

January 2025 Volume 1 : issue 1

MEDICAPS UNIVERSITY FLASHES



7th CONVOCATION 2024

Medicaps University held its Convocation on 24th November 2024, honoring graduates for their academic achievements and inspiring them to excel in their future endeavors. The event was graced by Prof Suhash Joshi - Director IIT Indore, Prof Bharat Sharan Singh - Chairman MPPURC, Dr. Bharat Rawat - Cardiologist and Mr. Revant Himansingka - Food Pharmarmer



7th CONVOCATION 2024



Student Laurels

Ms. Aarti Pathak, Ph.D. Research Scholar, presented a poster at International conference on “Advances in Nanomaterials and Devices for Energy and Environment” organized by ABV-IIITM, Gwalior, Madhya Pradesh from 03rd to 05th December, 2024.



Ms. Aarti Pathak and Ms. Nidhi Rathore, Ph.D. Research Scholars, participated in “A National Level Research Paper Writing Competition Vision for Viksit Bharat (VIVIBHA): An ambitious and Transformative agenda to build a foundation for Viksit Bharat” organized by Bhartiya Siksha Mandal, Yuva Aayam, Malwa Prant on 05 October, 2024 and their articles have been shortlisted out of best 200 papers from the state.

Ms. Ankita Dubey a second year Pharmacy student secured 1st position in Research paper competition VISION for VIKSAT Bharat (VIVIBHA).

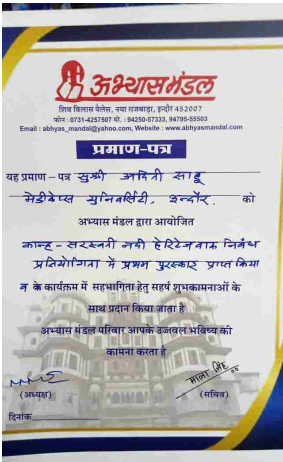


Ms. Sandhya Yadav, final year B.Tech student will participate in the national parade on Republic Day in New Delhi. She will represent university in front of The President of India.



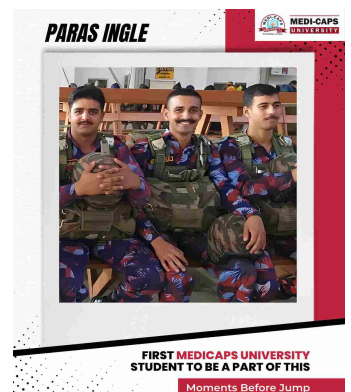
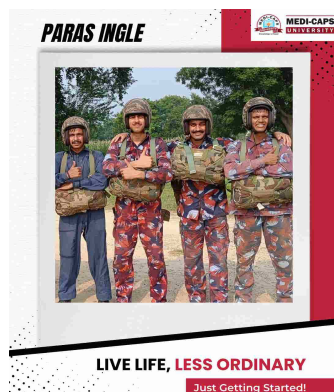
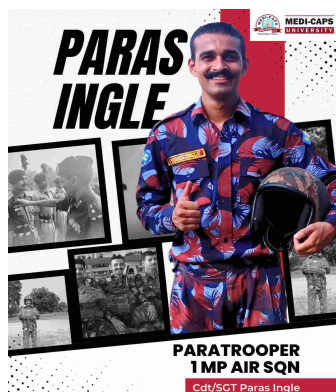
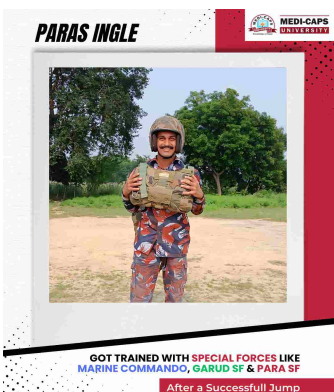
Student Laurels

Aditi Sahu, BBA III, won the Chalita Manjusha award in a competition organized by Abhyas Mandal. Her performance aimed to promote creativity and education among youth.



Cdt/SGT Paras Ingle, a third-year NCC cadet of unit 1 MP AIR SQN NCC INDORE and final-year B.Tech Mechanical Engineering, has Successfully Completed the Prestigious PARA BASIC COURSE at the Paratroopers Training School in Agra, Uttar Pradesh from September 02 to 24, 2024. After undergoing 12 days of intensive ground training, Paras conquered the FAN Descent Test and completed two successful jumps from an Indian Airforce AN-32 aircraft at a height of 1250 feet, proving his courage, discipline, and determination. He became the only Senior Division (SD) cadet selected from Madhya Pradesh and Chhattisgarh Directorate.

The culmination of his training was the Wing Ceremony on 24th September 2024, where he was awarded the coveted para wings, by Brigadier N.S. Charag SM, marking his induction into the elite family of paratroopers.



Club Flashes

The department of Civil Engineering in association with Medicaps Alumni Association (MAA) hosted an Alumni Meet with the objective of connecting with Alumni for betterment of Alma mater and University. The meet was held at the university campus on November 08, 2024. The event was convened by Mr. Ajay Sinha and Mr. Yash Mothe.



The Faculty of Physics at Medicaps University organised an "Exhibition on Sustainable Development Goals" on November 10, 2024. The event was convened by Dr. Bhavana Kshirsagar. The primary objective of this Event was to show how principles of physics can be applied to create sustainable technologies, processes, and innovations that help to conserve resources and minimize environmental impact.



Club Flashes



IKS Cell in collaboration with Science Club and 150 participants organised an astronomical event on “Legacy of Kartik Purnima in Bhartiya Sanskriti” on November 15, 2024. The event featured a captivating skit that brought celestial stories to life, emphasizing the cultural and mythological significance of Kartik Purnima.



IKS Cell in collaboration of 26 members of Science Club organised an Outreach event to Jantar Mantar (Vedshala) Ujjain with the aim “To delve into ancient India's astronomical achievements, exploring the techniques and Yantras used in astronomical observations, and understanding the history of space exploration” on November 09, 2024.



The audience was spellbound by the storytelling, which seamlessly connected ancient wisdom with the marvels of the night sky. A highlight of the evening was the telescope session, where participants observed the mesmerizing Moon of Kartik Purnima. Guided by expert facilitators, attendees gained insights into astronomy and the wonders of the cosmos.

Club Flashes



IKS Cell in collaboration with the NSS and socio club of Medicaps University and 250+ participants organized an expert lecture on “Indian Constitution Day 2024” on 26th November, 2024. The program began with the recital of the preamble to the constitution of India, led by senior NSS volunteer Ms Anushka Khadikar. Brief addresses by the dignitaries highlighted the importance of Constitution Day in fostering civic responsibility and national progress. The event also featured a constitution book exhibition in the Central Library, offering valuable insights into the Indian Constitution.

Medicaps University, Indore, celebrated a 5-day Mathematics Week from December 23 to 27, 2024, organized by the Department of Mathematics and supported by NCSTC, DST, GOI, New Delhi, and MPCST, Bhopal. The event aimed to promote the importance of mathematics among students. It was inaugurated by Vice-Chancellor Dr. D.K. Patnaik and Dean of Science Dr. A.A. Kosar, with Pro Vice-Chancellor Dr. D.K. Panda announcing a new Mathematics and Computing course.

The week featured lectures by experts on Vedic mathematics, ancient mathematics, and Srinivasa Ramanujan, along with activities like a film screening, a quiz, and a poster-making competition. Over 150 students participated in these events. The program concluded with a prize distribution, and Dr. Rinku Verma, Head of the Department, expressed gratitude to all involved, promising future events to encourage student engagement in Mathematics.



Club Flashes



Sahityik: The Literature Club organized Treasure Hunt and DC Vs Marvel Quiz for Students of Mediacaps University headed by Dr. Shalini Modh, Department of Languages.



The Advanced Studies Club inaugurated its bi-monthly magazine "Opportune" on November 04, 2024 in presence of the Club Coordinator Dr. Ranubala Marothiya, Club President & Editor-in-chief Mr. Aayan Pandit and Sr. Editor Ms. Riddhima Kaushal. The inauguration ceremony was organised with all the current and the previous team members.



Advanced Studies Club organised "CryptoChain: Fundamental Workshop on Blockchain" on November 06, 2024 with Mr. Batuk Sharma, a blockchain expert as the keynote speaker. The event concluded with a quiz and goodies and participation certificates were given to all the participants.

The MU E-Cell organized E-Summit 2024, fostering entrepreneurial innovation and networking amongst aspiring entrepreneurs, industry leaders, and investors.



Cultural Club under the headship of Dr. Preeti Jain performed an out-reach activity at Gold Coin Sewa Trust on the occasion of Diwali. All the club members distributed essential groceries and items.



Faculty Flashes

Prof. Chayan Gupta, Ashwin Sharma and Monika Pagare, Department of Civil Engineering, have been appointed as Master Trainers for Internal Quality Assurance Cell (IQAC) specially for OBE on the basis of Quiz and Interview.



Dr. Ruchir Lashkari's, Department of Civil Engineering, thesis work entitled "Impact Analysis and Prediction of Vehicular Pollution on Ambient Air Quality of Asian Highway 47 at Indore City" has been recognized and appreciated by the honourable Mayor of Indore, Shri Pushyamitra Bhargava.



Dr. Rajendra Kumar Sharma, Department of Chemistry, delivered an expert lecture on the topic "Recent Advances in Chemical Sciences" at Government B.S.N. P.G. College, Shajapur (M.P.) on December 15, 2024.



Faculty Flashes

Dr. Anjali Soni, Department of Chemistry has successfully completed Level 2 training program on Outcome Based Education and is known as designated "Level 2 Trainer for OBE in IQAC".

Dr. Preeti Jain, Department of Chemistry was felicitated by Digii 100 at New Delhi.

Ms. Anjali Sen and Ms. Ranu Gir, Dept. of Chemistry attended Laser Symposium at RRCAT Indore on December 02, 2024.

Ms. Akansha Meval, Department of Pharmacy secured 2nd Position in National Conference organized by CDGI, Indore.

Ms. Nisha Mandloi, Department of Pharmacy secured 2nd Position in International Conference organized by Vikram University, Indore.

Ms Ashwini Patil, Department of Pharmacy, attended a webinar on 'Trends and innovation in pharmaceutical manufacturing: technical challenges and recommendation' on December 1st, 2024. She also attended a webinar on 'Challenges and opportunity in pharmacy profession to make India Pharma Superpower in 2030' on December 08, 2024. These were organised by Society of pharmaceutical science and research.



Dr. Santosh S Raghuwanshi, Department of Electrical Engineering registered an Indian copyright on "Stability Analysis of Grid Oriented PV System Using ETAP".

Prof. Jyoti Kukade and Prof. Vidhya S Barpha completed Ph.D. in Nov 2024.



Faculty Flashes

Profs. Keerti Acharya and Deepali Biniwale, Department of Mathematics received Certificate of Appreciation for their hard work as Criteria Coordinators for NAAC Accreditation by Medicaps University, Indore.

Under the supervision of Dr. Pranjali Kekre, Department of Mathematics, two research scholars – Miss Kajal Mittal and Mr Shaikh Jamir Salim have been awarded PhD.

Under the guidance of Dr Rekha Jain, Department of Mathematics, Mr Jagtap Harshal Subhash Rao has been awarded PhD.

Dr Rekha Jain had attended a three-day National Conference at Delhi “Vision of Viksit Bharat” from 16–18 November, 2024.

Dr. Rinku Verma attended a one-day program “Women leaders: Shaping Academic Excellence for Viksit Bharat @ 2047” at IIT Delhi on 13 December, 2024.

The Department of Mathematics received Grant For “Mathematics Week Celebrations” from MPCST(Bhopal) and NCSTC (New Delhi). Dr. Pranjali Kekre and Dr. Keerti Acharya were the Convener and the Co-Convener of the event.

Prof. Awdhesh Singh Bhardoriya, Department of Languages was awarded Doctorate Degree in the 7th convocation of Medicaps University in November 2024.



Dr. Malyaj Das, Department of Physics attended a one week Faculty Development Programme on “Indian Knowledge System and NEP 2020: Prospect and Retrospect” organised jointly by Rashtriya Arts and Science College, M.H. and A.C.T. Academy, Kerala from 11 to 17 November, 2024.

Prof. Bharat Pahadiya, Department of Information Technology has Published a patent on “Implementing an RFID-Based, and AI-Powered system and method for library Management” in October 2024.

Prof. Bharat Pahadiya, Department of Information Technology has actively participated as a Reviewer in 3rd International conference on Signals, Machines & Automation (SIGMA) 2024 Sponsored and supported by NHPC & Springer dated 20–22 December, 2024.

Faculty Flashes

Prof. Ashwin Parihar, Department of Civil Engineering convened an outreach activity for Students of class XI and XII at the Govt. Atridevi Higher Secondary School, Sudama Nagar ,Indore on October 18, 2024. Also Prof. Dr. Ruchir Lashkari, Department of Civil Engineering, instructed and demonstrated the "Awareness on Environmental Issues and its Control Strategies".



Prof. Deepak Patel and Prof. Ashwin Parihar, Department of Civil Engineering coordinated an Industrial Visit to A-One Concrete Pvt. Ltd. on November 20, 2024 for the students of 2nd and 3rd year, to learn about RMC (Ready-Mix concrete) Plant.

Dr. Chayan Gupta and Prof. Ajit k. Jain as conveners and Mr. Deepak Patel and Mr. Deepak Jain as Faculty Coordinators organized a National Workshop on "Ancient techniques of Building Planning & Construction: Vastu Shastra", on 26th and 27th November, 2024. It was attended by faculty, engineers, industrialists and students.

Dr. Rajendra Kumar Sharma, Department of Chemistry attended an event titled "Jan-Jatiya Gyan Adhyayan evam Shodh ke Naye Aayam" on October 09, 2024 organized by MPPURC, Bhopal.

Faculty Flashes



Dr. Anjali Soni and Dr. Rajendra Kumar Sharma, Department of Chemistry, convened an outreach activity titled as "Importance of Science and Chemistry" at Govt. Prayogik Madhyamik Vidyalay, Bijalpur (Indore) on October 05, 2024.

Dr. Shailendra Chouhan and Dr. Hemant Khambete, Department of Pharmacy attended a workshop on 'Nanomaterials: Recent Advances and Future Prospects' on 10-11 December, 2024 organised by IIT Gandhinagar and University of Miami.

The faculty of Pharmacy organised an industrial Visit to Symbiotech Pharma Lab ,Rau on November 26 and 30 and also on December 7, 2024 for B. Pharm V semester students.

Professors Shalini Sharma, Deepti Pal, Mamta Gour and Hitendra Kaur Sidhwani, Department of Chemistry organized an outreach activity on Experiments on Volumetric Analysis at Govt. Higher Secondary School, Sagor on October 07, 2024.



Dr. Anjali Soni participated in an online faculty development program on 'Risk to Resilience–Innovative resilient strategies for mitigating Climate Change' from 16 to 21 December, 2024 at IPS Academy.

Dr. Preeti Jain, Dr. Anjali Soni of the Department of Chemistry attended an event titled Women Leaders Shaping Academic@2047 on December 13, 2024 at UGC, IIT Indore.

Dr. Sandeep Bhongade, Professor at SGSITS Indore, presented a research talk titled "Frequency Control Scheme in Restructured Power Systems" on October 09, 2024, with Prof. Sanjiv K. Jain as convener and Prof. Preeti Singh and Prof. Neha Verma as co-conveners to the event.

Faculty Flashes

Dr. Anjali Soni, Department of Chemistry attended an International Conference on Futuristic Science and Technology on 15 and 16 October, 2024 organized by S.S. in Chemistry Vikram University, Ujjain.

Faculty of Pharmacy organised expert lecture on "Hands on Training on Fundamental techniques and Applications of HPLC" on 22-23 Nov 2024. The lecture was given by Mr. Nasir Ansari (Chief Manager at Piramal Pharma Limited Mandu, M.P.) which aims to provide theoretical as well as practical experience on HPLC as it is very critical and important technology for research and Pharmaceutical Industry.



Profs. Rupali Sontakke, Himani Hirvey and Niharika Gokhale, Department of Pharmacy, attended an FDP on "Generative AI: A comprehensive approach" to research writing, proposal development, and funding from 25 to 30 November, 2024 organised by Department of social work, Nehru arts and science college, Tamil Nadu, India.

Profs. Urvashi Sharma, Himani Hirvey and Poonam Sharma, Department of Pharmacy attended an International Conference on 2 and 3 December, 2024 organised by Shree Dhanvantary Pharmacy College, Kim-Surat on 'Emerging Trends in Drug Development and Delivery'.

Prof. Sourabh billore, Department of Pharmacy attended One-Day Awareness Programme on Research Data Management on November 16, 2024 organised by Information and Library Network (INFLIBNET) Centre, Gandhinagar, Gujarat.

Dr. Sandeep Bhongade to Present Research Talk on "Frequency Control Scheme in Restructured Power Systems" at SGSITS Indore on October 9, 2024 with Prof. Sanjiv K. Jain to convene, with Prof. Preeti Singh and Prof. Neha Verma as co-conveners.

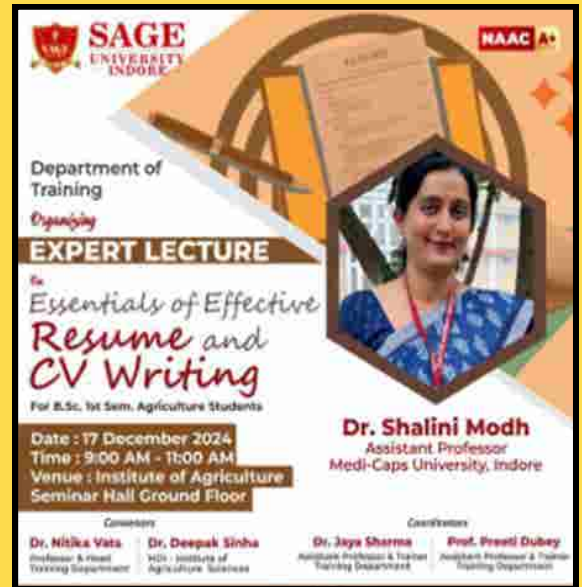
Faculty Flashes



Dr. RK Pal, Ms. Sharda Patwa, and students of the Department of Electrical Engineering, conducted an outreach activity on "Electrical Safety and Awareness" at Higher Secondary School, Pigdumbar Rau on November 12, 2024.

Dr. Supriya Kumawat, Assistant Professor, Department of Commerce is awarded PhD.

Dr. Supriya Kumawat and Prof. Vatsala Singh, Department of Commerce attended a Five-day National Level Online FDP on "Empowering Educators: Core Skills For 21st Century Teachers" from 23rd to 28th December, 2024 organized by GOBI Arts & Science College, Gobichettipalayam, Erode (DT), Tamil Nadu.



Dr. Shalini Modh delivered a lecture on "Essentials of Effective Resume and CV writing" to Bsc. Ag Students and faculties of Sage university on 17 December, 2024.

Dr Prachi Sathe, Dr Shalini Modh, Dr Anisha Jain organised an outreach activity during their Seed Money Project visit for "Synchronic and Diachronic Analysis of Language in Nimar-Malwa Region".



Faculty Flashes

The Faculty of Pharmacy conducted an industrial visit on October 14, 2024 to Glenmark Pharma Sez, Pithampur for B. Pharm V semester students.



The Faculty of Pharmacy organised an industrial visit to IPCA, Pithampur on October 05, 2024 for B. Pharm V semester students.

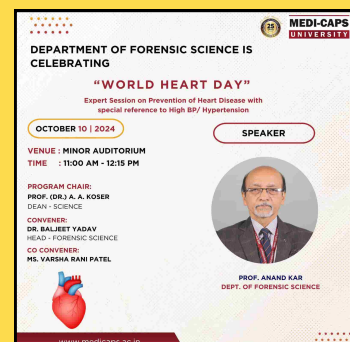
Department of IT organized an expert lecture on "The Intersection of Blockchain and Forensics: Emerging Trends and Challenges" on 10th September 2024 by Pranay Chouhan, Cyber Security Consultant.

Dr. Rohini Kale received best national presentation award for groundbreaking research at prestigious Bhartiya Sikhshan Mandal conference.



Dr Anisha Jain, Department of Languages, delivered a lecture as a resource person on the topic "Teaching - Students Effective Listening Skills for General and Competitive Listening" during the One-Week National Level online FDP on, "Enriching Educators with Tools and Strategies to Enhance Teaching, Learning and Research", organized by the Department of English, Vardhaman College of Engineering, Shamshabad, Hyderabad, T.S., from 18 to 24 November, 2024.

Dr. A. A. Koser, Dean of Science , Dr. Baljeet Yadav , Head of Forensic Science with co-convener Ms. Varsha Rani Patel organized an expert session on "Prevention on Heart Disease with special reference to High BP / Hypertention."



Research Publication

Dr. Preeti Jain and Hitendra kaur Sidhwani, Department of Chemistry published a research paper entitled Advancements in Green Chemistry: Strategies for Sustainable Nanoparticle Synthesis and Environmental Impact Reduction on December 12 ,2024 in Nanotechnology Perceptions, ISSN 1660-6795.



Dr. Preeti Jain, Department of Chemistry published a research paper entitled 'Evaluating the corrosion inhibition potential of expired ivermectin drug on mild steel: A comprehensive multi method investigation' in the journal named Corrosion Communication.

Dr. Anjali Soni and Iti Dhakad (Research Scholar), Department of Chemistry published a research paper entitled 'Synthesis and application of Metal Oxide Nanoparticles in Photocatalytic water splitting' in October 2024, in Library Progress International.

Dr. Sugata Goswami, Department of Chemistry published a research paper entitled 'Unraveling the effect of reagent vibrational excitation on the scattering mechanism of the benchmark $H + H_2 \rightarrow H_2 + H$ hydrogen exchange reaction in the coupled 12E ground electronic manifold' on November 14, 2024 in journal named 'Physical Chemistry Chemical Physics'.

Dr. Anjali Soni and Harish Patidar (Research Scholar), Department of Chemistry published a research paper titled 'Study of seasonal variation in water quality parameters of various ponds in Dist Dhar Madhya Pradesh' in October 2024 in journal named 'Library Progress International'.

Dr. Anjali Soni and Aarti Pathak (Research Scholar), Department of Chemistry published a research paper entitled 'The influence of Manganese dopind on Zinc oxide Nanoparticles for Phtocatalytic Degradation of Methylene Blue Dye' in December 2024 in 'Eurasian Journal of Analytical Chemistry'.

Dr. Anjali Soni and Swati Mishra (Research Scholar), Department of Chemistry published a research paper titled 'Establishment of Nano Hydroxyapatite by wet Chemical process Characterization and Kinetic Study' in December 2024 in 'African Journal of Bio medical Research'.

Dr. Mithun Kumar Ghosh, Department of Chemistry published various research papers titled 'Synthesis and Photocatalytic Performance of a Dinuclear Cadmium (II)-based Coordination Polymer for Degradation of Organic Pollutants in Wastewater.' in Polyhedron. 'Development of Luminescent Zinc Coordination Polymers: Synthesis, Characterization and Applications for Sensing of Dopamine and Ferric Ions' in 'Microchemical Journal'. 'Construction of a New 2D Coordination Polymer: Degradation Antibiotic Nitrofurantoin and Magnetism' in journal named 'Applied Organometallic Chemistry' and

Research Publication

Prince Sharma, Sahil Rohila, Uzma Hasan, P Hari Krishna ET AL of the Department of Physics published a research paper titled 'Multiscale Modeling-Driven Synthesis of Cu₄₀Zn₂₄Ni₂₄Ag₈Hg₄ High Entropy Alloy with Antibacterial Properties' on October 19, 2024 in journal named Nano-structures and Nano-objects.

Prof. Jyoti Pandey, Rupali Sontakke Himani Hirvey, Department of Pharmacy published a research paper titled 'In Vitro and in Vivo Evaluation of the Anti-diabetic Activity and Inhibitory Activity of Annona Squamosa Leaves' on 03 October in Biochemical And Cellular Archives journal.

Nisha Mandloi, Department of Pharmacy published a research paper entitled 'Antibacterial Activity of the Roots of Medicinal Plant Catharanthus Roseus (L)' on November 20, 2024 in 'The Bioscan, an International Quarterly Journal of Life Sciences'.

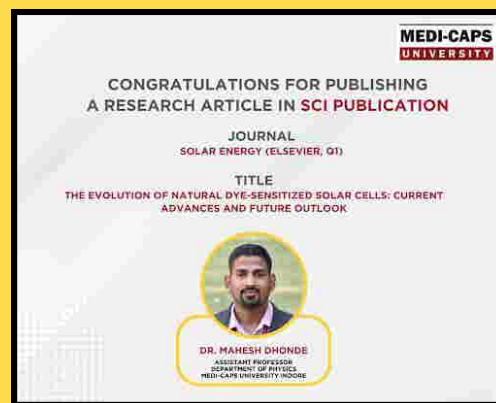
Aditya S. Patondikar, Department of Commerce published a research paper titled "Does NLP (Neuro LINGUISTIC PROGRAMMING) Techniques Explains The Relationship Between Emotional Self-Awareness And Innovative Work Behaviour".

Rohit Joshi, Sunil Mishra, Anupama Pardeshi and Manpreet Kaur Bhatia, Department of Commerce published a research paper titled "Hyper Personalisation In Motor Insurance: Understanding Telematics Insurance Adoption Using The Extended technology acceptance model" in the Indian journal of marketing

Neeta Kalra and Haldhar Sharma, Department of Commerce published a research paper titled "An Empirical Study on Impact of PMSVNIDHI Scheme on the Livelihood of Street Vendors in Indore" in the Nanotechnology Perception.



Kamal Prajapat, Ujjwal Mahajan, Kirti Sahu, Mahesh Dhonde, Parasharam M Shirage of the Department of Physics published a research paper entitled 'The Evolution of natural Dye-Sensitized solar Cells: Current Advances and future outlook' in December 2024 in Solar Energy (Elsevier, Q1), Impact Factor: 6.0.

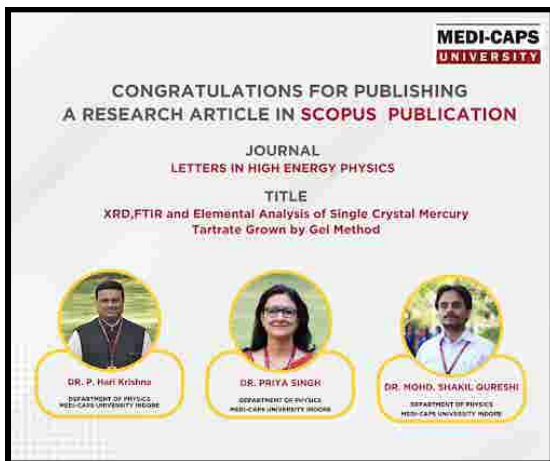


Kamal Prajapat, Ujjwal Mahajan, Ashok Kumar, Mahesh Dhonde, Kirti Sahu, Shweta Vyas et. al of the Department of Physics published a research paper titled 'Next-generation counter electrodes for dye-sensitized solar cells: A comprehensive overview' in Sustainable Materials and Technologies (Elsevier, Q1), Impact Factor: 8.7 in December 2024.

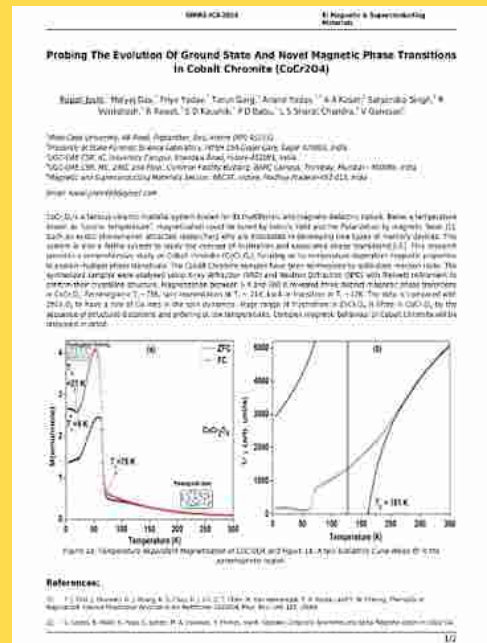
Research Publication



Prof. P.Hari Krishna, Priya Singh, Mohd. Shakil Qureshi, Sanchita Das, Department of Physics published a research paper titled 'XRD,FTIR and Elemental Analysis of Single Crystal Mercury Tartrate Grown by Gel Method' in Letters in High Energy Physics on September 25, 2024.



Rupali Joshi, Malyaj Das, Priya Yadav, Tarun Garg, Anand Yadav, A A Koser, Satyendra Singh, R Venkatesh, R Rawat, S D Kaushik, P D Babu, L S Sharat Chandra of the Department of Physics published a research paper entitled 'Probing The Evolution Of Ground State And Novel Magnetic Phase Transitions In Cobalt Chromite (CoCr2O4)' in International Union of Materials Research Societies" in International Conference in Asia, PE-193 (page no 195) in December 2024.



Dr. Sanjiv K Jain, Department of Electrical Engineering, published a research paper titled "Blockchain-Based Internet of Things: Machine Learning Suspicious Object Traceability System" in the proceedings of the 8th International (Scopus) Conference on Microelectronics, Electromagnetics, and Telecommunications (ICMEET 2023) on December 11, 2024.

Dr. Ashish Soni, Department of Mathematics, published a research paper entitled "Beta Function Its Properties and Applications Use In Computer Science And Information Technology" in Journal of Technology VOLUME 12 ISSUE 4, 2024 ISSN: 10123407.

Dr. Bharti Agarwal, Department of Mathematics, published a research paper entitled "Artificial Intelligence (AI): A Path for Wonderful Experience in Educational Journey" in the Journal of the K R Cama Oriental Institute Group I journal (UGC Care).

Research Publication

Dr Pranjali Kekre, Department of Mathematics, published a research paper entitled "Chromatic Bounds of a Line Graph using Signless Laplacian Values" in the Advances of Application in Discrete Mathematics Volume 42, ISSN number: 0974:1658.

Divita Sharma, Department of Mathematics, published a research paper entitled "Fixed Point Theorems in orthogonal space for Contractive Self Mapping" in the Indian Journal of Natural Sciences Vol 15. Issue 86 ISSN number 0976-0997 (web of Science).

Archana Dubey, Department of Mathematics, published a research paper entitled "Enhancing Equipment Replacement Decision -making in Asset Management: A Fuzzy Logic Based Approach" in the Journal of the Asiatic Society of Mumbai" (UGC CARE).

Dr. Ashish Soni, Department of Mathematics, published a research paper entitled "Improving Retinopathy Classification Using Optimized Support Vector Machines and Deep Learning Techniques" in the Communications on Applied Nonlinear Analysis ISSN: 1074-133X Vol 32 No. 3s (2025).

Dr. Megha Shrivastava, Dr. Kirty Jadhav, Ms. Deepali Biniwale and Anjali Saraf, Department of Mathematics, published a research paper entitled "Generalized Contractions for Self-Mappings in Theorem of Fixed Point" in the Indian Journal of Natural Sciences Vol.15 / Issue 85 / Aug / 2024 ISSN number 0976-0997 (web of Science).

Ms. Shweta Katarne & Dr. Shalini Modh, Department of English, published a research paper titled "Marvel-ous Linguistic: The Influence of Marvel Comics on Contemporary Language and Communication" in Library Progress International, Vol. July-Dec 2024, Scopus indexed.



Ms. Shweta Katarne & Dr. Shalini Modh, Department of English, published a research paper titled "Opening the Doors: Examining the Cause of Women Exploitation in Chup by Deepa" in NCC Review, Nov 2024, UGC Care.



Research Publication

Dr. Supriya Kumawat, Prof. Vatsala Singh and Mr. Naveen Sharma, Department of Commerce published a research paper titled "A Study on Role of Sukanya Samriddhi Yojana in Promoting Gender Equality in Financial Savings" in the "Anvesak Impact Facto" A bi-annual Journal, UGC Care Group -I.

Dr. Prachi Sathe, Dr. Anisha Jain, Dr. Shalini Modh, Department of English, published a research paper titled "Synchronic and Diachronic Analyses of Provincial Language in the Nimad Region of Madhya Pradesh" in Journal of Asiatic Society of Mumbai, 5/12/2024, UGC Care.



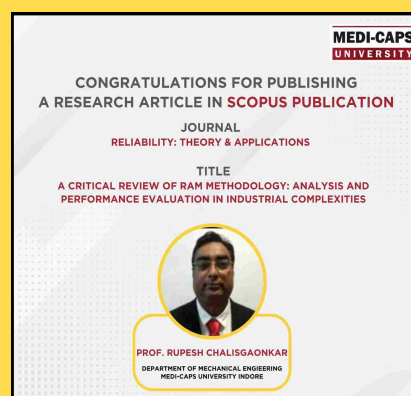
Dr. Mithun K Ghosh, Department of Chemistry published a research article titled "Development of Luminescent Zinc Coordination Polymer: Synthesis, Characterization and Application for Sensing of Dopamine and Ferric Ions" in Sci Publication's Microchemical Journal.



Prof. Ravi Vyas, Department of Commerce published a research paper titled "The Digital Shift: Impact of Banking and Payment System on Customer Experience in India" in the Scopus Publication "Journal of Management World".

Dr. Bhaktipriya Bhargava, Department of English, published a research paper titled "Reflections on Pandemic Times and the British Rule in Shashi Tharoor's An Era of Darkness: The British Empire in India" in IIS University Journal of Arts, 25/12/2024, UGC Care.

Prof. Rupesh Chalisgaonkar published a research paper titled "A Critical Review of Ram Methodology: Analysis and Performance Evaluation in Industrial Complexities" in Scopus Publication Journal "Reliability: Theory & Application".

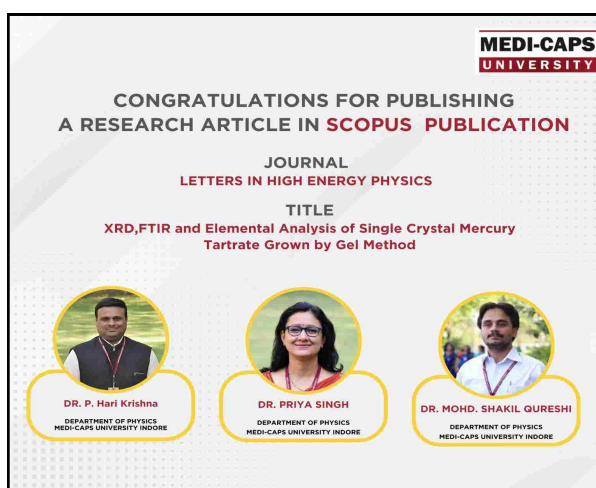


Dr. Rahul Dravid, Department of Mathematics published a research paper on "Applications of Differential Equations in Modelling Climate Change Impacts in Engineering Projects" in "Journal of Computational Analysis and Application".

Research Publication



Dr. P. Hari Krishna, Dr. Priya Singh, Dr. Mohd. Shakil Qureshi, Department of Physics published a research paper on the title "XRD, FTIO and Elemental Analysis of Single Crystal Mercury Tartrate grown by Gel Method" in the journal 'letters in High Energy Physics'.



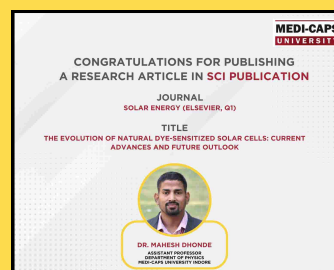
Dr. Vinitha G Nair, Department of Management Studies, awarded Ph.D "Impact of Digital Currency in the Financial System".



Dr. Mithun Kumar Ghosh, Department of Chemistry, published a research paper on the title "A tetrahedral zinc (II) coordination polymer: Synthesis, characterisation, and application in ascorbic acid fluorescence sensing".



Dr. Mahesh Dhonde, Department of Physics, published a research paper on the title "The Evolution of Natural Dye-Sensitized Solar Cells: Current Advances and Future Outlook" in the journal "Solar Energy (Elsevier, Q1)".



Dr. Ruby Bhatt, profs. Govinda Patil, Ankit Sandliya, Shailendra Gupta, Manish Joshi published a research article in Scopus publication entitled as "early detection of lung cancer using cloud based deep learning and chest x- rays".

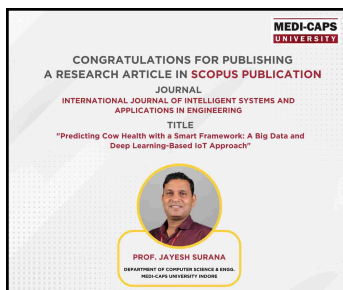


Research Publication

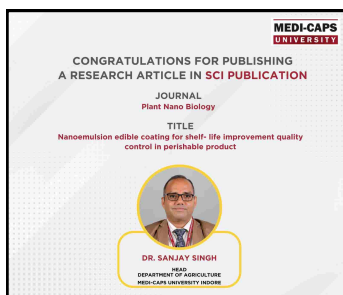
Profs. Sanjay Jain, prof. Jyoti Pandey, Niharika Gokhale, Poonam Sharma, Himani Hirvey published a research article in Scopus publication entitled as "investigation of Insilico studies of cytochrome P450 inhibitors".



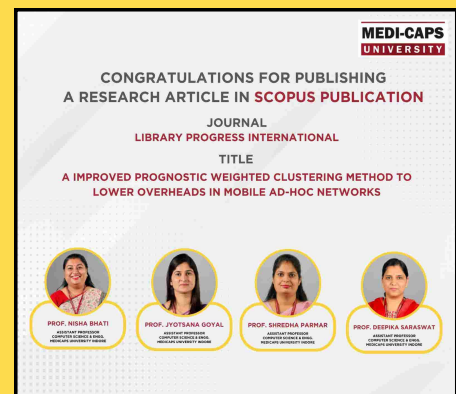
Prof. Jayesh Surana published a research article in Scopus publication entitled as "predicting cow health with a smart framework: a big data and deep learning-based IoT approach".



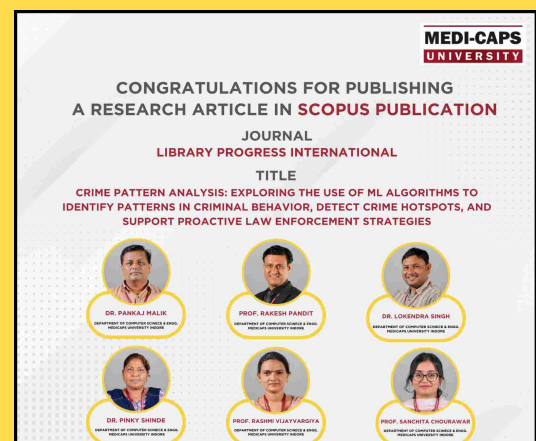
Dr. Sanjay Singh published a research article in SCI publication entitled as "Nanoemulsion edible coating for self life-improvement quality control in perishable product".



Prof. Nisha Bhatt, prof. Joystana Goyal, prof. Shredha Parmar, prof. Deepika Saraswat published a research article in Scopus publication entitled as "a improved prognostic weighted clustering method to lower overheads in mobile AD-HOC network".

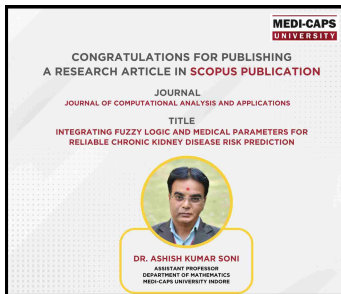


Dr. Pankaj Malik, Prof. Rakesh Pandit, Dr. Lokendra Singh, Dr. Pinky Shinde, Prof. Rashmi Vijayvargiya and Prof. Sanchita Chourawar, Department of Computer Science and Engineering published a research paper titled "Crime Pattern Analysis: Exploring the Use of ML Algorithms to Identify Patterns in Criminal Behavior, Detect Crime Hotspots and Support Proactive Law Enforcement Strategies in Library Progress International".



Research Publication

Dr. Ashish K. Soni, Department of Mathematics published a research paper titled "Integrating Fuzzy Logic and Medical Parameters for Reliable Chronic Kidney Disease Risk Prediction" in the Journal of Computational Analysis and Applications.



Dr. Rohini Kale, Department of Civil Engineering presented a research paper titled "Landslide Mitigation and Slope Stabilisation for Rural Infrastructure Protection: A Geotechnical Approach Towards Sustainable Development and Self Employment" at The National Conference of Research Scholars Vision For Viksit Bharat (VIVIBHA).



Prof. Arpit Deo, Dr. Safdar Sardar Khan, Prof. Ajit Singh Rajput, Prof. Ankita Chourasia, Department of Computer Science and Engineering published a research paper titled "A Progressive Approach for a Personalised Recommendation System Using Hybrid Deep Learning" in Inge'erie Des Systeme's D'information.



Prof. Devendra Singh Bais and Prof.(Dr.) Vibha Tiwari, Department of Electronics Engineering published a research paper titled "Revolutionizing Soybean Disease Detection Using the Internet of Things With Deep Convolution Networks" in the 'Current Science' journal.



Research Publication

Prof.(Dr.) Rekha Jain and Dr. Bharti Agrawal, Department of Mathematics published a research paper titled "Estimating Balanced Growth in Intake Capacity of Engineering Institutions Across Major States of India Through Statistical Methods" in Nanotechnology Perceptions journal.



Dr. Vipin Sharma, Department of Mechanical Engineering published a research paper titled "Co-Pyrolisis of Furniture Wood with mixed plastics and waste tyres: assessment of synergistic effect on biofuel yield and product characterization under different blend ratio."



Prof. Abdul Razzak K. Qureshi, Shivani Patnaha, Prerita Kulkarni, Priyanka Singh, Manish Joshi, Indra Vaidya, Department of Computer Science and Computer Applications published a research paper "Machine Learning-Based Intrusion Detection Systems For Securing Cloud Networks" in 'Library Progress International'.



Dr. Mukesh Patidar, Department of Bio Technology published a research paper titled "Biodegradation of low density polyethylene (LDPE) by Pseudomonas aeruginosa strain P9 isolated from poultry droppings" in "Exploratory Animal and Medical Research".



Research Publication

Dr. Mithun K Ghosh, Department of Chemistry published a research paper titled "Construction of a New 2D Coordination Polymer: Degradation Antibiotic Nitrofurantoin and Magnetism" in 'Applied Organometallic Chemistry'



Dr. Sanjay Singh , Head Department of Agriculture Published a research paper on the title "Review on the Applicability of nanostructured flame retardants for preventing fire in livestock and crop fields" in the journal 'Nano-Structures and Nano-Objects'.



Prof. Nisha Kumari, Department of Mechanical Engineering published a research paper titled "Efficient Prediction of Mechanical properties of Boron Nitride Nanosheets using Artificial Neural Network" in 'Physica Scripta'.



Dr. Manoranjan Kumar Sinha, Department of Electronics Engineering
Dr. Piyush Chouhan, Department of Electronics Engineering, Prof. Pavan Mehta, Department of Electrical Engineering, Dr. Santosh Raghuvanshi, Department of Electrical Engineering published a research paper titled "Design and Optimisation of Hybrid Solar PV energy System For Rural Areas in the Narmada Valley, India" in 'International Journal of Ambient Energy'.



Patents Published

Dr. Rupali Sontakke, Dr. Mousumi Kar Pillai, Dr. Sanjay Jain, Ms. Asha Rani Pyathi and Mr. Yashwardhan Bundela of the Department of Pharmacy published a patent titled 'Mamoru kavaka nail lacquer' published by Copy right office, Government of India on September 20, 2024.

Dr. Mousumi Kar Pillai of the Department of Pharmacy published a patent by The patent office, Government of India titled 'Automated Grading and Feedback system for educational assessments' on October 3, 2024.

Dr. Raj Kumar Gupta, Dr. Jaidev Kumar, Dr. Priya Singh, Dr. Meenakshi Singh, Prof. Praveen Kumar, Prof. Basant Kumar Das, Prof. P Anjaiah, Dr. Rajeev Ranjan, Prof. Rajni Kant Verma, Prof. Mazharul Islam, Dr. Uday Nandlal Trivedi, Prof. Sanjay Kumar Singh, Department of Physics published a patent titled 'Improving the Ability of Bismuth Ferrite (BiFeO₃) Supercapacitor Electrodes to Store'.

Dr. Prashant Panse published a patent entitled as "An Artificial Intelligence-Enabled Robot for Home Assistance".

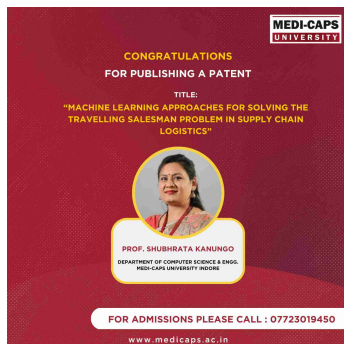
Dr. Malyaj Das, prof. Priya Yadav, prof. Rupali Joshi, and prof. V Ganesan, Department of Physics authored two book chapters titled 'X Ray Photoelectron Spectroscopy (XPS) Study of Nickel Chromite (NiCr₂O₄)' and 'Electronic Structure of Cobalt Chromite: An X-Ray photoelectron spectroscopy study' published by Frontiers in Materials Science and Technology: Energy and Environment in Shanlax Publications.

Mr. Bharat Pahadiya published a patent entitled as "Implementing an RFID-Based, IoT-Based, and AI-Powered System and Method for Library Management".

Mr. Shyam Patel published a patent entitled as "A System and Method Based on AI, ML, and IoT for Monitoring, Diagnosing, and Preventing Rainy Season Diseases".

Dr. Bhaktipriya Bhargava, Department of Languages, published a research paper titled "Reflections on Pandemic Times and the British Rule in Shashi Tharoor's An Era of Darkness: The British Empire in India" in IIS University Journal of Arts, 25/12/2024, UGC Care.

Patents Published



Prof. Shubhrata Kanungo, Department of Computer Science and Engineering, published a patent on the title "Machine Learning approaches for solving the Travelling Salesman Problem in supply chain logistics".

Dr. Vipin Sharma, Department of Mechanical Engineering, published a patent on the title "Artificial Intelligence (AI) based Cloud Security Detecting device".



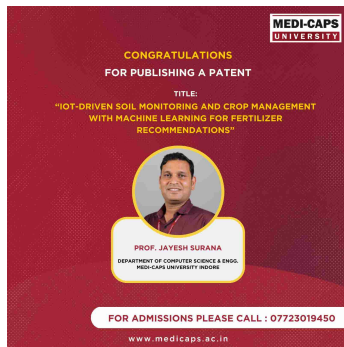
Prof. Sandeep Veerwani published a patent entitled as "integrating gamification with machine learning to enhance EFL learning and Student motivation in higher education".

Prof. D K Panda and Prof. Manish Mahajan received an award for the best paper entitled as "designing and analysis of 2:1 waveguide power combiner for ku- band using MCMT technique" in international conference (ICETE 2024)



Prof. Mohit Raikwar, Department of Computer Science and Engineering published a patent titled "Advanced Ear Biometrics Authentication Using Efficient CNN for Enhanced Security".

Patents Published



Prof. Jayesh Surana, Department of Computer Science and Engineering published a patent titled IOT-Driven Soil Monitoring and Crop Management With Machine Learning for Fertilizer Recommendations.

Prof. Gaurav Matange, Department of Electronics Engineering published a patent titled "AI-Enhanced Virtual Network Function Management in 5G Wireless Networks".



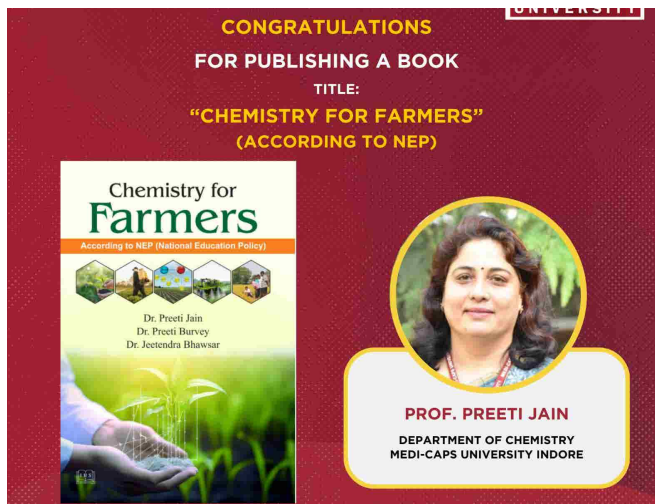
Prof. Vishal Sharma, Department of Computer Science and Engineering published a patent titled "Early Detection and Classification of Breast Cancer Using Image Processing, IOT, and Machine Learning".

Dr. Vipin Sharma, Department of Mechanical Engineering received grant of a patent titled "Automatic Headlight Beam Controller For Vehicles"



Book Published

Dr. Preeti Jain, Department of Chemistry published a book named 'Chemistry for Farmers' in December 2024.



Dr. Niharika Gokhale, Department of Pharmacy published a book named 'Textbook of instrumental method of analysis' in November ,2024.

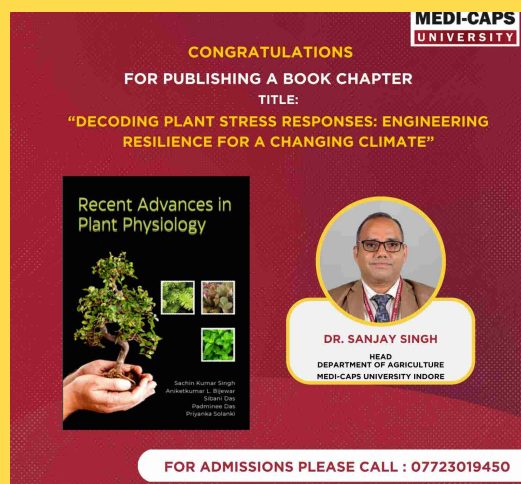
Dr. Neetik Mukherjee, Department of Chemistry published a book chapter named 'The Degeneracy and Metallic Characters in Free and Confined Weakly Coupled Plasmas: With and Without an Electric Field' in December 2024 which was published by Nova Science Publishers.

Dr. Mousumi Kar Pillai, Department of Pharmacy published a book chapter titled 'Synergizing Surgical Precision' on November 03, 2024 published by Apple Academy Press.

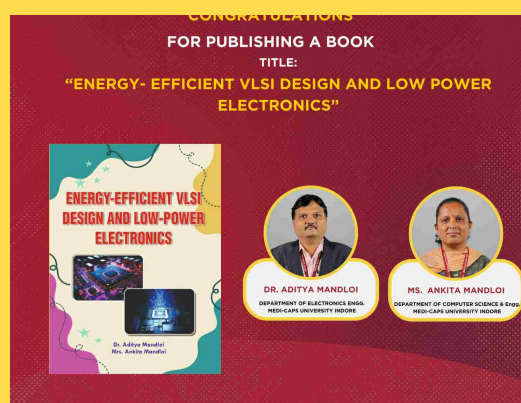
Dr. Rupali Sontakke, Department of Pharmacy published a book chapter named 'Regulatory Insights into Artificial Intelligence in Drug Delivery and Medicinal Devices' on November 21, 2024 published by Bentham Science Publishers Pte. Ltd.

Dr. Shailendra Chouhan, Department of Pharmacy published a book chapter titled 'Applications of machine learning and deep learning in medical Diagnosis' in November 2024 published by Elsevier.

Dr. Sanjay Singh, Department of Agriculture, published a book chapter on the title "Decoding Plant Stress Responses: Engineering Resilience for a changing climate" in the book "Recent Advances in Plant Physiology".

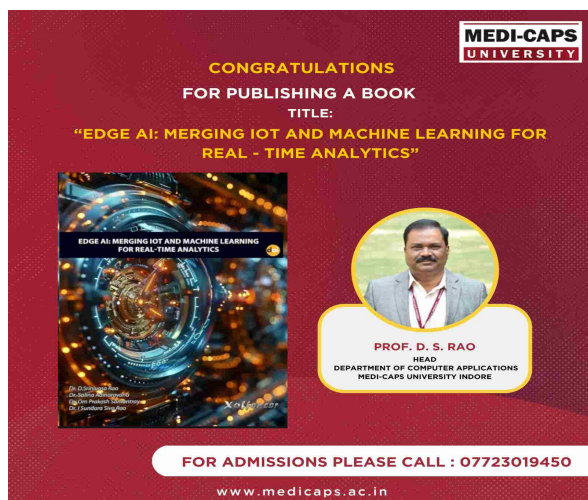


Dr. Aditya Mandloi , Department of Electronics Engineering, Ms. Ankita Mandloi Department of Computer Science and Engineering Published a book on Title "Energy- Efficient VLSI Design and Low Power Electronics".

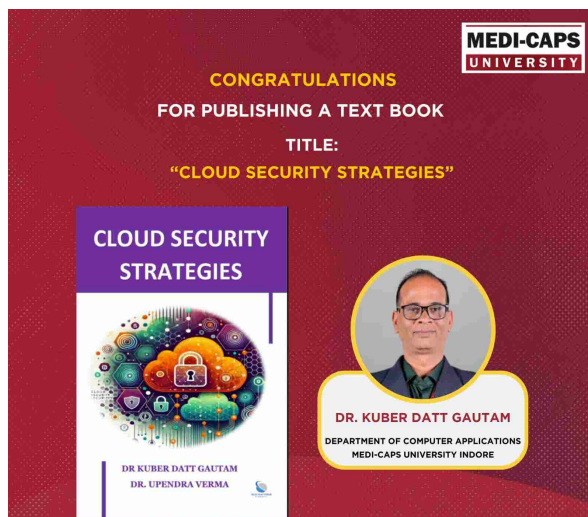


Book Published

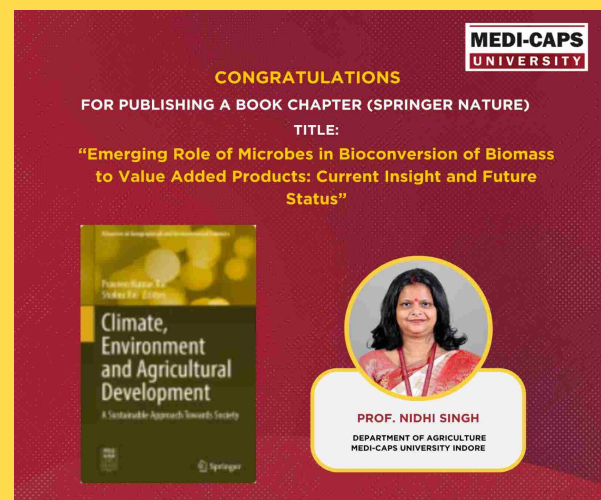
Prof. D. S. Rao, Department of Computer Application, Published a book on Title "Edge AI: Merging IOT and Machine Learning for Real - Time Analytics".



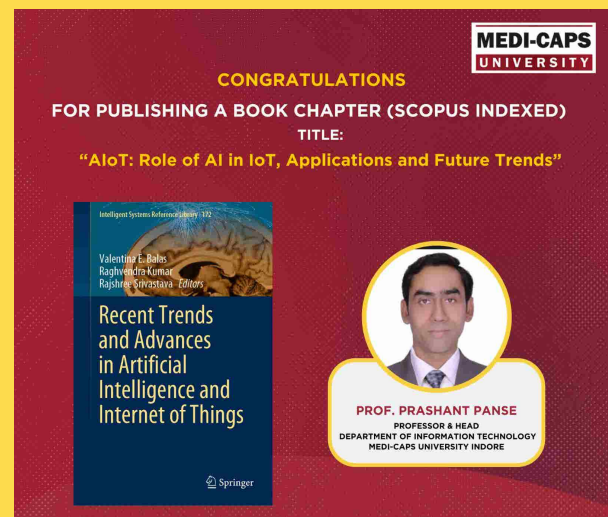
Dr. Kuber Datt Gautam, Department of Computer Applications published a text book titled "Cloud Security Strategies"



Prof. Nidhi Singh, Department of Agriculture published a text book titled "Emerging Roles of Microbes in Bioconversion of Biomass to Value Added Product: Current Insight and Future Status".



Prof. Prashant Panse, Department of Information Technology published a text book chapter titled "AIoT: Role of AI in IoT, Applications and Future Trends".



Events And Workshops

Dr. Surekha Nagarth, Department of Commerce organised an expert lecture on “Computation of Total Income” on 6th November, 2024.

Dr. Ravi Vyas, Department of Commerce organised One day workshop on “Research Methodology and Data Analysis” on 18th November, 2024.

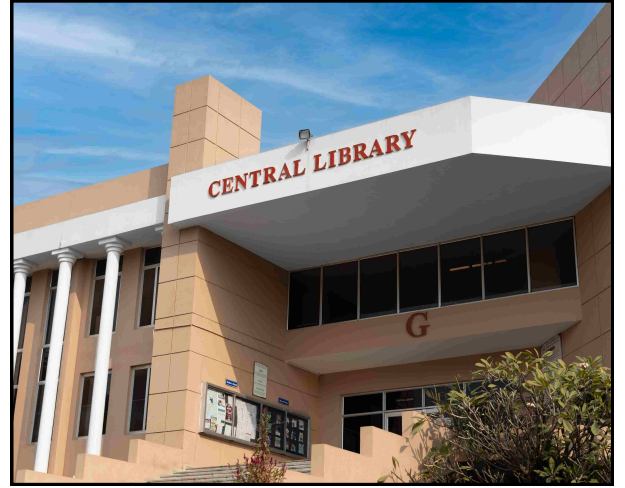
Prof. Dr. Pramod S. Nair, Dean of Engineering, Prof. Dr. Ajay Kulkarni, HOD of Electronics Engineering along with Dr. Juned Ahmed as convener organized expert lecture series on “Electronics: A Recent Transition, Its Application, and It’s Future” at Medicaps University S-Block from October 07 2024 to November 06 2024.

Medicaps University, in partnership with Wittygossip Association, successfully hosted the Global Peace and Sustainable Development Summit 2025, collaborating with prestigious institutions from Indore, including Shri Vaishnav Institute of Management and Science (SVIMS).

Medi-Caps University also announced that GPSDS-2025 will also be hosted at Medicaps University Campus. A planning and felicitation meeting took place at SVIMS, chaired by Dr. George Thomas, Director of SVIMS. Representing Medicaps University were Dr. Ravindra Pathak, Head of the Office of International Relations, and Dr. Parul Sharda, Associate Professor and Coordinator of GPSDS-2024.



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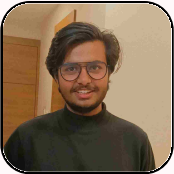
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