Bachelor in Computer Application

BCA

दृष्टि... आने वाले समय का आभास

Vision... the shape of things to come

Vision Group of Institutions

B.Tech. Diploma BBA BCA BSc.(Ag)

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

Vision Institute of Science & Management

BBA **BCA** **B.Sc. (AG)**

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

Program Overview

The Bachelor of Computer Application (BCA) program offered by Vision Institute of Science and Management (VISM), affiliated with Raja Mahendra Pratap Singh State University Aligarh, provides a strong foundation in computer science and applications. The program covers a wide range of topics, including programming languages, data structures, algorithms, computer networks, and machine learning techniques. It also includes practical training in computer technologies and AI and machine learning tools.

On completion of the program, students receive a specialized BCA degree recognized worldwide by leading employers and academic institutions for its excellence in computer science and applications.

Program Highlights

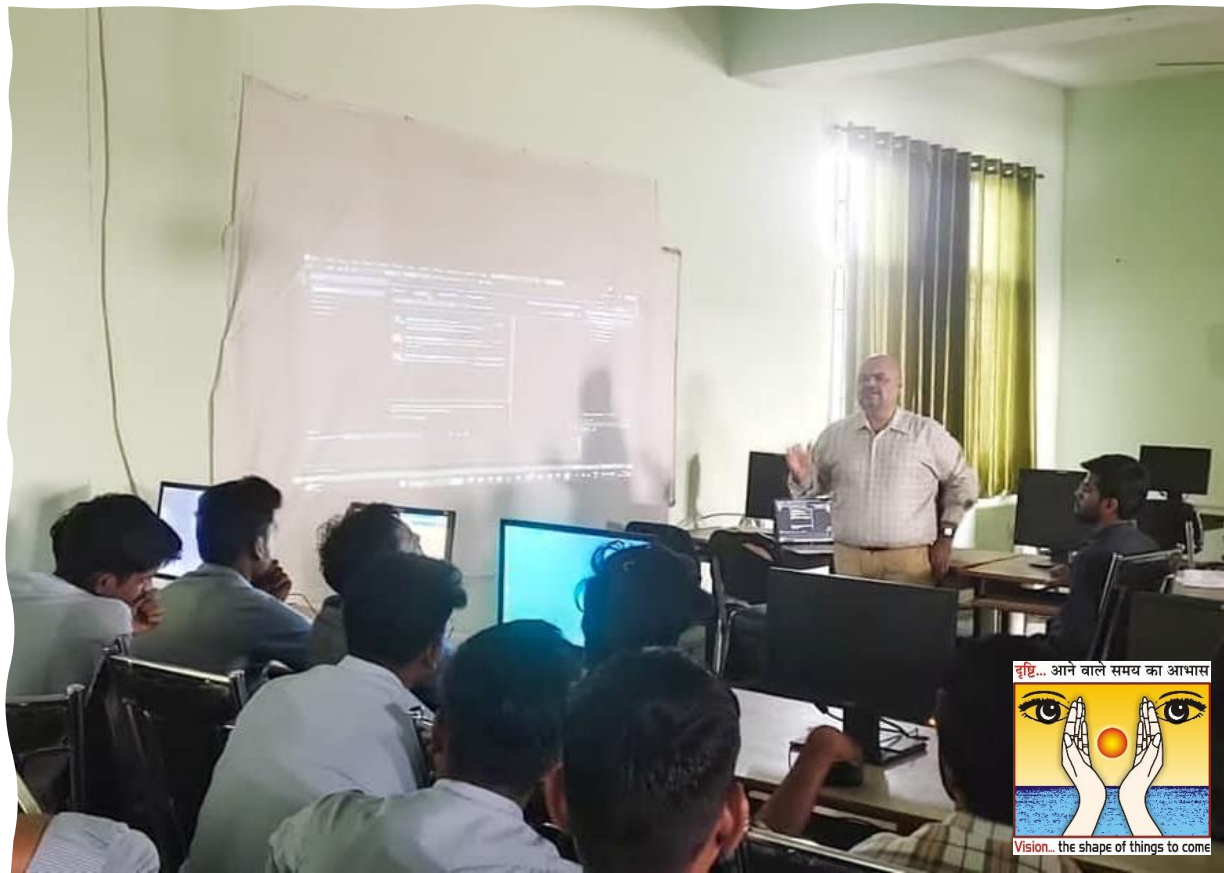
VISM's BCA program offers a comprehensive understanding of computer applications and their practical implementation. Students gain knowledge in programming languages, data structures, algorithms, computer networks, and machine learning. The program focuses on practical learning and provides hands-on training in computer technologies, AI, and machine learning tools. Graduates are prepared for successful careers in industries like IT, software development, finance, and e-commerce.

The specialized BCA degree is globally recognized for excellence in computer applications, opening doors to diverse opportunities.

What is BCA about?

At VISM, our Bachelor of Computer Application (BCA) program is all about providing students with a strong foundation in computer applications principles and practices. From programming languages and data structures to algorithms and computer networks, students gain comprehensive knowledge in various aspects of computer applications. But it doesn't stop there. Our curriculum goes beyond theory by emphasizing real-world applications and practical skills. We focus on developing leadership, communication, and critical thinking abilities to ensure our graduates are well-rounded professionals ready to excel in the ever-evolving field of computer applications.

BCA program will unlock your potential and take you on a rewarding journey in the world of technology.



Why study BCA at VISM?

Our program offers a multitude of advantages, including the opportunity to pursue certification courses in cutting-edge technologies like Azure, Power Platform, and State of App. You'll be at the forefront of the latest advancements in Cloud, AI, and Big Data. Our comprehensive curriculum covers all aspects of computer applications and information technology, ensuring you develop a well-rounded skill set. With faculty members who bring extensive industry experience, you'll gain valuable real-world insights. Connect with industry professionals through guest lectures and networking events. Gain practical experience through internships and projects. Enjoy state-of-the-art facilities, including well-equipped computer labs and a resourceful library.

At VISM, we provide the perfect platform to launch your successful career in the dynamic field of computer applications.

Further details about BCA Program

- **Eligibility**

Eligibility is as per the university guidelines.

- **Curriculum**

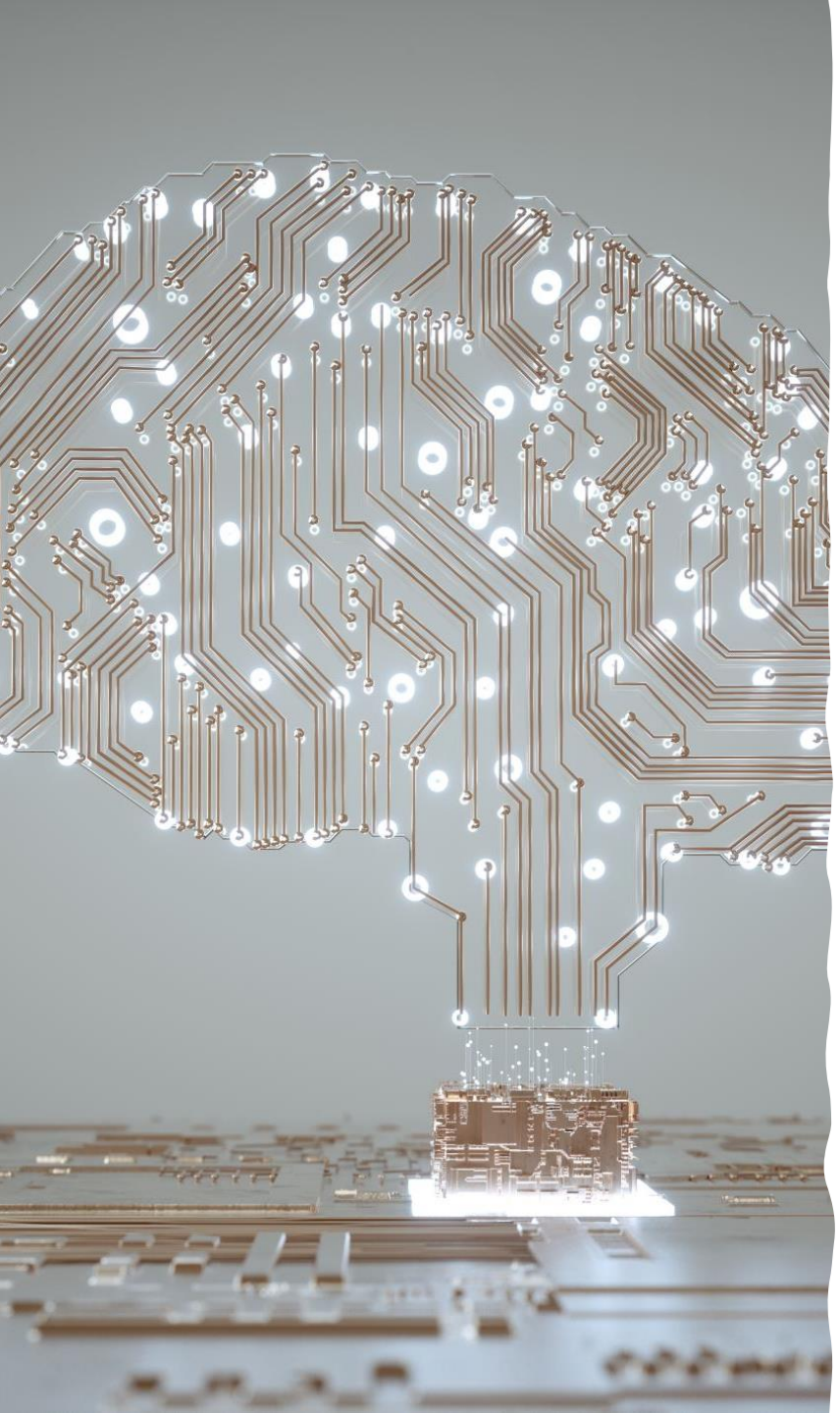
The BCA program at VISM offers a comprehensive curriculum in computer applications, covering topics such as programming, data structures, web development, and more. Practical training through projects and internships allows students to apply their knowledge to real-world scenarios. Soft skills like communication and critical thinking are also emphasized. With a focus on emerging technologies, the program prepares students for successful careers in computer applications.

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 BCA program at VISM, job prospects are abundant for graduates. They are highly sought after in industries like software development, web design, network administration, cybersecurity, database management, and digital marketing. Leading IT companies such as IBM, Microsoft, TCS, Infosys, and Wipro actively recruit BCA graduates. Additionally, BCA graduates can pursue advanced studies in computer science or opt for entrepreneurship.

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



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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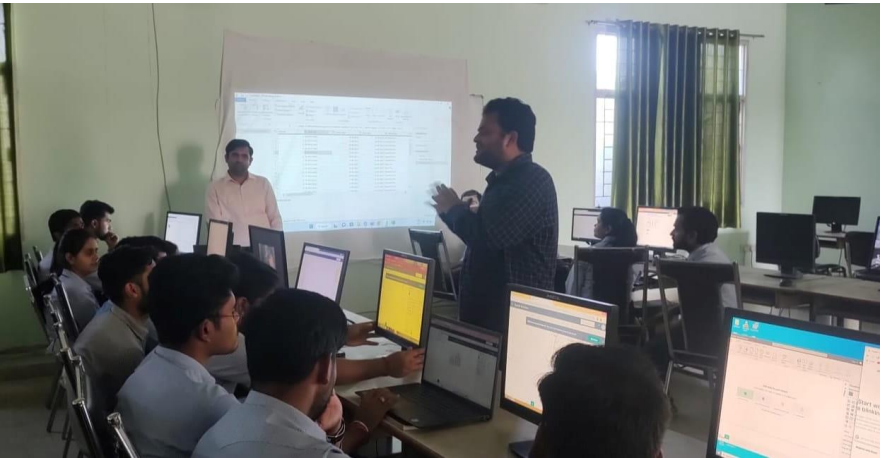

Research

At Vision Group of Institutions, we promote a research-oriented culture, offering abundant research opportunities for BCA graduates. The BCA program encourages students to participate in research projects under experienced faculty members and publish their findings in prestigious journals and conferences. Faculty members are actively involved in cutting-edge research areas like artificial intelligence, machine learning, computer networks, security, and software engineering. Students can collaborate with faculty, gain practical experience, and explore advanced research methodologies.

Research internships with leading companies provide real-world exposure. Regular seminars and workshops featuring experts keep students updated. Engaging in research at Vision nurtures essential research skills, preparing students for further studies or careers in research and innovation.

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
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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

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

Building the future @
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Serverless Event-driven Cloud Functions

Building the future @

Vision Group of Institutions

ontainers- the
ture of App
eployment

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presents

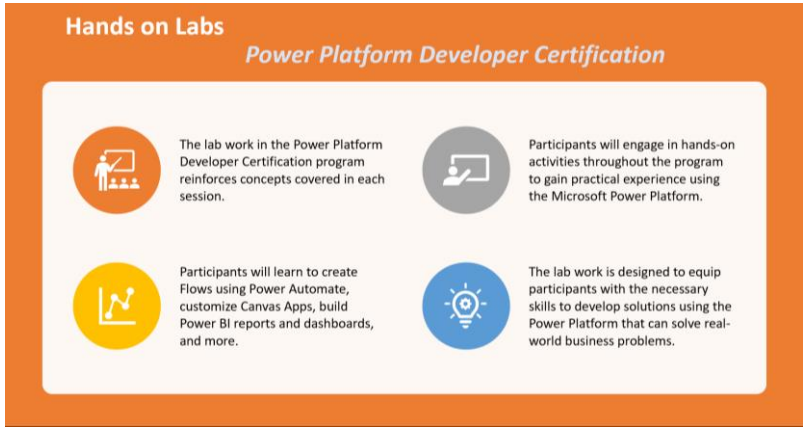
Application Programming Interface (API)

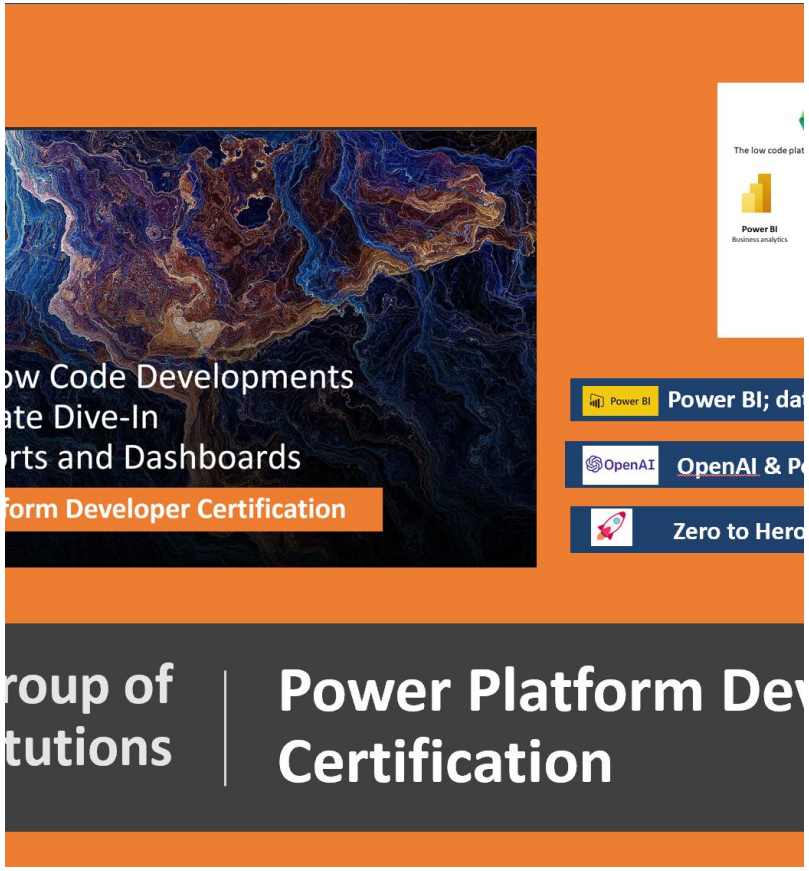
Tech covered under ‘State of App’ Certification Program

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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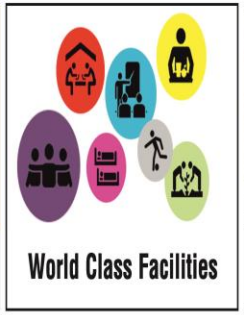
Advantages @ Vision

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

Advantages @ Vision Group of Institutions

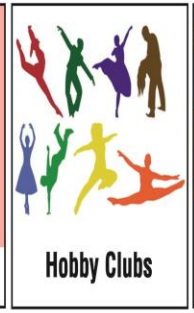
Vision Group of Institutions offers number of unique advantages including academics, student development programs, placement & results, and facilities. From Advance Labs, Centre of Excellences, to numerous Student Activities; let college leave a lifelong cherished memory.

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

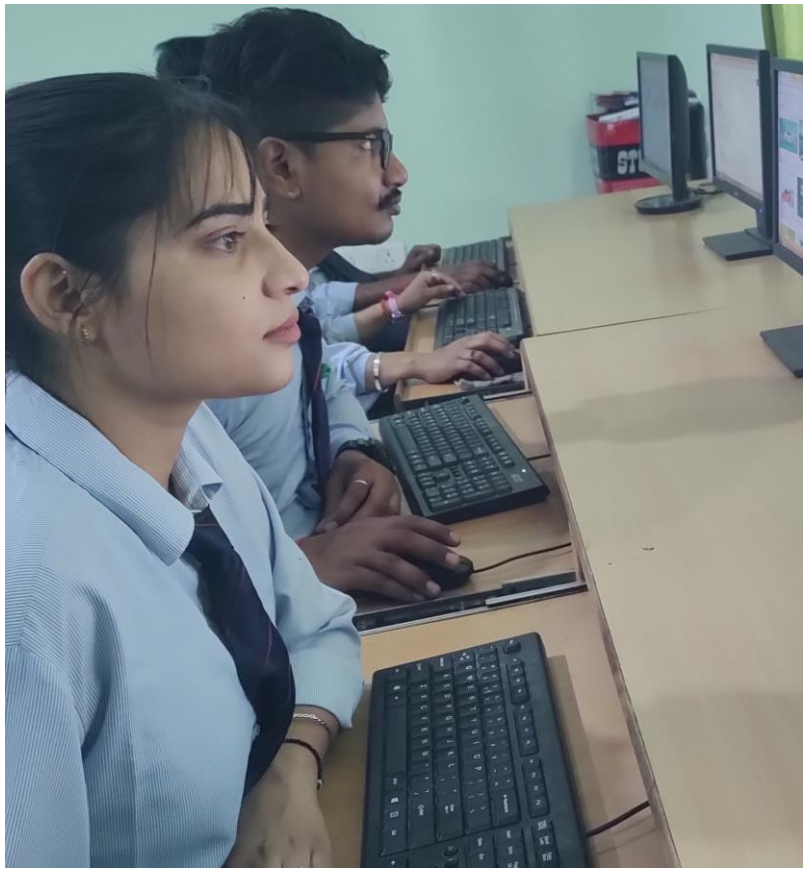
Innovation & Research Centre

Entrepreneurship & Start-up Cell

Alumni Success Stories

Academics

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



Life @ Vision

Building the future @
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Management & Science Programs @ Vision

Vision Institute of Science & Management (VISM) is running Bachelor of Business Administration (BBA) Program, an under-graduate program suitable for inculcating managerial skills. The highly job oriented course caters to future managers and entrepreneurs.

BBA | **BCA** | **B.Sc. (Ag)**

VISM is also running Bachelor of Computer Application (BCA) Program, an under-graduate program program suitable for software developers and programmers.

From the academic Session 2023-24, VISM has started Bachelor of Science in Agriculture (B.Sc. Ag) Program. B.Sc (Ag) is an under-graduate Degree Program with huge potential in both Public as well as Private Sector.

All the programs are affiliated to Raja Mahendra Pratap Singh State University, Aligarh.

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