATION ENGINEERING

It gives me immense pride to share the recent accomplishments and progress of the Department of Electronics and Telecommunication Engineering. Staying true to our vision of being recognized as a center of excellence, we continue to foster a scholarly environment where students evolve into competent professionals poised to make meaningful contributions to society.

Our students have made us proud by participating in various project competitions and securing prestigious accolades, demonstrating both their technical skills and innovative thinking. Furthermore, several students, under the guidance of our dedicated faculty, have presented their research work at reputed conferences, showcasing the collaborative and research-driven spirit of our department.

I extend my heartfelt congratulations to all students and faculty members for their relentless efforts and achievements. Let us continue to strive together towards excellence, innovation, and societal impact.

EXTC Department Students successfully completed 4 Credit transfer courses

Date: 05-06-2025 to 15-6-2025
Venue: Offline
Topic: '4 Credit course on Python Programing'

Description: The objectives of this course were as follows:

- Understand and apply Python fundamentals: variables, data types, control structures, functions, methods, and exception handling.
- Gain proficiency in Python collections: working effectively with lists, dictionaries, and tuples.
- Develop ability to connect Python applications to databases, perform CRUD operations, and handle data integration.
- Apply cumulative learning in a final project: design, develop, and deploy a database-integrated web application using Python, Flask/Django, and RESTful APIs.

Details of the activity:

Vidyalankar Institute of technology has organized 4 credits transfer course on 'Pyhton programming for Web Development' at CDAC from 5 June to 15 June 2025. Course covered everything from core Python concepts—including dictionaries, lists, tuples, functions, methods, advanced topics, and exception handling—to database integration and full-stack web development using Flask and Django. Over 10 intensive days, students engaged in four internal assessments to reinforce learning, explored establishing DB connections in Python, delved into the Flask framework with database integration and RESTful API creation, then progressed to Django fundamentals and API building. The experience culminated in a final project, synthesizing skills by constructing real-world, database-driven web applications, ensuring learners gained a comprehensive and practical command of both Python and its modern web frameworks.

Takeaways:

- Students developed functional web applications supporting CRUD and RESTful operations
- Improved confidence in using both Flask and Django for web/back-end development
- Positive feedback on hands-on assessments and project-based learning

Total Number of Attendees:
Number of students: 110
Number of Faculty: 2

> Tell me and I forget. Teach me and I remember. Involve me and I learn.
> - Benjamin Franklin

Alumni Speak

Amogh Vengurlekar

Technical Support Lead, Jampot Technologies

Batch 2020

I am deeply grateful to my alma mater, Vidyalankar Institute of Technology, for shaping not only my education, but the person I am today. During my time there, I was supported by passionate faculty who went beyond teaching—they mentored, encouraged creativity, and challenged me to grow both academically and personally. The vibrant campus life, with its clubs, events, and community spirit, gave me lifelong friendships and experiences that remain unforgettable. From rigorous classroom learning to hands-on projects and soft-skills workshops, the college prepared me for real-world challenges and inspired confidence. I cherish the sense of belonging I felt—from the holistic guidance of staff to the welcoming atmosphere of peers. Thank you, Vidyalankar Institute of Technology, for giving me the tools, values, and memories that continue to guide my journey forward. I'm proud to be an alumnus/alumna and forever grateful for this transformative experience.

EXTC Department congratulates following TE Toppers

Sr. No	Subject Name	Name of the student
1	Engineering Economics	KHOBREKAR AARYA MILIND ARCHANA
2	Mobile Communication System	JADHAV SIDDHI SUNIL TRIVENI
		PAWAR AISHWARYA EKNATH KAVITA
3	Digital Image Processing	BHAGWAT ADITYA VIKRANT SUJATA
4	Introduction to Data Analytics	SWAMI SWAYAM SIDDHESHWAR KANCHANMALA
5	Principles of Internet of Things (IoT)	BHURAN GAURANGI HARESH NANDINI
6	Advanced VLSI Design and Technology	CHAVAN SUJAL MANGESH SAKSHI
7	Machine Learning	SWAMI SWAYAM SIDDHESHWAR KANCHANMALA
8	Embedded System Design with Tiny Operating System	SAYYED RAIS NAZNEEN BANO
9	Analog IC Design	VERMA YASHVARDHAN MUKESH KUMAR SHABNAM VERMA
10	CYBER LAW	BAVISKAR PRANALI POPAT VANDANA
11	PRODUCT LIFE CYCLE MANAGEMENT	GOGATE VEDANG ANIRUDDHA MANJIRI
12	NANOTECHNOLOGY	MAHAJAN PRATHAM SANDEEP SEEMA
13	RENEWABLE ENERGY MANGEMENT	ATTAL ADITI PANKAJ BHARATI
14	IRP & PATENTING	KEMBULKAR PRATHAM PRAVIN NAMRATA
15	RESEARCH METHODOLOGY	SANSARE VAISHNAVI SUDHIR SUNANDA
16	PROJECT MANAGEMENT	BHAGWAT ADITYA VIKRANT SUJATA

Technology News

AI-enabled control system helps autonomous drones stay on target in uncertain environments
The system automatically learns to adapt to unknown disturbances such as gusting winds.
Adam Zewe | MIT News
Publication Date:
June 9, 2025

An autonomous drone carrying water to help extinguish a wildfire in the Sierra Nevada might encounter swirling Santa Ana winds that threaten to push it off course. Rapidly adapting to these unknown disturbances inflight presents an enormous challenge for the drone's flight control system.

To help such a drone stay on target, MIT researchers developed a new, machine learning-based adaptive control algorithm that could minimize its deviation from its intended trajectory in the face of unpredictable forces like gusty winds.

Unlike standard approaches, the new technique does not require the person programming the autonomous drone to know anything in advance about the structure of these uncertain disturbances. Instead, the control system's artificial intelligence model learns all it needs to know from a small amount of observational data collected from 15 minutes of flight time.

Importantly, the technique automatically determines which optimization algorithm it should use to adapt to the disturbances, which improves tracking performance. It chooses the algorithm that best suits the geometry of specific disturbances this drone is facing.

Reference: AI-enabled control system helps autonomous drones stay on target in uncertain environments | MIT News | Massachusetts Institute of Technology

THE
EDITORIAL TEAM
PROF.AMEY S.REVANDKAR