



DEPARTMENT OF
COMPUTER SCIENCE &
APPLICATIONS (MCA)

JAN - JUNE 2026



2026
EDITION

NEXT GEN

— S P E C T R U M —



ARISE
—
AWAKE
—
ACHIEVE

INNOVATE | INSPIRE | IMPACT



ARISE AWAKE ACHIEVE

Welcome to NEXTGEN SPECTRUM

2026 EDITION

NextGen Spectrum is a celebration of ideas, innovation, achievements and experiences that shape our vibrant campus community.

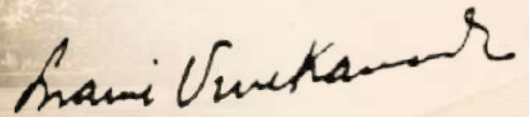
Through this magazine, we aim to inform, inspire and ignite the spirit of curiosity, creativity and commitment in every reader.

Let's continue to Arise, Awake and Achieve—together.



“
Arise, Awake and
Stop Not Till the
Goal is Reached.
”

— Swami Vivekananda



WHAT'S INSIDE

01

About
The University



Discover our legacy, values and vision.

02

Achievements



Celebrating the milestones of our faculty and students.

03

Events & Activities



Relive the moments that brought us together.

04

Learning & Insights



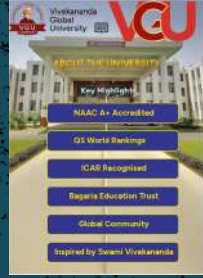
Knowledge, expert talks and career guidance.

05

Beyond Classroom



Exploring creativity, culture and fun.



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**Vivekananda
Global
University**



Excellence. Innovation. Values.



ABOUT THE UNIVERSITY



VIVEKANANDA GLOBAL
UNIVERSITY, JAIPUR

KEY HIGHLIGHTS



**NAAC A+
ACCREDITED**

Accredited with the highest grade for academic excellence and quality education.



**QS WORLD
RANKINGS**

Recognized globally for its outstanding teaching, research and employability.



**ICAR
RECOGNISED**

Programs recognized by ICAR for excellence in agriculture and allied education.



**INSPIRED BY
SWAMI VIVEKANANDA**

Guided by timeless values and the vision of holistic human development.



**GLOBAL
COMMUNITY**

A diverse and inclusive community shaping leaders for a better world.



LEARN • INNOVATE • TRANSFORM

1

OUR VISION

To become a centre of excellence in computer applications education, research, and innovation, nurturing employable professionals who contribute to human advancement through technology and ethical practices.



2

OUR MISSION

- Provide holistic education in computer applications through knowledge sharing, skill development, research, and entrepreneurial initiatives.
- Integrate academic learning with industry collaborations to develop solutions that support national growth and global competitiveness.
- Mentor students in technical, analytical, ethical, and professional attributes, fostering their physical, mental, emotional, and spiritual development to become valued human resources.
- Promote innovation and lifelong learning by encouraging students to explore emerging technologies, interdisciplinary domains, and sustainable digital practices.



DEPARTMENT OF

COMPUTER SCIENCE & APPLICATIONS

MCA

ARISE AWAKE ACHIEVE!

*Your Vision.
Our Expertise.*

Program Educational Objectives (PEOs)

01



PEO

Graduates will demonstrate strong foundations in computer applications, software development, and emerging technologies, enabling them to excel in industry, academia, and research.

02



PEO

Graduates will engage in research, innovation, and problem-solving, contributing to the development of sustainable, technology-driven solutions for societal and industrial advancement.

03



PEO

Graduates will acquire practical skills through internships, projects, and industry collaborations, preparing them for high employability, entrepreneurial ventures, and leadership roles.

04



PEO

Graduates will uphold ethical values, practice responsible computing, and contribute positively to society by leveraging technology for inclusive and sustainable growth.

05



PEO

Graduates will embrace continuous upskilling, interdisciplinary learning, and adaptability to remain relevant in dynamic global environments and evolving digital ecosystems.





FROM THE DESK OF DEAN



“ It is a matter of great pride and pleasure to present this edition of the Department of Computer Science & Applications Magazine. This publication reflects the enthusiasm, innovation, and dedication of our students and faculty, showcasing the remarkable journey of learning, creativity, and achievement throughout the year.

In an era driven by technology, our goal is not only to impart quality education but also to nurture curiosity, innovation, and ethical values. I am delighted to witness our students excelling in academics, research, technical events, and co-curricular activities, preparing themselves to become responsible professionals and future leaders.

I sincerely appreciate the editorial team, faculty members, and every contributor whose collective efforts have made this magazine possible. I hope this edition inspires our readers to continue learning, exploring new opportunities, and striving for excellence.

Best Wishes,

Prof. (Dr.) Surendra Yadav, Dean
Department of Computer Science & Applications
Vivekananda Global University, Jaipur

”



FROM THE DESK OF

HOD



“

It is my privilege to present this edition of the Department of Computer Science & Applications Magazine. This magazine reflects the hard work, creativity, and achievements of our students and faculty, celebrating another year of learning and innovation.

At our department, we believe that education goes beyond the classroom. Through technical events, research, projects, workshops, and collaborative activities, we encourage our students to develop the skills, confidence, and values needed to excel in a rapidly evolving world.

I extend my sincere appreciation to the editorial team, faculty members, and all the students who have contributed to this publication. Their dedication and enthusiasm have made this magazine a meaningful record of our department's journey.

I hope this edition inspires every reader to continue learning, innovating, and striving for excellence. I wish all our students great success in their future endeavors.

Best Wishes,

Dr. Rakesh Sharma
Head of the Department
Department of Computer Science & Applications
Vivekananda Global University, Jaipur

”

FACULTY ACHIEVEMENTS!



SHODH PRAYAS
2026



Grants Received From R&D Cell

STUDENT ACHIEVEMENTS!



SHODH PRAYAS 2026



Grants Received From R&D Cell

CONVOCATION 2026

CELEBRATING ACHIEVEMENTS, INSPIRING FUTURES



A DAY OF PRIDE AND POSSIBILITIES

Convocation 2026 was a momentous occasion that honored the dedication, perseverance, and success of our graduates. The ceremony marked the culmination of years of learning, growth, and unwavering commitment.

It was a celebration of not just achievements, but also the beginning of new journeys filled with opportunities, responsibilities, and the promise of a brighter future.



EMPOWERING MINDS, ENRICHING SOCIETY

At VGU, we believe in creating professionals who are not only skilled in their fields but also compassionate leaders and responsible citizens.

Our graduates are now equipped to make meaningful contributions to society and drive positive change in the world.

“The future belongs to those who believe in the beauty of their dreams.”

— Eleanor Roosevelt



Vivekanda Global University



Inside Campus Life

The VGU campus came alive with music and excitement as celebrated singer, composer, and music director Amaal Mallik delivered a spectacular live performance. His soulful voice, chart-topping songs, and energetic stage presence captivated the audience, while students enthusiastically sang along and enjoyed every moment. The evening was a perfect celebration of music, talent, and togetherness, making it one of the most memorable highlights of campus life. The evening brought students together, making it one of the most memorable highlights of campus life.





VGU

VIVEKANANDA
GLOBAL
UNIVERSITY
JAIPUR

Presents

MEHFIL-E *Panache*

A CELEBRATION OF MUSIC, CULTURE & CONNECTION

VGU once again turned moments into memories with an unforgettable evening of **rhythm, energy and raw talent.**

Mehfil-e-Panache brought together soulful voices, powerful performances, and a vibrant crowd that sang, swayed and celebrated as one.



BSTRING *BAND*

LIVE. LOUD. LIMITLESS.



The stage came alive with the electrifying performance by BString Band. Their music, energy and the unmatched connection with the audience made the night truly magical.



ONE STAGE. ONE CROWD. ONE VIBE. **UNFORGETTABLE NIGHT.**



#VGUPanacheMoments



Glimpses of VGU's Grand Events





DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS



OUR INSTITUTION PARTNERSHIP

Cybergyan

Connecting Dreams foundation

EduNet Foundation

Hackveda Solutions Private Limited

SpiderLink



GLOBAL CERTIFICATIONS

EXIN
1400+

coursera
1900+

Red Hat
800+

aws
500+

in Learning
500+

OUR DPIIT REGISTERED STARTUPS



VGU NEXTGEN CLUBS



IMPACT NEXUS CLUB
EMPOWERING IDEAS | CREATING IMPACT



AlumConnect Club
CONNECT | COLLABORATE | GROW



NEXTECH RESEARCHING CLUB
INNOVATE | RESEARCH | INSPIRE



STUDENT AMBASSADOR CLUB
— LEAD | REPRESENT | INSPIRE —



DEPARTMENT OF
COMPUTER SCIENCE &
APPLICATIONS

OUR INSTITUTION PARTNERSHIP

VGU



Red Hat Academy

LEARN. CERTIFY. SUCCEED.



Red Hat is a leading open-source software company known for Red Hat Enterprise Linux (**RHEL**), one of the most widely used Linux distributions. Since becoming part of IBM in 2019, Red Hat has continued to deliver enterprise-grade open-source solutions while maintaining its commitment to innovation.

We offer **RHCSA** (Red Hat Certified System Administrator) and **RHCE** (Red Hat Certified Engineer) training and certification programs. These courses cover Linux administration, storage and user management, networking, security, shell scripting, containers, and automation using Red Hat **Ansible**, preparing learners for industry-recognized certifications and real-world system administration roles.

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

DEPARTMENTAL EVENT

ARISE AWAKE ACHIEVE

*Your Vision.
Our Expertise.*



Kit Distribution

Prathma Software Company-
Industrial Visit



Orientation ceremony



Certificate Distribution



Industrial Visit R-CAT

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS



*Your Vision.
Our Expertise.*

UNIVERSITY EVENT



TUG OF WAR

Time: 04:30 PM – 05:30 PM
Venue: Sports Ground

The day concluded with the energetic Tug of War competition. A total of 14 teams competed with immense strength, teamwork, and determination.

The exciting contest drew large crowds who passionately supported their teams, creating an electrifying atmosphere.



SPORTS EVENT 2026



PANACHE 2026



Every celebration, competition, and gathering added a new chapter to our journey. These moments were not merely occasions—they became opportunities to learn, lead, collaborate, and create memories that will remain with us long after graduation. Together, we celebrated achievements, embraced challenges, and strengthened the bond that makes our department truly exceptional.

LEARN WITH EXPERTS



Mr. Rich David,
Euonus IT
Pvt. Limited

Cloud Architecture, Services & Storage

An expert talk on Cloud Architecture, Services & Storage was conducted by Mr. Rich David from Euonus IT Pvt. Limited for MCA 3rd semester students. The session provided valuable insights into modern cloud computing concepts, architectures, services, and storage solutions. It combined theoretical explanations with practical demonstrations, helping students understand real-world cloud applications and industry practices.

Date: 26th February 2026

Working with JavaScript

An Workshop on Working with JavaScript was conducted for MCA 1st semester students on 22th and 24th February 2026. The sessions were delivered by Mr. Krishna Soni from Metadologie Pvt. Limited, providing students with comprehensive knowledge of JavaScript fundamentals and practical programming concepts. The expert emphasized hands-on understanding of scripting, client-side programming, and web development practices, helping students connect theoretical concepts with real-world applications.

Date: 24th February 2026



Mr. Krishna Soni,
Metadologie
Pvt. Limited



Mr. Hitesh Kashyap
from
Navrasa IT
Solutions

Natural Language Processing

An expert talk on Natural Language Processing (NLP) was conducted for MCA students on 24th February 2026. The session was delivered by Mr. Hitesh Kashyap from Navrasa IT Solutions, providing students with both theoretical understanding and practical skills in NLP. The talk emphasized hands-on learning, showcasing real-world applications such as social media monitoring tools, chatbots, and event-driven assistant bots.

Date: 24th February 2026

Arrays & Functions

An expert talk on Arrays & Functions was conducted for MCA students on 24th February 2026. The session was delivered by Mr. Sanjay Lashkar from Euonus IT Pvt. Limited, providing students with a thorough understanding of arrays, strings, and functions in programming. The talk combined theoretical explanations with practical examples, helping students strengthen their programming skills and problem-solving abilities.

Date: 24th February 2026



Mr. Krishna Soni,
Metadologie
Pvt. Limited



Vijay Shevkani,
Assistant
Project
Manager,
Red Hat

Power Shell Scripting

An expert workshop on PowerShell Scripting was conducted for MCA students on 26th February 2026. The session was delivered by Vijay Shevkani, Assistant Project Manager from Red Hat, providing students with comprehensive knowledge of PowerShell fundamentals, scripting, and automation techniques. The workshop emphasized hands-on practice, allowing students to gain practical experience in managing systems and automating tasks using PowerShell.

Date: 26th February 2026

Relational Database Design

An expert talk on Relational Database Design was conducted for MCA students on 24th February 2026. The session was delivered by Mr. Ashok Choudhary from Euonus IT Pvt. Limited, providing students with in-depth knowledge of database design concepts, normalization techniques, and advanced relational database features. The talk combined theoretical explanations with practical insights, helping students understand both conceptual and implementation aspects of relational databases.

Date: 24th February 2026



Mr. Ashok Choudhary,
Euonus IT
Pvt. Limited

VISIONARY INSIGHTS

Leadership in Action: A Journey of Excellence

This special feature highlights the inspiring leadership and unwavering commitment of Prof. (Dr.) Manish Shrivastava, Computer Science and Applications. Through a vision centered on academic excellence, innovation, and student success, he continues to inspire the entire academic community.

1. Vision Beyond Classrooms

Education is more than earning a degree—it is about developing knowledge, values, leadership, and the confidence to create meaningful change in society. A strong educational foundation empowers students to think critically, embrace innovation, and prepare themselves to become responsible professionals and future leaders.

2. Inspiring Through Leadership

With dedication, integrity, and a student-first approach, continuous learning, innovation, and collaboration remain at the heart of every initiative.



"True leadership is not about authority; it is about inspiring others to achieve their highest potential."

Prof. (Dr.) Manish Shrivastava

3. First Victory: Momentum of Success

By encouraging critical thinking, research, and practical learning, students are empowered to become responsible professionals who contribute positively to society.

Beyond academic excellence, his vision continues to inspire students and faculty alike. Through mentorship, innovation, and a commitment to quality education, he encourages every learner to grow with confidence, integrity, and a lifelong passion for learning.

Empowering Minds • Inspiring Innovation • Shaping the Future

Guiding the Future



Dr. Sunita Choudhary (Prof.)

As technology becomes an essential part of everyday life, protecting digital systems has never been more important. Cybersecurity is not just about defending computers from attacks—it is about safeguarding information, ensuring privacy, and building trust in the digital world.

From ethical hacking and network security to data protection and cyber awareness, this field empowers students to identify vulnerabilities and develop secure solutions. With cyber threats evolving every day, skilled cybersecurity professionals play a vital role in creating a safer and more resilient digital future.



Ms. Dipti Joshi (Asst. Prof.)

Artificial Intelligence is transforming the way we learn, work, and solve real-world problems. By enabling machines to analyze data, recognize patterns, and make intelligent decisions, AI is driving innovation across healthcare, education, finance, and countless other industries.

Through machine learning, automation, and smart technologies, students gain the ability to design intelligent applications that improve efficiency and enhance human experiences. As AI continues to reshape the future, it opens endless opportunities for creativity, research, and technological advancement.

Code the Future • Secure the World • Lead with Innovation

Ethics & Leadership

Inspiring People, Creating Impact

Leadership is often misunderstood as a position of authority, but in reality, it is a responsibility to inspire, guide, and empower others. A true leader is not defined by the title they hold, but by the positive influence they create in the lives of people around them.

In today's rapidly evolving technological world, leadership is no longer about giving directions—it is about building trust, encouraging innovation, and creating opportunities where everyone can learn and grow. Great leaders listen before they speak, support before they expect, and lead by example rather than by instruction.

For students, leadership begins much earlier than they realize. It starts with taking responsibility for one's actions, respecting diverse perspectives, collaborating effectively with peers, and maintaining integrity in every task. Whether leading a project, participating in technical events, or contributing to community initiatives, every experience helps shape the qualities of a future leader.

As educators, our mission extends beyond imparting academic knowledge. We strive to create an environment where curiosity is encouraged, creativity is celebrated, and leadership develops naturally through learning, collaboration, and real-world experiences.



Dr. Rakesh Sharma

Head of Department
Computer Science and Applications

We believe that technical knowledge alone is not enough. The leaders of tomorrow must possess strong communication skills, ethical values, critical thinking, adaptability, and the confidence to face new challenges. These qualities empower individuals to transform ideas into meaningful solutions and inspire others to make a positive impact.

Remember, leadership is not about standing ahead of the crowd; it is about walking alongside others and helping them discover their own potential. The world needs leaders who are compassionate, visionary, and committed to making a positive difference.

May each one of you embrace the courage to lead with wisdom, humility, and purpose, contributing not only to your own success but also to the progress of society.

Proceedings of the International Conference on Advances in Computing Technology and Artificial Intelligence (COMPUTATIA 2026)

📍 Jaipur, India

📅 23-24 March 2026



HOME



PREFACE



ARTICLES



AUTHORS



ORGANIZERS



PEER REVIEW &
PUBLICATION ETHICS



PUBLISHING
INFORMATION



PREVIOUS VOLUME
IN SERIES

Welcome

Welcome to the Proceedings of the International Conference Advances in Computing Technology and Artificial Intelligence (COMPUTATIA 2026).

Computatia 2026 is the 2nd comprehensive computing technology conference dealing with all aspects of computing.

It is a leading international opportunity for computing technology and AI researchers, professionals and users to investigate innovative ideas and outcomes, and to exchange experiences on various aspects of computing and AI.

The conference aimed to bring together researchers, academicians, industry practitioners, and policymakers to exchange knowledge and foster discussions on the latest advances in computing technology and artificial intelligence.

It seeks to provide a platform for presenting cutting-edge research, exploring innovative applications, and addressing challenges in the design, development, and deployment of intelligent computing systems.

It will bridge the gap between theoretical advancements and real-world implementations that shape the future of digital innovation.

Novel research in all practical areas of computing technology and AI is sought that advance the theory, practice, and application of computing technology and AI.



<https://www.atlantispress.com/proceedings/computatia-26>

Meet Our **Experts**



Mr. Zahid Ahmed

Linux

Expert in Linux administration and shell scripting. Builds practical command-line and server management skills.



Mr. Katib Showkat Zarger

Blockchain

Expertise in blockchain and smart contracts. Introduces secure and decentralized technologies.



Mr. Ajay Kumar

Cybersecurity

Focuses on cyber defense and secure computing. Develops skills in ethical hacking and digital protection.



Ms. Savita Prabha

Artificial Intelligence

Explores intelligent systems and machine learning. Builds smart applications using AI-driven technologies.

MANALI

TRIP 2026



Kasol, Himachal Pradesh, India
276r+3f2, Kasol, Himachal Pradesh 175105, India



Jaipur, Rajasthan, India
36, Nri Colony Rd, Sector-22, Nri Colony, Jagatpura, Jaipur, Rajasthan 302017, India
Lat 26.813215° Long 75.891758°
Saturday, 02/05/2026 02:35 PM GMT +05:30

WANDERLUST

Manali is not just a destination, it's an experience that stays with you forever. Surrounded by majestic mountains, serene rivers, and lush greenery, our educational trip was a perfect blend of learning, adventure, and bonding.



EXPLORE

From thrilling river rafting in the Beas to exploring the local culture and scenic beauty, every moment was a new discovery. We visited iconic places, interacted with locals, and witnessed nature in its purest form.



Manali, Himachal Pradesh
Regency Road, Siyal Rd, Siyal, Manali, 175131, India
Lat 32.246829° Long 77.180536°
Sunday, 03/05/2026 03:24 PM GMT +05:30

TRAVEL

This journey not only expanded our knowledge beyond classrooms but also strengthened our team spirit and created unforgettable memories.



Burwa, Himachal Pradesh, India
946m+v2, Burwa, Himachal Pradesh 175103, India
Lat 32.362095° Long 77.132745°
Monday, 04/05/2026 12:40 PM GMT +05:30

VGU TO MANALI

Our journey began from Delhi and took us through breathtaking landscapes, winding roads, and charming hill towns. Each stop added a new story to our adventure.



“It's not about the destination, it's about the memories we create along the way.”

GRATEFUL HEARTS

We extend our heartfelt thanks to our faculty coordinators and everyone who made this trip safe, smooth, and successful. Until next time, Manali!

16th May - 21st May 2026

Manali, Himachal Pradesh

VGU @ AI SUMMIT 2026

CONNECTING INNOVATION.
COLLABORATING FOR A SMARTER TOMORROW.



DATE

16th FEB – 21st FEB 2026



VENUE

DELHI, INDIA

On the 16th to 21st of February 2026, our university proudly participated in AI SUMMIT 2026 – Asia's leading summit on Artificial Intelligence, held in Delhi. The event brought together industry leaders, innovators, academicians, and students from across the globe to explore cutting-edge AI technologies and their transformative impact on the world.



KEY HIGHLIGHTS OF OUR VISIT



Explored emerging AI technologies and innovations shaping the future.



Engaged with industry experts and gained insights into real-world AI applications.



Discovered opportunities for research, collaboration, and internships.



Understood industry expectations and the skills needed to thrive in the AI era.

AN INSPIRING EXPERIENCE

AI SUMMIT 2026 was more than just an event – it was a learning experience that empowered us to think beyond boundaries. From keynote sessions and panel discussions to live demos and startup showcases, every interaction strengthened our belief in the transformative power of Artificial Intelligence.

“

“The future is not just about using AI, it's about building it responsibly and creatively.”



MOVING FORWARD

We return with new ideas, stronger connections, and a renewed vision to contribute to the AI revolution. This visit motivates us to innovate, collaborate, and create solutions that make a meaningful impact on society.



Career Guidance Session

EMPOWERING MINDS | SHAPING FUTURES



Prof. (Dr.) Surendra Yadav
Dean, Computer Science
and Applications

Career success is built on continuous learning, dedication, and the ability to adapt to an ever-changing world. As students of Computer Science and Applications, focus on strengthening your technical knowledge, developing problem-solving skills, and embracing emerging technologies. Make the most of opportunities such as **internships**, **research**, and **skill development** to prepare for a successful professional journey. Stay curious, uphold **integrity**, and strive for **excellence** in every endeavor. Your commitment to learning today will shape the opportunities of tomorrow.

SESSION HIGHLIGHTS



Explore Career Opportunities



Develop Skills for Future



Guidance for Academic & Professional Growth



Connect, Learn & Grow Together





**VIVEKANANDA
GLOBAL
UNIVERSITY**



EDITORIAL *Board*

THE VOICES BEHIND THE VISION



ADVISORY COMMITTEE

Prof. (Dr.) Surendra Yadav, Dean
Dr. Rakesh Sharma, HOD



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Narayan Vyas (Asst. Prof.)



CO-EDITOR

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Ajay Kumar (Asst. Prof.)



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Nandani Singh, Sec B
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