



COMPLUS

NEWSLETTER



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MCA - (A)

DEPARTMENT OF COMPUTER APPLICATIONS

"TECHNOLOGY IS BEST WHEN IT BRINGS PEOPLE TOGETHER"



DEPARTMENT OF COMPUTER APPLICATIONS

ABOUT THE DEPARTMENT

Department of Computer Applications 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 650 students are enrolled with 21 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

- Bachelor of Computer Applications (BCA),
- BCA Specialization (Cybersecurity / Data Science)
- BCA Honors (Software Product Engineering)
- Master of Computer Applications (MCA)
- Ph. D. (Computer Science)





MESSAGE FROM THE HEAD OF COMPUTER APPLICATION 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

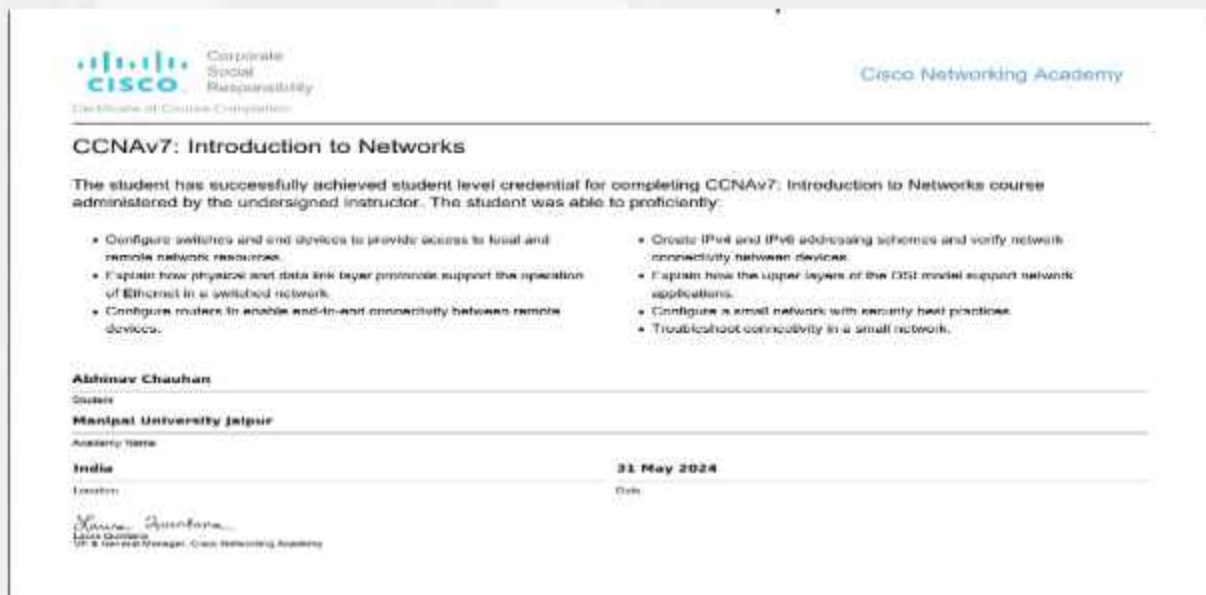
Associate Professor & Head,
Department of Computer Applications
Manipal University Jaipur



DEPARTMENT OF COMPUTER APPLICATIONS

STUDENT'S ACHIEVEMENTS

Abhinav Chouhan of BCA has successfully achieved student level credential for completing CCNAv7 “Introduction to Network Course” and “Introduction to Cyber Security” from CISCO Networking Academy in May 2024





DEPARTMENT OF COMPUTER APPLICATIONS

STUDENT'S ACHIEVEMENT

Roshmeet Chakravarti of BCA IV semester has been selected as a Junior Research Intern(JRI) at the Defense Research and Development Organization (DRDO) Ministry of Defense , Government of India after five round of intensive selection process

Goutam Sambhlani and Preeti Guwalani Students of BCA VI Sem , Department of Computer applications have developed an IoT-based Project on SMART Helmet System.



आग, विस्फोटक और पर्यावरण सुरक्षा केंद्र

Center for Fire, Explosive and Environment Safety (CFEES)

New Delhi, Brig SK Mazumdar Marg, Timarpur, Delhi, 110054

PHONE: 26384095/26384096 Fax: 26291674/26291676

Email: cfees@drdo.gov.in

एत अङ्गुशुत एत लिखत अङ्गुशुत, एत अङ्गुशुत, अङ्गुशुत अङ्गुशुत, defence Research and Development Organization, Ministry of Defence, Government of India

8th April, 2024

Roshmeet Chakravarti
Manipal University Jaipur
Dahmi Kalan, Bagru 303007

Subject: Onboarding Confirmation at DRDO

Dear Roshmeet,

We are pleased to extend our warmest congratulations on your successful selection as a Junior Research Intern (JRI) at the Defence Research and Development Organization (DRDO) after 5 rounds of intensive selection process. We are confident that your skills and program expertise will greatly contribute to our ongoing research endeavors in the field of computational integration in ordinance development.

As per our previous discussions and in accordance with the terms outlined during your interview, your initial tenure will commence on 20th June 2024 and will span a period of 6 weeks, with the possibility of extension based on performance and recommendations from the Internal Screening Committee. Your role as a Junior Research Intern will involve active participation in various research projects aimed at modernizing our defence systems. We trust that your dedication and innovative thinking will yield significant contributions to our organization's objectives.

Please find enclosed the necessary documentation pertaining to your appointment, including your appointment letter, terms and conditions of internship, and relevant policies and procedures. Kindly review these documents carefully and sign where indicated to signify your acceptance.

Additionally, we would like to remind you of the strict confidentiality requirements associated with your role at DRDO. All discussions, research developments, and information pertaining to our projects must remain strictly confidential. Any breach of this confidentiality will result in severe consequences, including potential termination of tenure and legal action. Once again, congratulations on your appointment, and we eagerly anticipate your joining our esteemed organization.

Yours sincerely,

Maj. Gen. Dr. Arvind Kumar
Director, CFEES
Defence Research and Development Organization (DRDO), India





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RAMSACT-2024

AN INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN MATERIALS SCIENCE AND COMPUTATIONAL TECHNIQUES (RAMSACT-2024)

Department of Computer Application, Manipal University Jaipur in collaboration with the Faculty of Science and the Department of Biotechnology & Chemical Engineering, organized the 4th International Conference on "Recent Advances in Material Science and Computational Techniques (RAMSACT 2024)". It was a great opportunity to delve into groundbreaking research and innovations. MUJ was honoured to have **Dr. (Mrs.) N. Kalaiselvi**, Director General of CSIR & Secretary of DSIR, as its esteemed Chief Guest or the inaugural session.



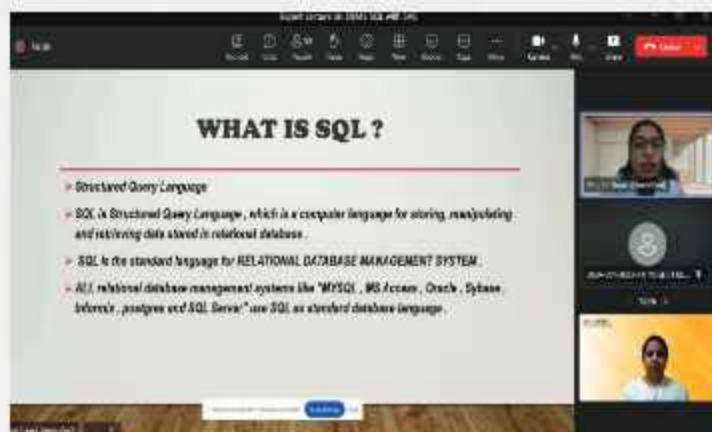
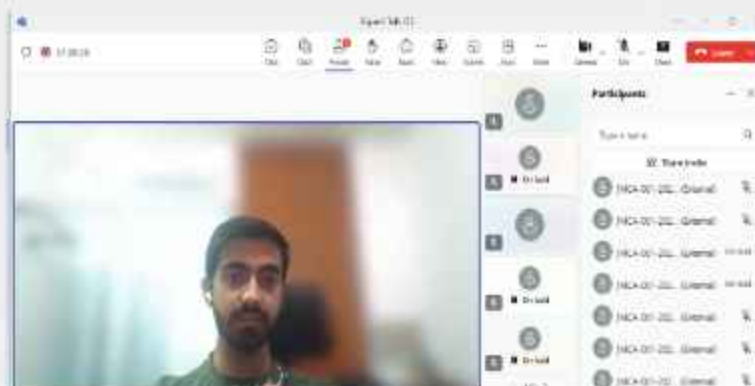
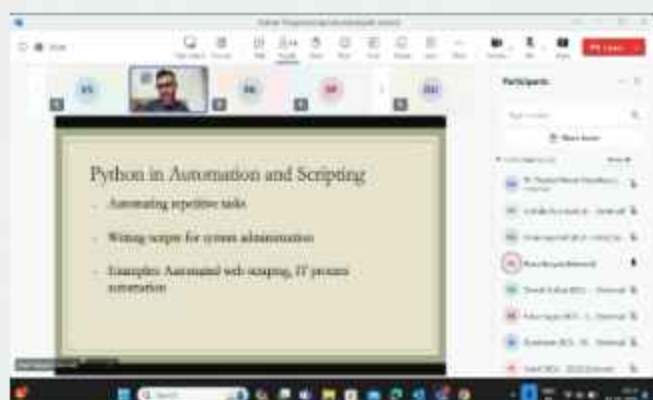


DEPARTMENT OF COMPUTER APPLICATIONS

INDUSTRIAL EXPERT TALK

Department of Computer Applications in association with Directorate of E- cell and Atal Incubation Centre Manipal University Jaipur organized Expert talk on “Application Areas of Python Programming” May 18, 2024.

On May 18, 2024, the Department of Computer Applications at Manipal University Jaipur hosted an insightful online expert lecture titled "Database SQL with System Analytics Software." This session was designed to provide students with practical knowledge in database management and its integration with system analytics software. The lecture was facilitated by Pragati Tiwari, Tata Consultancy Services Indore.





DEPARTMENT OF COMPUTER APPLICATIONS

EXPERT/GUEST LECTURES

Department of Computer Applications, Manipal University Jaipur organized Expert talk on “How to Build & Launch Software Products”, 05 April 2024. This expert talk was organized in physical mode in Dr. TMA Pai Auditorium. This event was opened for faculty, research scholar and students of MUJ. The prime objective of this expert talk was to provide attendees with a solid foundation for building and launching successful software products, addressing both the technical and strategic aspects of the process. The resource persons were, Mr. Shailesh Goswami, Founder & CEO, Foyr-USA.



Department of Computer Applications organizes
Industry Expert Talk

“How to Build & Launch Software Products”

April 5,
2024

11:00-1:00

Venue: Dr. TMA PAI Auditorium, 2 AB



Invited Speaker

**Mr. Shailesh
Goswami**

Founder & CEO, Foyr LLC, USA

Convener

Dr. Devershi Pallavi Bhatt





DEPARTMENT OF COMPUTER APPLICATIONS

RESEARCH PAPER PUBLICATION/PRESENTATION

The Department of Computer Applications takes pride in the significant volume of research output from our faculty members. They have contributed numerous research papers, book chapters, and review articles to prestigious Scopus indexed journals, IEEE Access, Springer conference proceedings, and books. These publications reflect the dedication and expertise of our faculty in advancing knowledge and innovation in the field of computer.

S. No.	MUJ Categorization	Title	Title Of Book/ Chapter Published	Name Of Publisher	Author Name	Scopus Indexed	Month & Year Of Publication
1	Edited Book	Applications, Challenges, and The Future Of Chatgpt	Applications, Challenges, And The Future Of Chatgpt	IGI Global	Dr. Monika Jyotiyana MUJ1691	Scopus	June 2024
2	Conference Proceeding	Virtual Illusions: Unleashing Deepfake Expertise For Enhanced Visual Effects In Film Production	11th International Conference On Reliability, Infocom Technologies And Optimization	IEEE	Dr Govind Murari Upadhyay	IEEE Xplore	May 2024
3	Conference Paper	Unmasking Deepfakes: Understanding The Technology, Risks, And Countermeasures	2024 4th International Conference On Innovative Practices In Technology And Management	IEEE	Dr Govind Murari Upadhyay	IEEE Xplore	June 2024
4	Journal Article	Data Security Challenges And Its Solutions In Cloud Computing Through Quantum Resistant Advanced Encryption Standards	Journal Of Discrete Mathematical Sciences And Cryptography		Dr Govind Murari Upadhyay, Dr. Pramod Soni	Q1(top 10-24) Scopus	June 2024
5	Journal Article	Dais: Deep Artificial Immune System For Intrusion Detection In Iot Ecosystems	International Journal Of Bio-Inspired Computation		Dr Devershi Pallavi Bhatt, Dr Narendra Singh Yadav/	Q1(top 10-24) Scopus	April 2024
6	Journal Article	Developing A Novel Load Balancing Approach For Mitigating Resource Contention In Multi-cloud Environments	Journal Of Electrical Systems		Dr Timothy Malche	Scopus	April 2024
7	Journal Article	Novel Framework For Enhancing Security Of Sdn Based Vpls Architecture	Journal Of Discrete Mathematical Sciences And Cryptography		Mrs. Kuntal Gour, Dr Pradeep Kumar	Scopus Q1	June 2024
8	Journal Article	Blockchain Technology And Internet Of Things (Iot) In Medical And Healthcare Sector: Applications, Challenges, And Future Perspectives	Nanotechnology Perceptions		Dr Rekha Jain/Computer Applications	Scopus Q4	May 2024
9	Journal Article	Detection And Classification Of Tumor Type From Brain Mri Images Using Transfer Learning	Defense Life Science Journal		Dr. Pramod Kumar Soni	Scopus	April 2024
10	Journal Article	Particle Swarm Optimization Model For Hindi Text Summarization	Journal Of Information And Optimization Sciences		Dr. Rekha Jain, Dr. Linesh Raja, Dr. Devershi Pallavi Bhatt	Esci	June 2024
11	Journal Article	Multiple Sclerosis Detection From Brain Mri Images Using Least Squaresvm	Journal Of Information And Optimization Sciences		Dr. Prmod Kumar Soni	Esci	June 2024
12	Journal Article						

DEPARTMENT OF COMPUTER APPLICATIONS

RESEARCH PAPER PUBLICATION/PRESENTATION

S. No.	MUJ Categorization	Title	Title Of Book/ Chapter Published	Name Of Publisher	Author Name	Scopus Indexed	Month & Year Of Publication
1	Edited Book	Applications, Challenges, and The Future Of Chatgpt	Applications, Challenges, And The Future Of Chatgpt	IGI Global	Dr. Monika JyotiYana MUJ1691	Scopus	June 2024
2	Conference Proceeding	Virtual Illusions: Unleashing Deepfake Expertise For Enhanced Visual Effects In Film Production	11th International Conference On Reliability, Infocom Technologies And Optimization	IEEE	Dr Govind Murari Upadhyay	IEEE Xplore	May 2024
3	Conference Paper	Unmasking Deepfakes: Understanding The Technology, Risks, And Countermeasures	2024 4th International Conference On Innovative Practices In Technology And Management	IEEE	Dr Govind Murari Upadhyay	IEEE Xplore	June 2024
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6	Journal Article	Developing A Novel Load Balancing Approach For Mitigating Resource Contention In Multi-cloud Environments	Journal Of Electrical Systems		Dr Timothy Malche	Scopus	April 2024
7	Journal Article	Novel Framework For Enhancing Security Of Sdn Based Vpn Architecture	Journal Of Discrete Mathematical Sciences And Cryptography		Mrs. Kuntal Gour, Dr Pradeep Kumar	Scopus Q1	June 2024
8	Journal Article	Blockchain Technology And Internet Of Things (Iot) In Medical And Healthcare Sector: Applications, Challenges, And Future Perspectives	Nanotechnology Perceptions		Dr Rekha Jain/Computer Applications	Scopus Q4	May 2024
9	Journal Article	Detection And Classification Of Tumor Type From Brain Mri Images Using Transfer Learning	Defense Life Science Journal		Dr. Pramod Kumar Soni	Scopus	April 2024
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12							





DEPARTMENT OF COMPUTER APPLICATIONS

CAREER COUNSELLING 2024

The Department of Computer Applications organized a career counselling session on 24th May 2024. The aim of the event is to counsel students seeking admission to UG and PG programmes in the field of Computer Science and its applications. Opportunities, prerequisites, doubts, and queries associated with the field of computer applications will be discussed via experience sharing and subject matter experts.

MANIPAL UNIVERSITY
JAIPUR
(University under Section 2(f) of the UGC Act)

**CAREER
COUNSELLING
SESSION**

On
Opportunities in

**Computer Applications
(BCA Hons./BCA/MCA)**

Data Science, Cyber Security, Artificial Intelligence,
Internet of Things (IoT), Application Development

By
Department of Computer Applications
School of Basic Sciences, Faculty of Science

In Online Mode

11:00 AM to 12:00 Noon
Friday 24th, May 2024

SCAN THE CODE





INVITED AS GUEST SPEAKERS /KEYNOTES

Dr. Devershi Pallavi Bhatt was also invited as a Chief Guest and delivered a talk on **"AI: BOON OR BANE FOR CYBER SECURITY"** during the valedictory function of the 5-day faculty development program on "Engineering & Research Applications of AI & ML" from 29th April to 3rd May, 2024 at Sri Balaji College of Engineering and Technology (SBCET), Jaipur.





FACULTY ACHIEVEMENTS

Dr. Arpana Sinhal from Department Of Computer Application at Manipal University Jaipur has successfully achieved the HPC Master Trainer Program Certification. The program, jointly organized by AICTE and C-DAC, took place from May 27th to June 7th, 2024, at C-DAC, Pune. This certification highlights Dr. Sinhal's dedication to advancing her expertise in High Performance Computing (HPC) to Students and Researchers.





ADIEU CARNIVAL 2024

On 26th April 2024, the students of BCA 2nd Year and MCA 1st Year from the Department of Computer Applications at Manipal University Jaipur (MUJ) organized a vibrant and memorable farewell party titled "**ADIEU Carnival 2024**" for the graduating final year students. This event was a festive celebration filled with colorful decorations, engaging activities, and heartfelt moments.

The event commenced with a warm welcome address by the organizers, followed by a series of entertaining performances, including music, dance, and skits, showcasing the diverse talents of the students.

A highlight of the carnival was the heartfelt speeches and farewell messages delivered by **Dr. Shilpa Sharma (HoD)** and other faculty members, who extended their best wishes to the final year students. The event was a resounding success, leaving the final year students with cherished memories of their farewell celebration.

The Department of Computer Applications extends its heartfelt congratulations to the graduating students and wishes them all the best in their future endeavors.



