COMPLUS NEWSLETTER



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Department of computer applications

"TECHNOLOGY IS BEST WHEN IT BRINGS PEOPLE TOGETHER"







The Department of Computer Applications at Manipal University Jaipur (MUJ) has always been endeavors for academic excellence with the most advanced curriculum and syllabus. Ever since its inception in 2019, the department has attained unparalleled heights and stands on par quality among its equivalent programs. The Department has proven its academic competence and success with an extensive range of courses offered both at the Undergraduate and Postgraduate levels. Currently 650+ students are studying in department.

The Department of Computer Applications prepares students to design, develop and implement software applications. Department emphasizes on the latest programming languages, cutting edge technologies and tools to make the students ready for the IT Industry. The department aims to become a center of excellence in providing in-depth technical knowledge and opportunities for innovation and research with state-of-the-art computer facilities and is to produce versatile students making them ready to be employed and capable of cross disciplinary collaboration in industry/government sector/higher education/research and development/entrepreneurship. Department offers a flexible curriculum designed to let students to explore their own interests. The curriculum is revamped along with the structured feedback taken from all stakeholders to provide strong foundation to each student. The programme provides students wishing to pursue higher education in India and abroad with significant knowledge background.

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)

VISION

Encourage Academic brilliance, Technical and research skill for leadership and global competence

MISSION

To inculcate experiential technology-intensive knowledge through application, research and Innovation

To educate students with best practices in the domain of computer applications and integrate it with the latest industry needs

To uphold the students in developing the necessary abilities to perform professionally and act with universal values









Dr Devershi Pallavi Bhatt

Professor & Head, Department of Computer Applications Manipal University Jaipur 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







Roshmeet Chakravati of BCA IV sem is selected as Intern MERN Developer in iNeuron Intelligence Pvt Ltd Bangoluru Karanataka.

Roshmeet Chakravati of BCA IV sem has also completed Junier Database Administrative Appenticeship Program at IBM on 8 Jan 2024.



iNeuron Intelligence Pvt Ltd

17th Floor Tower A, Brigade Signature Towers, Sannatammanahalli, Bengaluru, Karnataka -562129.

DATE: 3rd February 2024

Internship on boarding Letter

Dear, Roshmeet Chakraborty.

Comparabilities and a worm welcome to Mounter all Walses tritled to have you on blead as our interm MERM Developer for an exciting project. Your skills and onthrollesm have truly slood out, and we are confident that your contributions will make a eighticient impact on our team.

At Negator, at the Televisian toolering a turbocortice and innovative environment, and see are excited to have you be in plet of our dynamic talent. Your one as an intern MERCI Developed will involve working or outling-edge projects, where your talking for each coding and dedication to excellence with the involvable.

To sick off your journey with us, we have prepared a webcome package filled with acrite cookgits as a police of our appropriation for joining our saum. We hope you empty these goodles, and they serve as a constant reminder of the exching adventure that less alread.

Your start date for remote mock is acted date from 1st March to 6th June 2004, and you'll be reporting to the Roam Princed Mahachwari, your project load during your terrups at this company, if you have any questions or need further carefulcation, own threshale to report out to Mr. Mahachwari all commands their Egordad, incures som

We are confident that your time an Reuron will be a rewarding separance filled with growth, learning, and moreomide active arrest. We took forward to witnessing your staffs in action and working trigother to scheme great success.

Once again, selectine to Neuron: (Ne can't wat to see the incredible contributions you'll make to our learn.



Regarn.

CEO and Chief A) Engineer at Neuron.ai



1 New Orchard Road Armonic, New York 10504-1722 United States

Date: 8th January 2024 Trainer Name: Roshmert Charahody ID: 288C171104

TO WHOMSOEVER IT MAY CONCERN

The latter confirms Nestewest Chakaberty's concentral completion of the Junior Establish Administrator Agricultossis Program at 19th Restricted wined us of 20 June 2023 and considerable retrieved about a profit and automorphism of distriction measurement principles.

Throughout the program, furtherwell effectively managed the popular of data and architectural terrification of over student data, observating conceptually profiting ordering data, and a contribution to contribute to receive over terrification of data and acceptance and observations are distinct machines wouldnesses for procise and unstalling.

We confidently recomment Realment for future room in database administration based on their professionalism, enthusiasm, and dedication to receive inc.

Retrigach.

Leo Raigh. Secur Taken Acquairtea Marager UNI, Amerik, CEA







The Department of Computer Application under the Faculty of Science celebrated National Science Day on February 28, 2024, marking the discovery of the Raman effect by Dr. C. V. Raman in 1928. The theme for this year was "Indigenous Technologies for Viksit Bharat," focusing on sustainability and environmental conservation. Events included a Rangoli Making Competition, Poster Making Competition, Movie Making Competition, Science Model Exhibition, Posters by Research Scholars, Nukkad Natak, and a Quiz Competition. The Poster Making Competition and Nukkad Natak were sponsored by the Bureau of Indian Standards. The event featured a lecture by Chief Guest Professor N Sathyamurthy, Founder Director of IISER Mohali, and INSA distinguished Professor, and welcomed Ms. Kanika Kalia, Director and Head of the Bureau of Indian Standards, Rajasthan, as the Guest of Honour















STUDENT'S ACHIEVEMENTS & AWARDS

Sanchit Saldana of BCA 6 participated in a Badminton tournament at the American University of Sharjah and secured 3rd place.

Roshmeet Chakravati of BCA IV semester has been selected for the Pre-Incubation Seed Fund Round at Symbiosis Institute of Technology, Pune.

Rashmi Priya of BCA 2nd semester won the third prize in the 'Error Odyssey' Hackathon conducted by the Cyber Space Club of Manipal University.

Aditya Gandhi of BCA 2nd semester actively participated in volunteering for the event Leadership Summit 4.0 at Manipal University.











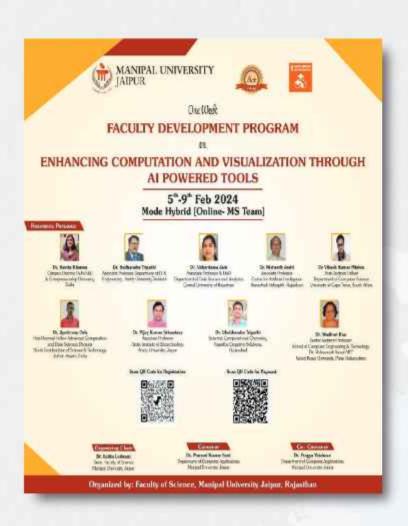


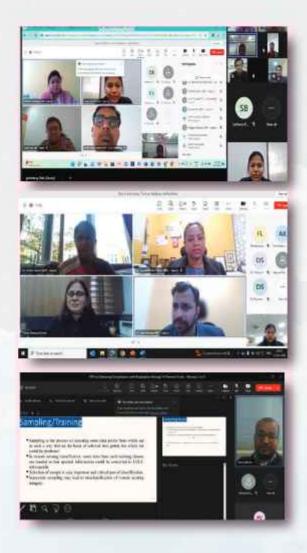


FACULTY DEVELOPMENT PROGRAMME

Department of Computer Application, Manipal University Jaipur held a Faculty Development Program (FDP) on "Enhancing Computation and Visualization through AI Powered Tools" from February 5th to 9th, 2024. This hybrid event aimed to enhance faculty and research scholars' skills in AI for computational and visualization tasks.

Distinguished speakers from various institutions shared insights on generative AI, satellite image analysis, computational biology, and AI applications in research. Notable speakers included Dr. Kavita Khanna, Dr. Vijay Kumar Srivastava, and Dr. Nisheeth Joshi. The FDP successfully fostered learning and collaboration, concluding with a vote of thanks to all contributors.









INDUSTRIAL EXPERT TALKS

The Cypher Club, in collaboration with CyberOps and the Department of Computer Applications, organized a two-day technical talk on February 19-20, 2024, at the Smt. Sharda Pai Auditorium. The event, led by Mr. Mohit Soni, Analyst at CyberOps, focused on collaborative software development and GitHub, educating MUJ students about online coding platforms and hackathons. The sessions were highly engaging with overwhelming student participation.





Department of Computer Applications, Manipal University Jaipur organized Expert talk on: Indigenous Technologies for Viksit Bharat, the event was to Promote Self-Reliance (Aatmanir-bhar Bharat), Discussed the importance of self-reliance in technology for economic and strategic autonomy. Outlined government initiatives and policies supporting indigenous technological development.











EXPERT LECTURES

The Department of Computer Applications is committed to providing real-world practical knowledge to our BCA and MCA students. To this end, Department organized number of expert talks by industry professionals in this session. These sessions aim to augment classroom learning with insights from the field, offering invaluable perspectives on industry practices and trends.















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.

	Milit Cathegorizatio	Tine	Tile of Back/ Chapter Published	Name of	Author Name	Scopus Indexed	Month & Year of Publication
50							
	Conference Paper	A REVIEW ON CYBERSECURITY LAW AND MANAGEMENT	Fourth Congress on Intelligent Systems	Springer Nature	Mrs Kuntal Gaur, ROSHMEET CHAKRABORTY, Guishan Khemani, Khushi Shaima, Mohit Jangid	Scoolus	Narch 2024
	Conference Paper	SUMMARIZATION OF DAILY NEWS USING TEXTRANK AND TEDE ALGORITHM	Fourth Congress on Intelligent Systems	Springer Nature	Or Rekha Jain, Dr. Poonam Singh	Scopus	March 2024
	Conference Pager	LANDCOVER CLASSIFICATION OF VHRS MAGERY USING SUPPORT VECTOR MACHINE	International Conference on Sustainable Communication Networks and Application (ICSCNA) 2023	EEE	Dr Pramod Kumar Son/Compuler Applications	Scopus	Jan 2024
	Conference Paper	LUNG SEGMENTATION FROM CHEST RADIOGRAPHS USING MULTISCALE DEEP NEURAL NETWORK	3rd International Conference on Technological Advancements in Computational Sciences	IEEE	Dr Pramod - Kumar Soni Computer Applications	Scopus	Jan 2024
	Conference Paper	BLOCKCHAIN: FROM CRYPTOCURRENCY FOUNDATION TO DECENTRALIZED REVOLUTION ACROSS INDUSTRIES	Advances in Data-Oriven Computing and intelligent Systems-2023	Springer Nature	Mr Pradeep Kumar, Mrs Kuntal Gaur, Gautam Samblani, Gatim Saini	Scopus	March 2014
	Conference Paper	URBAN LAND COVER CLASSFICATION OF MULTISPECTRAL SATELLITE IMAGES USING ARTIFICIAL NEURAL NETWORKS		Springer Nature	Dr Pramod Kumar Sonl/Computer Applications	Scopus	March 2024
	Conference Paper	DOMPARATIVE STUDY OF LEVELDB AND BADGEROB DATABASES ON THE BASIS OF FEATURES AND READ/WRITE OPERATIONS	2nd International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2023)	IEEE	Dr Pragya Valshnav, Dr Linesh Raja/Computer Applications	Scopus	Fab 2024
8.	Original Full	DEVELOPING A HYBRID IRRIGATION SYSTEM FOR SMART AGRICULTURE USING IOT SENSORS AND MACHINE LEARNING IN SRI GANGANAGAR, RAJASTHAN	1779		Amritgal Kaur, Dr. Devershi Pallavi Bhatt, Dr. Linesh Raja	Scopus	January 2024
	Original Full	ARTIFICIAL INTELLIGENCEENHANCED CONSTRUCTION OF LANDSLIDERESISTANT SUPPORT INFRASTRUCTURE USING HETEROGENEOUS COMPOSITE NANOMATERIALS: A COMPUTATIONAL ALGORITHM INNOVATIVE DEVELOPMENT			Or Govind Murari Upadhyay/Computer Applications	Scopus	February 2024
11	Original Full	ENHANCED LUNG SEGMENTATION FROM CHEST XRAY MAGES USING ATTENTION BASED FONN			Mr Pradeep Kumar, Dr. Pramod Kumar Soni, Dr. Linesh Raja	Scopus	March 2024

