B.TECH
COMPUTER SCIENCE & ENGINEERING

Vision Group of Institutions

B.Tech Diploma BBA BCA BSc.(AG)

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दृष्टि... आने वाले समय का आभास

Vision... the shape of things to come

Aligarh Campus: Shahpur, Madrak, Aligarh-Agra Highway, Aligarh

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.
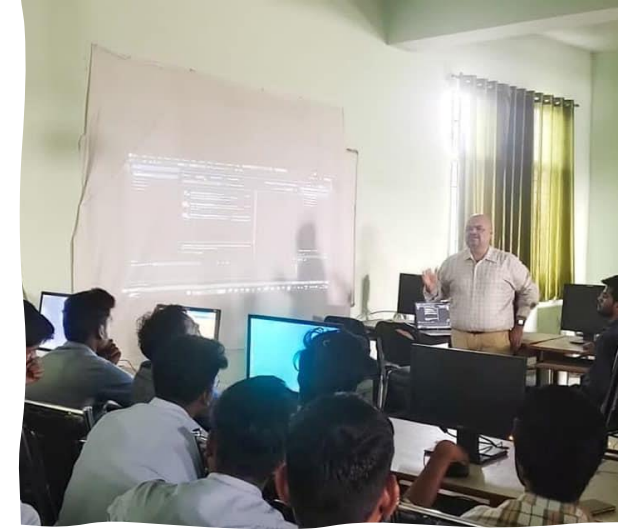
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presents

Application Programming Interface (API)

Apps'- from Monolithic to
rvices

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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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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.

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.

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. Tech related to Computer Science will remain the foremost job providers.

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. Further details...
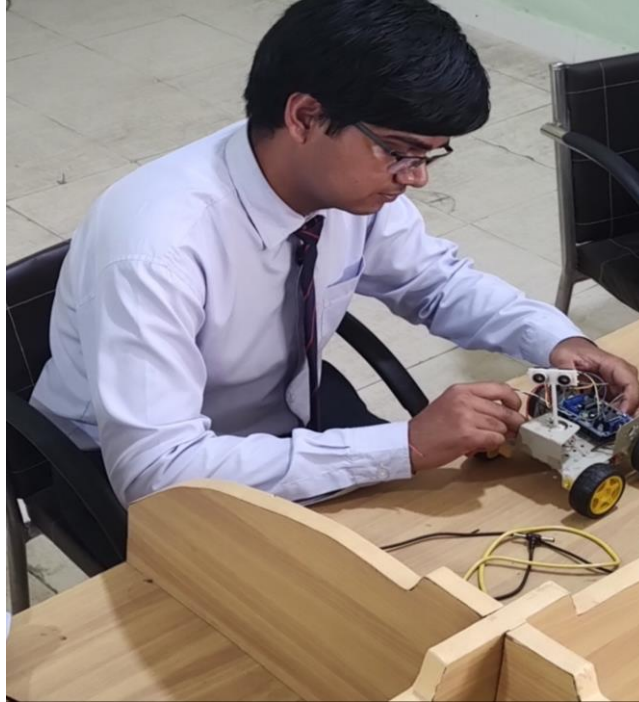
Research Opportunities

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.

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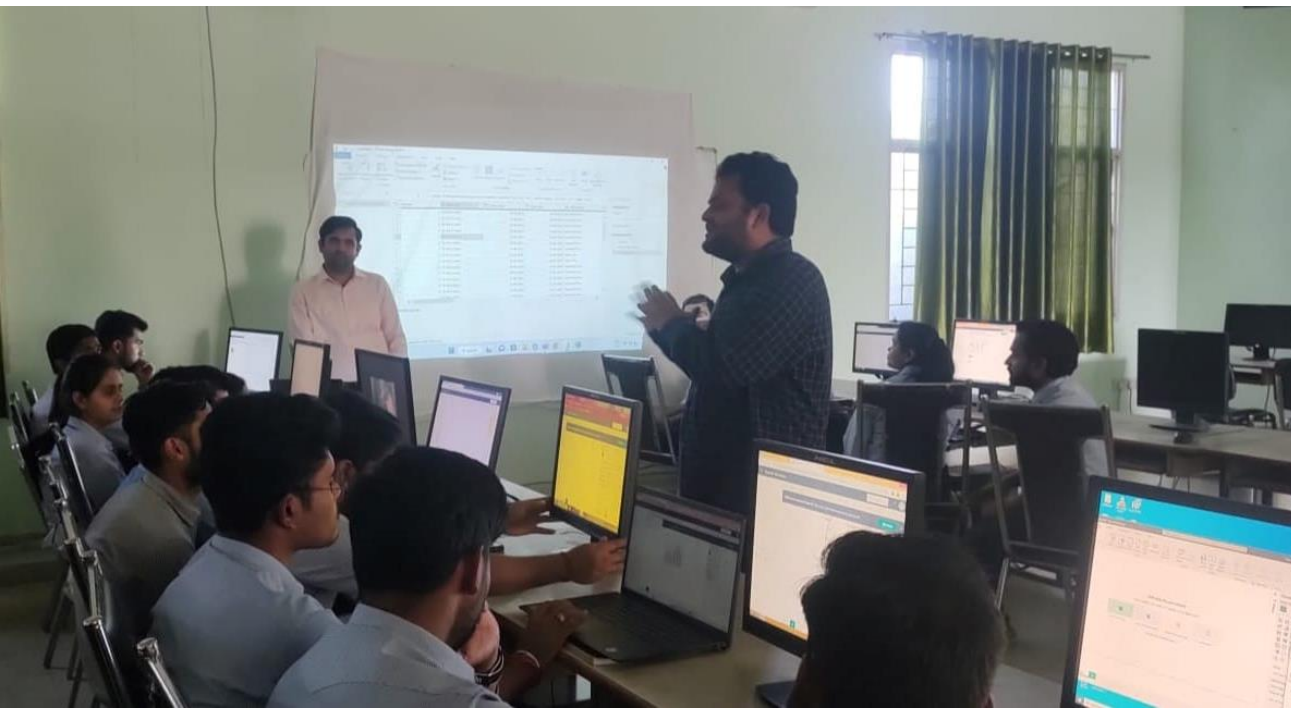
Certification Programs

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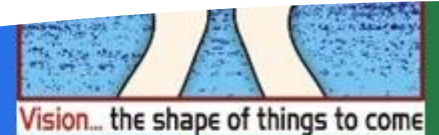
These programs provide our students with valuable exposure and practical skills in cutting-edge technologies, equipping them for success in the dynamic professional landscape.

Few programs conducted in the Academic session 2022-23 were:
- **Microsoft Azure Certification Series (ACS)**
- **State of App- from Monolithic to Microservices**
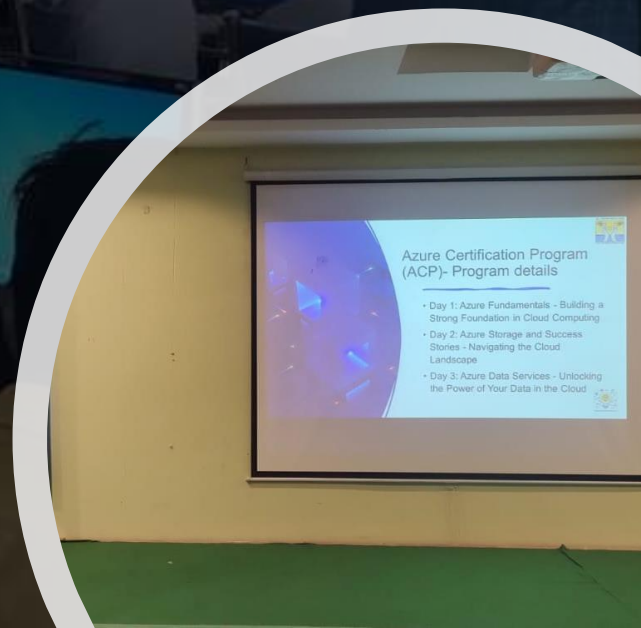- **Power Platforms: Low Code App Development**

Few glimpses from our Certification Programs

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

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- ...ud Success Stories
- ...roduction to Azure ...rage
- ...nds-on lab session- ...re 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

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.

Azure Virtual Machines

Tech covered under
Azure Certification Program

Building the future @
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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 dat...
Solve	Solve real-w...

Introduction to low-code Development, Power Platform suite, Your 1st flow using Power Automate

Microsoft Power Platform

Power BI — Business analytics
Power Apps — App development
Power Automate — Process automation
Power Virtual Agents — Intelligent virtual agents
Power Pages — External facing websites

Data connectors   AI Builder   Dataverse

Day 1: Power Platform Developer Certification

Low Code + Azure   Empowered Devs

Let's Make Some Connections
Power BI; data-driven future
OpenAI & Power Platform
Zero to Hero! Develop Apps

Center for Innovation & Research

Vision Group of Institutions | **Power Platform Developer Certification**

Hands on Labs

Power Platform Developer Certification

The lab work in the Power Platform Developer Certification program reinforces concepts covered in each session.

Participants will engage in hands-on activities throughout the program to gain practical experience using the Microsoft Power Platform.

Participants will learn to create Flows using Power Automate, customize Canvas Apps, build Power BI reports and dashboards, and more.

The lab work is designed to equip participants with the necessary skills to develop solutions using the Power Platform that can solve real-world business problems.

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Power BI; da...
OpenAI & P...
Zero to Hero

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**Power Platform De...
Certification**

The low code plat...

Power BI
Business analytics

Microsoft Power Platform

Low Code Developer Stories
Power BI- Data Sources, Visualization and Interaction
Data modeling in Power BI

Day 3: Power Platform Developer Certification

Power Automate — Process automation
Power Virtual Agents — Intelligent virtual agents
Power Apps — Application development
Power BI — Business analytics

Power Platform Developer Certification | **Vision Group of Institutions**
B.Tech Diploma ITI MBA BBA BCA

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 — 750+ Placements in Reputed Companies
- Hobby Clubs
- Projects & Lab Work
- Hostel Life @ VIT
- Guest Lectures & Workshops
- Innovation & Research Centre
- Entrepreneurship & Start-up Cell
- Alumni Success Stories
- Academics
- Centre for Character and Leadership Development (CCLD)

ALIGARH CAMPUS: SHAHPUR MADRAK, ON ALIGARH-AGRA HIGHWAY, APPROX 10KM FROM SASNI GATE, ALIGARH
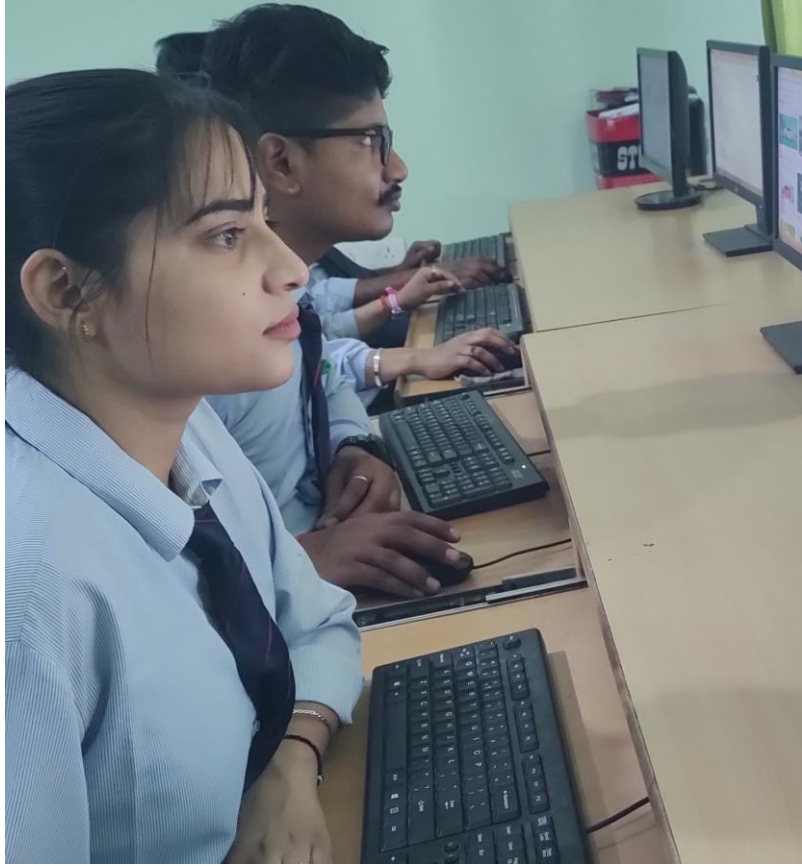
Life @ Vision

**Building the future @
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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
- Electronics & Communication 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, • Electronics & Communication Engineering, & • Mechanical Engineering

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