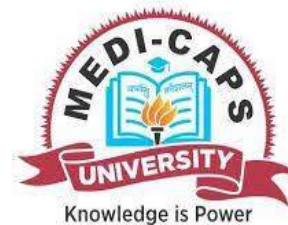




Medi-Caps University FLASHES



January 2024 Volume 4 : Issue 1

Quarterly Newsletter



The 6th CONVOCAION

The **6th Convocation** of the Medi-Caps University took place on November 29th, 2023, in the presence of Prof. T.G. Sitaram, Chairman AICTE, New Delhi as the Chief Guest and Dr. Bharat Singh, Chairman MPPURC, Bhopal, as the Guest of Honour, accompanied by Hon'ble Chancellor Shri R.C. Mittal, Vice-Chancellor Dr. Dilip Kumar Patnaik and other distinguished personalities.

The Convocation Ceremony was characterised by a prominent ambience with graduates and dignitaries.

The day was filled with notable events, including an inspiring book launch and the inauguration of the groundbreaking **47 Billion Center** of Excellence. These initiatives mark significant milestones in the university's journey towards academic excellence and innovation.



Special Events

“Root to Success: A Journey Through Mathematical Path”

On the occasion of National Mathematics Week 22nd - 28th December 2023 the Department of Mathematics organised an event to tribute Great Mathematician Shrinivas Ramanujan. The objective of this event was to develop, motivate, and, inspire faculties, researchers, and students to take an interest in the field of mathematics and mathematical research.

The event commenced with an expert lecture on the topic “Coding and Decoding” by Prof. (Dr.) Ashish Soni. Followed by the lecture on “Applications of Differential Equation” by Prof. (Dr.) Rahul Dravid on the second day. On its third day the session was chaired by Prof. (Dr.) Rinku Verma. Followed by a game called Mathematical Tambola on the fourth day and a movie show “A Trip to Infinity” on its last day.

In this weekly event, approximately 150 students and faculty members participated. Professor (Dr.) A.A Koser, Dean of Science, and Professor (Dr.) Rekha Jain, Head of the Department of Mathematics, chaired the program. Dr. Keerti Acharya, the convener of the program, delivered the vote of thanks to all the speakers and participants. She also expressed gratitude to the co-convener of the program, Ms. Priyanka Sisodiya, for her contributions to the success of the event. The Hon'ble Vice-Chancellor, Prof. (Dr.) D. K. Patnaik, OSD Mr. Palash Garg along with Ms. Saloni Garg, Director of Branding and Advertisement, Pro-Vice-Chancellor Prof. (Dr.) D. K. Panda, Deputy Pro-Vice-Chancellor (Dr.) Ankur Saxena, the Registrar, Chief Administrative Officer, Deans, and Heads of various departments graced the event with their presence.




UNIVERSITY

Department of Mathematics
is organising

**NATIONAL
MATHEMATICS
WEEK - 2023**

"ROOT TO SUCCESS" :
A JOURNEY THROUGH MATHEMATICAL PATH

22 - 28 December 2023



Srinivasa Ramanujan

EVENTS

- EXPERT LECTURES
- QUIZ
- MOVIE
- MATHEMATICAL GAMES



Value-Added Courses



A **Career Counseling Session** was organised by the Department of Civil Engineering, Medi-Caps University, on November 22, 2023, for 3rd year students to make them aware of various opportunities and trends in the field of Civil Engineering after graduation. The resource person for the session was Prof. Ankit Soni, Asst. Professor, Civil Engineering Department. The Head of the Department appreciated the efforts of faculty members.

Introduction of Faculty of Law

On December 25, 2023, Medi-Caps University inaugurated **The Faculty of Law**. With the launching of new faculty our students successfully brought off the event with a huge gathering by performing an energetic and relishing flash mob followed by Spinz promotional activities.

The event was organised by Prof. (Dr.) Rekha Jain, Prof. Priyanka Dhasal, and Prof. Shweta Katrne.

Prof. (Dr.) Rekha Jain welcomed the director of the company Mr. Avinash with a sapling. More than 4000 students and 100s of faculty and staff actively participated in the promotional activities and many won the hampers.

Later the event, the organising committee extended a vote of thanks to the Hon'ble Vice-Chancellor, Pro. Vice-Chancellor, OSD to Chancellor, Director Branding, The Registrar and Asst. Registrar for availing the opportunity to conduct promotional activities and events for the emerging Faculty of Law. Also, the committee thanked the Discipline Coordinator and his team for volunteering the activities and events.



Workshops and Webinars

On December 11, 2023, the **Cyber Security Awareness Workshop** at Medi-Caps University was an enlightening journey into the world of online safety. Honoured to have Mr. Rajesh Dandotiya, Additional Deputy Commissioner of Police, Crime Branch, Indore, as our chief guest.



On December 2, 2023, Mr. Utkarsh Bhargava, Head of IDP, Indore, gave a speech at the seminar on **'Global Education Opportunities.'**



The Faculty of Pharmacy organised a workshop on November 24, 2023, regarding the **"Demonstration of HPLC"** taken by Ms. Himani Hirvey and Ms. Urvashi Sharma, Assistant Professor, Faculty of Pharmacy, Medi-Caps University, Indore. The workshop was convened by Prof. (Dr.) Sanjay Jain, to train and develop technical skills in Bachelor's of Forensic Science students about highly sophisticated instruments.

MoU

On November 5, 2023, Medi-Caps University signed an MoU with an **International Education Specialist (IDP)** to unveil the opportunities from the foreign education programme.



Medi-Caps University in collaboration with Woosong University, **South Korea announced a student exchange program.**

Diwali Milan Samaroh

On November 10, 2023, Medi-Caps University celebrated the spirit of togetherness with the delightful **Diwali Milan Samaroh** for our esteemed staff members in collaboration with HDFC.



Field Visit

Fourth-year students of **RAWE** were taken on an amazing educational field visit to Krishi Vigyan Kendra (KVV) in Dhar in October 2023.



Industrial Training



The Faculty of Pharmacy conducted an industrial visit to **Endo India Par Formulations Pvt. Ltd** in October 2023 to impart knowledge about various segments of Pharmaceutical Industries to Students.

The Department of Biotechnology organised an industrial visit to **Jaiv Vatika Research Laboratory and Production House** on Oct 28, 2023. The visit was insightful to the B.Sc Biotechnology students giving insights into biotechnology in the agricultural industry and the technology in the production of biofertilizers and nano-biofertilizers.



Expert Talk

The Department of Management, led by our esteemed Deputy Pro Vice-Chancellor and Dean Management Prof. Dr. Ankur Saxena unveiled **The IMA (Indore Management Association) students chapter MUMSC—Medi-Caps University Management Student Chapter**.

The Department of Electronics Engineering and Electrical Engineering of Medi-Caps University Indore organised an expert lecture on **“Exploring Career Pathways in Communication Engineering”** on October 19, 2023. Mr. Sachin Paranjape, a senior product manager at Walmart in the vibrant tech hub of Silicon Valley, San Francisco, delivered the lecture.

The Department of Electronics Engineering and Electrical Engineering of Medi-Caps University, Indore hosted the **IEEE - PELS & IES Lecture Series** on December 25, 2023. The lecture series featured distinguished speakers, Dr. Sanjib Kumar Panda, Associate Professor, Department of Electrical & Computer Engineering, National University of Singapore, and Prof. Shri Niwas Singh, Director, Atal Bihari Vajpai IIITM Gwalior.

Emerging Leaders

The event titled Emerging Leaders was held on 29th Dec. 2023. The members of the University participated there in this program. "Ring in the New Year with the fantastic folks from Medicaps University! Indulged in delectable delights and cherished moments at The GT Road Phoenix Citadel. Unforgettable memories.



Students' Laurels

Students of the Department of Computer Science and Engineering represented Medi-Caps University in Smart India Hackathon 2023. The team led by Aryaa Sharma accompanied by 5 other members Tejas Shah, Soham Jain, Taher Basrai, Ajinkya Namra, Taranveer Singh Bali.



Vaibhav Thapa, our stellar BBA 1st Year student, shines at the **66th National Shooting Championship**, securing the **9th rank** nationwide in 10M air pistol and also selected for International trials.



Medi-Caps University participated in the **Inter-University Badminton Competition** organised by AIU-Association of Indian Universities.

Mr. Srijan Nigam, a 2nd-year Bachelor of Computer Science Engineering student has secured the **second position in state-level sport competition**.

Pracheta Nene, 3rd Year Bachelor of Computer Science Engineering student has secured **third position in an international sports competition**.

Dishika Jain, from the Department of Computer Science and Engineering(CSBS) has achieved placement at **Empiro Pvt. Ltd.** with a package of 4.5 LPA.

Mr. Ankur Lahoty from the Department of Mechanical Engineering, shares about his development and learning at the University. With the help of committed teachers and mentors, he achieved his dream of becoming an **IAS officer**.

Hemanshi Bopche secured an exciting placement at Saint Gobain.

Mr. Dino Joseph, a student of Electrical Engineering, got placement in **Shivani Detergents Pvt. Ltd.**

The Department of Computer Science Engineering students were **placed in Proton's Hub Pvt. Ltd.** and **Gemini Pvt. Ltd.**

Mr. Salil Jain, 4th Year Bachelor of Computer Science Engineering student, has secured **first position in a state-level cultural competition**.

Students' Laurels

Medi-Caps Alumni Association and Medi-Caps Athletics and Sports Association organised an **Alumni Sports Battle** on December 17, 2023, at Medi-Caps University campus.

Ms. Soumya Bhaiya and Mr. Spranjil Kulkarni, Computer Science and Engineering students from the Department of Computer Science qualified for the **International English Language Testing System (IELTS) Test**.

Ms. Sanskriti Gade, 3rd Year Bachelor of Computer Science Engineering student has secured **first and second positions in state-level sports competitions**.

Ankit Prasad from the Department of Mechanical Engineering secured placements at **BOSCH Pvt. Ltd.** as Graduate Apprentice (Technical Sales) with an annual package of 4.0 LPA.

Mr. Abhay Patidar, a student from the Department of Computer Science and Engineering has been awarded a **gold medal post-convocation** for his exceptional performance and for securing the highest CGPA in his batch.



Club Flashes

The Media Club started a **Mentorship Thursday** series in October 2023 to gain insights into the ever-changing business landscape. In these conversations with the authorities and experts in the field, they want to educate the students and raise awareness.



MII Foundation and **E-Cell, IIT Kharagpur** collaborated to host the '**Local Startup Meet 2023**' in October 2023. The event marked a significant step in nurturing entrepreneurship and the startup ecosystem.



On 15th-16th October 2023, the **Sahityik—the literature club** of Medi-Caps University, in collaboration with **The Great Indian Book Tour (TGIBT)** organised a two-day event: **Festiverse**. The inaugural ceremony was graced by the esteemed guests; Hon'ble Vice Chancellor Dr. D.K. Patnaik, Pro-Vice Chancellor Dr. D. K. Panda, Chief Guest Dr. Rhishikesh Vaidya, and Dr. Shipra Ahuja Joshi. Various events were held in the fest including Author Sessions, Marvel/DC Quiz, Bollywood Tambola, Panel Discussion, Workshops, and Stand Up comedy.

Faculty Flashes

Prof. (Dr.) Rohini C Kale, Department of Civil Engineering attended and Presented at the International Conference on **“Global for Decarbonization of energy and materials”** from 27th - 31st December 2023 at NTU Singapore.

Asst. Prof. (Dr.) Sanjeev Gour, Department of Computer Science participated and completed the 1 day online National Workshop on **“Seeking Government Funding: Essential guidelines for successful grant Acquisition”** on December 23, 2023 in collaboration with NAAC, organised by IQAC, BRCM College of Engineering, Bahal, Haryana.

Asst. Prof. Manish Joshi, Department of Computer Science completed a 5-day Faculty Development Program on **“Building Advance data analytics Application with cloud”** under the next-generation employability program from 18th - 23rd December, 2023 by Edunet Foundation.

Prof. (Dr.) Lokendra Singh Songara, Department of Computer Science attended a **5 days Faculty Development Program** from October 16, 2023.

Ms. Hitendra Kaur Sidhwani from the Department of Chemistry published a patent titled **“Environmental friendly techniques for Bismuthene nanosheets and their use in thermoelectric epoxy nanocomposites”** on December 15, 2023.

Prof. (Dr.) Lokendra Singh Songara, Department of Computer Science attended a **5 days Faculty Development Program** from October 16, 2023.

Prof. Ajeet Singh Rajput, Prof. Sheetal Bawane Prof. Ashish Shrivastava, and Prof. Nisha Bhati from the Department of Computer Science attended a **5-day Faculty Development Program** from December 18, 2023.

Dr. Abdul Razzak Khan Qureshi, Asst. Professor at the Department of Computer Science participated in the IP Awareness/ Training program under the **“National Intellectual Property Awareness Mission”** on December 17, 2023.

Prof. (Dr.) Vinit Gupta, Department of Electronics Engineering and Electrical Engineering authored a book titled **“Machine Learning in Data Science”**. The book is published by Scientific International Publishing House.

Asst. Prof. (Dr.) Priya Singh from the Department of Physics won the table tennis competition in the female group during the **“University Staff Sports Meet”** held in December 2023.

Prof. (Ms.) Akansha Mewal from the Department of Pharmacy participated in the one-week online program **“IP MAXIMA 2023”** organised by Innovative Technology centre-InTec, CSIR IMMT, Bhuvaneshwar from 11th - 16th December 2023.

Asst. Prof. (Dr.) Sanjeev Gour, Department of Computer Science, appointed as Resource Person and delivered an expert lecture on **“Machine Learning’s Growing Role in Research”** in 5 days Faculty Development Program on “Future Trends and Advances in Emerging Technologies” during 5th - 9th December 2023, organised by Noida Institute of Engineering & Technology, Greater Noida.

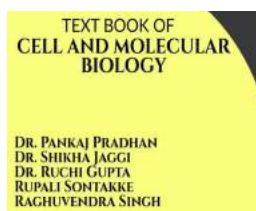
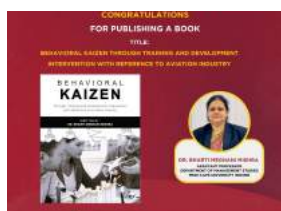
Faculty Flashes

Asst. Prof. (Dr.) Sanjeev Gour, Department of Computer Science participated and completed a 5-day online Faculty Development Program on **“Outcome Based Research for Quality Assurance: Strategies and Advancements”** from 4th - 8th December, 2023.

Prof. (Dr.) Shailendra Chouhan, Department of Pharmacy attended the **“27th Skill Development Programme on Pharmacovigilance of Medical Products”** from 20th - 24th November 2023 organised by the National Coordination Center, Pharmacovigilance Programme of India (NCC-PvPI).

Asst. Prof. (Dr.) Sanjeev Gour, Department of Computer Science participated and completed a 5-day online Faculty Development Program on **“Business Analytics and Business Intelligence”** from 3rd - 7th December 2023 organised by the Research Foundation of India.

Asst. Prof. (Dr.) Bharti Meghani Mishra launched her book on December 1, 2023, on **'Behavioural Kaizen: Through Training and Development Intervention with Reference to Aviation Industry.'**



Prof. Rupali Sontakke, Department of Pharmacy authored a book with the title **“Text Book of Cellular and Molecular Biology”**, published by Notion Press in December 2023.

Dr. Keerti Acharya and Ms. Tasneem Sanawadwala published their work on **“Some Bianchi Type III string cosmological models for perfect fluid distribution in general relativity with an alternate approach”** in Jñānābha - Vijñāna Parishad of India, December 2022 Vol 52-2-2022, UGC Care list.

Dr. Pranjali Kekre and Ms. Kajal Mittal published their work on **“Bounds and Algorithm for the Domination Number of Line Graph using Signless Laplacian Matrix”** in Indian Journal of Natural Sciences, Vol.13 / Issue 75 / December 2022, Web of Science Journal.

An article on **“Some fixed point theorems on complete g-metric spaces with binary operator”** by Dr. Rekha Jain and Dr. Rinku Jain was published in the Advances and Applications in Mathematical Sciences, Mili publication, UGC care list.

Mr. Mubeen Ahmed Khan and Mr. Kailash Chandra Bandhu published a research paper on **“Worldwide Interoperability for Microwave Access network optimization with and without relay station for next generation internet access”** in the International Journal of Communication Systems (Web of Science Indexed).

Ms. Urvashi Sharma published a research paper in Scopus Indexed journal NeuroQuantology on **“Development and Characterization of Dermatological Formulation Containing Echinacea purpurea and Rubia cordifolia Extract for the Treatment of Acne”** in December 2022.

Faculty Flashes

Dr. Murali Matcha and Mr. Siddheswar Kar attended a seminar **“The IP Awareness/ Training Programme”** on October 26, 2023, organised by Intellectual Property Office.

Dr. Murali Matcha and Mr. Siddheswar Kar attended a National Workshop **“Skills for Research Paper Writing and Publication”** on October 25, 2023, organised by Arts, Commerce and Science College, Kille-Dharur, Dist. Beed.

Prof. (Dr.) Deepti Pal and Prof. (Dr.) Shalini Sharma, Department of Chemistry attended the 7-day National Level Faculty Development Program (online mode) entitled **“NAAC Assessment and Accreditation Procedures and Processes”** conducted by A.C.T. Academy, Tamil Nadu in Association with ARASU GROUP OF INSTITUTES, Karur, Tamil Nadu during 18th - 24th October, 2023.

Prof. (Dr.) Lokendra Singh Songara, Department of Computer Science attended a **5 days Faculty Development Program** from October 16, 2023.

Prof. (Dr.) Lokendra Singh Songara, Department of Computer Science attended a **5 days Faculty Development Program** from October 16, 2023.

Prof. (Dr.) Ashish Soni has qualified for **SET 2023**.

Prof. Abdul Rafik Khan secured **man of the series** in the university cricket team.

Asst. Prof. (Dr.) Shilpa S Raghuwanshi, Asst. Prof. (Dr.) Priyanka Yadav and Asst. Prof. (Dr.) Shikha Kumrawat from the Department of Management Studies successfully published their book titled **“Customer Relationship Management”**.



Prof. Divita Sharma secured first position in Badminton at the university's annual sports event.

Seed money project entitled **“Statewide Statistical Analysis Of Mortality Rate Of People Before And After Covid-19 Pandemic In India Using Software”** of Prof. (Dr.) Rekha Jain with Prof. (Dr.) Pranjali Kekre and Prof. (Dr.) Keerti Acharya has approved an amount of two lakh only for 30 months.

Seed money project entitled **“To Analysis Characterization of Projective and Injective Modules”** of Prof. (Dr.) Rahul Dravid and Prof. (Dr.) Ashish Soni has approved a total of rupees Forty Thousand only for 24 months.

Mr. Mohsin Ali, Department of Computer Application, completed the Google Springboard **“ML Rockstar”** course on December 8, 2023.

Dr. Sanjiv Kumar Jain's paper was recognised in the **International Journal of Energy Research, Applied Computational Intelligence and Soft Computing**, and **IEEE Access**.

Faculty Flashes

Mr. Siddheswar Kar attended a faculty Development program **“Artificial Intelligence Techniques for Real-Time Applications”** in December, organised by Narayanaguru College of Engineering & AB Technology, Chennai.

Mr. Siddheswar Kar attended the Faculty Development program “Solar PV System Design” and **“EV Technology”** organised by Skill Dzire.

Asst. Prof. (Dr.) Anisha Jain, Department Of Language, successfully published her book, titled **“Dynamics of Existential Quest in the Novels of Kyung Sook Shin (Journey Towards Self-Realisation)”**



Dr Ranubala Marothiya dept of Languages, attended one week national level online FTP on exploring teaching strategies and research avenues in reading skills. Organized by Department of English, Vardhaman College of Engineering, Telangana from 13 to 19 December 2023.

Seed money project entitled **“Synchronic and Diachronic Analyses of the Regional Language of Malwa Anchal”** of Prof. (Dr.) Anisha Jain with Prof. (Dr.) Prachi Sathe and Prof. (Dr.) Shalini Modh.

Seed money project entitled **“Synchronic and Diachronic Analyses of the Regional Language of Nimad Anchal”** of Prof. (Dr.) Prachi Sathe with Prof. (Dr.) Anisha Jain and Prof. (Dr.) Shalini Modh.

Seed money project entitled **“Proverbial Privileges of Regional Languages of Nimad-Malwa Anchal”** of Prof. (Dr.) Shalini Modh with Prof. (Dr.) Rajendra Singh Chouhan and Prof. (Dr.) Shipra A. Joshi, have been approved for an amount of rupees one Lakh each for a period of 30 months.

Dr. Murali Matcha, Mr. Siddheswar Kar, Mr. Pavan Mehta, and Mr. Nishant Dwivedi attended a faculty Development program **“IoT with Machine Learning”** organised by PVKK Institute of Technology & Pantech E-learning.

World Food Day

The Department of Agriculture celebrated World Food Day on October 16, 2023.



Research Papers Published

Prof. (Dr.) Ratnesh Litoria, Head of the Department of Computer Science and Engineering, along with the co-authors Dev Ramchandani, Dhruvansh Moyal, and Dhruv Bothra, students of B.Tech-CSE made a significant achievement by publishing a research article in **Scopus Publication**.



Prof. (Dr.) Sanjay Jain and Prof. (Dr.) Mousumi Kar Pillai, Department of Pharmacy published a paper entitled **“Pathophysiology, diagnosis and treatment of rheumatoid arthritis”** in the Web of Science indexed Journal of Hospital Pharmacy in December 2023.

Prof. Rupali Sontakke, Department of Pharmacy published a paper entitled **“Formulation and development of anti-diabetic tablets from aqueous extract of Withania coagulans dunal”** in SCOPUS indexed Journal of Korean Academy of Psychiatric and Mental Health Nursing in December 2023.

Asst. Prof. Govinda Patil, Department of Computer Science, presented a research paper on **“A survey of NLP-based print and social media sentiment analysis”** at the 3rd International Conference on Information Technology in Business, Industry, and Government (ICTBIG-2023), organised by Symbiosis University of Applied sciences, Indore during 8th-9th December 2023.

Prof. Prasanna Dubey, Department of Electronics Engineering and Electrical Engineering authored a research paper titled **“Delay and Fairness Analysis of CRAN for Single and Multi Scheduling Domain Strategies”** which has been published in the International Journal of Sensors, Wireless Communications, and Control.

Asst. Prof. (Dr.) Ruby Bhatt, Department of Computer Science in November 2023 published a research paper titled **“Convergence of Machine Learning and IoT: Towards Intelligent Sensing and Decision-Making”** in the International Journal of Intelligent Systems and Applications in Engineering (IJISAE).

Prof. (Dr.) Rajdeep Singh Solanki presented a research paper published in the Scopus index journal with the title **“Computational Engineering based Approach on Artificial Intelligence and Machine Learning Driven Robust Data Centre for Safe Management”** in October 2023.

Dr. Abdul Razzak Khan Qurieshi, Asst. Professor at the Department of Computer Science, published research paper **“Convergence of Machine Learning and IoT: Towards Intelligent Sensing and Decision-Making”** in Scopus Journal International Journal of Intelligent Systems and Applications in Engineering (IJISAE) on November 08, 2023.

A research paper entitled **“Bounds for Fractional Domination Number of Some Graphs and their Dual Graphs”** by Dr. Rekha Jain was published in the Indian Journal of Natural Sciences in October 2023.

Research Papers Published

Prof. Govinda Patil, asst. professor at the Department of Computer Science, published a research paper on **“Convergence of Machine Learning and IoT: Towards Intelligent Sensing and Decision-Making”** in Scopus journal (International Journal of Intelligent Systems and Application in Engineering) in November 2023.

The research paper entitled **“Bounds for Fractional Domination Number of Some Graphs and their Dual Graphs”** by Prof. (Dr.) Rekha Jain, Department of Mathematics, has been published in the Indian Journal of Natural Sciences in October 2023.

The research paper entitled **“Some Cryptanalysis using Extended ASCII Code with the Aid of Laplace Transform of Error Function”** by Prof. (Dr.) Pranjali kekre, Prof. (Dr.) Keerti Acharya, Prof. (Dr.) Rinku Verma, Department of Mathematics, has been published in the Indian Journal of Natural Sciences in October 2023.

A research paper entitled **“Five Dimensional Bianchi Type-III String Cosmological Models For Perfect Fluid Distribution in General Relativity”** by Prof. (Dr.) Keerti Acharya has been published in the Indian Journal of Natural Sciences in October 2023

The research paper entitled **“Neutron Stars with Polytropic Equation of State”** by Prof. (Dr.) Nisha Godani has been published in New Astronomy in October 2023.

Mr. Mohsin Ali from the Department of Computer Application published a research paper titled **“A Hybrid Model for Data Visualization Using Machine Learning and Linear Algebra Method.”** in Scopus-indexed Q2 Journal IJEECS on November 14, 2023.

A paper titled **“Intelligent Predictions of Covid Disease Based on Lung CT Images Using Machine Learning Strategy”** by Sanjiv Kumar Jain from the Department of Electrical Engineering was published.

A paper titled **“Design, Development and Performance Testing of a Novel Utility Solar Cooker with Highlighting Its Significance in Current Scenario”** by Sanjiv Kumar Jain from the Department of Electrical Engineering was published.

A paper titled **“Robust Control of Frequency Considering Operations of AC Microgrid in Islanded Mode”** by Sanjiv Kumar Jain from the Department of Electrical Engineering was published.

A paper titled **“Optimizing Electric Vehicle Charging with Moth Flame Control Algorithm of Boost-KY Converter”** by M. Murali from the Department of Electrical Engineering was published.

A paper titled **“Modified Zeta-Based PV System for EV Battery Charging”** by Siddheswar Kar from the Department of Electrical Engineering was published.

Patents Published

Prof. (Dr.) Mousumi Kar Pillai, Department of Pharmacy was awarded a German Patent on **“Herbal Composition for the treatment of chronic obstructive pulmonary diseases, bronchitis and respiratory disorders”** in December 2023.

Mr. Himanshu Dehariya, Department of Computer Application, published a patent on **“The application of Machine Learning and Algorithms in Financial Investment Management”** in December 2023.

Mr. Himanshu Kaushal, Department of Computer Application, published a patent on **“Cloud Based Networking Router”** in December 2023.

Ms. Hitendra Kaur Sidhwani published a patent entitled **“Application of TiO₂ nanoparticles to increase the shelf life of fruits in post-harvest horticultural practices”** on December 15, 2023.

Prof. Hitendra Kaur Sidhwani published a patent entitled Environmental Friendly Techniques for **“Bismuthene Nanosheets and Their Use in Thermoelectric Epoxy Nanocomposites”** on December 15, 2023.

Ms. Hitendra Kaur Sidhwani, Department of Chemistry published a patent titled **“Application of TiO₂ nanoparticles to increase the shelf life of fruits in post-harvest horticultural practices.”** on December 8, 2023.

Dr Shalini Sharma and Dr. Deepti Pal On published the Indian Patent **“Method of making noble nanoparticles formed by green chemistry techniques”** on November 30, 2023.

Prof. (Dr.) Mousumi Kar Pillai, Department of Pharmacy, was awarded a design patent in November 2023 entitled **“Device for detection of anti-diabetic activity of endemic medicinal plants”**.

Prof. (Dr.) Mousumi Kar Pillai, Department of Pharmacy was awarded a design patent in November 2023 entitled **“Dissolution apparatus for solid dosage form with real-time sensor”**.

Prof. (Dr.) Sanjiv Kumar Jain, Department of Electrical Engineering has been awarded a patent with the title **“Battery Temperature Management System in Electric Vehicles using Reinforcement Learning”** in November 2023.

Prof. Khaliq Ahmed, Prof. Preeti Singh, Prof. Prashant Raghuvanshi, and Prof. (Dr.) Santosh Singh Raghuvanshi, Department of Electrical Engineering has been awarded a patent with the title **“AI based Solar Equipment for Solar Energy Collection and Distribution”** in November 2023.

Patents Published

Prof. Siddheswar Kar, Prof. Pavan Mehta, Prof. Nishant Dwivedi, and Prof. Vijeta Killamsetti, Department of Electrical Engineering have been awarded a patent with the title **“Smart Switches with LED Lights to Indicate Switch State”** in October 2023.



Prof. Suyog Munshi, Prof. Sheetal Bawane, Prof. Gourav Matenge, Prof. Pradeep Mehta and Prof. Prabhat Pandey from the Department of Electronics Engineering and Electrical Engineering published a patent titled **“AI-based crop health monitoring device”**.

Prof. Vineeta Rathore, Prof. Anusha Jain, Prof. Sonal Modh Bhardwaj, Department of Computer Science, awarded a patent titled **“PMSM-Based Battery Electric Vehicle Optimised Operation Using Iot With Artificial Neural Networks”**



Prof. Seema Patidar, Department of Computer Science, awarded a patent titled **“AI Based Plant Health Monitoring System”**.

Prof. Arpit Deo and Prof. (Dr.) Ratnesh Litoriya from the Department of Computer Science awarded a patent titled **“E-Commerce Recommendation System Based On Deep Learning”**.

Prof. (Dr.) Sanjiv Kumar Jain, Department of Electrical Engineering has been awarded a patent with the title **“Hybrid Machine Learning based Voltage Stability Improvement in Microgrids”** in October 2023.



Asst. Prof. (Dr.) Sanjeev Gour, Department Of Computer Science and Engineering, published a patent with the title of **“Artificial Intelligence Based Mental Health Diagnostic Device”**.





GLIMPSES



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