



# COMPLUS NEWSLETTER

DEPARTMENT OF COMPUTER APPLICATIONS



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**Dr. Arpana Sinhal**  
(Assistant Professor)

**ASSOCIATE EDITOR**



**Dr. Vaibhav Bhatnagar**  
(Associate Professor)

**STUDENT EDITOR**



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BCA



**Mr. Mohit Sharma**  
BCA

**“ Technology is best when it brings people together ”**

## DEPARTMENT OF COMPUTER APPLICATIONS

### About the Department

The Department of Computer Applications & School of CSE-II and Faculty of Science, Technology and architecture at Manipal University Jaipur (MUJ) strives for academic excellence with a cutting-edge curriculum. Since its inception in 2019, the department has reached significant heights, offering high-quality programs at both undergraduate and postgraduate levels. Currently, over 750 students are enrolled with 23 faculty members. The department prepares students to design, develop, and implement software applications, emphasizing the latest programming languages and technologies. It aims to become a center of excellence, providing technical knowledge, innovation opportunities, and state-of-the-art facilities. The flexible curriculum is designed to let students explore their interests and is regularly updated with feedback from stakeholders. This foundation supports students in pursuing higher education in India and abroad.

### Courses Offered

1. Bachelor of Computer Applications (BCA),
2. Specialization (Cybersecurity / Data Science)
3. BCA Honors (Software Product Engineering)
4. Master of Computer Applications (MCA)
5. Ph. D. (FoSTA)
6. MSC (Cyber Security)





## DEPARTMENT OF COMPUTER APPLICATIONS

### *Message from the Head of Computer Applications Department*

I am pleased to express my heartfelt appreciation for the successful release of the Newsletter from the Department of Computer Applications. Your dedication and efforts in showcasing the diverse talents of our students, both academically and creatively, are truly commendable. The Newsletter serves as a reflection of the myriad activities undertaken by our Department, offering a clear picture of our achievements. Moreover, it will play a significant role in nurturing the creative writing skills of our students and faculty members through their technical articles, essays and poetry, thereby enhancing students' reading practices. I am confident that this issue of the Newsletter will positively impact all students and individuals interested in not only Computer Applications and IT but also in arts, literature, sciences and other areas. Your continuous efforts in producing this Newsletter annually deserve immense recognition. I extend my sincere appreciation to the Department of Computer Applications and all faculty members for their wonderful contributions in accomplishing this task. Additionally, I congratulate all the students for their fruitful efforts.



**Dr. Shilpa Sharma Kulkarni**

Associate Professor & Head,  
Department of Computer  
Applications  
Manipal University Jaipur

## DEPARTMENT OF COMPUTER APPLICATIONS

### *newly joined faculty Member*

*As we begin this new semester, we would like to extend a sincere welcome  
to some new faculty members*

We're pleased to welcome **Dr. Virendra Singh** as Assistant Professor in the Department of Computer Applications at Manipal University Jaipur. With a Ph.D. in Information Technology and over five years of academic and research experience, Dr. Singh specializes in Software Security, Requirement Engineering, and Elicitation. His contributions include SCIE and Scopus-indexed publications, book chapters with Springer and IGI Global, two patents, and active involvement in international conferences and journal reviews. We're excited for the depth and innovation he brings to our academic community.



We're thrilled to welcome **Dr. Niyaz Ahmad Wani** to the Department of Computer Applications at Manipal University Jaipur. A distinguished researcher and member of IEEE and ACM, Dr. Wani brings expertise in Explainable AI, Deep Learning, Smart Healthcare Systems, and IoMT. His work has been featured in leading SCIE journals, and we look forward to the innovation and insight he'll bring to our academic community.





## DEPARTMENT OF COMPUTER APPLICATIONS

### 90th Birthday Celebration

**Approx 50 students from the department received scholarships**

Manipal University Jaipur (MUJ) held a momentous celebration to mark the 90th birthday of its Founder Chancellor, Dr. Ramdas M. Pai, by dedicating the occasion as Scholarship Day. The event highlighted the university's core commitment to nurturing merit and rewarding the academic brilliance of its students, paying tribute to the visionary who established MUJ as a hub of learning and innovation in Rajasthan.

The celebrations witnessed enthusiastic participation from university leadership, faculty, and the student body. All came together to express their deep reverence for Dr. Ramdas M. Pai and to reinforce their commitment to upholding his legacy, inspiring students to continue striving for excellence in their academic journeys.





## DEPARTMENT OF COMPUTER APPLICATIONS

### *Dr. Ramdas M. Pai'Awards'25*

Manipal University Jaipur proudly congratulates **Dr. Promod Kumar Soni, Dr. Govind Murari Upadhyay, Dr. Shilpa Kulkarni Sharma, Dr. Vaibhav Bhatnagar, Dr. Devershi Pallavi Bhatt and Dr. Linesh Raja** for receiving prestigious faculty awards in recognition of their outstanding contributions to teaching, research, and institutional development. Their dedication continues to inspire students and elevate the academic spirit of MUJ. These accolades reflect their unwavering commitment to innovation, mentorship, and academic leadership. Their achievements serve as a beacon of excellence for the entire university community, reinforcing MUJ's mission to nurture brilliance across disciplines. The awards were presented during a special ceremony that honored academic distinction and celebrated the transformative impact of faculty across departments. Their work not only enriches the classroom but also strengthens MUJ's reputation as a hub of progressive education and research.





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### Orientation'25

Manipal University Jaipur successfully hosted the First-Year Student's Orientation Program from July 25th to 27th, 2025, welcoming the Class of 2025 with enthusiasm and pride. The event featured inspiring addresses, campus tours, cultural performances, and interactive sessions that helped students connect, explore, and feel at home.

Students were introduced to academic departments, support services, and co-curricular opportunities that will shape their university journey. The vibrant atmosphere and collaborative spirit reflected MUJ's commitment to excellence, inclusion, and innovation.

With memories made and friendships sparked, Orientation 2025 set the perfect tone for a transformative year ahead.





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### *Freshers'25*

Freshers'2025 at Manipal University Jaipur was a vibrant celebration of new beginnings, energy, and connection. From the electrifying DJ night to engaging orientation sessions, the campus came alive with excitement as students bonded over games, performances, and shared experiences. The talent show revealed hidden stars, while icebreaker events helped forge friendships that will last a lifetime. With the first semester now underway, the spirit of Freshers' Week continues to inspire—setting the tone for a year filled with growth, creativity, and unforgettable memories





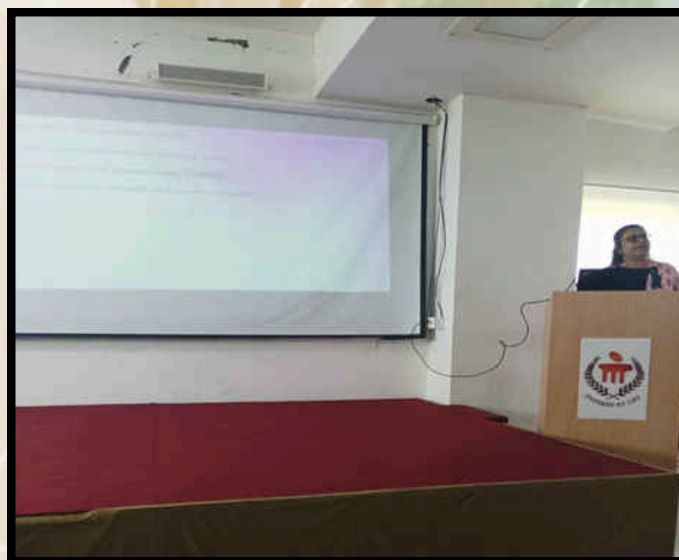
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### *Induction'25*

The Department of Computer Applications at Manipal University Jaipur hosted a vibrant five-day Induction Program from 28th July to 1st August 2025, welcoming newly admitted students of **BCA, MCA, and M.Sc. (Cyber Security)**. Designed to ease the transition into university life, the program blended academic orientation with interactive sessions, motivational talks, and campus engagement.

Students were introduced to MUJ's academic processes, examination systems, and institutional resources including the Central Library, Sports Facilities, and Student Welfare Services. Sessions led by faculty and directors covered topics such as entrepreneurship through E-Cell, international collaborations, and career readiness pathways. The event also featured club showcases, quizzes, and MooC awareness, ensuring students felt both informed and inspired.

Coordinated by **Dr. Vaibhav Bhatnagar** and **Dr. Rekha Jain**, the program reflected MUJ's commitment to holistic development and community building.



## DEPARTMENT OF COMPUTER APPLICATIONS

### Research & Publications

#### Faculty publication

**Dr. Niyaz Ahmad Wani**, Assistant Professor in the Department of Computer Applications at MUJ, continues to make impactful strides in AI and healthcare research. His recent publications with Manipal affiliation during August and September include

Title	Journal	SCI Tier	Impact Factor
Ameliorating Federated Learning using Dynamic Inertia Weight-Based Advanced Particle Swarm Optimization for Consumer Electronic Devices	IEEE Transactions on Consumer Electronics	Q1	10.9
Optimized Federated Learning for Trustworthy Edge Decision-Making in IoT Consumer Electronics	IEEE Transactions on Consumer Electronics	Q1	10.9
A Deep Learning and Explainable Artificial Intelligence based Scheme for Breast Cancer Detection	Scientific Reports (Nature)	Q1	3.9
A Comprehensive Framework for Eye Tracking: Methods, Tools, Applications, and Cross-Platform Evaluation	Journal of Eye Movement Research	Q1	2.8

These works reflect Dr. Wani's dedication to advancing Explainable AI, smart healthcare, and federated learning systems. MUJ is proud to support such pioneering research



## DEPARTMENT OF COMPUTER APPLICATIONS

### Research & Publications

### Faculty publication



**Dr. Avichandra Singh Ningthoujam** for presenting his research paper “A Hybrid Machine Learning Framework for Predicting Myopia Progression in Taiwanese Children” at the 5th Asian Conference on Innovation in Technology (ASIANCON), held on 22nd–23rd August 2025. His work integrates ocular, demographic, and postural data—showcasing the power of AI in advancing pediatric healthcare



We are thrilled to congratulate **Dr. Arpana Sinhal** on receiving a Certificate of Presentation from the 4th 2025 IEEE World Conference on Applied Intelligence and Computing (AIC 2025). Arpana presented the research paper titled, "Optimizing Diagnostic Accuracy in Healthcare by using Deep Learning," which was co-authored by Anay Sinhal and Nitin Sahu. This significant contribution to the field was shared with international experts at the event, held from July 26-27, 2025, at the IETE, Delhi Centre.

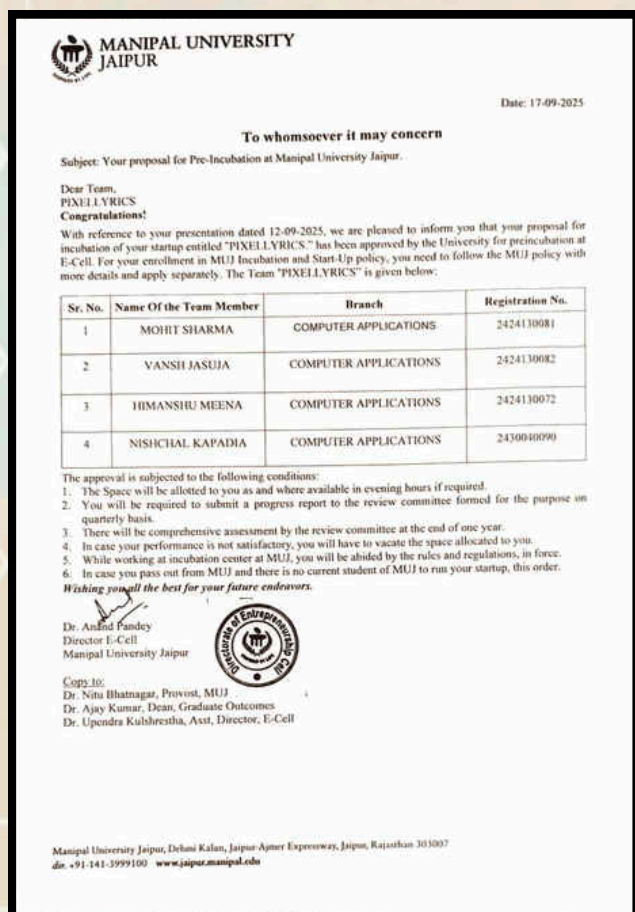
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## Achievements

## Student Achievements



Congratulations to **Shivansh Tripathi** for presenting his paper “AI-Driven Support for Mental Wellness” at the prestigious IEEE 4th International Conference for Advancement in Technology (ICONAT), held from 19th–21st September 2025. His contribution highlights the growing role of artificial intelligence in promoting mental health and well-being




We're thrilled to announce that Team **PIXELYRICS** has officially entered the Pre-Incubation program under Manipal University Jaipur's Start-Up Policy and E-Cell initiative. With a focus on innovation and discipline, the team is set to explore new horizons in tech entrepreneurship. Congratulations to **Mohit, Vansh, Himanshu, and Nishchal** your startup journey begins now



## DEPARTMENT OF COMPUTER APPLICATIONS

We're proud to announce that student startup **CENTAURUS ARENA**, led by **Alok** and **Manya** from the Department of Computer Applications, has been officially approved for pre-incubation under MUJ's E-Cell and Startup Policy. Following a successful presentation on 12th September 2025, the team will now refine their proposal and begin their entrepreneurial journey with university support. Innovation begins here!

 **MANIPAL UNIVERSITY  
JAIPUR**

Date: 17-09-2025

**To whomsoever it may concern**

Subject: Your proposal for Pre-Incubation at Manipal University Jaipur.

Dear Team,  
**CENTAURUS ARENA**  
**Congratulations!**


With reference to your presentation dated 12-09-2025, we are pleased to inform you that your proposal for incubation of your startup entitled "CENTAURUS ARENA" has been approved by the University for preincubation at E-Cell. For your enrollment in MUJ Incubation and Start-Up policy, you need to follow the MUJ policy with more details and apply separately. The Team "CENTAURUS ARENA" is given below:


Sr. No.	Name Of the Team Member	Branch	Registration No.
1	ALOK	COMPUTER APPLICATIONS	2424130126
2	MANYA	COMPUTER APPLICATIONS	2430010231

The approval is subjected to the following conditions:

1. The Space will be allotted to you as and where available in evening hours if required.
2. You will be required to submit a progress report to the review committee formed for the purpose on quarterly basis.
3. There will be comprehensive assessment by the review committee at the end of one year.
4. In case your performance is not satisfactory, you will have to vacate the space allocated to you.
5. While working at incubation center at MUJ, you will be abided by the rules and regulations, in force.
6. In case you pass out from MUJ and there is no current student of MUJ to run your startup, this order.

*Wishing you all the best for your future endeavors.*

  
Dr. Akhand Pandey  
Director E-Cell  
Manipal University Jaipur



Copy to:  
Dr. Nitu Bhatnagar, Provost, MUJ  
Dr. Ajay Kumar, Dean, Graduate Outcomes  
Dr. Upendra Kalshrestha, Asst. Director, E-Cell

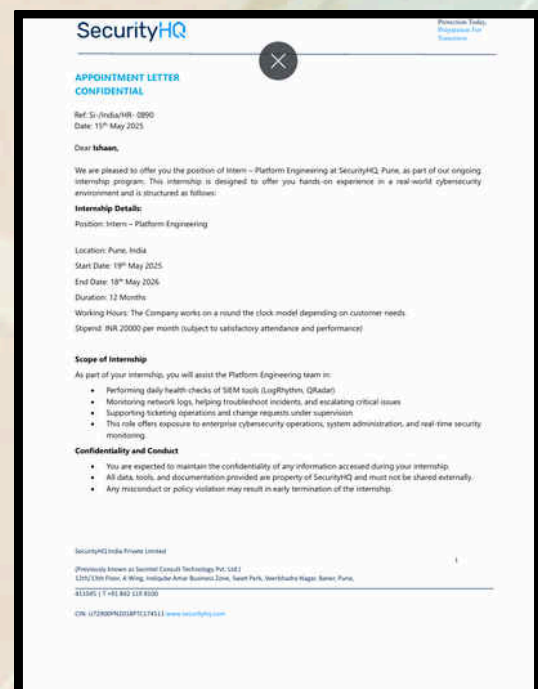
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### Internship

The Department of Computer Applications is proud to announce that **Umang Pugalia, Ujjwal Agarwal, Nikita, Ishaan** and **Kasish Saw** have been selected as Software Developer Interns at MetaBlock Technologies LLP, a pioneering Web 3.0 company based in Jaipur. Their internship, spanning October 2025 to May 2026, offers hands-on experience in cutting-edge blockchain and decentralized technologies. Each intern will receive a monthly stipend of ₹15,000, and based on performance, may be offered a full-time role with a competitive package ranging from ₹3–5 LPA. This opportunity not only strengthens their technical foundation but also opens doors to innovation, collaboration, and real-world impact.

MetaBlock's internship program emphasizes mentorship, project ownership, and professional growth. Interns will work under designated mentors, contributing to live projects while adhering to industry-grade confidentiality and development standards. We congratulate these students on their achievement and look forward to seeing them thrive in the fast-evolving tech landscape. Their success reflects the department's commitment to nurturing talent and fostering industry readiness.





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### Article Crafting

### Data Science: Turning Data into Decision

In an age where every click, swipe, and transaction generates data, the ability to extract meaningful insights has become a superpower. Data Science blends statistics, programming, and domain knowledge to uncover patterns, predict outcomes, and drive smarter decisions across industries.

From healthcare diagnostics to financial forecasting, data scientists are solving real-world problems using tools like Python, R, SQL, and machine learning frameworks. The process involves collecting raw data, cleaning it, analyzing trends, and visualizing results to support strategic thinking.

What makes Data Science truly exciting is its versatility. Whether you're building recommendation engines, detecting fraud, or optimizing supply chains, the skills are applicable everywhere. With growing demand for data-driven roles, students and professionals alike are diving into projects that combine technical rigor with creative problem-solving.

As the field evolves, emerging areas like deep learning, natural language processing, and ethical AI are opening new frontiers—making Data Science not just a career path, but a gateway to innovation.

Created by- Mr.Anvesh Piploda  
BCA

