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LUCKNOW - INDIA

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DIAMOND



BYTEVERSE

Bits Of Knowledge, Bytes Of Progress



**ANNUAL NEWSLETTER
2024-25**

DEPARTMENT OF COMPUTER APPLICATION





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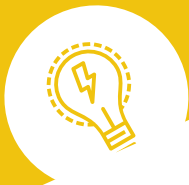
AT A GLANCE

ALL EVENTS ORGANIZED
THROUGHOUT THE YEAR

QUICK GLIMPSES OF THE EVENTS & ACTIVITIES

The Department of Computer Application at Integral University has successfully hosted a remarkable number of events and lectures. In the academic session of 2024–2025 alone, we organized more than 18 events across diverse domains, along with several technical workshops and a journal club presentation. This wide array of activities highlights the department's commitment to nurturing students' skills and providing them with opportunities for practical learning and industry exposure.





ABOUT THE DEPARTMENT

The Department of Computer Application is a dynamic hub of learning, innovation and research dedicated to shaping future-ready professionals in the digital era. Established in 2003, the Department has built a strong reputation for academic excellence, industry relevance and research contributions.

Our programs prepare students for diverse professional roles such as Software Developer, System Analyst, Software Engineer, Application Architect, Hardware Engineer, Software Consultant and Database Administrator across both private and public sectors.

WHO WE ARE



Our Vision

To become a globally recognized department distinguished for academic excellence, pioneering innovation, and high-impact research, fostering a dynamic culture of creativity and technological advancement in computer applications.



WHAT WE STRIVE FOR

Our Mission

- To develop research-driven professionals with expertise in Computer Applications, making a global impact.
- To develop technocrats well-equipped with advanced technical expertise and strong leadership skills, empowering them to contribute meaningfully to society.
- To foster industry collaboration in solving real-world challenges and driving technological innovation.

RANKINGS & AWARDS

 **INTEGRAL UNIVERSITY**
LUCKNOW - INDIA

A+ ACCREDITED BY NAAC

28 YEARS

COMPUTER APPLICATION
IIRF RANKING-2025

Ranked **1** In City of Lucknow

Ranked **7** In State of Uttar Pradesh


IIRF SINCE 2015

IIRF Centre For Institutional Research

 **INTEGRAL UNIVERSITY**
LUCKNOW - INDIA

A+ ACCREDITED BY NAAC

28 YEARS

COMPUTER APPLICATION
RANKING-2025

INDIA TODAY **MDRA**
People Who Make the Difference

TOP BCA EMERGING COLLEGES

TOP BCA COLLEGES

1st In City


2nd In State

2nd In City

6th In State

23rd In Country

80th In Country

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 **INTEGRAL UNIVERSITY**
LUCKNOW - INDIA

A+ ACCREDITED BY NAAC

27 YEARS

COMPUTER APPLICATION

RANKED **2** State of Uttar Pradesh

RANKED **23** National Ranking


IIRF SINCE 2015

IIRF - 2024
IIRF Centre For Institutional Research

 **INTEGRAL UNIVERSITY**
LUCKNOW - INDIA

A+ ACCREDITED BY NAAC

27 YEARS

PROUD AND ACCOMPLISHED

INDIA TODAY **MDRA**
People Who Make the Difference

RANKING-2024
DEPARTMENT OF COMPUTER APPLICATION

6th State of Uttar Pradesh

76th Among Top 167 Universities in India

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MESSAGE FROM THE HEAD OF DEPARTMENT

It gives me great pleasure to present ByteVerse – Bits of Knowledge, Bytes of Progress, the annual newsletter of the Department of Computer Application for the academic session 2024–25. This edition captures the achievements, initiatives, and vibrant academic spirit that define our department.

Our strength lies in the synergy between committed faculty and enthusiastic students. Through expert lectures, hands-on workshops, industry interaction, research activities, and co-curricular engagement, we continuously strive to nurture competence, creativity and innovation. Platforms such as the Cyber Bulletin, Tech Dose and Research Bulletin encourage idea sharing and provide opportunities for our academic community to grow intellectually and professionally.

I extend my sincere appreciation to our faculty, staff and students whose dedication and teamwork make these accomplishments possible. Your efforts continue to raise the standards of the department and inspire new goals.

I hope Byteverse motivates us all to keep adding bits of knowledge and many more bytes of progress in the journey ahead.



– Prof. Mohammad Faisal

MESSAGE *from* EDITOR'S DESK...

I am pleased to present this edition of the Department of Computer Application Newsletter at Integral University, reflecting the spirit of our vibrant academic community. Highlighting academic milestones, projects and achievements, it showcases the talents and passions of our learners. I thank all contributors and hope it inspires everyone to learn and create with enthusiasm.

– Dr. Nadiya Parveen
Editorial Committee

STUDENT INDUCTION PROGRAM DEEKSHARAMBH 2024

1ST - 3RD AUGUST 2024



The Deeksharambh 2024 Student Induction Program, successfully conducted from August 1st to 3rd, 2024, provided a **comprehensive orientation** for newly admitted students, equipping them with essential knowledge about university life, academic programs, career prospects and extracurricular opportunities.

HIGHLIGHTS

DAY 1: ACADEMIC & INSTITUTIONAL OVERVIEW

- **Documentary Showcase:** Highlighted the university's legacy and accomplishments.
- **Welcome Speech & Department Overview:**
The session opened with the welcome address by Prof. Mohammad Faisal, Head of the department who outlined the department's vision, academic ecosystem, student opportunities and notable achievements.
- **Dr. Mohd Faizan, Dr. Tasneem Ahmed, Dr. Mohd Waris Khan, Dr. Afreen Khan, Dr. Anwar Bari, Dr. Farooq Ahmad and Mr. Faizan Mahmood** outlined programs, IT infrastructure, training, and student clubs, emphasizing innovation.
- **Vote of Thanks:** Delivered by **Ms. Fiza Afreen**.

DAY 2: CAMPUS EXPLORATION & CAREER GUIDANCE

- **Campus Tour:** Led through library, admin offices, CIED and department areas.
- **Career & Conduct Sessions:**
Mr. Rizwan Akhtar spoke on discipline and policies, the Director of CCGND covered career growth and placements and Mr. Vishal Agarwal introduced ISF-CEID.

- **Universal Human Values:** Dr. Bably Dolly emphasized ethics and values.



DAY 3: ALUMNI SESSION & STUDENT ENGAGEMENT

- **Alumni Talk**
Mr. Aun Mohd Kidwai (Data Scientist, TCS & Clavis Technologies) – Discussed AI, Data Science and career growth.
- **Talent Hunt**
Poetry Recitation: By Ms. Enaba Salman, which added a touch of elegance and literary charm to the program.
- **Theatrical Play**
By Mohammad Faizan Ansari, Mohammad Sadique Khan, Kanishka Shukla, Kalpana Shukla, and Aaliya Salam, whose contributions helped document the successful execution of the Deeksharambh 2024 program.

CONCLUSION

The Deeksharambh 2024 program was successfully conducted, ensuring new students gained clarity and confidence for their academic journey. It introduced them to academic life, career opportunities and student engagement activities, making their transition into university smooth and informed.



organized

WORKSHOPS & EVENTS



13TH AUGUST 2024

CYBER SECURITY AND ETHICAL HACKING



EVENT OVERVIEW

On August 13th, 2024, the Department of Computer Application at Integral University, in collaboration with Sipher Web Pvt. Ltd., successfully organized a workshop on "**Cyber Security and Ethical Hacking.**" The event was held in the Central Auditorium from 10:00 a.m. to 12:30 p.m, including students from BCA, MCA and B.Tech.

MENTORSHIP AND CYBER SECURITY FOCUS

Mentorship & Coordination: Led by Dr. Masood Ahmad and Mr. Shubham Kumar.

Focus: Highlighted the importance of cyber security.

Outcome: Equipped students with essential skills to tackle digital challenges.

EXPERT SESSION BY MR. ADITYA DUBEY

- **Session Lead:** Mr. Aditya Dubey, Cyber Security Expert.
- **Key Insights:** Covered the latest trends in cyber security and ethical hacking.
- **Approach:** Practical demonstrations that engaged participants and enhanced understanding of digital asset protection.

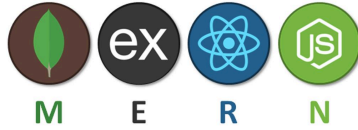


MERN STACK DEVELOPMENT

IN COLLABORATION WITH

SIPHER WEB PVT. LTD.

28TH — 30TH
JANUARY
2025



ABOUT THE EVENT

The Department of Computer Application, Integral University Lucknow, in collaboration with **Sipher Web Pvt. Ltd.**, successfully organized a three-day workshop on **MERN Stack Development** from 28th to 30th January 2025. The workshop was attended by more than 250 enthusiastic students eager to enhance their skills and knowledge in modern web development technologies.



HIGHLIGHTS

DAY 1 INTRODUCTION AND BACKEND DEVELOPMENT

SESSION 1

The workshop commenced with an overview of the MERN stack, setting up the development environment, an introduction to **MongoDB** and **CRUD operations**.

SESSION 2

The participants were introduced to Node.js and Express.js, followed by a session on building **RESTful APIs** with hands-on exercises.

SESSION 3

The day concluded with backend setup for a basic MERN app, such as a **To-Do List** or **Blog**.

DAY 2 FRONTEND DEVELOPMENT AND INTEGRATION

SESSION 1

The second day focused on **React.js** basics, building a React app, connecting the React frontend to the Express.js backend and displaying data from MongoDB.

SESSION 2

Participants learned about **authentication with JWT**, state management and implementing user login/logout functionalities.

SESSION 3

The day ended with the completion of the final project and an interactive Q&A session.

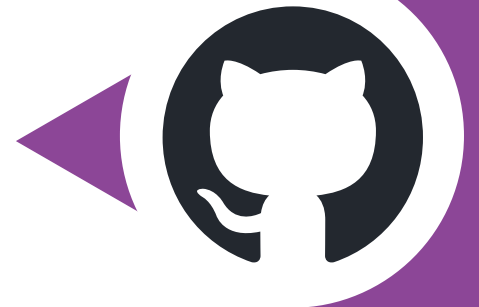
DAY 3 ASSESSMENT & PRIZE DISTRIBUTION CEREMONY

#PRIZE DISTRIBUTION

- **1st Position:** Adarsh Agrahari (BCA 2nd Year)
- **2nd Position:** Elma Shariq (BCA 3rd Year)
- **3rd Position:** Abdul Hannan (BCA 2nd Year)



TWO DAY Mastering GitHub A Hands-on Workshop



EVENT OVERVIEW

The Department of Computer Application at Integral University, Lucknow, successfully conducted an online workshop titled “**Mastering GitHub: A Hands-on Workshop**” on 10th TO 11th April 2025 at 2:00 PM via virtual mode. The aim was to equip students with practical skills in **Git and GitHub**, focusing on managing academic and professional projects effectively using version control systems.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

Department of Computer Application

Organises
2 days workshop on
“**MASTERING GITHUB: A Hands-on Workshop**”

🎯 **Workshop Objectives**

- ✔ Understand version control and its importance in software development
- ✔ Learn Git fundamentals – repositories, commits, branches, and merging
- ✔ Hands-on experience with Git commands & workflows
- ✔ Explore collaborative workflows (GitHub/GitLab/Bitbucket)
- ✔ Learn best practices for academic & professional projects

📜 **Certificate of Participation for all attendees**

Prof Mohammad Faisal
Head
Dept of Computer Application

Faculty Coordinators
Mr. Hifzurrahman
(Assistant Professor)
Mr. Motashim Rasool
(Assistant Professor)

Event Details:
📺 Mode: Online
📅 Date: 10th & 11th April 2025
🕒 Time: 2:00 PM – 4:00 PM

Student Coordinator
Bilal Jafri
(BCA 2nd Year)

REGISTER HERE

RESOURCE PERSON



Mr. Hifzurrahman

Assistant Professor, Department of Computer Application, Integral University.

With vast experience in software development and version control systems, he conducted a comprehensive hands-on session, demonstrating essential Git and GitHub functionalities through live examples.

SESSION HIGHLIGHTS

The session covered:

- Importance of **version control systems** in solo and team projects.
- Core concepts and benefits of **Git and GitHub**.
- Practical demonstrations on:
 - Creating GitHub accounts and repositories.
 - Forking, cloning, and initializing repositories.
 - Managing branches, committing changes, merging, and conflict resolution.
 - Reverting code to previous versions.

Emphasis was placed on collaborative development best practices like branch-based workflows and efficient conflict management.

The workshop concluded with an interactive Q&A session, where participants clarified doubts and explored real-world applications of version control in academic and professional projects, making the session both practical and impactful.

PARTICIPATION & COORDINATION

The workshop saw enthusiastic participation from **BCA and MCA students**. The event was smoothly coordinated by **Mr. Motashim Rasool**, Assistant Professor, Department of Computer Application, ensuring a productive and interactive learning experience for all attendees.





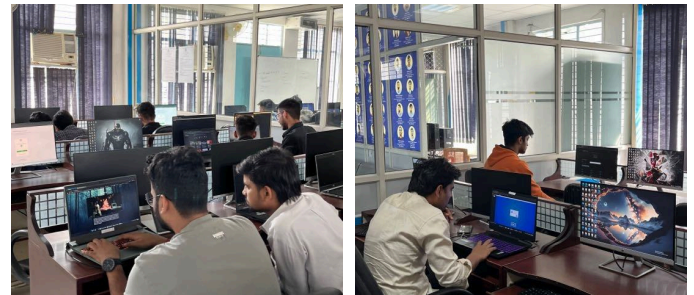
CAPTURE THE FLAG 3.0

BYTE BATTLE ESCAPE

27TH FEBRUARY 2025

EVENT OVERVIEW

Integral University's **Cyber Awareness Club** successfully hosted "**Byte Battle Escape CTF 3.0**" on February 27, 2025. This event boosted **cybersecurity awareness** and skills among students. Integral University students also visited other local universities in Lucknow (Babu Banarasi Das University, Babasaheb Bhimrao Ambedkar University, Ram Swaroop Memorial University, Maharishi University and Lucknow University) to demonstrate **CTF techniques and share knowledge**.



CELEBRATING ACHIEVEMENT

The competition fostered an engaging and competitive learning environment with active participation from multiple universities. **Cash prizes** of ₹5000, ₹3000 and ₹2000 were awarded to the **top three teams**, along with shields. Key project developers were also recognized with appreciation letters for their exceptional contributions.



CHALLENGE CATEGORIES

The CTF competition provided hands-on experience across vital **cybersecurity domains**. Participants tackled challenges in Cryptography.

- Web security
- Network exploitation
- Reverse engineering
- Forensics

This practical, hands-on approach directly equipped students with invaluable expertise, preparing them to confidently tackle complex and evolving real-world cybersecurity scenarios.

CONCLUSION

"Byte Battle Escape CTF 3.0" was a resounding success, significantly boosting cybersecurity awareness and practical skills among university students in Lucknow. Integral University's commitment to nurturing future cybersecurity talent was evident through this impactful event, equipping participants with essential expertise for real-world challenges.



[HTTPS://YOUTUBE.COM/SHORTS/XEW8YOV_VHM?SI=YOBC9LYC_A0B8M1U](https://youtube.com/shorts/xew8yov_vhm?si=yobc9lyc_a0b8m1u)





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Expert LECTURES



NAVIGATING THE CLOUDSCAPE

UNVEILING DEPLOYMENT MODELS AND SERVICES

EXPERT LECTURE OVERVIEW

The Department of Computer Application, Integral University, organized a guest lecture titled “**Navigating the Cloudscape: Unveiling Deployment Models and Services**” on September 4th, 2024, in Hall-3, Central Auditorium. The lecture was delivered by Dr. Hemant Kumar Singh, Dean of Engineering at **SMS** Lucknow, an award-winning educator with 21 years of experience, who has authored three books, contributed five book chapters, published over 30 research papers and hold two patents.

INSIGHTS ON CLOUD DEPLOYMENT MODELS

Focus: Deepened understanding of cloud deployment models (public, private, hybrid, and multi-cloud).

Real-World Insights: Dr. Singh highlighted examples of cloud technologies driving efficiency and innovation.

Key Takeaway: Emphasized optimizing cloud strategies to enhance performance and foster innovation.

INTERACTIVE SESSION AND CONCLUSION

The event concluded successfully with active participation from faculty members and students of MCA and BCA. The Q & A session was engaging, helping to clarify doubts and explore practical cloud applications. The program ended with a warm felicitation of the guest, acknowledging their valuable insights and contributions. A heartfelt vote of thanks was delivered by Mrs. Farha Zia, expressing gratitude to the guest, faculty, students and organizers. The session was smoothly coordinated by Dr. Anwar Bari and Mrs. Farha Zia, along with the dedicated Expert Lecture team, ensuring its effective and impactful execution.



EXPERT LECTURE ON

DATA SCIENCE

1ST OCTOBER 2024

IN ASSOCIATION WITH IEEE YOUNG PROFESSIONALS

EVENT OVERVIEW

The Department of Computer Application, Integral University, in collaboration with IEEE Young Professionals, Uttar Pradesh Section, organized an online Expert Talk on Data Science on 01 October 2024 via Google Meet. The event aimed to offer students valuable exposure to industry trends and career opportunities in Data Science. It created a platform for students to interact with an industry expert, gain practical insights, and understand the skills needed to excel in this growing field.



RESOURCE PERSON

Mr. Ashwini Jain

The session featured **Mr. Ashwini Jain**, Founder & CEO of **NextGen Horizons** and President of Proxsoft Developers. He is also the Co-founder of **ForeignAdmits**, a platform supporting students from tier-2 and tier-3 cities for higher studies abroad. An **IIT Bombay** graduate, Mr. Jain was recognized in **Forbes 30 Under 30 Asia 2023** for his work in consumer technology and Data Science education.

INTEGRAL UNIVERSITY | **IEEE youngprofessionals**
UTAR PRADESH SECTION

DEPARTMENT OF COMPUTER APPLICATION
IS ORGANIZING
AN EXPERT LECTURE
ON
DATA SCIENCE

Join us for an insightful journey into Data Science!

Coordinator
Mr. Faizan Mahmood
(Assistant Professor)

Convener
Dr. Tasneem Ahmed
(Associate Professor)

Mentor
Prof. Mohammad Faisal
(Head of Department)

LIVE WEBINAR

October 01, 2024

Starts at 6 pm

Mr. Ashwini Jain

Microsoft Teams

SESSION HIGHLIGHTS

- The talk covered current industry trends and the key skills required to build a successful career in Data Science
- Common challenges faced by beginners were discussed, along with practical advice for overcoming them and planning career growth.
- An interactive Q&A session allowed students to clarify their doubts and receive personalized guidance from the expert.

ACKNOWLEDGMENTS

The session ended with a vote of thanks by **Faizan Mahmood**, appreciating **Mr. Ashwini Jain's** valuable insights. The event was coordinated under the guidance of **Dr. Tasneem Ahmed**. These initiatives help connect students with industry experts and prepare them for future success.

AN EXPERT LECTURE ON

DISCOVER YOUR CAREER PATH WE, AI AND WORLD

3RD OCTOBER, 2024

EVENT OVERVIEW

The Department of Computer Application organized an expert lecture on October 3, 2024, featuring **Mr. Prashant Malviya** (Consultant, TCS Lucknow | IIM Alumnus). The session explored **AI technologies**, applications across industries, ethical considerations and future prospects. Mr. Malviya emphasized the **growing career opportunities** in AI, highlighting the rising demand for skilled professionals.

HIGHLIGHTS

Speaker

Mr. Prashant Malviya (Consultant, TCS Lucknow | IIM Alumnus)

Objective

Provide insights on AI's impact on industries, economies and societies.

Topics Covered

- **AI technologies:** Machine learning, NLP, and computer vision.
- **AI applications** in healthcare, finance, education and transportation.
- **Ethical considerations and future prospects of AI.**

Career Insights

Emphasis on rising demand for AI professionals with high growth potential.



ENGAGEMENT & CONCLUSION

- Interactive Q&A session encouraged deeper discussions.
- Session concluded with felicitation of the speaker and a vote of thanks.
- Attended by MCA and BCA students, coordinated by Dr. Anwar Bari, Mr. Motashim Rasool and Mr. Sarfaraz Alam.

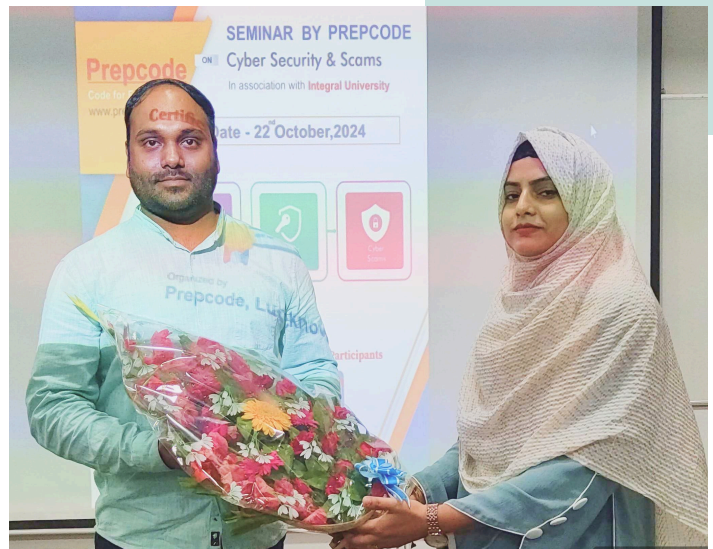


AN EXPERT LECTURE ON CYBER SECURITY AND SCAMS

22ND OCTOBER 2024

EVENT OVERVIEW

The Department of Computer Application, Integral University, organized an Expert Talk on “**Cyber Security and Scams**” on 22nd October 2024 as part of National Cyber Security Awareness Month. The session was held in Hall-3, Central Auditorium, with guest speakers **Mr. R. K. Gupta** (CEO, Invisor Technologies) and **Mr. Jaydeep Vidyarthi** (Cyber Security Specialist). The event aimed to highlight the importance of cyber security, the rising number of online scams, and the need to protect digital devices and personal data from unauthorized access and threat



RESOURCE PERSON

Mr. R. K. Gupta & Mr. Jaydeep Vidyarthi

- **Types of Scams Discussed:** Phishing, identity theft and online fraud.
- **Impact of Scams:** Financial losses, data theft, and misuse of personal information.
- **Preventive Measures:** Identifying suspicious activity, learning more about cyber security practices, and steps to follow if one becomes a victim.
- Mr. Gupta emphasized the technological perspective, while Mr. Vidyarthi focused on practical strategies to counter cyberattacks

CONCLUSION

The session was well-coordinated by the faculty members Mr. Faizan Mahmood and Dr. Abida Khanam along with student coordinators Vishal Sharma, Haider Abbas and Aaliya Salam. Aaliya Salam also delivered the welcome speech and the vote of thanks, expressing gratitude to the speakers. Overall, the lecture served as an impactful awareness initiative, equipping students with essential knowledge to recognize, prevent and respond to cyber threats.

LECTURE ON EXPERT ROADMAP TO BECOME A FULL STACK DEVELOPER

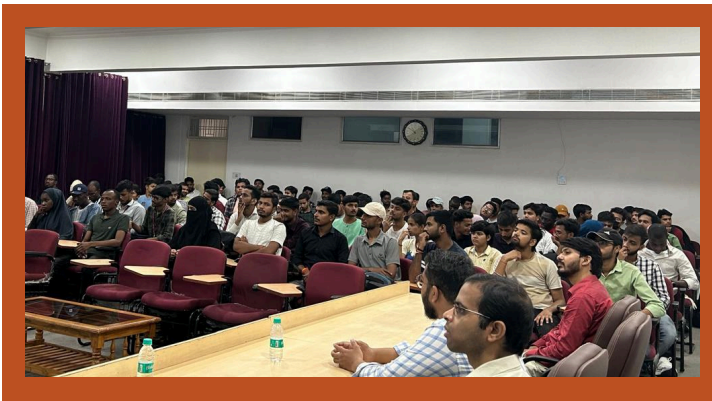
IN ASSOCIATION WITH
SOFTPRO INDIA

EVENT OVERVIEW

The Department of Computer Application at Integral University, in collaboration with Softpro India, Lucknow, organized an expert lecture on **"Roadmap to Become a Full Stack Developer."** The event was designed to bridge the gap between academics and industry practices, giving students insights into the skills and trends that are shaping modern web development. With the growing demand for professionals who can manage both front-end and back-end development, the session aimed to highlight the importance of becoming a Full Stack Developer in today's IT landscape.

CONCLUSION

The session proved to be highly beneficial for students, providing them with a clear career pathway and practical understanding of industry expectations. All participants were encouraged to register through a Google form, and those who successfully attended the event received e-certificates. The lecture not only enhanced technical awareness but also motivated students to strengthen their career goals by pursuing the dynamic and rewarding field of Full Stack Development.



#Images



HIGHLIGHTS

- A **comprehensive** Roadmap to Become a Full Stack Developer
- **Resource Person** - Mr. Rohit Kumar, CTO, Softpro Group of Companies.
- **Faculty Coordinators:** Dr. Mirza Ghazanfar Beg and Mr. Faizan Mahmood
- **Student Coordinators:** Ahmad Saad and Ramsha Fatima

NAVIGATING THROUGH CAREER CHALLENGES IN THE CURRENT MARKET SCENARIO

EVENT OVERVIEW AND OPENING REMARKS

The Department Placement Committee, Department of Computer Application, Integral University, in collaboration with **Expertrons** and under the aegis of **DQAC**, organized an **Expert Talk** on "**Navigating Through Career Challenges in the Current Market Scenario**" on **29 January 2025** at the Central Auditorium, Integral University.

The session featured **Mr. Anil Tripathi, Senior Vice President, Expertrons**, with over **35 years of experience** in leadership, training, and professional development. The event commenced with a **welcome address by Aaliya Salam**, followed by a **floral welcome by Dr. Md. Faizan Farooqui** to **Mr. Tripathi**.

KEY INSIGHTS AND INTERACTIVE DISCUSSION

Mr. Tripathi provided insights on

- **Shifting Job Market** Dynamics and the role of technological advancements.
- **Continuous Learning and Skill Development** to remain competitive.
- **Mentorship and Career Planning** to align personal goals with industry expectations. The session was highly interactive with students posing queries on **career growth and industry trends**, which Mr. Tripathi addressed with practical strategies.



CONCLUSION

The session concluded with a **networking opportunity** where students interacted with Mr. Tripathi and faculty members, fostering a collaborative learning environment. **Dr. Anwar Bari** delivered a **vote of thanks**, acknowledging Mr. Tripathi's insights and appreciating the efforts of the **faculty, students, and organizing committee** in making the event a success.



AN EXPERT TALK ON

28TH FEBRUARY 2025

DIGITAL ETHICS

EVENT OVERVIEW

The Department of Computer Application, Integral University, Lucknow, successfully hosted an **Expert Talk on "Digital Ethics"** under the UGC Life Skills (Jeevan Kaushal) program on February 28th, 2025. Conducted at the CSE Seminar Hall, the event focused on the core objective of enhancing **Communication Skills** while addressing the importance of **privacy, security, fairness, and accountability** in today's digital world. The session aimed to help participants understand the ethical implications of digital technologies and the need to navigate them responsibly.



ACTIVE PARTICIPATION AND E-QUIZ HIGHLIGHTS

- **Interactive Q&A session** with active student participation.
- **53 students attempted the e-quiz**, all received e-certificates.
- **Top 3 winners:**
 - 🥇 Muskan Bano Naseem Khan (BCA 2 G-H)
 - 🥈 Ahmad Abdul Qadir (BCA 2 Year G-A)
 - 🥉 Shubham Yadav (BCA 2 Year G-K)

RESOURCE PERSON

Prof. (Dr.) Shish Ahmad

- The department invited Prof. (Dr.) Shish Ahmad, Head, Department of Computer Science and Engineering, as the expert speaker.
- Dr. Ahmad brings **23+ years of rich academic experience** in the field of computer science.
- He discussed **ethical challenges posed by digital technologies**, including topics like privacy protection, digital fairness, and accountability.
- The session encouraged students to reflect on **ethical responsibilities in their future digital careers**.

CERTIFICATE



EXPERT TALK ON

4TH FEBRUARY 2025

IMPROVING RESILIENCE OF RESOURCE-CONSTRAINED NETWORKS AGAINST CYBER ATTACKS

EVENT OVERVIEW

The Department of Computer Application successfully organized an expert lecture to shed light on the growing security concerns in **resource-constrained** networks, especially in the context of cyber attacks. The event focused on challenges and solutions for securing such environments and featured a highly engaging and insightful session.



SESSION HIGHLIGHTS

The lecture began with a **floral welcome** to Dr. Verma.

Topics covered included:

- **DDoS attacks** targeting low-power IoT devices and counter measures
- How malicious pings affect communication in constrained networks
- Security challenges in **IPv6 over Low-Power Wireless Personal Area Networks (6LoWPAN)**
- Detection and prevention strategies tailored for resource-limited environments

Dr. Verma provided practical solutions and research-based **insights into modern threat detection techniques** and how they can be applied in constrained systems.

RESOURCE PERSON

Dr. Abhishek Verma

Assistant Professor, Department of Information Technology of Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow

Dr. Verma brought with him vast expertise in IoT security, **intrusion detection systems (IDS)**, and **software-defined networking (SDN)**. His research background helped attendees understand the intricate issues around securing devices with limited computing and power capabilities.





RESEARCH & SCHOLARLY INITIATIVES



JOURNAL CLUB PRESENTATION

5TH APRIL 2025

CA JOURNAL CLUB

The Department of Computer Application at Integral University in Lucknow held its inaugural Journal Club session on April 5, 2025. The club was established under the Departmental Research and Publication Cell (DRPC) with the goal of enhancing research awareness, fostering scholarly interaction, and exploring new trends in computer applications. The first session, which took place in the CA Smart Class, was attended by the Head of the Department and all faculty members.



RESEARCH SCHOLARS PRESENT ON DIGITAL FORENSICS AND DIABETES PREDICTION

The session featured two presentations by research scholars. Ms. Priya Sharma presented on **"A Review of Digital Forensics Techniques and Emerging Trends"**. She highlighted advancements in AI-integrated, mobile, and cloud forensics. Mr. Rizwan Akhtar presented a paper titled **"Data Mining Techniques for Type 2 Diabetes Prediction: A Literature Review"**. His talk focused on data mining algorithms and their potential to improve early diagnosis and personalized healthcare.

DEPARTMENT LEADERSHIP ENCOURAGES RESEARCH-ORIENTED PLATFORMS

The event was attended by the Head of the Department and all faculty members, who encouraged scholars to actively engage with such research-oriented platforms. The Journal Club session was conducted by Convener Dr. Tasneem Ahmed, along with Coordinators Dr. Afreen Khan, Dr. Syed Adnan Afaq and Dr. Virendra Singh. The session concluded with a vote of thanks from Mr. Rizwan Akhtar.

CONFERENCE

AUTHOR	TITLE	ORGANIZER
Shubham Kumar & Prof. Mohammad Faisal	Critical Review of Cybersecurity Risks in Precision Agriculture	IEEE
Motashim Rasool et al.	Analyzing and Detecting the Fake News using Machine Learning	IEEE
Nadiya Parveen & Dr. Mohd Waris Khan	Leveraging Emoticon Scores for Improved Sentiment Detection in Social Media Using Machine Learning Techniques.	IEEE
Priya Sharma & Dr. Mohd Waris Khan	A Review of Digital Forensics Techniques & Emerging Trends	IEEE
Safikur Rahman Khan & Dr. Mohd Waris Khan	A Comprehensive Review of Privacy Presenting Techniques in Health Data Analysis	IEEE
Dr. Asif Khan et al.	Using Asynchronous Frameworks and Database Connection Pools to Enhance Web Application Performance in High-Concurrency Environments	IEEE Xplore, 2024
Dr. Minhaj Khan et al.	Multiple Intrusion Detection in Complex Cloud Environments Using Random Forest and Deep Learning on the UNSW-NB15 Benchmark Datasets	Springer
Dr. Virendra Singh et al.	Securing Cloud-Based Systems: DDoS Attack Mitigation using Hypervisor-Intrusion Detection Approach	Procedia Computer Science, Elsevier
Mohammad Shafeeq et al.	Potato Leaf Disease Detection Using Machine Learning and deep Learning Technique	IEEE
Dr. Tasneem Ahmed et al.	Detection and Analysis of Crop Stresses in Precision Agriculture Using Sentinel-2 Images	IEEE
Dr. Tasneem Ahmed et al.	Urban Growth Estimation of Moradabad City Using Sentinel-2 Images	IEEE
Dr. Minhaj Khan et al.	A Research Review on Generative AI Models for Cloud Based Intrusion Detection	Chandigarh Group of Colleges, Jhanjeri, Mohali

JOURNAL

AUTHOR	TITLE	JOURNAL NAME
Pankaj Kumar et al.	Sustainable Healthcare Through IoT And Pervasive Computing: A Reinforcement Learning Approach	Journal of Neonatal Surgery
Mohammad Arif Ali Usmani & Dr. Ausaf Ahmed	An Approach to Develop a Model to Detect the Phosphorus and Potassium Deficiency in Paddy Crop on Agriculture Farm Using DIP & ML	Fusion: Practice and Applications
Nadiya Parveen & Dr. Mohd Waris Khan	Proposed Algorithm and Models for Sentiment Analysis and Opinion Mining Using Web Data	Nanotechnology Perceptions, Volume 20, No.6, 2024
Tariq Sagheer et al.	Predictive Maintenance and Monitoring of Industrial Compressor Using Machine Learning : A Predictive Approach	Metallurgical & Materials Engineering
Dr. Mohd Waris Khan et al.	A fusion framework for Hinglish cyberbullying detection using mBERT and FastText	International Journal of Engineering in Computer Science
Dr. Afreen Khan et al.	ADNeuroNet: a neuroevolution-based neural network algorithm for the diagnosis of neurodegenerative diseases	Neural Computing & Applications
Prof. Mohammad Faisal et al.	Implementation and Validation of a Digital Privacy Framework for Crowdsourced IoT Data Processing	Journal of Information Systems Engineering & Management
Afroj Alam & Dr. Muhammad Kalamuddin Ahamad	K-Means Hybridization with Enhanced Firefly Algorithm for High-Dimension Automatic Clustering	Journal of Advanced Research in Applied Sciences and Engineering Technology, Volume 33, No 3, 2024
Dr. Md. Faizan Farooqui et al.	Mathematical Insights into Framework Design for Ethical and Cyber-Secure Smart Cities	Journal of Information Systems Engineering & Management
Dr. Muhammad Kalamuddin Ahamad et al.	Enhancing Security and Performance of gRPC-Based Microservices using HTTP/3 and AES-256 Encryption	Journal of Information Systems Engineering & Management
Md Khalid Jamal & Prof. Mohammad Faisal	Machine Learning-Driven Implementation of Workflow Optimization in Cloud Computing for IOT Applications	Internet Technology Letters, 2024
Wahid Ali & Dr. Mohd Waris Khan	An Outlier Detection Driven Framework for Enhanced Information Retrieval	International Journal of Applied Mathematics

Eram Fatima Siddiqui & Dr. Tasneem Ahmed	A Prediction of Sleep Cycle Pattern by using Machine Learning Technique Based on Work Related Stressors	International Journal of Engineering Research & Technology
Nadiya Parveen & Dr. Mohd Waris Khan	A Conceptual Framework for Leveraging Web Data in Sentiment Analysis & Opinion Mining	Journal of Information Systems Engineering & Management
Mohammed Siddique & Dr. Tasneem Ahmed	CCD-ConvID: A Deep Learning based Coherent Change Detection Technique to Monitor and Forecast Floods using Sentinel-1 Images	Remote Sensing Applications: Society and Environment
Imtiyazul Haq et al.	Deep Learning and CNNs in Ophthalmology: Toward Accurate and Explainable Diagnosis	Journal of Neonatal Surgery
Mohammed Siddique & Dr. Tasneem Ahmed et al.	A Deep Learning-based Approach to Predict the Flood Patterns Using Sentinel-1A Time Series Images	Journal of the Indian Society of Remote Sensing, Vol. 52, 2024
Vishal Agarwal et al.	Assessment and Prioritization of AI-Enhanced Blockchain Factors in Healthcare Supply Chains: A Hybrid Multi-Criteria Decision-Making Approach	International Journal for Research in Applied Science and Engineering Technology
Mohammad Arif Ali Usmani & Dr. Ausaf Ahmed	An Approach to Develop a Model to Detect the Phosphorus and Potassium Deficiency in Paddy Crop on Agriculture Farm Using DIP & ML	Fusion: Practice and Applications, Vol. 18, No. 1, 2024
Vishal Agarwal et al.	Hybrid Evolutionary Algorithms and Fuzzy Sets for Optimization in Healthcare Decision Support Systems	International Journal of Research Publication and Reviews
Eram Fatima Siddiqui & Dr. Tasneem Ahmed	GTBTL-IoT: An Approach of Curtailing Task Offloading Time for Improved Responsiveness in IoT-MEC Model	EAI Endorsed Transactions on Internet of Things, Vol. 11, 2024
Dr. Afreen Khan et al.	Development of a robust parallel and multi-composite machine learning model for improved diagnosis of Alzheimer's disease: correlation with dementia-associated drug usage and AT(N) protein biomarkers	Frontiers in Neuroscience, Vol. 18, 2024
Mohd Shabbir et al.	Evaluating the Impact of Security Risks through Fuzzy AHP-TOPSIS Method	Journal of Information Systems Engineering and Management

BOOK CHAPTERS

AUTHOR	TITLE	PUBLISHER
Motashim Rasool et al.	Study of an Innovative Approach to IOT Based Human Activity Recognition	BP International
Mohammad Arif Ali Usmani & Dr. Ausaf Ahmed	An Approach to Detect the Nitrogen Deficiency of Paddy Crop on Agriculture Farm Using Digital Image Processing	BY CRC Press: Taylor & Francis
Saumya Singh et al.	Improving anti-tumour immunity by combining brain immunology & immunotherapy in brain Tumours	BY CRC Press: Taylor & Francis
Nadiya Parveen et al.	A survey of sentiment analysis & opinion mining using supervised machine learning	BY CRC Press: Taylor & Francis
Farha Zia et al.	Precision in Tracking: The Role of RFID in Asset Visibility	BY CRC Press: Taylor & Francis
Dr. Syed Adnan Afaq et al.	Cyberbullying: Understanding, Preventing, and Addressing Online Harassment	BY CRC Press: Taylor & Francis
Kashif Asad & Dr. Md. Faizan Farooqui	A Study of Cyber Threats and Security Framework in Cloud Computing	BY CRC Press: Taylor & Francis
Dr. Muhammad Kalamuddin Ahamad	Strategies for Cyber-Resilience: Combatting Advanced Persistent Threats in the Digital Age	BY CRC Press: Taylor & Francis
Dr. Syed Adnan Afaq et al.	Enhancing Fuzzy Multi Criteria Decision Making Technique in Engineering Design Problem	Springer
Dr. Syed Adnan Afaq et al.	Improving Diabetic Patient Care Through Fuzzy Logic: A Comprehensive Approach	Springer
Imran Ahmad & Dr. Tasneem Ahmed	Towards Sustainable Futures: AI Framework for ESG Performance Enhancement	BY CRC Press: Taylor & Francis
Dr. Shweta Dwivedi et al.	Leveraging machine learning for emerging trends in Information Technology	BY CRC Press: Taylor & Francis
Dr. Syed Adnan Afaq et al.	Soft computing: An introduction to intelligent problem-solving techniques	Elsevier
Harish Chandra & Dr. Tasneem Ahmed	An Approach to Estimate the Instability, Growth Rate and Decomposition Analysis of Mango Crop Productivity Through Landsat-8 Satellite Images	BY CRC Press: Taylor & Francis
Gausiya Yasmeen et al.	Role of Image Processing and Machine Learning Techniques in Detection of Crop Stress and Crop Diseases: An Overview	By CRC Press: Taylor & Francis
Gausiya Yasmeen et al.	A Comprehensive Overview of Digital Image Processing Techniques in Precision Agriculture	By CRC Press: Taylor & Francis

Dr. Tasneem Ahmed et al.	Cyber-Aggression: A Comprehensive Study on Cyberbullying Recognition and Intervention in Social Media Context	By CRC Press: Taylor & Francis
Dr. Tasneem Ahmed et al.	Cybersecurity Challenges and Countermeasures in Smart Cities for Sustainable Environment Development: A Comprehensive Analysis of Threats and Resilience Strategies	By CRC Press: Taylor & Francis
Dr. Mohd Faizan et al.	Improving the hardware Security of Wireless Sensor Network System by Using Analytic Hierarchy Process	Bentham Science Publishers
Vishal Agarwal	Deciphering the Genetic Basis of Complex Diseases	Stanzaleaf Publication
Sumit Yadav et al.	Artificial Intelligence Opportunities and Challenges	By GENIC Books
Dr. Satish Kumar et al.	Transitioning from Industry 4.0 to Industry 5.0: Exploring the potential and implications	By CRC Press: Taylor & Francis
Dr. Shweta Dwivedi et al.	Smart Healthcare Systems Using Computer Vision and IoT	IGI Global
Sarfaraz Alam et al.	A Comprehensive Review: Anomaly Detection Techniques on Social Networking and its Applications	By CRC Press: Taylor & Francis
Rizwan Akhtar et al.	Data mining techniques for type 2 diabetes prediction: A Literature Review	By CRC Press: Taylor & Francis
Pankaj Kumar et al.	AI Implementation in legal Healthcare System, Agriculture as well as space sector	By GENIC Books
Afroj Alam & Dr. Muhammad Kalamuddin Ahamad	Detection of Rheumatoid Arthritis Using CNN by Transfer Learning	Springer
Priya Sharma & Dr. Mohd Waris Khan	Analyzing Strategies Employed in Disseminating Deceptive Content on Social Media	By CRC Press: Taylor & Francis
Dr. Asif Khan et al.	Machine Learning Application for Solar PV Forecasting	John Wiley & Sons
Gausiya Yasmeen et al.	The Rising Threat of Deepfake Technology and Frightening Advancements of Social Engineering	IGI Global
Dr. Asif Khan et al.	Zea Mays Leaf Disease Classification Using Swin Transformer	Springer

Dr. Asif Khan et al.	Intelligent Modeling and Estimation of Solar Radiation Data Using Artificial Intelligence	Wiley
Dr. Asif Khan et al.	Brain Tumor Detection from Magnetic Resonance Imaging Images using Shallow Convolutional Neural Network	PMC PubMed Central
Dr. Shweta Dwivedi	Exploring the Future Landscape: Emerging Trends in Social Engineering Defense	IGI Global
Prof. Mohammad Faisal et al.	Social Media Revolution: Unravelling the Threads of Connectivity and Influence	IGI Global
Dr. Farooq Ahmad & Dr. Bably Dolly	Securing the Weakest Link: Compressive Approaches to Social Engineering Attack Prevention	IGI Global
Prof. Mohammad Faisal et al.	Block-Chain Technology-Based Framework to Build Cyber-Secured Smart Cities	By CRC Press: Taylor & Francis
Shubham Kumar & Sarfaraz Alam	Optimized Approaches for Cyber Forensics Tools Applications Case Studies	By CRC Press: Taylor & Francis



PATENTS

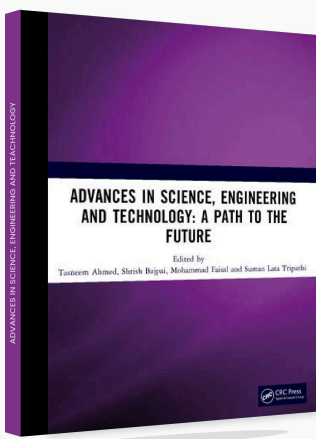
FACULTY NAME	PATENT	GRANTED / PUBLISHED	PATENT SCOPE
Dr. Bably Dolly et al.	Sensor-Based Wireless Earbuds with Voice Cancellation: A New Era for Audio	Granted	International
Dr Asif Khan, Dr. Mohd Faizan , Dr. Ausaf Ahmed, Safikur Rahman Khan, Dr. Mohd. Waris Khan	Data Processing Device For 5G Communication	Published	National
Vishal Agarwal et al.	A Machine Learning-Driven Wearable Sensor Monitoring and Classification based Personalised Healthcare System	Published	National
Dr. Tasneem Ahmed, Prof. Mohammad Faisal, Dr. Halima Sadia	Automated Device for Early Detection of Tomato Disease	Granted	National
Abida Khanam & Dr. Md. Faizan Farooqui	Block Chain-Based Framework Optimized with Genetic Algorithms for Secure Electronic Health Records	Published	National
Dr. Arshad Ali et al.	IoT Based Video Surveillance for Smart Healthcare	Published	National
Dr. Farooq Ahmad et al.	AI-Based Rover For Pesticides Spraying	Published	National

Dr. Farooq Ahmad et al.	AI-Enhanced Cloud Security Dashboard Device	Published	National
Dr. Farooq Ahmad et al.	Dynamic Resource Allocation in Cloud Computing using Reinforcement Learning	Published	National
Dr. Mirza Ghazanfar Beg et al.	Unified Predictive Epidemic Model: Integrating Unsupervised and Supervised Learning Methods	Published	National
Prof. Mohammad Faisal et al.	Method and System for Dynamic IoT Network Configuration Using Machine Learning Algorithms	Published	National
Dr. Bably Dolly et al.	Sensor-Based Robotic Display for Interactive Marketing	Granted	International
Motashim Rasool et al.	Integrated Cloud – Based System for Educational Resource Management and Delivery	Published	National



PUBLISHED BOOKS

We proudly celebrate the books published by our faculty members, which reflect excellence, innovation, and dedication. Their achievements enrich our academic community and contribute significantly to advancing knowledge in their respective fields. We extend our heartfelt congratulations to our distinguished authors for their remarkable accomplishments.

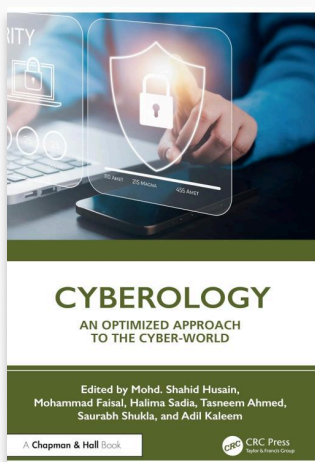


Advances in Science, Engineering and Technology: A Path to the Future

Published by CRC Press

Authored by Tasneem Ahmed, Shrish Bajpai, Mohammad Faisal & Suman Lata Tripathi

This publication is based on a conference that aimed to bring together academicians and industry experts from the fields of science, engineering and information technology to exchange knowledge and ideas on emerging technologies such as Quantum Computing, Video Analytics, Artificial Intelligence, and Machine Learning. The conference particularly highlighted the vital role of Machine Learning in shaping the future of science and industry.

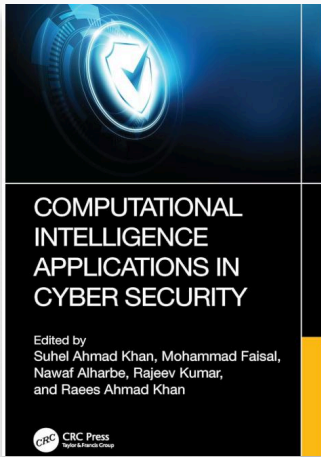


Cyberology: An optimized approach to the Cyber-World

Published by Chapman & Hall

Edited by Mohd. Shahid Husain, Mohammad Faisal, Halima Sadia, Tasneem Ahmed, Saurabh Shukla, & Adil Kaleem

This book explores the key principles of cybersecurity, major threats across various sectors, and the challenges associated with detection, prevention, and resilience. It provides valuable insights into cybercrime, emerging technologies, and cyber warfare. Designed for students, scholars, and professionals, the book serves as a comprehensive guide to understanding the evolving cyber landscape. It also emphasizes the growing interconnection between technology, security, and society in the digital era.

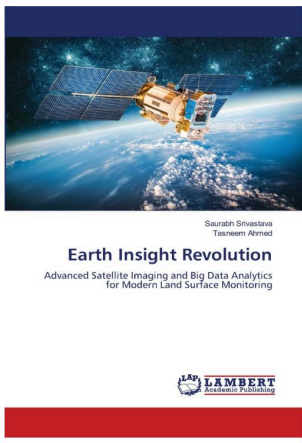


Computational Intelligence Applications in Cyber Security

Published by CRC Press

Authored by By Suhel Ahmad Khan, Mohammad Faisal, Nawaf Alharbe, Rajeev Kumar & Raees Ahmad Khan

This book provides a comprehensive overview of cyber security in Industry 5.0, data security in emerging technologies, block chain technology, cloud computing security, evolving IoT and OT threats, and considerable data integrity in healthcare. The impact of security risks on various sectors is explored including artificial intelligence in national security, quantum computing for security, and AI-driven cyber security techniques.

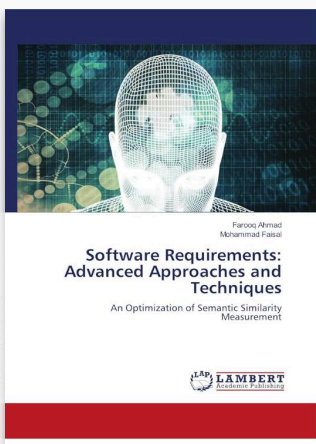


Earth Insight Revolution

Published by LAP LAMBERT Academic Publishing

Edited by Saurabh Srivastava & Tasneem Ahmed

A concise guide to leveraging satellite imagery and big data for environmental monitoring, covering advanced methods like FBIR, deep learning, and change detection with practical insights from Landsat-8 and Sentinel-2. The book bridges theory with real-world applications, making it valuable for both researchers and practitioners.

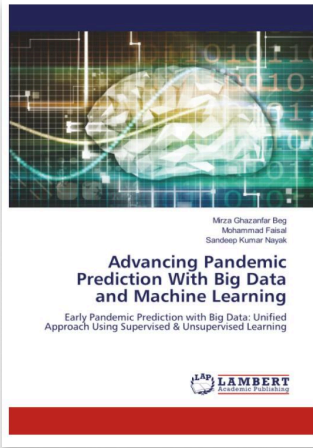


Software Requirements: Advanced Approaches and Techniques

Published by LAP LAMBERT Academic Publishing

Edited by Farooq Ahmad & Mohammad Faisal

This book focuses on enhancing semantic similarity measurement in software requirements documents using NLP, machine learning, and hybrid methods. It introduces a novel framework combining knowledge-based and corpus-based approaches, incorporating lexical databases, word embeddings, corpus statistics, and word order to improve clarity, communication, reusability, and efficiency in software design and implementation.

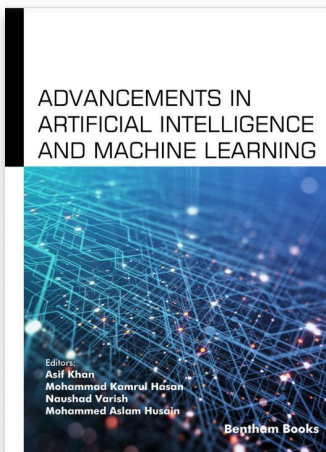


Advancing Pandemic Prediction With Big Data and Machine Learning

Published by LAP LAMBERT Academic Publishing

Edited by Mirza Ghazanfar Beg, Mohammad Faisal & Sandeep Kumar Nayak

This book introduces a prediction technique in big data analytics using both supervised and unsupervised learning, addressing challenges of large, complex datasets while demonstrating its effectiveness across domains. It highlights the potential of these techniques to extract patterns, make accurate predictions, and enable data-driven decisions that foster innovation, efficiency, and success.

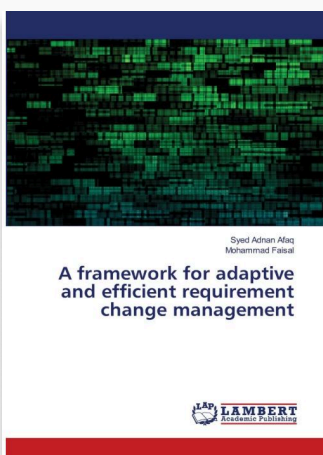


Advancements in Artificial Intelligence and Machine Learning

Published by BENTHAM BOOKS

Edited by Asif Khan, Mohammad Kamrul Hasan, Naushad Varish & Mohammed Aslam Husain

This book explores the latest developments, applications, and challenges in AI and ML through twelve chapters, covering topics from Next-Gen Mechatronics and energy systems to digital communication, security, social media management, and AI-driven human detection, offering both research insights and real-world implementations.



A Framework for Adaptive and Efficient Requirement Change Management

Published by LAP LAMBERT Academic Publishing

Edited by Syed Adnan Afaq & Mohammad Faisal

This book explores the causes and impacts of requirement changes in software projects and introduces a structured framework for managing them early in development. It helps developers, project managers, and engineers ensure adaptability, reduce disruptions, and effectively navigate requirement change management.



Arshad Ali
Mohammed Faizan Farooqui

Complete Guide to Multi-Agent Systems

A Multiagent Knowledge Based Framework in Web Mining



Complete Guide to Multi-Agent Systems

Published by LAP LAMBERT Academic Publishing

Edited by Arshad Ali & Mohammad Faizan Farooqui

This book analyzes and designs a knowledge-based framework for multi-agent systems in web mining, addressing the challenges of extracting, integrating, and managing complex web information. It examines web mining techniques, explores the role of multi-agent systems, and proposes a distributed, collaborative architecture to enhance efficiency and knowledge utilization. It also emphasizes the importance of scalability and adaptability in handling the dynamic nature of web data.



Harish Chandra Verma
Tasneem Ahmed

Satellite Images Based Mango Crop Monitoring in Uttar Pradesh, India

Mango Crop Monitoring Algorithms



Satellite Images Based Mango Crop Monitoring in Uttar Pradesh, India

Published by LAP LAMBERT Academic Publishing

Edited by Harish Chandra Verma & Tasneem Ahmed

This book explores the use of satellite imagery for monitoring mango cultivation in Uttar Pradesh, enhancing crop management, decision-making, and resource optimization. It addresses cultivation challenges, socio-economic impacts, and proposes monitoring algorithms, serving as a valuable resource for researchers, policymakers, and students in precision agriculture and sustainable farming.



30TH SEP – 12TH NOV 2024

DATA STRUCTURES AND ADVANCED C PROGRAMMING

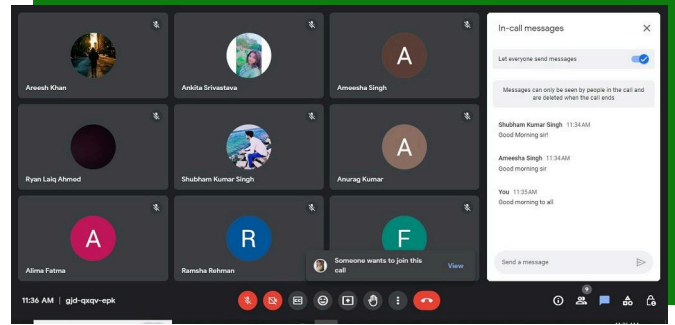
IN ASSOCIATION WITH

Integral University Center
for Advanced Training
Integral University,
Lucknow

VALUE ADDED COURSE

CAV-24-02

COMPREHENSIVE COVERAGE OF DATA STRUCTURES AND ALGORITHMIC TECHNIQUES

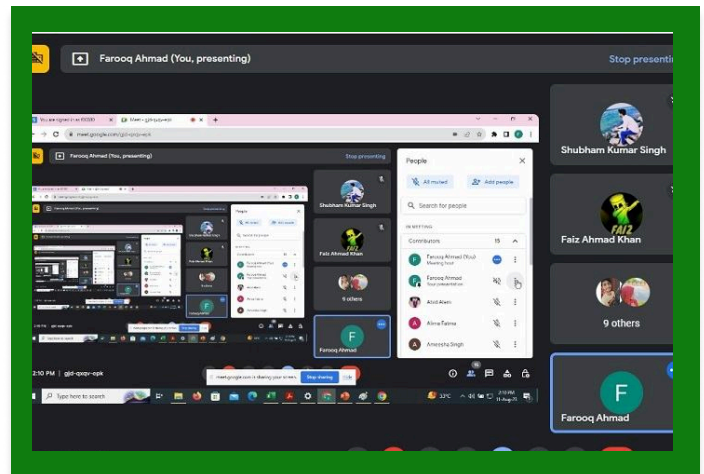


- » **Course Content:** Covered pointers, strings, memory management, arrays, linked lists, stacks, queues, trees, searching and sorting techniques.
- » **Practical Learning & Assessment:** Included hands-on coding exercises, followed by an online quiz and feedback session.
- » **Completion & Certification:** Majority students successfully completed the course and received e-certificates based on attendance, assignments and quiz performance.

SUCCESSFUL COMPLETION OF VALUE ADDED COURSE ON ADVANCED C PROGRAMMING

The Department of Computer Application, in collaboration with IUCAT, conducted an online Value-Added Course (CAV-24-02) on "Data Structure using Advanced C Programming" from 30th September to 12th November 2024.

The course, delivered through the IIT platform, engaged **462 registered students** from various branches with **30 hours** of structured learning. **Course sessions** were conducted in the evening, Monday to Thursday, by **Ms. Fiza Afreen, Dr. Nadiya Parveen and Ms. Fareen**, all **Assistant Professors** from the Department of Computer Application.

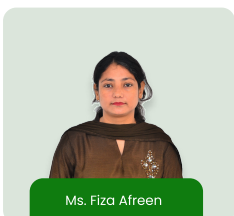


ENHANCING INDUSTRY READINESS AND EMPLOYABILITY THROUGH PRACTICAL LEARNING

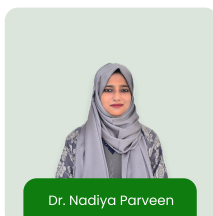
Core Benefits: Strengthened programming foundations and enhanced problem-solving skills.

Industry Exposure: Improved technical knowledge and employability by introducing industry practices.

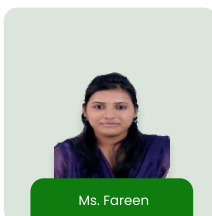
Coordination & Guidance: Coordinated by Dr. Farooq Ahmad.



Ms. Fiza Afreen



Dr. Nadiya Parveen



Ms. Fareen

21ST JAN - 28TH FEB 2025

OPERATING SYSTEM ALGORITHMS WITH UNIX COMMANDS

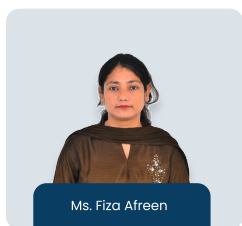


VALUE ADDED COURSE

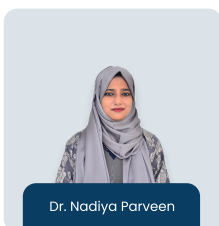
CAV-25-02

SUCCESSFUL COMPLETION OF VALUE-ADDED COURSE ON OPERATING SYSTEM ALGORITHMS WITH UNIX COMMANDS

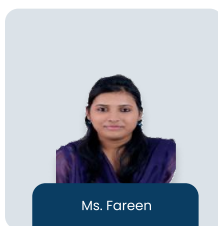
The Department of Computer Application, in association with the Integral University Center for Advanced Training, successfully conducted a Value-Added Course (CAV-25-02) on "Operating System Algorithms with UNIX Commands" from 21st January to 28th February 2025. The course was held online via Google Classroom with evening sessions from Monday to Thursday. A total of **212 students** registered, and 108 participants successfully completed the course, earning **e-certificates based on attendance, assignments, quizzes, and feedback submission**



Ms. Fizza Afreen

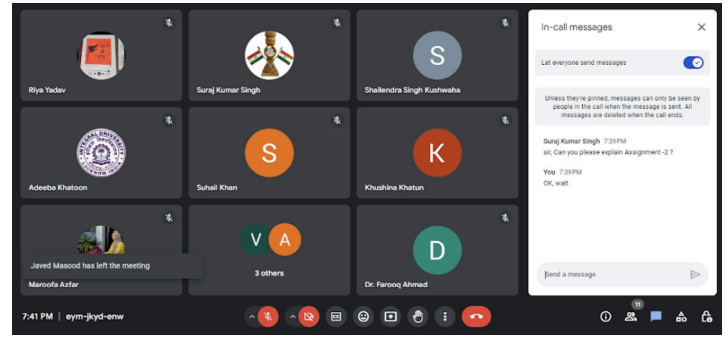


Dr. Nadiya Parveen

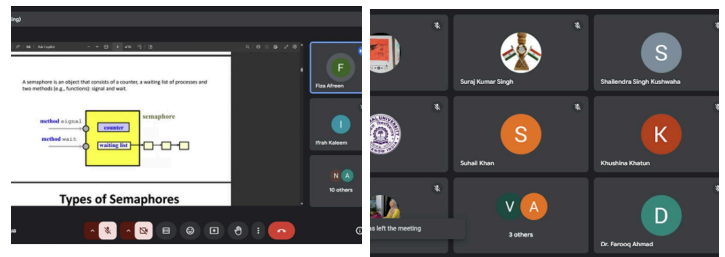


Ms. Fareen

HIGHLIGHTS



- » Four-week program with **30 hours** of **active engagement**.
- » Modules covered: Process Management, Memory Management, File Systems, Scheduling, and **Inter-Process Communication**.
- » Hands-on training with **UNIX commands like ps, top, grep, awk, sed, and system calls (fork(), exec(), wait(), etc.)**.
- » Participants included students from BCA, B.Tech, B.Sc., MBA, MCA, and other diverse programs.
- » Conducted by **Ms. Fizza Afreen, Dr. Nadiya Parveen, and Ms. Fareen** under the coordination of **Dr. Ferooz Ahmad**



CONCLUSION

The course provided students with strong theoretical knowledge of operating system algorithms along with **practical UNIX command proficiency**. It bridged classroom learning with industry-oriented exposure, improving analytical and problem-solving skills while enhancing employability. **Through structured sessions, self-learning materials, discussions and assessments.**



QUIZZES

●●● QUIZ

1. _____

A _____

B _____

C _____

D _____

2. _____

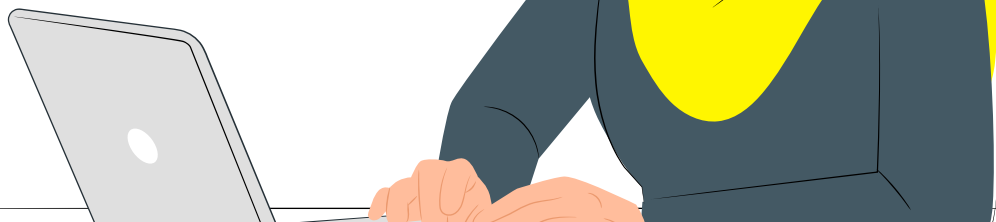
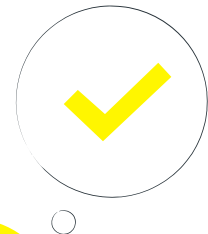
A _____

B _____

C _____

D _____

NEXT >





MINDQUEST

A Two-Day Event 8-9th October 2024

ABOUT

The Department of Computer Application, Integral University, organized an aptitude exam titled **MindQuest**, by the Career and Professional Development Committee. A **dynamic and engaging event designed to challenge students' intellectual capabilities and foster a sense of academic and professional growth.** The event, divided into two comprehensive modules, witnessed an overwhelming response and created an atmosphere of excitement and enthusiasm among participants.



HIGHLIGHTS

The event brought together **274+ registered participants, all eager to showcase their skills and knowledge.** The air buzzed with energy and anticipation as students tackled challenges and enjoyed moments of camaraderie throughout the day.

COMPETITION ROUNDS

● ROUND 1

Assessed aptitude and reasoning, highlighting participants' focus.

● ROUND 2

Tested core subject knowledge through intense output-based assessments.

WINNERS

195 Participants - 3 Winners

- 🥇 **Shafeeq Siddique** (BCA 2nd Year)
- 🥈 **Naved Ahmad** (BCA 2nd Year)
- 🥉 **Kshitij Singh** (BCA 3rd Year)



Gender Equity

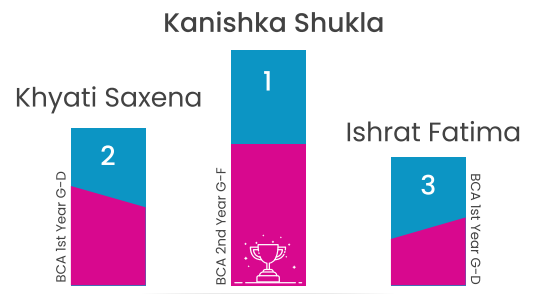
Essay Competition & Online Quiz

EVENT OVERVIEW

The Department of Computer Application organized an **Essay Writing & Online Quiz** Competition on 11th November 2024, to **promote gender equality** and enhance students' thinking and writing skills. The theme was "**DigitALL: Innovation and Technology**," with 71 participants from various courses.



WINNERS



CONCLUSION

The event was a resounding success, with enthusiastic participation and creative responses. **Certificates were awarded to all participants.** Congratulations to all!



OBJECTIVE

- Promote **gender equality** and **awareness** about equal treatment through engaging activities.
- Encourage students to enhance thinking and writing skills on **contemporary topics**.



6TH MARCH 2025

CLOUD QUEST

IN COLLABORATION WITH
42Peaks Pvt. Ltd.

EVENT OVERVIEW

The Department of Computer Application at Integral University, in collaboration with **42Peaks Pvt. Ltd.**, successfully organized **Cloud Quest**, a cloud computing quiz competition on 6th March 2025. The event aimed to assess and enhance students' understanding of key cloud technologies, attracting enthusiastic participants from **B.Tech CSE, BCA, MCA and B.Sc. Mathematics** programs.



QUIZ HIGHLIGHTS

The competition covered vital cloud concepts including:

- **Service Models:** IaaS, PaaS, SaaS
- **Deployment Models:** Public, Private, Hybrid
- **Cloud Architecture, Security and Applications**

Structured across multiple rounds, the quiz tested both conceptual clarity and practical awareness, with over **65 students participating** and showcasing excellent competitive spirit.

PRIZE DISTRIBUTION & GUESTS

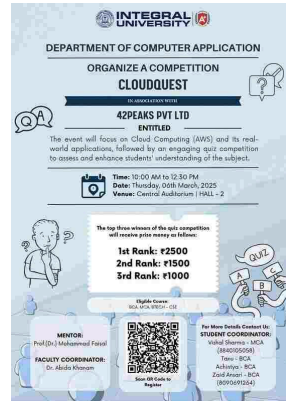
The **Prize Distribution Ceremony** took place on **17th April 2025** in **Central Auditorium, Hall-3**, graced by:

- **Mr. Shreyansh Pandey**, CEO & Founder, 42Peaks Pvt. Ltd.
- **Mr. Mohd Shafiq**, Head of Sales & Marketing—EdTech

Winners:

- 🥇 **Zeeshan Khan** (BCA 2nd Year) – ₹2500
- 🥈 **Mirza Ishaan Beg** (BCA 1st Year) – ₹1500
- 🥉 **Syed Adeb** (BCA 2nd Year) – ₹1000

All participants received **certificates of participation** as a token of appreciation.



ACKNOWLEDGMENT & COORDINATION

The success of **CloudQuest** was made possible by the dedicated efforts of:

- **Faculty Coordinator:** Dr. Abida Khanam
- **Student Coordinators:** Vishal Sharma (MCA 2nd Year), Tanu, Achintya, and Zaid Ansari (BCA 1st Year)

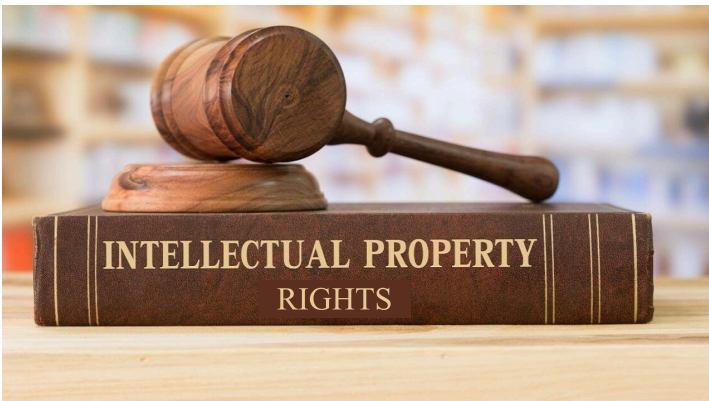
Their commitment ensured the event was engaging, well-organized and a valuable experience for all involved.

ONLINE QUIZ ON

IPR AWARENESS IN ACADEMIC INSTITUTION

EVENT OVERVIEW

An online quiz competition on **Intellectual Property Rights (IPR)** was successfully organized on 10 March 2025 to raise awareness among **students, faculty members and research scholars** from various academic disciplines. The event aimed to educate participants about the fundamental concepts of **patents, copyrights and trademarks**, highlighting their critical role in promoting innovation, protecting creative work and maintaining research integrity within academic institutions. This initiative helped emphasize the **significance of IPR in fostering a culture of ethical research and intellectual property protection.**



HIGHLIGHTS

- Total Registrations: **138**
- Participants: **76**
- Quiz Format: **30** multiple-choice questions
- Duration: **60** minutes
- Topics Covered: Key IPR concepts, legal frameworks, and relevant case studies, participants demonstrated enthusiasm and good knowledge, actively engaging with the quiz content.

WINNERS

Congratulations to all the winners for their excellent performance and strong knowledge of Intellectual Property Rights.

- **1st Position:** Irshad Alam (Pharmacy)
 - **2nd Position:** Sarika Chaurasiya and Wazir Khan (Computer Application)
 - **3rd Position:** Salamatu Tijjani Isah (Bio Science)
- E-certificates were awarded to all winners.



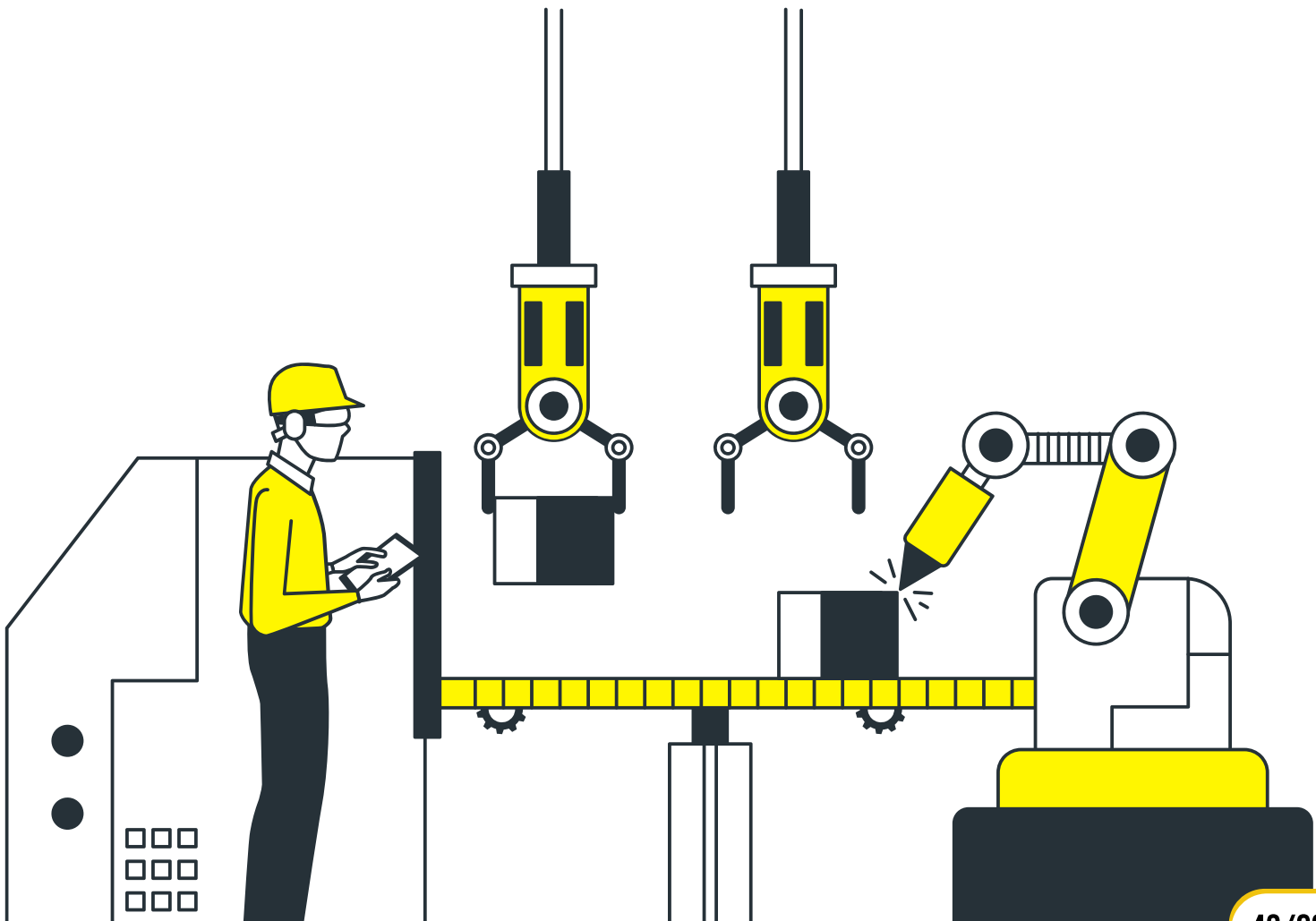
EVENT MANAGEMENT & OUTCOME

The event was well received, with participants valuing the chance to enhance their understanding of IPR. It is successfully promoted ethical research practices and innovation within the academic community. The competition was efficiently managed by faculty coordinators **Dr. Mohd. Amir Ansari** (Electronics & Communication Engineering) and **Mr. Vishal Agarwal** (Computer Application).



INDUSTRIAL

visits &
Extension Activities



INDUSTRIAL VISIT

IN ASSOCIATION WITH SOFTPRO INDIA

EVENT OVERVIEW

The Department of Computer Application, Integral University organized an **Industrial Visit for MCA & BCA final-year students to Softpro India Pvt. Ltd.**, Gomti Nagar, Lucknow on 5th February 2025. The visit aimed to offer students **real-world exposure to IT industry workflows, technologies and professional practices.**



VISIT HIGHLIGHTS

- **Welcome session by CEO Ms. Yashi Asthana**, discussing company vision and innovation in IT.
- **Facility tour** showcasing company operations, work culture, and development processes.
- **Tech sessions on Agile, Scrum, AI, ML, cloud solutions, and blockchain.**
- Insights into **real-world software project management and technology applications.**
- **Interactive Q&A session** with IT professionals addressing industry trends and career advice.

MOMENTS & MEMORIES

The industrial visit witnessed enthusiastic participation from the students of the Integral University. They actively engaged in interactive sessions, technology demonstrations and insightful discussions with industry professionals. The day concluded with a **group photograph and memorable snapshots**, capturing the vibrant learning environment. To acknowledge their participation, **certificates were awarded to all students**, making the visit both educational and memorable.



KEY TAKEAWAYS

- Gained **practical industry insights beyond classroom learning.**
- Understood **modern IT workflows and latest technologies.**
- Encouraged students to **pursue dynamic, tech-driven career paths.**

EXTENSION ACTIVITY ON CYBER FRAUDS AWARENESS PROGRAM

UNDER THE INITIATIVE OF

DIGITAL SAKSHARTA ABHIYAAN

17TH APRIL 2025

EVENT OVERVIEW

On April 17, 2025, the Department of Computer Application at Integral University organized a Cyber Fraud Awareness Program. This extension activity was conducted under the initiative of the "Digital Saksharta Abhiyaan". The program's objective was to educate the academic community and the general public about cyber fraud. The event took place at the **Government Basic School** in Basaha, which is the adopted village of Integral University



PROGRAM HIGHLIGHTS AND COORDINATION

Brief sessions on "Cyber Frauds and Cyber Security" were conducted by the students of BCA. The students also interacted with the school's students and teachers to make them aware of different types of cyber frauds prevalent today. The session saw enthusiastic participation and was coordinated by Dr. Mohd. Suhaib Kidwai, Dr. Qazi Saeed Ahmad, Mr. Safikur Rahman Khan and Mr. Sumit Yadav

OBJECTIVES OF THE ACTIVITY

The activity had several objectives:

- To provide students with a foundational understanding of cyber security, including common threats, vulnerabilities, and best practices.
- To raise awareness about various types of cybercrimes such as identity theft, phishing, and online fraud.
- To promote responsible and ethical behavior in digital spaces and encourage good cybersecurity hygiene.
- To inform students about the risks associated with poorly secured applications and data misuse.



XVI CONVOCATION



Honouring Doctoral Scholars - CA Department





Fiesta



EVENTS



Fiesta #2025 HIGHLIGHTS





Fiesta 2k25 ACCOLADE



BEST SINGING BAND

Mohd Mubasshir Khan
MCA 2nd Year
Shubhangam Jung
Sijapati
BCA 3rd Year
Mbonimpa Julio James
BCA 3rd Year



INNOVATE | TECH-EVENT

Mohd Maaz - MCA 2nd Year
Shama Jamal - BCA 2nd Year



GRAPPLE OF NOMADS

Mohd Mubasshir Khan
MCA 2nd Year
Mbonimpa Julio James
BCA 3rd Year
Shubhangam Jung
Sijapati
BCA 3rd Year



BGMI TOURNAMENT

Md Sameer Ansari
BCA 2nd Year



QAWWALI

Nikita Singh Budhathoki
BCA 3rd Year





MUSIC



High Note Music Society



Mohd Mubassir Khan

- MCA 2nd Year

Shubhangam Jung

Sijapati

- BCA 3rd Year

Mbonimpa Julio James

- BCA 3rd Year

Sidra Siddique

- BCA 3rd Year



SWACHH VIBHAG PURASKAR 2024



Prof. Mohammad Faisal, Head, Department of Computer Application, was felicitated with the Swachh Vibhag Puraskar Award by the Honorable Chancellor Sir.

BEST INNOVATOR AWARD

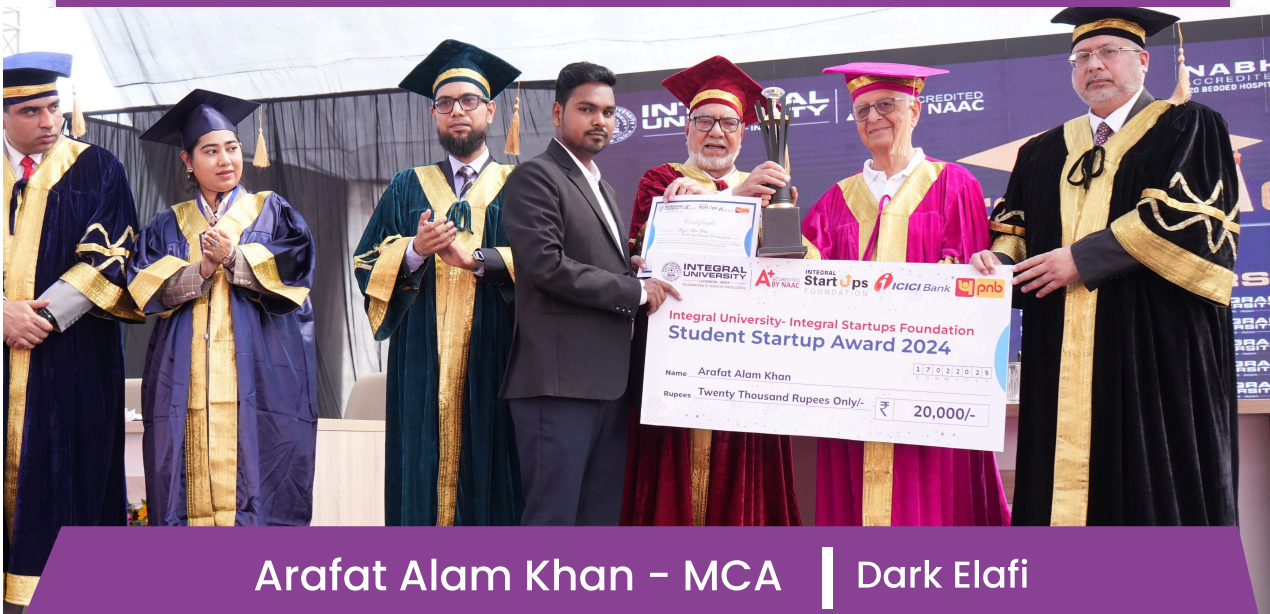
2024



Dr. Asif Khan – Assistant Professor

ISF STARTUP AWARD

2024



Arafat Alam Khan – MCA | Dark Elafi



achievements in
SPORTS





BCA 3rd Year — 31/01/2025

Ice Stock Sport Event Kashmir



MCA & BCA — 05/10/2024

Kabaddi at IIT Kanpur



MCA & BCA — 22/02/2025

Students Participated in University Annual Cricket Sports Activity



Zaid Ahmad

BCA 3rd year — 19/02/2025

Chess Champion



BCA 2nd Year — 28/2/2025 - 3/03/2025

Basketball (Zonal Level) played at Guwahati



MCA 2nd Year — 19/02/2025

Tennis Sports Event



Rizwan Farooqi

BCA 2nd year — 19/02/2025

8 Ball Pool Champion

Squid Game Sports Event



BCA 2nd Year — 19/02/2025

TOP PLACED



BCA 2024
DANIYA KHAN



BCA 2024
FARAZ RASOOL



BCA 2024
ABHAY SINGH



BCA 2024
MOHD SAAD AHMAD



BCA 2024
MOHD HAMZA BEG



BCA 2025
SHRUTI GUPTA



BCA 2025
ANJALI SINHA



BCA 2025
KULDEEP



BCA 2025
KSHITIZ



MCA 2024
FARHAN KHAN



MCA 2024
MOHD MUSTAFA TAQI



MCA 2024
ANIKET SINGH



BCA 2025
AYUSH MISHRA



BCA 2025
SIDRA SIDDIQUE



MCA 2024
HARSHITA KHARE



CYBER BULLETIN

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Click the button above to view or download the full Cyber Bulletin.
or visit

<https://zenodo.org/records/14639708>



The monthly magazine titled "Cyber Bulletin" under the aegis of Cyber Sakchharta Abhiyan. This magazine aims to promote digital literacy and cybersecurity awareness among students. It serves as a platform to share insights, updates, and best practices in the digital safety domain.



Tech Dose

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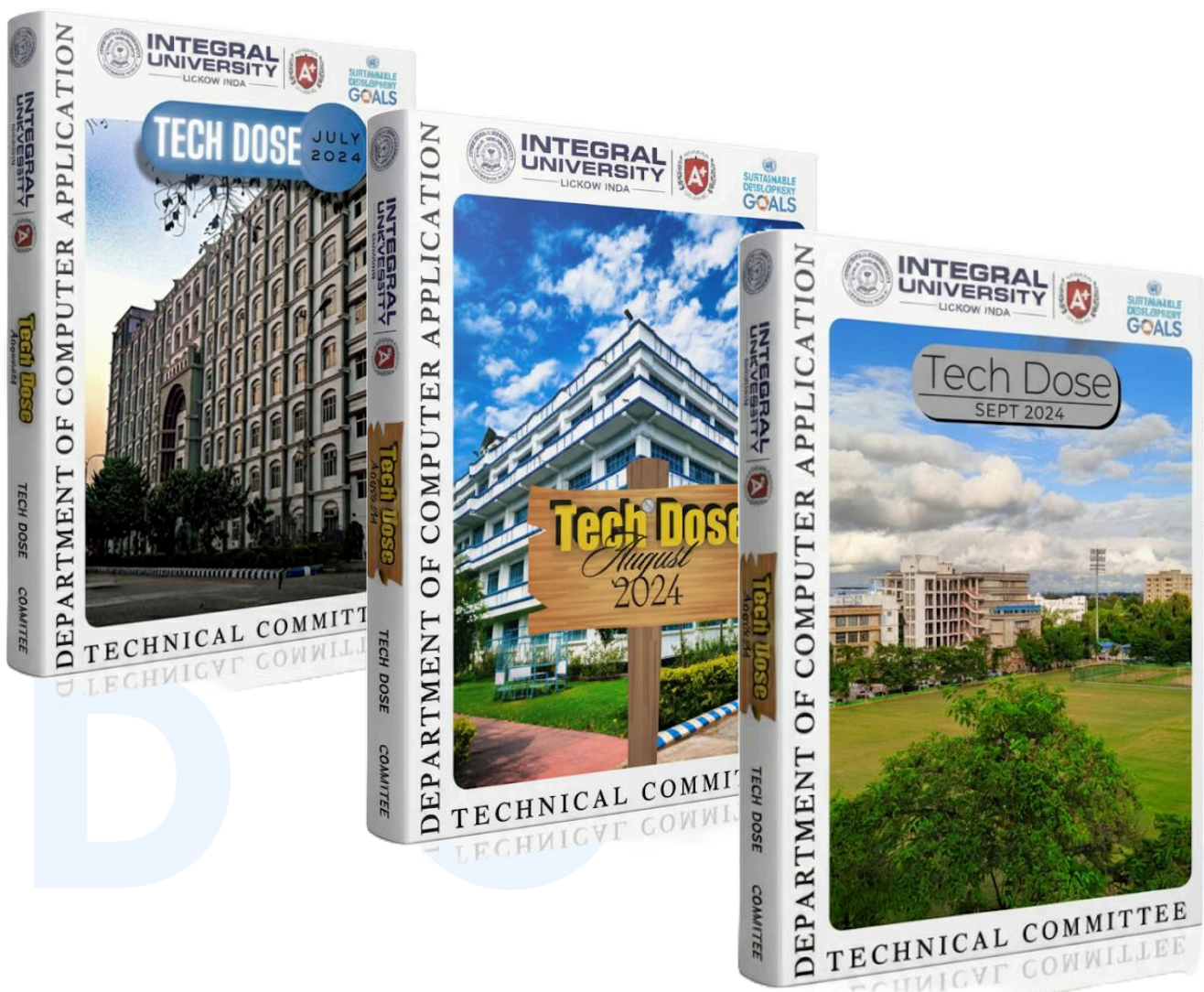


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Tech-Dose is a monthly magazine designed to keep readers updated with the latest trends and innovations in the world of technology. It covers a wide spectrum of topics including artificial intelligence, machine learning, software development, digital transformation, cybersecurity, gadgets and futuristic research. Each edition brings insightful articles, expert opinions, case studies and news highlights that cater to both tech enthusiasts and professionals.



Research Bulletin

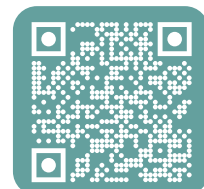


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The Research Bulletin of the Department of Computer Application is a dedicated publication that highlights the scholarly achievements and research contributions of our faculty and scholars. It showcases innovative work in artificial intelligence, cybersecurity, data science and other emerging technologies, reflecting our department's commitment to academic excellence and continuous advancement.

The 2024 edition, along with Volume 2, Issue 1 (January–June 2025), presents significant research milestones, breakthrough studies, and forward-thinking developments. Each issue emphasizes our pursuit of innovation while acknowledging the invaluable support of our researchers and university leadership in fostering a culture of excellence and future-ready progress.



SCHOLARS SCOPE

[View Scholars Scope](#)

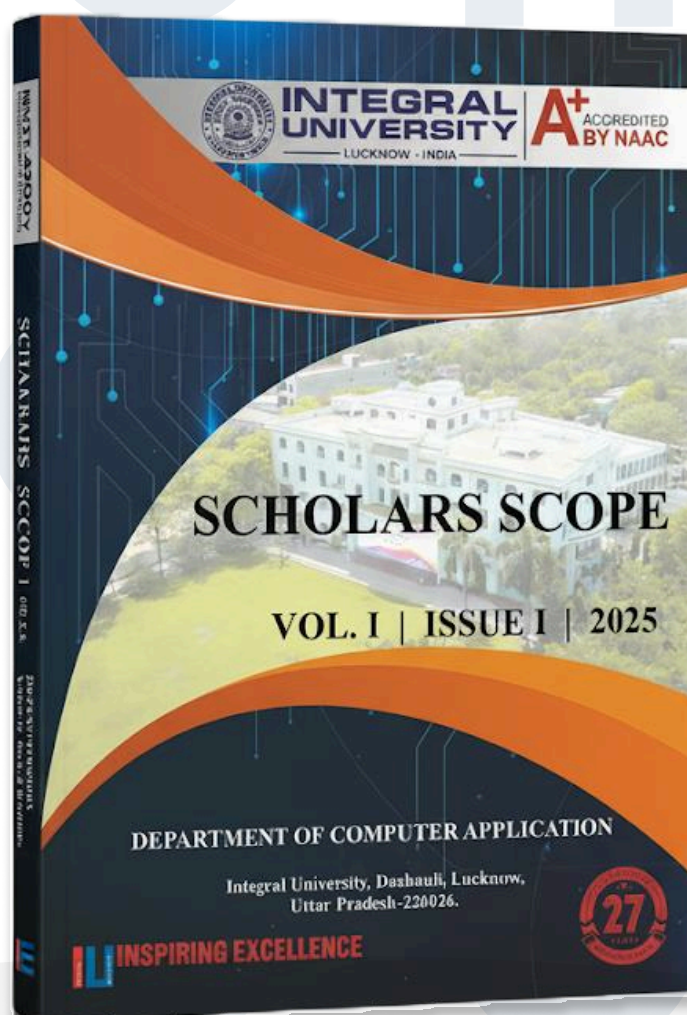


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Scholar Scope stands as a reflection of the commitment and scholarly efforts of our Ph.D. researchers, showcasing both those who have successfully completed their work and those pursuing innovative studies in diverse areas of Computer Science and Application.



MCA> STUDENTS

our final year
STUDENTS

2nd YEAR



BCA > STUDENTS

our final year STUDENTS

3rd YEAR



DESIGNED BY



Hammad Bin Tayyab

M.C.A 1st Year Group-A

This newsletter showcases our department's achievements, innovative projects and the collaborative spirit that defines us. From student successes to industry partnerships, it reflects our commitment to growth and excellence.

I am sincerely grateful to my mentor, Dr. Nadiya Parveen, for giving me the opportunity to contribute as a designer. This experience has been both inspiring and enriching, motivating me to continue learning and growing.

Portfolio



or scan



Linkedin



or scan





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LUCKNOW - INDIA

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BY NAAC

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MCA 1st Year

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