



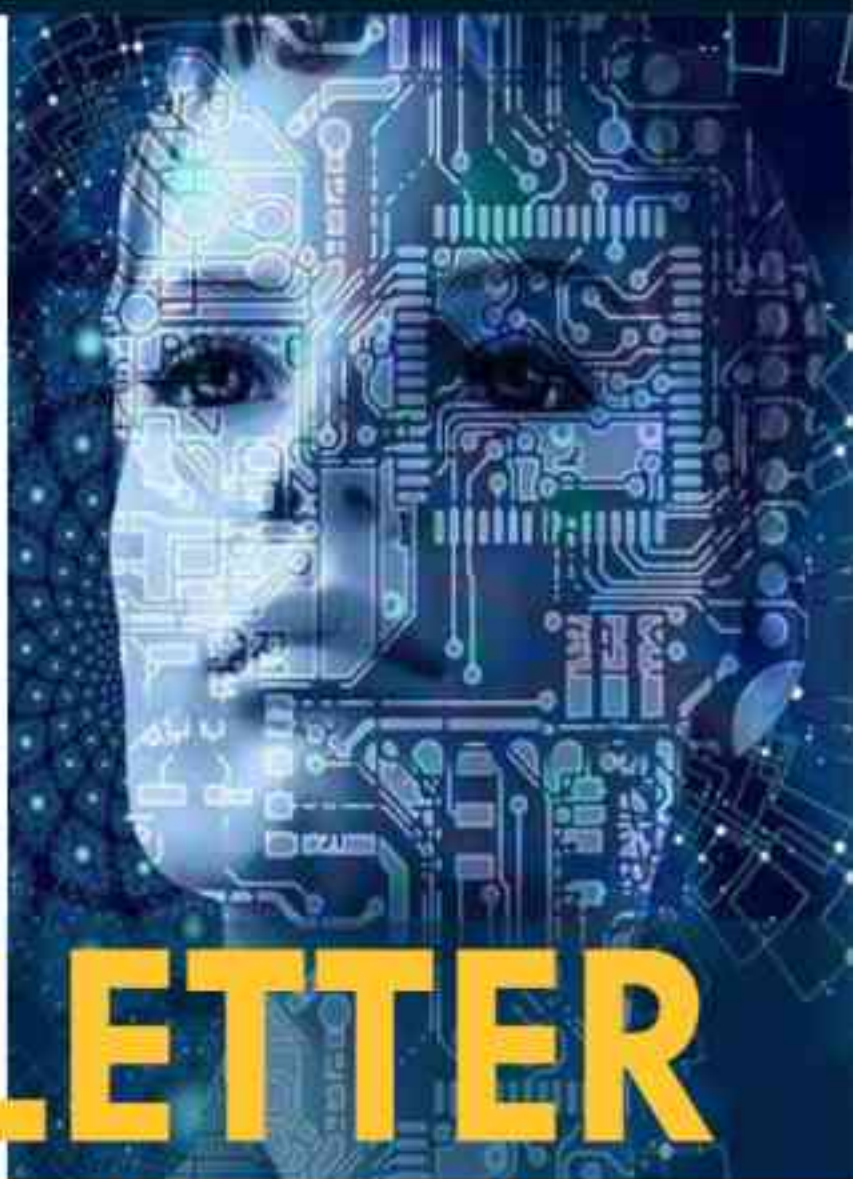
OPJU

NAAC
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O. P. JINDAL UNIVERSITY
RAIGARH

PRAGYAN

**Department of
Computer Science
&
Engineering**



NEWSLETTER

Volume-II, Issue-II



OPJU

Pragyan
Newsletter July-Dec 2024

Message from Vice Chancellor



Welcome to the latest edition of newsletter 'Pragyan' crafted by the dynamic minds within our Computer Science and Engineering Department. As Vice Chancellor, I extend my heartfelt congratulations to all involved in this wonderful endeavour. Our CSE department stands as a beacon of knowledge, innovation, and progress in the ever-evolving landscape of technology. We offer comprehensive UG, PG and PhD programs that epitomize our commitment to excellence in education, research, and industry collaboration. Our goal is still the same: to develop curious minds, spark creativity, and provide our students the tools they need to succeed in the digital age.

A hallmark of our CSE department is its remarkable adaptability and ability to stay ahead of technological advancements. From AI to cybersecurity, software engineering to data science, we remain at the forefront of transformative fields. Our distinguished faculty, spanning diverse domains, are not just educators but enablers of lifelong learning, instilling not only knowledge but a fervor for exploration. Our students are a wellspring of inspiration, demonstrated by their involvement in hackathons, research endeavours, and community-driven projects. Their commitment to using technology to effect positive change is a testament to our shared mission.

I encourage you all to continue pursuing excellence, collaborate on interdisciplinary projects and adopt cutting-edge technologies. I am excited to witness the ongoing growth and success of our Computer Science and Engineering Department. In closing, the future of the CSE department is exceptionally promising, and our collective contributions to the world of technology are poised to be extraordinary. Together, let's keep pursuing brilliance and unending innovation to reach new heights.

I congratulate the editorial team and wish them success.

Prof. (Dr.) R. D. Patidar
Vice Chancellor
O. P. Jindal University, Raigarh



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Newsletter July-Dec 2024

Message from Vice Dean & HoD



It is with great pride and enthusiasm that I introduce Issue-II, Volume II of our half-yearly newsletter, 'PRAGYAN,' representing the dynamic spirit of the Department of Computer Science and Engineering at OP Jindal University.

Our department remains at the forefront of academic and research advancements in Computer Science and interdisciplinary domains. Equipped with state-of-the-art laboratories, cutting-edge software, modern hardware, and advanced machinery, we are dedicated to delivering high-quality education and fostering innovation. Our faculty members consistently contribute to the academic and professional community through publications in prestigious journals and conferences, as well as consultancy and collaborative projects.

This newsletter offers a glimpse into the department's vibrant ecosystem of activities and accomplishments from July to December 2024. It captures the essence of key events such as workshops, hackathons, faculty development programs (FDPs), conferences, publications, patent filings, and Memorandums of Understanding (MoUs). Additionally, this issue features highlights of innovative research and exciting updates that underscore our unwavering commitment to excellence and progress.

I take this opportunity to extend my heartfelt appreciation to our dedicated faculty, enthusiastic students, and supportive technical and administrative staff, whose collective efforts make our department a beacon of excellence. Special thanks to the editorial team and contributors for their hard work and creativity in bringing this edition to life.

Your feedback and suggestions are always welcome, as they inspire us to improve and innovate. I hope you enjoy reading this newsletter as much as we have enjoyed creating it.

Prof. (Dr.) Ashish K Sharma

*Vice Dean & Head of Department
Department of Computer Science and Engineering
O. P. Jindal University*



OPJU

Pragyan
Newsletter July-Dec 2024

Message From Editor's Desk



Warm greetings to all readers of the Pragyan Newsletter!

I am delighted to present the half-yearly edition of Pragyan, a publication that offers a vibrant insight into the ever-evolving world of the Department of Computer Science and Engineering. This newsletter is more than just an update—it's a celebration of knowledge, innovation, and the collaborative spirit of our faculty and students. Pragyan serves as a dynamic platform to showcase the creative ideas, research accomplishments, and technical expertise within our department. It is designed to keep you informed and inspired, while also highlighting the various academic and co-curricular milestones achieved over the past six months.

In this edition, covering July to December 2024, we bring to you key highlights from departmental activities such as workshops, faculty development programs (FDPs), national and international conferences, impactful publications, patent and IPR achievements, and strategic Memoranda of Understanding (MoUs). Each section reflects our department's commitment to fostering academic excellence, research innovation, and industry collaboration.

The newsletter also features a snapshot of outstanding contributions made by our faculty and students, underscoring their dedication to continuous learning and advancement in the field of Computer Science and Engineering.

I would like to express my heartfelt appreciation to the editorial team and all contributors whose hardwork and enthusiasm have brought this issue to life. Your support and feedback are vital to our growth, and we look forward to making each edition better than the last.

We hope you enjoy reading this issue as much as we enjoyed putting it together. Please feel free to share your thoughts and suggestions for future editions.

Dr. Amit Jain

Professor

*Department of Computer Science and Engineering
O. P. Jindal University*



About Department of CSE

The Department of Computer Science and Engineering at OP Jindal University imparts quality education at undergraduate and postgraduate level with emphasis on basic computing principles, rapidly evolving technology, and continuous need for innovation in this field. To ensure that students are sought by IT companies, the department provides training in various cutting-edge technologies, inculcates professional behaviour, instils ethical values and develops leadership and team working capabilities. Our program provides a flexible curriculum enabling the students to achieve their goals and make them industry ready.

Department has experienced and energetic faculty with specialization in different areas like Computer networks, Embedded Technology, IoT, Artificial Intelligence, Machine Learning, Data Mining, Blockchain etc. Department has state of the art laboratories, latest hardware-software and teaching learning tools to create a learning environment and impart quality education.

COURSES OFFERED



• Highlights of the Department

- ♦ State of the Art Computer Labs
- ♦ Industry Oriented Curriculum
- ♦ Media Technology Center
- ♦ Highly Qualified and Experienced Faculty
- ♦ Outcome based Learning
- ♦ Emphasis on Soft Skills Development
- ♦ High Tech Classrooms with Smart Boards



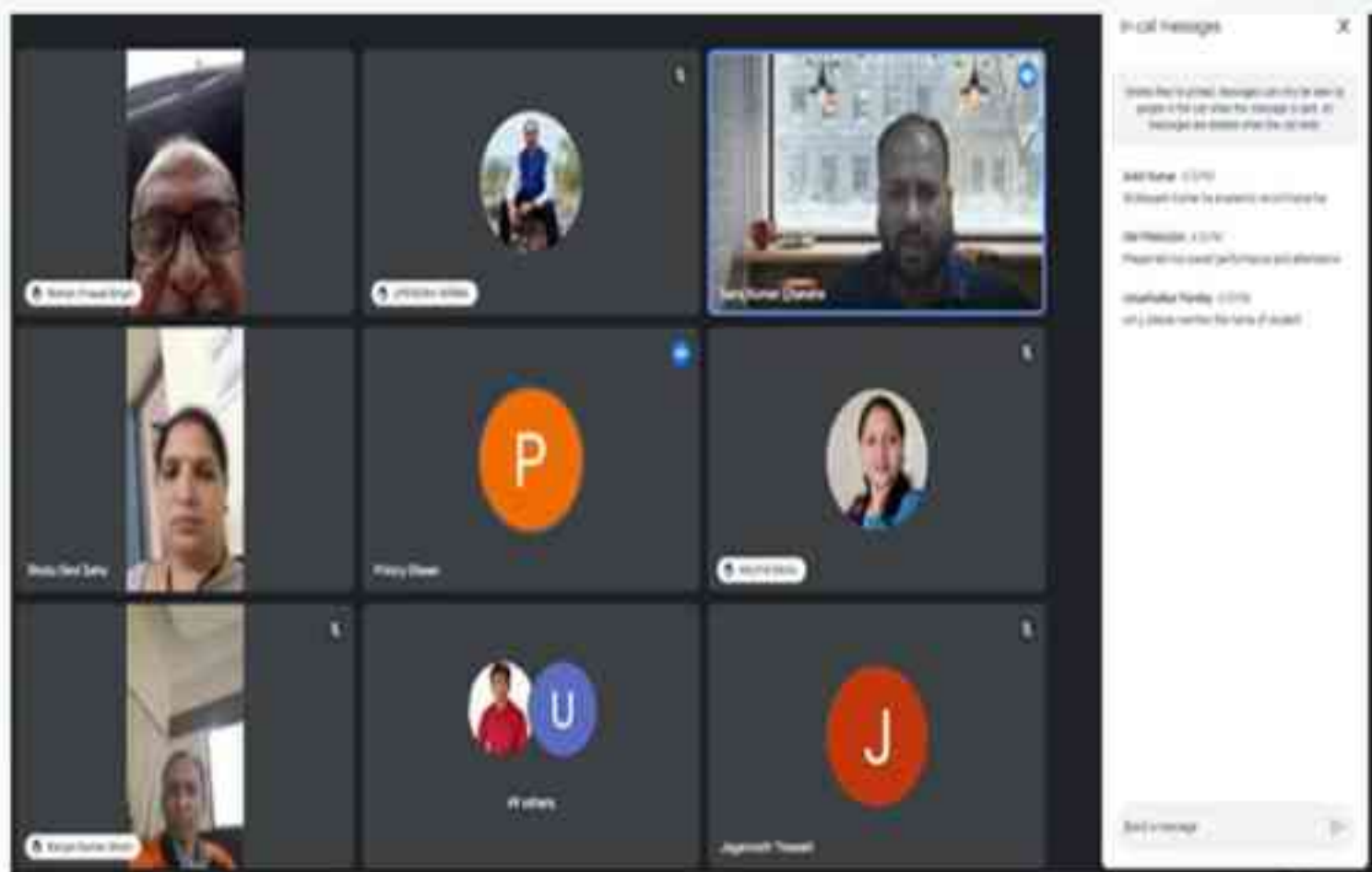


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Events & Activities Corner

The Department of Computer Science & Engineering successfully organized a Parents-Teacher Meeting (PTM) on October 23rd and 24th, 2024, for the students of the 3rd and 5th semesters, respectively. The meeting aimed to discuss the academic performance and achievements of the students, providing valuable insights into their progress. We appreciate the active participation and constructive discussions that took place during these sessions, and we look forward to continued collaboration between parents and teachers to support the holistic development of our students.



The Department of Computer Science & Engineering is pleased to announce an exciting new initiative to support our students in their preparation for GATE 2025. We have partnered with Unacademy to provide a subscription for GATE preparation. This subscription will grant access to high-quality learning materials, live classes, and expert guidance, helping students enhance their preparation and achieve their academic and career goals.

We encourage all interested students to take advantage of this opportunity and make the most of the resources available through Unacademy.



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In association with IIC, Department of Computer Science and Engineering, OPJU has organized a webinar on **"Topic - Angel investment/ VC funding opportunity for early stage entrepreneurship"** on 23rd Aug 2024.



OPJU Innovation Council
O.P. Jindal University, Raigarh
In association with
OPJU Innovation Center & Department of CSE

Session on:

Angel Investment / VC funding opportunity for early-stage entrepreneurs

Speaker:
Dr. Gopal Krishna Bhatnagar
Associate Professor
Department of Management, OPJU

Faculty Coordinator:
Dr. Anshu Kishore
Associate Professor
Department of Management, OPJU

23rd Aug 2024
02:00 - 03:00 PM
Venue: TB -01
Mode: Online

The Department of Computer Science & Engineering has organized a workshop on **"Mentoring Session for Innovators on Software Product Development Grant/Funding"** on 21st November 2024. The session was designed to provide valuable insights into the process of securing grants and funding opportunities for software product development.



OPJU Innovation Center

Mentoring session for Innovators on Software Product Development Grant/Funding

21st November 2024

Mr. Mukul Dhar Sharma
Asst. Director, Software Technology Park of India (STPI)
Ministry of Electronics and IT, Govt. of India

Venue: O. P. Jindal University, Raigarh



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The Department of Computer Science & Engineering, in association with the Institution's Innovation Council, under the OPJU Innovation Center, is organizing an inspiring session titled **"From Idea to Impact: Motivational Session by Successful Entrepreneur/Start-Up Founder"** by Mr. Adari Gyanesh Rao Kumar, Chairman & CEO Gyanadraksha wydhumraketustra snbrahmkr Private Limited on 29th November 2024. This session will feature an accomplished entrepreneur/start-up founder, who will share their valuable insights and experiences on transforming ideas into successful ventures.



Tumidih, Chhattisgarh, India
386x+xp7, O P Jindal Industrial Park,
Tumidih, Chhattisgarh 496107, India
Lat 22.062286° Long 83.349766°
29/11/24 11:35 AM GMT +05:30

Dr. Amit Jain has Participated in the Online International Workshop on **"Research Informatics: Module of Research Methodology"** held virtually on Monday, September 9th 2024 Organized by Maryam Abacha American University of Nigeria.



MARYAM ABACHA
AMERICAN UNIVERSITY OF NIGERIA

ONLINE INTERNATIONAL WORKSHOP ON
RESEARCH INFORMATICS:
A MODULE OF RESEARCH METHODOLOGY

Certificate of Participation

This certificate is presented to

Dr. Amit Jain

For participation in the Online International Workshop on:
RESEARCH INFORMATICS: A MODULE OF RESEARCH METHODOLOGY
held virtually on Monday, September 9th, 2024
Organized by Maryam Abacha American University of Nigeria

Dr. Hilda Awaia Abubakar
Vice President Administration, MAANU



Prof. (Dr.) Mohammed Isah
The President of MAANU





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Mr. Gyan Prakash Sharma participated in the webinar **"New Trends in Cloud Computing"** organized by **"McGrawHill"**.



Prof. Jitendra Kumar Gardia has participated in the International Workshop on **"AI Tools for Literature Review"** organized by Manuscriptpedia, Kanyakumari from 26-27 October, 2024 through online pedagogy.





Dr. Saroj Kumar Chandra has delivered an expert lecture as part of the E&ICT Sponsored Online FDP on **"Unblocking AI Transparency: A Deep Dive into Explainable AI,"** held from 11th - 20th November, 2024.

Dr. Saroj Kumar Chandra delivered a lecture at "St. Peter's Engineering College" and One Week Faculty Development Program Topic **"Introduction to AI and Security"**.

The certificate is for a One Week Faculty Development Program titled "Security Trends in Artificial Intelligence" organized by the Department of CSE (Artificial Intelligence & Machine Learning) at St. Peter's Engineering College. The topic is "Introduction to AI and Security". The guest speaker is Dr. Saroj Chandra, Assistant Professor at OPJSD University. The program took place on 01 July 2024 from 06:00 pm to 08:00 pm. The coordinator is Mr. Sunny Singh. The committee includes Dr. T. Suresh Reddy, Mr. T. S. Reddy, Dr. K. Suresh Kumar, Mrs. T. Suresh Reddy, and Mr. T. Suresh Reddy. The certificate is signed by the Head of the Department and the Principal.



Dr. Pradeep Kumar Shriwas has Participated in One-Week online Faculty Development Program on **"Data Science and Machine Learning Applications for Engineering and Sciences"** organized by the Department of Information Technology at Shri Vishnu Engineering College for women (Autonomous), Bhumavaram from 21-27 October 2024.

The certificate is for a One Week online Faculty Development Program on "Data Science and Machine Learning Applications for Engineering and Sciences" organized by the Department of Information Technology at Shri Vishnu Engineering College for women (Autonomous), Bhumavaram from 21-10-2024 to 27-10-2024. The participant is Dr. Pradeep Kumar Shriwas of OPJSD UNIVERSITY, RAIGADH (CHHATTISGARH). The certificate is signed by the Head of the Department and the Principal.





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Dr. Saroj Kumar Chandra has delivered an expert lecture as part of the E&ICT Sponsored Online FDP on **"Unblocking AI Transparency: A Deep Dive into Explainable AI,"** held from 11th - 20th November, 2024.



The Department of Computer Science & Engineering has organized an online session on the topic **"Augmented Reality and Virtual Reality"** on 18th November 2024. **Dr. Rohit Ahuja**, Assistant Professor from Tata Institute of Engineering and Technology was the session expert. This session aimed to explore the key concepts, applications, and potential impact of AR and VR in various fields.



The Department of Computer Science & Engineering hosted the 5-day Faculty Development Program **"Empowering Cybersecurity Through Artificial Intelligence and Machine Learning."** More than 200 participants from all over the world and from renowned institutions have participated and got valuable insights into the integration of AI and ML in cybersecurity.





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Mr. Gyan Prakash Sharma has attended a FDP on **"Tech Savviness For Modern Educator"** organized by Upto Skills on Sep 10, 2024.



Awards, Achievements & Excellence

Dr. Ashish K Sharma, Dr. Saroj Kumar Chandra, and Prof. Asimkiran Dandapat visited JSP SSD to get a detailed insight into the practical applications and latest advancements in the industry. This experience will greatly benefit our teaching methods and research efforts, ultimately enhancing the academic environment at our university.





The Department of Computer Science & Engineering conducted Information Systems and Management Science (ISMS 2023) conferences in Dec 2023. All the papers presented in the conference have been published in Conference Proceeding in October 2024. This marks a significant milestone in the academic journey of the authors and serves as a testament to the high quality and relevance of the research showcased at ISMS 2023.

We extend our heartfelt congratulations

to all the contributors for their hard work and dedication. The

Department also expresses sincere gratitude to the reviewers and editorial team for their efforts in ensuring a rigorous and timely publication process.

We look forward to witnessing the impact of these valuable contributions in advancing the field of Information Systems and Management Science.

<https://link.springer.com/book/10.1007/978-3-031-66410-6>



The Department has organized the 3rd OPJU International Technology Conference (OTCON 3.0) in June 2024. This prestigious event, organized by the Department and continues to serve as a platform for researchers, academicians, and industry professionals to present their cutting-edge research and technological advancements.

This conference has received an overwhelming response with more than 1200 papers submitted, showcasing diverse and innovative research from various domains of technology and engineering. We are proud to share that, in collaboration with IEEE, 303 accepted papers were published in the IEEE Xplore digital library, ensuring global visibility and recognition for the authors' contributions.

<https://ieeexplore.ieee.org/xpl/conhome/10685846/proceeding>






OPJU
International Technology Conference
(OTCON 3.0)
on
**Smart Computing for Innovation
and
Advancement in Industry 4.0**
5-7 June, 2024

Conference Tracks

- Smart Computing for High Performance Computing
- Smart Computing for Security
- Smart Computing for IoT and Sensor Devices
- Smart Computing for Data Science
- Smart Computing for Embedded Systems and Networks
- Smart Computing for Signal Processing

Contact:
Dr. Bhupesh Kumar Dewangan
Department of Computer Science Engineering
reg@opju.ac.in

Submit Your Paper



Venue:
O.P.J.S. Jindal University, Raigarh,
Chhattisgarh, India



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Dr. Ram Narayan Shukla has been awarded for exceptional contribution in a college SPOC in **Smart India Hackathon, 2023**.



Dr. Arti Vaish of the Department of Computer Science and Engineering was invited as Distinguished Speaker for the most prestigious **"7th Edition of Advanced Materials Science World Congress"** (Adv. Materials Science 2025) taking place in the city of London UK, on March 24-25, 2025.



Prof. Asim Kiran Dandapat attended NPTEL Workshop at IIT Kharagpur Research park and appreciated for his instrumental role as SPOC for the SWAYAM-NPTEL local Chapter.



The Department of CSE recently conducted an exciting Quiz Program **"Play with Computer"** as part of **SPARDHA'24** for school students. This fun and engaging quiz was designed to challenge the knowledge of school students on various topics related to computers, technology, and the digital world. The quiz featured a variety of questions, from computer history and programming to the latest trends in technology.





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The Department of Computer Science & Engineering conducted the Internal Hackathon for **Smart India Hackathon (SIH) 2024** on 9th Sep. 2024. This event was organized to identify and nurture the best talent from our department to represent us at the national level in the prestigious SIH competition where students from our departments showcased their different problem statements in different technologies.



Dr. Princy Diwan Completed her PhD Defense Viva at **"Amity University, Raipur"** with success, covering the subject of **"Intellectual share estimation of medical research and its protection mechanism"**.



Dr. Bhupesh Kumar Dewangan reviewed research papers submitted to the **4th International Conference on Computing, Analytics, and Networks (ICAN-2024)**. The conference was Jointly organized by Chitkara University, Punjab, India and Chitkara University, Himachal Pradesh, India from 24-25 September 2024.



Dr. Amit Jain In recognition of his contribution as a Reviewer during the **"International Conference on Smart Cyber-Physical Systems"** organized by the School of Sciences, CRIST (Deemed to be University), Delhi NCR held on 13-14 September 2024.





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Dr. Umashankar Ghugar served as a reviewer for the 2nd International Conference on "Recent Advances in Artificial Intelligence & Smart Applications (RAAISA) 2024", held on December 14-15, 2024, and contributed to reviewing research papers and ensuring the quality of the conference proceedings.



Students Mr. Salik Manzer and Mr. Ashish Rai projects Qualified for the Intel Unnati online Industrial Training Program 2024 from the Department of CSE where the Problem Statement Running GenAI on Intel AI Laptops and Simple LLM Inference on CPU and fine-tuning of LLM Models using Intel® OpenVINO™ Students.



Students Achievement

Mr. Pratyush Behera, Mr. Kanha Thethwar, Mr. Divakar Yadav, Mr. Avinash Shrivastava, Mr. Amit Kumar Chauhan of 5th Semester, **and Ms. Kajal Gupta** of 7th Sem, The Department of Computer Science & Engineering congratulates you all on your participation in the Smart India Hackathon 2024 held at Vardhman College of Engineering Hyderabad from 10-12 December. It is truly an incredible achievement to represent the Department of Computer Science & Engineering in such a prestigious national event.





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Mr. Dev Agrawal, Ms. Navya Tiwari & Mr. Piyush Kumar Pandey from the 5th semester B Tech of the Department completed the NPTEL Online Certification course on **"Data Science for Engineers"** conducted by Elite, held from July to September 2024. This achievement reflects his dedication and commitment to enhancing his skills in data science



Ms. Kajal Swarkar of Btech 7th sem has completed the NPTEL course titled **"Machine Learning and Deep Learning - Fundamentals and Applications"** with a consolidated score of 66%. This achievement highlights her commitment to learning and gaining knowledge in the important field of machine learning and deep learning.





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Ms. Sheetal Payal 5th semester has been selected for the prestigious position of Marketing Intern under the Campus Ambassador Program for **Shaastra 25**. This is a great opportunity for her to apply her passion for technology and enthusiasm to represent and promote the event.



Mr. Rishabh Tiwari, a student of Computer Science & Engineering, 5th Semester, has completed his internship program as a **UI/UX Design** Intern at Aksonilive Technologies. The internship took place from 30th September 2024 to 20th November 2024.



Ms. Reshma Ekka of 7th Sem has completed the NPTEL course titled "**Machine Learning and Deep Learning - Fundamentals and Applications**" with a consolidated score of 66%. This achievement highlights her commitment to learning and gaining knowledge in the important field of machine learning and deep learning.





Community Outreach Activities

The Departmental students of 5th Semester have visited **"Netrahin Bal Vidya Mandir"** in Amlidih Gharghoda Raigarh on 22th November to interact with the children and witness their talents. The children showcased impressive skills in singing, harmonium, and tabla, with their bhajans creating a peaceful atmosphere.



Dr. Umashankar Ghughar, from the Department of Computer Science and Engineering, SoE published the research paper as a corresponding author titled **"ANTMAC: Addressing Novel Congestion Technique Hybrid Model for Collision Control in IoT-based Environments using Contention-based MAC Protocol"** in IJCNIS(index by Scopus,Q3 Journal with OPJU affiliation) on 8th December 2024.

Doi:<https://doi.org/10.5815/ijcnis.2024.06.04>

On 4th October 2024, 20 students from 3rd Year CSE, 6th Semester, accompanied by faculty member Prof. Jitendra Kumar Gardia, visited a village in Punjipathra, Raigarh as part of an NSS activity. The objective of the visit was to educate villagers on **"cyber security, internet safety, and digital wellness."** The team conducted awareness sessions and engaged with the community to promote safe and responsible internet usage.





Research Publications & Patents

❖ **Dr. Rakesh Nayak and Dr. UmaShankar Ghughar** as author and co-author, published the paper titled **"Role of Data Science and Cyber security in fighting Healthcare Fraud"** for the book **Cybersecurity and Data Management Innovations for Revolutionizing Healthcare** is published by IGI global with ISBN13: 9798369374573 and DOI:10.4018/979-8-3693-7457-3.ch004".

<https://www.igi-global.com/chapter/role-of-data-science-and-cybersecurity-in-fighting-healthcare-fraud/351588>

❖ **Dr. Umashankar Ghugar & Dr. Rakesh Nayak** published the book chapter titled **"SPSHS"** for the book **"Security and Privacy Concerns in Smart Healthcare Systems"**.

<https://www.taylorfrancis.com/chapters/edit/10.1201/9781032698519-4/spshts-umashankar-ghugar-rakesh-nayak-praveen-gupta-satyabrata-dash>

❖ **Dr. Umashankar Ghugar** published the article entitled **"HEERPOP: Hybrid Energy Efficiency Routing Protocol for Optimal Path in the Internet of Things Based Sensor Networks"** in the IJCN (Indexing by Scopus & Q3 Journal).

Dr Amit Jain Presented a paper titled **"Ensuring Security and confidentiality in Swarm Embeded Systems"** in the international conference on Innovative Trends in Electrical, Electronics and Biotechnology Engineering (ICITEEB-2024), organized by the Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab held on 2nd-4th July,2024. In association with CRC Press(Taylor & Francis Group).



❖ A research paper authored by **Prof. Umashankar Pandey**, titled **"Enhancing Sensor Node Lifespan in WSNs through Traffic- Adaptive Duty Cycle MAC (TDC- MAC) Protocol,"** has been officially accepted for publication in the prestigious Journal of Electrical Systems (JES), which is indexed in Scopus.



❖ **Dr. UmaShankar Ghughar & Dr. Rakesh Nayak** published a research paper titled **"ITD-ML: Improving Diagnosis Capabilities for Thyroid Disease Using Machine Learning"** in the Springer conference proceedings of the Information Systems and Management Science (ISMS 2023). This remarkable achievement is a testament to your dedication and expertise in your research field.

❖ **Dr. UmaShankar Ghughar** as a Co-editor, edited the Book titled **"Developing AI, IOT, and Cloud Computing-based Tools and Applications for Women's Safety."** with Routledge Taylor & Francis Group.

❖ **Dr. Bhupesh Kumar Dewangan & Dr. R N Shukla** published a Book Editor titled **"AI Technologies for Information Systems and Management Science"** in the Springer conference proceedings of the Information Systems and Management Science (ISMS 2023). This remarkable achievement is a testament to your dedication and expertise in their research field.



❖ **Dr. Bhupesh Kumar Dewangan** published a research paper titled **"Sustainable Internet of Things (IoT) for Restricted Items Using a Dynamic Sleeping Wake-Up Approach"** in the Springer conference proceedings of the Information Systems and Management Science (ISMS 2023). This remarkable achievement is a testament to your dedication and expertise in their research field.

❖ **Dr. Ashish K Sharma**, as Co-author, published a conference paper titled **"Heart Disease Preadiction using Data Mining Techniques"** in International Conference on Data Mining and Information Security (ICDMIS 2024) at Universitas ALAsyariah Mandar Indonesia.



❖ **Dr. Arti Vaish**, as a Co-author, published the Book Chapter titled **"A Lightweight Fast-Four Q-Key Generation for Embedded Devices on Women's Safety"** with Routledge Taylor & Francis Group.



❖ **Dr. Umashankar Ghugar & Prof. Jitendra Kumar Gardia** has published a book chapter titled **"Fingers Identification Architecture for AIR CANVAS A Case Study"** in [Computing, Communication and Intelligence \(CRC Press\)](#) having [Scopus Indexing](#).
DOI: [10.1201/9781003581215-19](#) eBook ISBN [9781003581215](#)

❖ **Dr. Rakesh Nayak & Dr. Umashankar Ghugar** has published a book chapter titled **"An Investigation of the Applicability of Machine Learning Methods to the Forecasting of Cardiovascular Disease"** in [Computing, Communication and Intelligence \(CRC Press\)](#) having [Scopus Indexing](#).

Link: <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003581215-23/investigation-applicability-machine-learning-methods-forecasting-cardiovascular-disease-sundara-siva-rao-salim-amirali-jiwani-barkat-amirali-jiwani-rakesh-nayak-umashankar-ghugar?context=ubx&refid=db5bd858-fbf2-4396-9743-42a991eb57e2>

❖ The patent **"A System and Method for Privacy-Preserving Data Mining and Cryptography on Health Data"** (Application No. 554615) has been awarded to **Dr. Amit Jain**. This outstanding accomplishment is a testament to your commitment, knowledge, and creative contributions to the domains of data privacy and cryptography, especially in the crucial area of health data.



❖ **Dr. R. N. Shukla** has presented the research paper titled **"IoT-Driven Sustainable Water Conservation and Recycling Model"** at the National Conference on **"Innovative Strategies for Sustainable Water Resources Management and Environmental Protection in Civil Engineering"** which is a significant contribution to the field of civil engineering. The conference, organized by the Department of Civil Engineering, LCIT Bilaspur on 12th - 13th November 2024. Conference focused on advancing knowledge and strategies for sustainable water management, a key area in the face of growing environmental challenges.





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Dr. Bhupesh Kumar Dewangan participated in the conference and presented two paper entitled **"Information Encryption Technique Based on DNA Cryptography and RSA Asymmetric Key Exchange Algorithm"** & **"Application of Convolutional Neural Networks Method in Early Age Disease Detection of Paddy Crop"** at the **Springer MP-TEAS 2024** International Conference on Modern Practices and Trends in Expert Applications & Security from 22-24 November 2024.



Ms. Nidhi Kumari & Mr. Rounit Singh of BTech CSE 6th semester, presented our research paper titled **"IoT-Driven Sustainable Water Conservation and Recycling Model"** at the National Conference on **"Innovative Strategies for Sustainable Water Resource and Environmental Protection in Civil Engineering,"** organized by the Department of Civil Engineering at Lakhmi Chand Institute of Technology (LCIT), Bilaspur.



Dr. Arti Vaish and Dr. Jitendra Gardia presented two research papers entitled **"Enhanced Anomaly Detection in IoT Sensor Data Using Machine Learning: A Comparative Analysis of Efficiency and Real-Time Applications"** and **"Cost-Effective IoT-Based Health Monitoring System for Versatile Applications"**, both scheduled for presentation from 19-20 December 2024, have been selected for the prestigious **FlexEV2024** Springers (Scopus Indexed) International Conference on Flexible Electronics for Electric Vehicles (FlexEV-2024).





Prof. Umashankar Pandey and Saroj Kumar Chandra paper titled **"Enhancement in Reliability of IEEE 802.15.4 WBAN Using Greedy Spider Monkey Algorithm"** has been published in the International Journal of Networked and Distributed Computing on 29th December 2024.

doi:<https://doi.org/10.1007/s44227-024-00053-w>

Dr Rakesh Nayak and Dr. Umashankar Ghughar research paper titled **"Energy-Aware Optimization of Cloud Request Placement and Resource Monitoring Using an Evolutionary Algorithm for Cloud-assisted Systems"** has been published in the IJCN (Q3 Scopus indexed) for the collaboration with an incredible team and honored to contribute to cloud system.

doi:[10.22247/ijcna/2024/49](https://doi.org/10.22247/ijcna/2024/49)

Dr. Rakesh Nayak and Dr. Amit Jain as an author, published the Book Chapter titled **"Cyber Security for Personal data"** for the book **Developing AI, IOT and Cloud Computing-based Tools and Applications for Women's Safety** is Chapman and Hall/CRC

Home > Computer Science > Computer Engineering > Developing AI, IoT and Cloud Computing-based Tools and Applications for Women's Safety



Chapter

Cyber Security for Personal Data

By [Rakesh Nayak](#), [Amit Jain](#), [Monika Saxena](#),
[Roopesh Kumar](#)

Book [Developing AI, IoT and Cloud Computing-based Tools and Applications for Women's Safety](#)

Edition	1st Edition
First Published	2024
Imprint	Chapman and Hall/CRC
Pages	19
eBook ISBN	9781003538172

Dr. Amit Jain published a research paper titled **"Power Ballot: Exploiting Blockchain Technology"** in the Springer conference proceedings of the Information Systems and Management Science (ISMS 2023). This remarkable achievement is a testament to your dedication and expertise in the field. Your work on integrating blockchain technology into voting systems holds significant potential for advancing secure and transparent electoral processes.



Placement /Internship

- ❖ Five students from the Department of Computer Science and Engineering namely **Mr. Ayush Tiwari, Ms. Surbhi Vandana, Mr. Mayank Sai Painkara and Mr. Vaibhav sharma**, got placed at Tata Consultancy Services with 7LPA. respectively.
- ❖ **Mr. Vaibhav Sharma** from the Department of Computer Science & Engineering got placed at **RKM Powergen**.
- ❖ **Mr. Rishabh Tiwari** secured "Email Marketing" Internship at "GEMA Education Technology Private Limited" through Intershala.
- ❖ **Ms. Reshma Ekka, Ms. Sangeeta Soni, Ms. Kajal Swarnkar, and Ms. Shambhavi Awasthi** Selected for a Long-Term Internship at **JPL Tamnar**, they gain understanding of the operating procedures of various departments and equipment. They also get the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Ms. Priya Agrawal** selected for a Long-Term Internship at **SMS Group**, she gained understanding of the operating procedures of various departments and equipment. She also gets the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Ms. Kajal Gupta** selected for a Long-Term Internship at **Stuvalley Technology Pvt. Ltd**, she gained understanding of the operating procedures of various departments and equipment. She also gets the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Mr. Himanshu Arya** selected for a Long-Term Internship at **Head Field Redefined Outsource solution**, he gained understanding of the operating procedures of various departments and equipment. She also gets the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Ms. Anshita Meher, Mr. Anurag Gupta, Ms. Richa Singh, and Mr. Ashish Rai** Selected for a Long-Term Paid Internship at **Code Players**, they gain understanding of the operating procedures of various departments and equipment. They also get the best chance to communicate with professionals in the field to keep up to speed on their knowledge.



Placement /Internship

- ❖ **Mr. Rishabh Tiwari** successfully completed one-month Internship at "**GEMA**" during the period of 21/06/2024 to 21/07/2024. gained an understanding of the operating procedures of various departments and equipment. he also gets the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Mr. Adarsh Soni** has successfully participated in a two-months UX/UI Developer internship programme at "**Bridge Healthcare Private Limited**" with Excellent performance.
- ❖ **Mr. Shashank Kumar** was Selected for an Internship at **Eatoes Technologies Private Limited**, they gained an understanding of the operating procedures of various departments and equipment. They also get the best chance to communicate with professionals in the field to keep up to speed on their knowledge.
- ❖ **Mr. Aadarsh Soni** student of the Department of Computer Science & Engineering 5th Semester got the offer of temporary employment as an Intern at "**Roadlyne Logistics Solutions Pvt. Ltd.**" the company will be paid **Rs. 12000/- per month** as a stipend.
- ❖ **Ms. Anjali Kumari** of Btech 5th Semester successfully completed the "**Vocational Training Program**" at **Tata Steel Jamshedpur** and gained the knowledge of building an e-Commerce website fulfilment and Payment solutions

Other Events

We are thrilled to announce that Team **N Square(NetworkNest)** of final year CSE students, has been selected as one of the finalists for the upcoming **Smart India Hackathon (SIH) 2024!**





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Internship Companies



NEXTGEN



ORIENT
PAPER



SMS group

wellness 360



eatoes



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Faculty Members



Prof. (Dr.) Ashish K Sharma
Vice Dean & Head



Dr. Rakesh Nayak
Professor



Dr. Amit Jain
Professor



Dr. Arti Vaish
Professor



Dr. R N Shukla
Associate Professor



Dr. Bhupesh Dewangan
Associate Professor



Dr. Saroj K Chandra
Sr. Assistant Professor



Prof. U. S. Pandey
Sr. Assistant Professor



Prof. Asim K Dandapat
Sr. Assistant Professor



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Dr. Princy Diwan
Assistant Professor



Dr. Pradeep K Sriwas
Assistant Professor



Dr. Umashankar Ghughar
Sr. Assistant Professor



Prof. Jitendra Gardia
Assistant Professor

Staff Members



Mr. Manoj Kumar Singh
Lab Instructor



Mrs. R. Bhandarkar
Lab Instructor



Mr. Rajkumar Sahu
Lab Instructor



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Mr. Jagannath Thawait
Lab Instructor



Ms. Sanjana Thethwar
Lab Instructor



Mr. Rajesh Tanti
Lab In-charge



Mr. Gyan Prakash Sharma
Lab Instructor



Mr. Vijay Bareth
Lab Attendant





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Glimpses of OPJU



OPJU-Statistics

Infrastructure

 50 Acre Land Area	 5,00,000 Sqft. Build up Area
 1000 Capacity Hall of Residence I & II	 350 Capacity Hall of Residence I
 1000Mbps (II) Connectivity Fully Wi-Fi Campus	 1000+ Networked Computer Systems
 45 Well Equipped Laboratories	 Central Library

Research & Publication

 90 Refereed International Journals	 38 Refereed National Journals
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Library

 30,000+ Books	 5000 Titles
 15,000 E-journals	 2,50,000 E-books

Students


 2200+ Students	 60% Boys	 80% UG
 40% Girls	 20% PG	
 Student from 20+ states	 3500+ Alumni	
 1 : 15 Faculty-Student Ratio	 35 Average age of the Faculty Members	

Faculty and Staff

 110 Faculty	 80% PhD	 70% Male
 20% PG	 30% Female	
 80% Faculty Qualification from UG, PG, PhD & M	 20% Faculty with global experience	 100+ Non-teaching Staff

Placement Statistics

Year 2023-24

 100+ Campus Drives	 84% Students Placed	 6.7 Lacs Average Package
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Collaboration & MoUs

 70+ National	 10+ International
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