B.TECH
COMPUTER SCIENCE & ENGINEERING

Vision Group of Institutions

B.Tech Diploma MBA BBA BCA

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Kanpur Campus: Hathipur, Mahrajpur, Off NH2, Kanpur- 209402

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Vision.. the shape of things to come

Program Overview

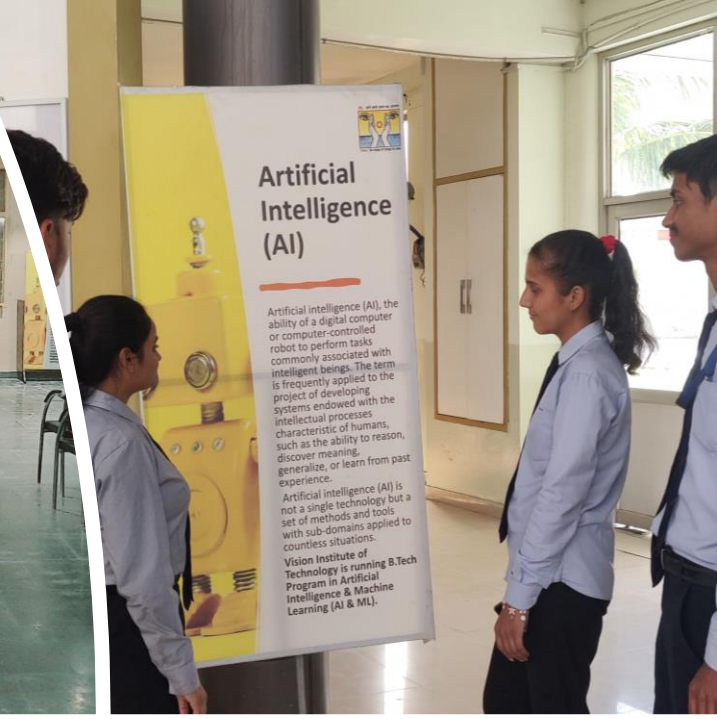
Vision Institute of Technology's B.Tech. program in Computer Science and Engineering is a cutting-edge course that provides a comprehensive education in computer science and engineering. Approved by AICTE, it equips students with hands-on experience and training in programming, algorithms, networks, and other relevant technologies.

Graduates receive a specialized B.Tech. degree in Computer Science and Engineering, recognized by leading employers and academic institutions worldwide.

Program Highlights

The B.Tech. program in Computer Science & Engineering at Vision Institute of Technology offers a host of program highlights for students seeking a comprehensive education in the field. With an interdisciplinary approach that integrates computer science, mathematics, and statistics, students gain a deep understanding of both theoretical foundations and practical applications. Hands-on experience with cutting-edge technologies and software tools ensures students are well-prepared for real-world projects.

Approved by prestigious organizations like AICTE and Dr. A.P.J. Abdul Kalam Technical University, the program's curriculum is regularly updated to align with the latest industry trends. Graduates emerge with the expertise and competitive edge needed for successful careers in computer science and engineering.



What is B.Tech CSE about?

The B.Tech. program in Computer Science & Engineering at the Vision Institute of Technology provides a comprehensive education in the field. Students gain practical skills and theoretical knowledge in computer science and engineering, becoming experts in designing and developing computer-based systems. The program covers programming languages, data structures, algorithms, computer networks, and software engineering. Hands-on training with industry tools like C++, Java, HTML/CSS, JavaScript, and SQL is included.

Graduates are prepared for careers in healthcare, finance, manufacturing, and technology, as computer-based solutions revolutionize these industries.

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Why study B.Tech CSE at VIT?

Studying B.Tech CSE at Vision Institute of Technology offers a forward-thinking education that incorporates the latest technologies. Students explore AI, cloud computing, AR & VR, blockchain, and Data Science, preparing them for the digital landscape. The program also offers certification courses in Azure, Power Platform, and State of App, providing industry-recognized credentials.

Vision Group of Institutions focuses on holistic student development activities through industry exposure, outdoor activities, certifications, sports, and community events.

With a comprehensive curriculum, experienced faculty, industry connections, practical experience, and state-of-the-art facilities, B.Tech students at VIT gain a competitive advantage in the dynamic IT industry.

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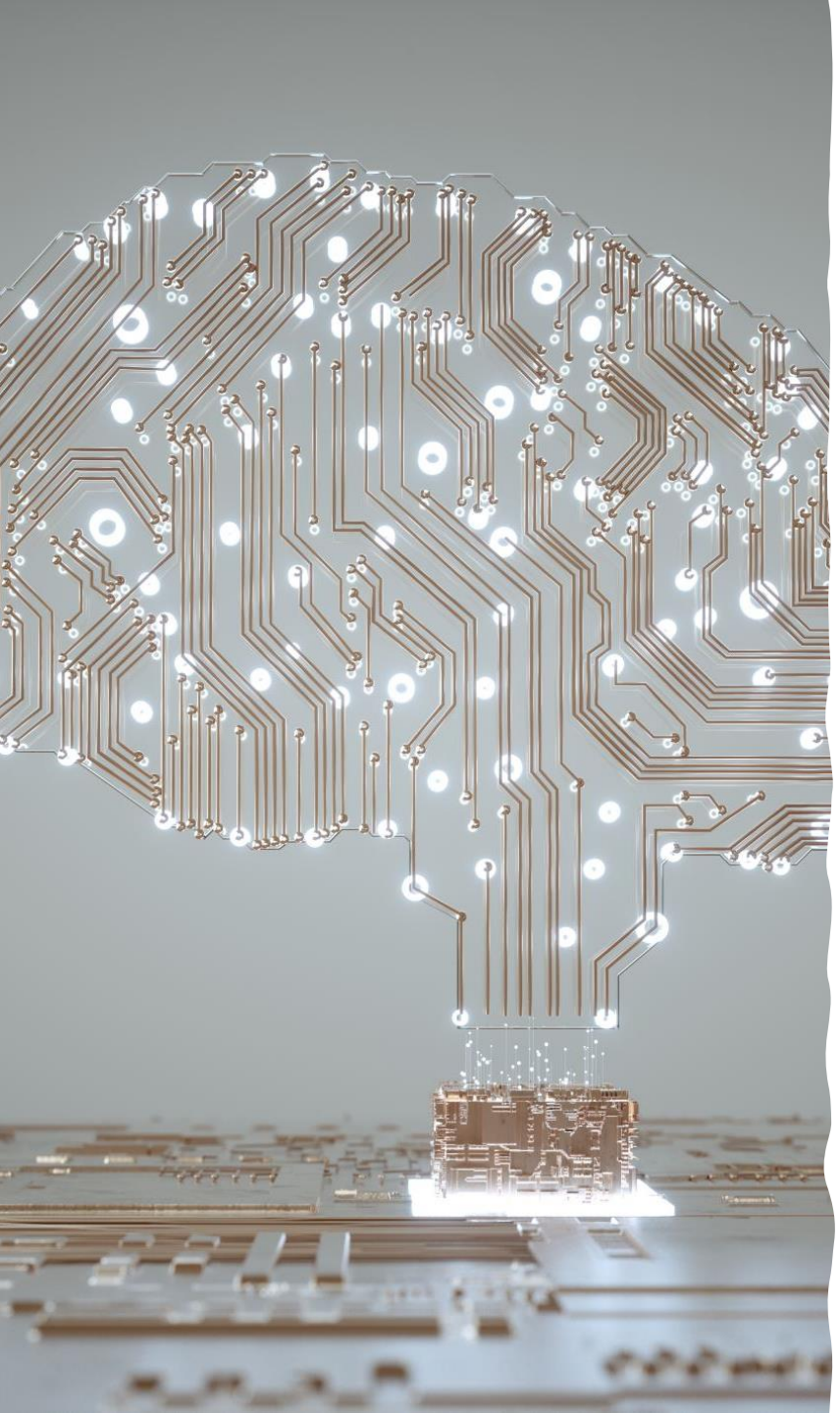

Special Resource Material by
Vision Group of Institutions

What is Artificial Intelligence & Machine Learning?

Artificial Intelligence (AI) is a computer science field that creates machines capable of performing tasks that normally require human intelligence. AI systems use algorithms, statistical models, and machine learning techniques to learn from data and improve their performance over time. AI has various applications and has the potential to transform the way we live and work.

Machine learning is a subset of artificial intelligence that focuses on developing algorithms and models that enable computers to learn from data and make predictions or take actions without being explicitly programmed. It involves training and improving systems through data analysis, allowing them to adapt and improve their performance over time.

Check Exploring Artificial Intelligence & Machine Learning, Special Resource Material @ VIT

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Further details about B.Tech CSE Program

- **Eligibility**

Eligibility is as per the AICTE & university guidelines.

- **Curriculum**

The B.Tech program in Computer Science and Engineering at Vision Institute of Technology follows the curriculum prescribed by Dr. A.P.J. Abdul Kalam Technical University, Lucknow. The program meets industry standards and covers core courses like Data Structures, Operating Systems, and Computer Organization. Elective courses in areas like AI, Machine Learning, and Robotics allow students to specialize and gain expertise.

Job Prospects

The World Economic Forum's *Future of Jobs Report 2023* says that AI and machine learning specialists, data analysts and scientists, and digital transformation specialists are the most prominent emerging roles.

After completing the B.Tech program at VIT, job prospects are abundant for graduates. They are highly sought after in industries in various industries such as healthcare, finance, e-commerce, and technology. Leading IT companies such as IBM, Microsoft, TCS, Infosys, and Wipro actively recruit B.Tech graduates. They can pursue roles like Software Engineer, Full-stack Developer, Database Administrator, Cybersecurity Analyst, and Business Analyst.

At VIT, we provide comprehensive support, including career counseling, to help our graduates find rewarding job opportunities and succeed in their chosen fields.

Research Opportunities

The B.Tech program in Computer Science and Engineering at Vision Institute of Technology offers students numerous research opportunities in various domains. Students can participate in research projects under faculty guidance and collaborate with industry partners.

Research areas include AI, machine learning, computer networks, software engineering, and database management. Engaging in research during undergraduate studies enhances employability, develops critical thinking skills, and provides a foundation for advanced academic pursuits.

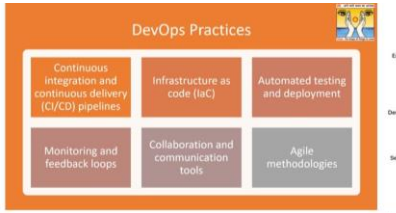
Certification Programs

Vision Group of Institutions conducts a variety of certification programs, including the highly sought-after Microsoft Azure Certification Series (ACS), State of App; which covered techs like API, Serverless, Containers; and Power Platforms: Low Code App Development.

These programs provide our students with valuable exposure and practical skills in cutting-edge technologies, equipping them for success in the dynamic professional landscape.

Few programs conducted in the Academic session 2022-23 were:

- **Microsoft Azure Certification Series (ACS)**
- **State of App- from Monolithic to Microservices**
- **Power Platforms: Low Code App Development**



DevOps

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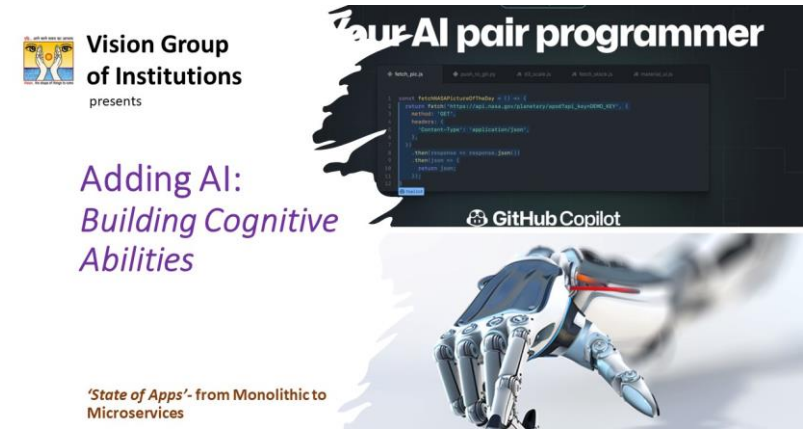

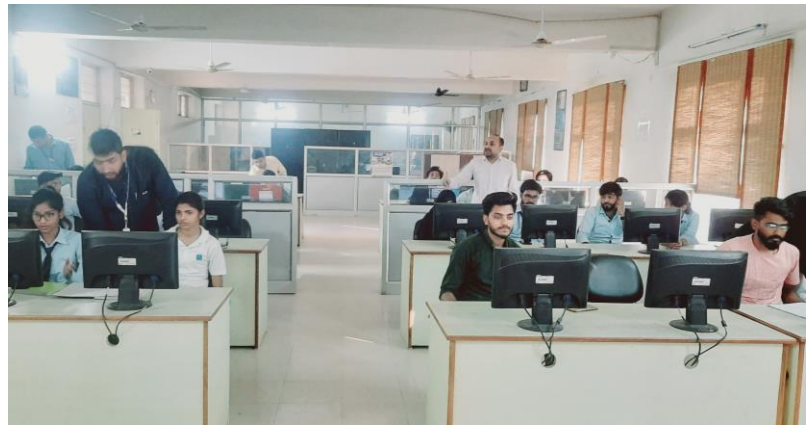

Few glimpses from our Certification Programs

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Azure Certification Program (ACP) – Program details

- Day 1: Azure Fundamentals - Building a Strong Foundation in Cloud Computing
- Day 2: Azure Storage and Success Stories - Navigating the Cloud Landscape
- Day 3: Azure Data Services - Unlocking the Power of Your Data in the Cloud

Day 1: Azure Fundamentals - Building a Strong Foundation in Cloud Computing

- Introduction to cloud computing
- Overview of Microsoft Azure
- Azure Services and Solutions
- Hands-on lab session- Azure Portal: First Look; Resources & Popular Services

Azure Virtual Machines

Azure Virtual Machines is a fully customizable infrastructure-as-a-service (IaaS) solution that allows users to deploy and manage virtual machines in the cloud. It provides users with complete control over the virtual machines and the operating systems they run.

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nds-on lab session- ıre Storage Lab

Day 3: Azure Data Unlocking the Power Data in the Cloud

- Introduction to Azure D Services
- Azure SQL- First Look:
- Hands-on lab session- Lab

Tech covered under Azure Certification Program

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Serverless Event-driven Cloud Functions

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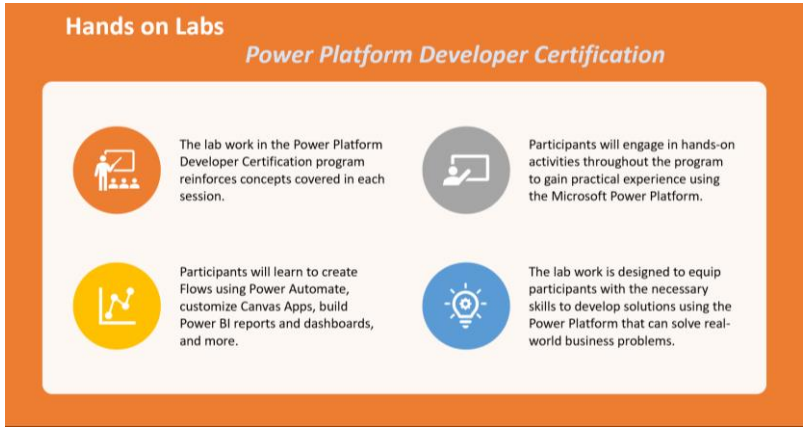
Application Programming Interface (API)

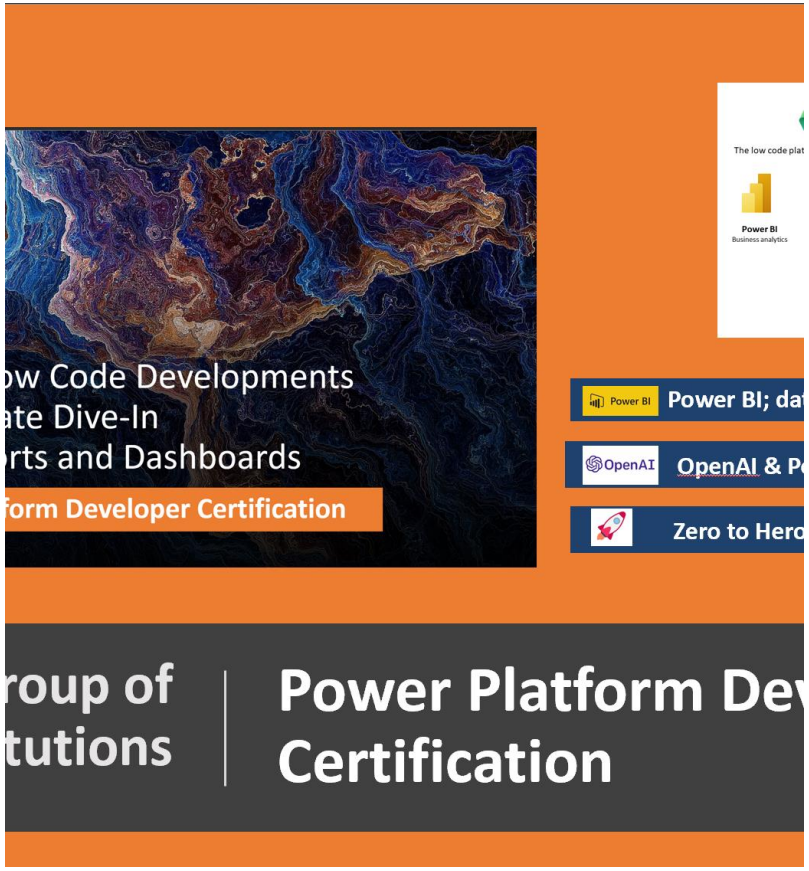
Tech covered under ‘State of App’ Certification Program

Learning Outcomes

Power Platform Developer Certification

Develop	Develop solu Power Apps,
Understand	Understand t user interfac
Create	Create Flows build Power
Apply	Apply best p security, scal
Integrate	Integrate AI Automate.
Merge	Merge data f BI.
Visualize	Visualize da
Solve	Solve real-w





Technologies covered under Power Platform Certification

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Advantages @ VIT

- Academics
- Certification Programs
- Center of Excellence(CoE)
- Student Development Activities
- Placement & Pre-Placement Activities

Advantages @ Vision Group of Institutions

Vision Group of Institutions offers number of unique advantages including academics, student development programs, placement & results, and facilities. From Advance Labs, Centre of Excellences, to numerous Student Activities; let college leave a lifelong cherished memory.

Industry Visits & Surveys

World Class Facilities

Academic Records & Merit Holders

Training & Placement Cell

Hobby Clubs

Projects & Lab Work

Centre for Character and Leadership Development (CCLD)

Hostel Life @ VIT

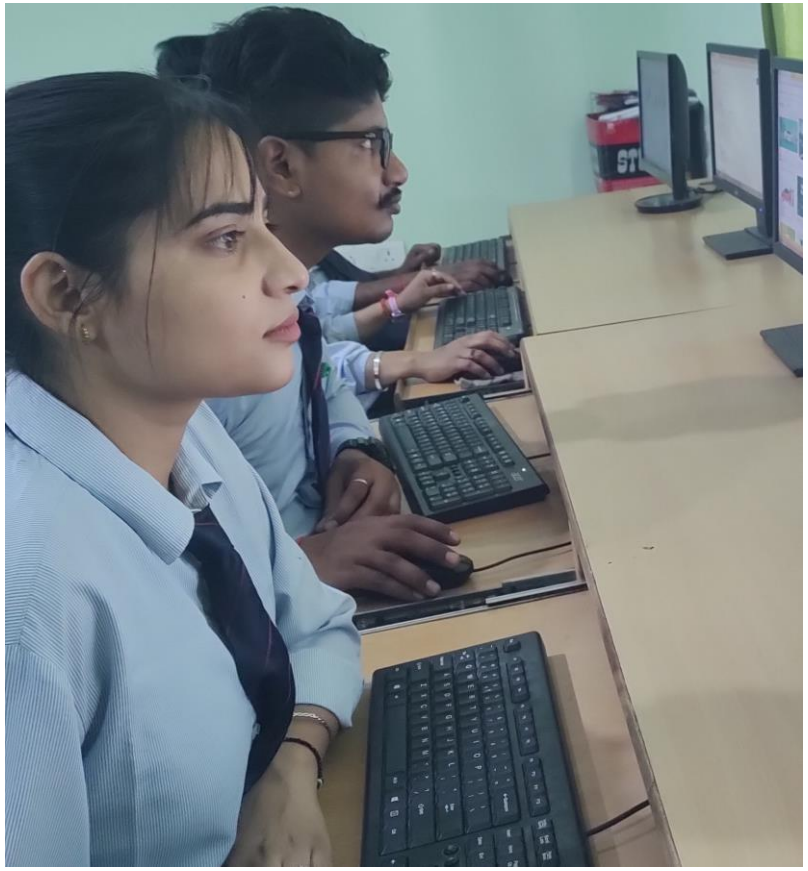
Guest Lectures & Workshops

Innovation & Research Centre

Entrepreneurship & Start-up Cell

Alumni Success Stories

Academics



Life @ Vision

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Engineering Programs at VIT

Vision Institute of Technology offers B.Tech. Degree Programs in following Core Branches:

- Agriculture Engineering
- Civil Engineering
- Electrical & Electronics Engineering &
- Mechanical Engineering

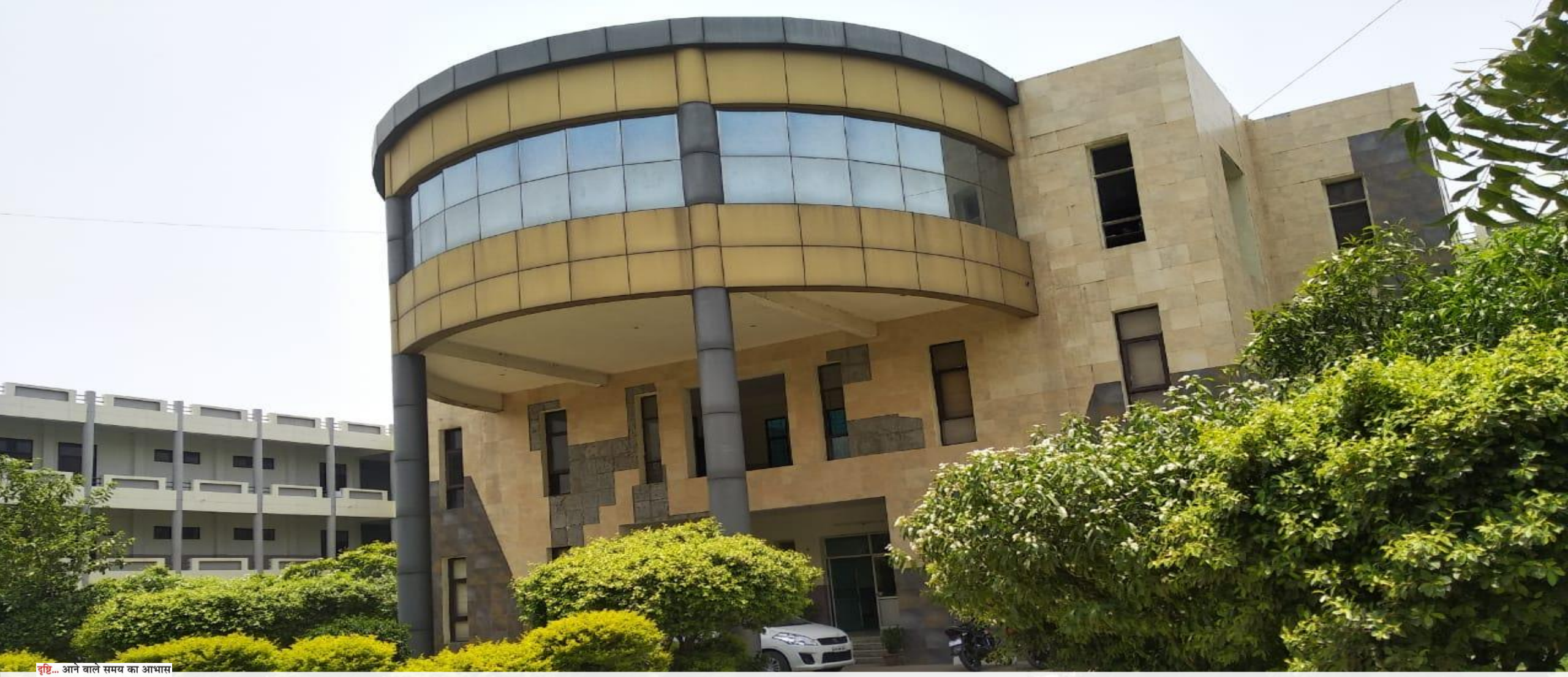
VIT offers B.Tech Program in the following Emerging Areas. which fall under Computer Science & Engineering:

- **B.Tech Computer Science & Engineering**
- **B.Tech (Artificial Intelligence & Machine Learning)**
- **B.Tech (Data Science)**

B.Tech Programs at VIT

B.Tech in CS & Emerging Tech	B.Tech in other Core Branches
• B.Tech Computer Science & Engineering • B.Tech (Artificial Intelligence & Machine Learning) • B.Tech (Data Science)	• Agriculture Engineering, • Civil Engineering, • Electrical & Electronics Engineering, & • Mechanical Engineering

Vision... the shape of things to come



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