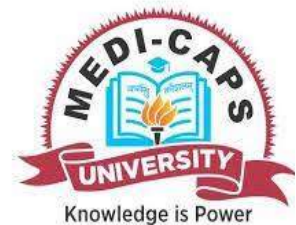




# Medi-Caps University FLASHES



## शिक्षा भी संस्कार भी

October 2023 Volume 3 : Issue 4

Quarterly Newsletter

### A giant step towards global collaboration: MOU with Taiwan University

Dr. Dilip Kumar Patnaik, Vice Chancellor, Medi-Caps University, was one of the 12 members of the AICTE Delegation selected to explore opportunities for collaboration and academic exchange in Taiwan—a joint initiative of the Indo-Taiwan Government at Taipei, Taiwan; from 9th-15th September 2023.

The delegation interacted with National Taiwan University (NTU) and National Taipei University of Technology (NTUT) and discussed several prospects with the aim of combining academia and industrial knowledge.

Medi-Caps University took a huge step towards global collaboration by signing an MoU with the National Taipei University of Technology (NTUT), Taiwan. The MoU outlined several initiatives like collaborative research projects, faculty, researcher and staff exchange, student exchange programs, and resource sharing. A separate MoU also addressed the student exchange program providing a more detailed framework for student mobility.

On the second day of the visit, Dr. D.K. Patnaik visited Hsinchu City. NTHU joined hands with Medi-Caps University for Master programs and Mandarin training. Medi-Caps collaborated with MUST for semiconductor training. Ardentec Corporation showed the chip fabrication process.



# AICTE DELEGATION

On the third day, Medi-Caps University showcased its vision before the Minister of Education of Taiwan, Universities of Taiwan, and DG India to Taiwan. Three MOUs were signed with Asia University, Taichung; Lunghwa University; Taoyuan City and Cheng Shiu University, Kaohsiung in Taiwan. Dr. D.K. Patnaik also explored Lunghwa's cutting-edge semiconductor labs, journeyed to Kaohsiung City on the lightning-fast High-speed Rail (HSR) and secured scholarships for the students of Medi-Caps with the help of the Ministry of Education and Universities, Taiwan.

On the fourth day, which was also the final day of the visit, Medi-Caps University signed yet another MoU with the Taiwanese university named Cheng Shiu University which provides outstanding Mini-Fab and Packaging-Testing skill training and E-Gaming Engineering course possibilities. The delegation also visited National Sun Yat-sen University and discussed promising collaborations regarding semiconductor design. They also got the chance to interact with the Indian faculty and PhD students at the university.



With the global demand for semiconductors on the rise and a shortage of skilled professionals, India is gearing up to meet the 2025 target of one million experts. Under the Ministry of Education and AICTE, Medi-Caps University will now partner with Taiwan to enhance India's semiconductor capabilities and foster an enhanced skill-development environment for the generations to come.



## Remarkable accomplishments by Vice Chancellor

- **Daly College** - Dr. D. K. Patnaik, Vice Chancellor, Medi-Caps University, was invited as a chief guest to an event organised by Daly College, Indore.
- **Jury member** - Dr. D. K. Patnaik was a member of the jury for awarding an honorary Doctorate in the 73rd Annual Convocation held by Karnataka University, Dharwad.
- **Chief Guest** - In the Annual General Meeting of the Association of Unaided CBSE Schools, Dr. D. K. Patnaik was invited as the chief guest. The meeting was conducted on July 30, 2023.

# International Conference on Business in the VUCA World



Medi-Caps University hosted a dynamic International Conference on Business in the VUCA World on 10th-11th August 2023.



Several distinguished personalities, including Dr. Siddarth Rastogi from IIM, Indore, Dr. Amiya Kumar Mohapatra from Jaipuria Institute of Management, Dr. Bharti Jagwani from Robert Smith College of Business, University of Maryland, USA, and Dr. Vijay Kumar Chattu from the University of Toronto, were present as speakers.



The event marked the unveiling of the insightful book 'Business Strategies for a Sustainable Society' with 13 chapters authored by the professors of our university. The response was overwhelming, with 107 paper submissions. Notably, 18 papers were chosen for UGC Care publication and 11 for Medi-Caps University's refereed journal.



Dr. Ankur Saxena was the conference chair, and Dr. Mukesh Porwal, Dr. Haldhar Sharma, Dr. Devendra Kumar Pandey, and Dr. Sunil Mishra played a significant role in the successful execution of the conference.



The conference was made even more memorable by the presence of the honourable Vice Chancellor, Dr. D.K. Patnaik, and Pro Vice-Chancellor Dr. D.K. Panda.



# INDUCTION



Medi-Caps University conducted an induction program for the newcomers on 18th-19th August 2023. The students were informed about the university's rules and regulations, familiarized with the various clubs present in the college, and finally, the students met their faculty coordinators. The program included a drama performed by the Cultural Club.



An induction program was also conducted for the students of 2nd, 3rd and 4th year of students from all departments from 4th - 6th September, 2023. Students were instructed and informed about all the details regarding their year.

The university also conducted an induction program for faculties of all departments on August 14, 2023, in which new members of the faculty of various departments were welcomed.



# SUDARSHAN – THE REUNION



Medi-Caps University recently held a special Alumni Convocation for the 1999-2005 batch, bringing together 40 senior alumni, with some joining online. The event opened with a warm welcome from Professor Avni Subedar.

During the event, President of the Alumni Association, Professor Saurabh Dave, shared insights into the diverse activities undertaken by the association. Furthermore, our Vice chancellor- Professor D. K. Patnaik encouraged all alumni to become part of the Medi-Caps Alumni Association (MAA) and engage as stakeholders.

The Vice-Chancellor, Registrar, and Distinguished Alumni came together to unveil the Association's Annual Newsletter.

Professor Saurabh Dave also provided updates on the latest developments at the university and highlighted the invaluable contributions of alumni to their alma mater. He emphasized how the alumni have been supporting each other during times of need and growth.

The attendees were treated to a delightful cultural program presented by the talented students of the university.

An engaging roundtable discussion also took place which involved faculty members, alumni, and placement officers creating an atmosphere of collaboration and shared commitment to enhancing the university.



# Workshops and Webinars



A webinar was organized by the Department of Computer Science and Engineering on 9th-10th August 2023, and the speaker for the session was Mr. Mike Ericson.



A three-day workshop was conducted by the Department of Electronics Engineering in collaboration with Entuple Technologies on 'Cadence VLSI Software Installation and Tool'.



A workshop was organized by the Department of Computer Science and Engineering on August 4, 2023, and the speaker for the session was Mr. Binod Kumar Mishra.

## World Pharmacist's Day

World Pharmacist's Day 2023 was celebrated on September 25, 2023 by the Faculty of Pharmacy on the theme- Pharmacists Strengthening Health Systems- Angdaan Mahadaan.



## Placement Induction

The Training and Placement Cell conducted a Placement Induction program for all the final year students from the Department of Computer Science and Technology on August 25, 2023.



## MII Foundation Award Ceremony

MII Foundation held a Medi-Caps Founder Meet-Up and Award Ceremony on August 12, 2023. The ceremony was graced by the chief guest, Dr. Ravindra Pastor (Founder, E-Fasal), guest of honor, Dr. Rakesh K. Jain (Ex-CEO Prestige/Prime Group, Chairman- Youth Entrepreneurship Cell) and special guests Mr. Swapnil Parkhya (Founder & CEO, Parkhya Solutions), Mr. Akshat Mehta (Co-Founder, HomeStrap Fabric Furnishing), Mr. Narendra Sen (Founder & CEO, RackBank) and Mr. Manoj Dhanotiya (Founder & CEO, AI Trillion).



# Value-Added Courses



A short-term course on 'Method Development and Troubleshooting of HPLC' was conducted by the Faculty of Pharmacy on 8th-9th September 2023.



The Faculty of Pharmacy conducted a value-added course on 'UV Spectroscopy and Drug Dissolution Studies'.



The Department of Electronics Engineering organized a five-day value-added course on 'Exploratory Data Analysis using Python' in June 2023.

The Faculty of Pharmacy conducted a value-added course on 'Tabletting Technology' to cater for the needs of Pharmaceutical Industries students.

## Department Of Management

A plantation drive took place on July 21, 2023, organized by the Medi-Caps Alumni Association and led by alumnus Mr. Pankaj Sharma. Five different seedlings were planted by the Pro Vice Chancellor, Dr. DK Panda, along with alumni guests Mr. Sunil Kumar and Mr. Himanshu Goyal. The participation of deans, department heads, professors, and staff members from all departments was greatly appreciated.



## Department Of Management

Certificates were distributed among the students of the Department of Management and Commerce who volunteered and worked hard for the different activities conducted by the Department.

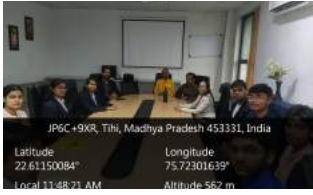


## The Felicitation Ceremony

The felicitation ceremony of the **Global Peace and Sustainable Development Summit 2023** was held on April 28, 2023.



# Industrial Training



Students from the Department of Management and Commerce visited Container Corporation of India (CONCOR) at Tihi, Indore, on September 16, 2023, where Mr. Sunil Kumar, AM (Logistics) and an alumnus of Medicaps University, briefed them about the entire Concor (ICD) operations.



The Department of Management, in coordination with the Medi-Caps Alumni Association, organized a visit to COMSYN BAGS Ltd., Pithampur, Indore, for students of MBA 3rd Semester on August 26, 2023.

A training program in 'Python for Mechanical Engineers' was conducted from 12th June-7th July 2023 for the Department of Mechanical Engineering.

The Department of Electronics Engineering organized an in-house training program on 'Digital IC Design, Simulation, and Verification using HDL'.

B. Com Hon's Students of the Commerce Department of Medicaps University visited Vedic Cereals Pvt Ltd, Sector -3, Pithampur, Indore, on September 23, 2023, where Mr. Anil ji Jain MD and Mr. Amit ji Sharma briefed about the entire operations.

## MII Foundation

MII Foundation and Institution Innovation Cell (IIC), including Dr. Sarita Kansal, Mr. Ram Janm Singh, Mr. Sanjay Jathar, Mr. Hemant Malviya, and conducted an IIC-recommended activity for the 'Innovation & Entrepreneurship Outreach Program in Schools/Community'.



## ME CNC

A summer internship was organized by the Department of Mechanical Engineering from June to July 2023 based on 'Slotting Operation Performed on CNC Milling through Manual Part Programming'.





# Faculty Flashes

Mr. Ram Bansal from the Department of Mechanical Engineering was awarded a Certificate of Excellence in Reviewing the 'Journal of Advances in Mathematics and Computer Science' on August 23, 2023.



Dr. R.K. Shukla, the head of the Department of Mechanical Engineering presented a statue made from a 3D printer to the Honourable Vice-Chancellor on the occasion of Ganesh Chaturthi.

Mr. Murali Matcha, Mr. Siddheswar Kar and Ms. Neha Verma published a book titled, '**Fault Diagnosis in Power System Using Hybrid Fuzzy-GA Approach**' on September 23, 2023.

Mr. Siddheswar Kar and Dr. Murali Matcha, Department of Electrical Engineering, attended a **Master Class FDP on Java Full Stack**, organised by Pantech e-Learning Pvt. Ltd, Chennai, from 16th August- 16th September 2023.

The Department of Mechanical Engineering awarded a **PhD degree** to Mr. Manish Gupta.



Ms. Preeti Singh, Department of Electrical Engineering, attended an FDP on Paradigm Shift in Technical Education organized by the G.C.R.G. Group of Institutions, Lucknow, from 21st-26th August 2023.

Dr. Murali Matcha, Mr. Siddheswar Kar and Ms. Sharda Patwa, Department of Electrical Engineering, attended a National Webinar on Sustainable Biomass Renewable Energy Supply Chain Management organized by Mandsaur University, Mandsaur, M.P on August 5, 2023.

Dr. Murali Matcha and Mr. Siddheswar Kar attended an IEEE webinar on IEEE: A Gateway for Worldwide Successful Engineering Career in 4IR organized by the IEEE Computer Society Bangladesh Chapter, IEEE CSBDC Team Spark, IEEE CSBDC SAC, and IEEE on August 3, 2023.

Mr. Prashant Raghuwanshi of the Department of Electronics Engineering attended an FDP on 'Global Business Foundation Skills', a corporate social responsibility initiative organized by Infosys BPM Ltd. in July 2023.

Dr. Murali Matcha and Mr. Siddheswar Kar from the Department of Electronics Engineering attended an FDP in July 2023 on 'Recent Advancement on Control & Instrumentation' organized by IEM, IEEE and CSS-IMS in July 2023

Dr. Murali Matcha, Mr. Siddheswar Kar, and Ms. Neha Verma of the Department of Electronics Engineering attended a Master Class FDP on 'Electric Vehicle Design' organized by Pantech eLearning Pvt. Ltd. in July 2023.

# Faculty Flashes

Mr. Ajeet Singh Rajput, Ms. Sonali Prakash Potdar, Mr. Gajendra Singh Rajput, and Mr. Dipanshu Pandya participated in a **'One Week National Faculty Development Programme on Cloud Infrastructure (AWS)'** organised by Bhausasheb Hiray S.S. Trust's Institute of Computer Applications, Bandra East, Maharashtra, from 21st-25th August 2023.



Dr. Lokendra Singh attended a short-term training programme on Introduction to AI and Machine Learning conducted by the National Institute of Teachers' Training and Research, Bhopal, from 7th-11th August 2023.



Dr. Murali Matcha's paper was reviewed and recognized by the International Journal of Plant and Soil Science on July 5, 2023.

Mr. Siddheswar Kar and Dr. Murali from the Department of Electronics Engineering attended an FDP on 'Recent Developments in Electrical & Electronics Engineering: A Research Prospective' held by SVCET in July 2023.

Dr. Sanjiv Kumar Jain got his papers recognized and reviewed by the International Journal of Computer and Applications and the Journal of Institute of Engineers in July 2023.

Dr. Murali Matcha, Mr. Siddheswar Kar and Ms. Neha Verma from the Department of Electrical Engineering published a book titled 'Transmission Embedded Cost Allocation Using Proportional Nucleolus Method in a Liberalized Electricity Market' and 'Social Welfare Maximization in a Restructured Power System Using BAT ALGORITHM' in July 2023.

Dr. Murali Matcha's paper was recognised by the Current Journal of Applied Science and Technology on July 27, 2023.

The University of Ahmedabad and IFRP invited Dr. Murali Matcha as a committee member for the 'International Conference on Recent Advances in Engineering and Computer Applications' (ICRAECA) on 14th-15th July 2023.

Dr. Murali Matcha's paper was reviewed and recognized by the Asian Journal of Probability and Statistics on July 13, 2023.

# Faculty Flashes

Mr. Mubeen Ahmed Khan, Department of Computer Science Engineering, participated in a workshop on Research Ethics Tools and Altmetrics organised by the Internal Quality Assurance Cell (IQAC) and Research Cell held at Sangam University, Bhilwara, on July 27, 2023.



Dr. Murali Matcha's paper was recognized by the International Journal of Energy Research and Reviews on July 12, 2023.

Dr. Murali Matcha's paper was reviewed and recognized by the International Journal of Plant and Soil Science on July 5, 2023.

## Teacher's Day

Teacher's Day was celebrated with joy and gratitude as students united in appreciation for their faculty's tireless dedication. A special cultural program was conducted that showcased their love and admiration for the teaching staff.



## Training and Placement

Training and Placement Cell conducted a Placement Drive with Consultadd for students from the Department of Computer Science and Engineering and the Department of Information Technology on August 21, 2023



The Training and Placement Cell conducted a Placement Induction program for all the final year students from the Department of Computer Science and Technology on August 25, 2023



# Clubs Flashes



An outreach event was organized by the Science Club of Medi-Caps University at Guru Harkrishan Public School. Their team conducted a presentation workshop covering topics like cosmology, orbital mechanics, and rocket-building development.



Cultural Club organised Kalakunj Season 2, a two week workshop aimed at developing dance, drama, acting, stagecraft and musical skills of participants, from 31st July-11th August 2023.



A Mobile Photography workshop was organized on September 12, 2023, by the Ikshana Film and Photography Community (IFPC) at Medi-Caps University.



GDSC-MU held an online Info Session 2023 on August 27, 2023, from 2-3 pm to inform students about the club.

## Summer Internship

The Department of Electrical Engineering organized an in-house 'PLC Programming & Industrial Automation' summer internship for B.Tech sixth-semester students of Electrical Engineering, Mechanical Engineering, and Robotics & Automation from 19th June-14th July 2023.

## Academia

A campus connect program was organized in the Faculty of Pharmacy with a senior industry person from Sun Pharma to enhance academia-industry interaction.

## MSME

The Ministry of MSME has designated Medi-Caps University, Indore as a Host Institute (HI/BI) in order to create an environment on campus that fosters innovation, incubation, and entrepreneurship. On August 29, 2023, our alumnus, Mr. Prabal Jain (Founder of Indori Artist Pvt Ltd.), was chosen to serve as an external evaluator.

# MOUs



Medi-Caps University collaborated with **CAN-IN Immigration**, Canada to promote international cooperation in higher education and immigration opportunities. The event was attended by esteemed dignitaries to honor this significant partnership.



Medi-Caps University announced an MOU with **Woosong University** in South Korea. This partnership allowed the students to access courses at the renowned **SolBridge International School of Business** and facilitate opportunities for exchange programs, joint conferences, research collaborations, and international exposure.



An MOU was signed between **'Starworks Prime Digital Solutions Private Limited'** and **'Medi-caps Innovation and Incubation Foundation'**.

## Office Of International Affairs

The key members of the Office of International Affairs at Medi-Caps University shared their mission of promoting academic excellence, cultural diversity and global engagement. Their approach is to offer study abroad programs through collaboration with esteemed institutions worldwide, faculty exchanges, innovative academic initiatives and joint research projects that will benefit our university and its students.

The Office of International Affairs has made outstanding efforts to internationalize our student body. They have signed several MoUs with prestigious universities in many countries and are looking forward to introducing student exchange programs with these universities.



# Students' Laurels

Amisha Porwal, Nupura Kulkarni, Shushim Mehta, Hardik Derashri and Mohit Gullani have received acceptance offers from renowned international universities, setting fine examples of Medi-Caps alumni who continue to reach greater heights.



Ishika Dongle and Keshav Soni, graduates of the 2023 batch, received acceptance offers from prestigious international and global universities.



Congratulations to Vaibhav Thapa, a first-year BBA student at Medicaps University, for his outstanding performance at the 32nd All India Mavlankar Shooting Championship 2023. Vaibhav secured the 12th rank among 5,000 fierce competitors at the prestigious Army Marksmanship Unit, Mhow.

Soumya Sharma, a student from the Department of Forensic Science, earned a scholarship worth Rs. 76,700 from the Shrimad Foundation.



Sudhanshu Dubey, an alumnus from the Department of Information Technology, received offers from several prestigious international universities.



Two students from the Departments of Mechanical Engineering and Electrical and Electronics Engineering, respectively, got placed in Force Motors at a package of 3 LPA.



# Students' Laurels

Aayushi Maigale, Nidhish Mehta, Diya Goyal, Pavani Kanoongo, Anurag Sen, Ansh Sharma, and Parakh Maheshwari, second-year students from the Department of Computer Science and Engineering, secured prestigious scholarships from Reliance Foundation.



Four students from B.Tech have been placed in TekLink at a package of 6.0 LPA as software engineers.



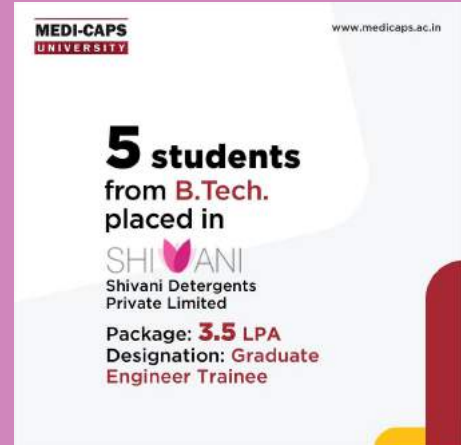
Aastha Katakwar and Prakhar Chaurasia from the Department of Computer Science and Engineering secured placements of 18 LPA at CISCO.



Three students from the Department of Computer Science and Engineering and the Department of Management were placed in Walkover Web Solutions for 4.0 LPA as Sales and Finance Interns.



Five students from B.Tech were placed at Shivani Detergents Private Limited at a package of 3.5 LPA.

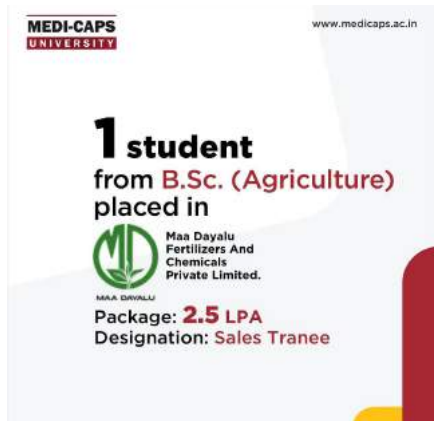


One student from the Department of Pharmacy received a placement offer from Systopic Laboratories for 2.6 LPA.



# Students' Laurels

One student from the Department of Agriculture got placed in Maa Dayalu Fertilizers and Chemicals Private Limited for a package of 2.5 LPA.



Fifteen students from the Department of Pharmacy were placed at Mylan Laboratories Limited for 2.4 LPA.



Five students from B.Tech and Masters of Computer Applications got placed in Sprintale at a package of 3.0 LPA as Graduate Engineer Trainees.



Seven students from the Department of Computer Science and Engineering were placed in IMA-PG for 3.0 LPA with the designation of Graduate Engineer Trainee.



Five students from the Department of Pharmacy got placement offers from Lupin for a package of 1.5 LPA, and four students from the said Department also got placed at Ipca.



Three students from the Departments of Mechanical Engineering and Automobile Engineering were placed in Mahle at a package of 2.4 LPA.





# Introduction of New Departments

## Department of Biotechnology

In response to the demand in Biotechnology and allied areas, particularly after the COVID-19 pandemic, for the human health and welfare of society and the environment, the Department of Biotechnology, Faculty of Science, Medi-Caps University was established in 2023 with a vision 'To be recognized as a provider of value based education in Biotechnology and allied areas'. Currently, the department offers a B.Sc Biotechnology program.

## M.Tech Executive

Medi-Caps University launched a new course named M.Tech Executive to increase the scope of technological skill development.

## New Management Courses

The Department of Management introduced new specializations for BBA and MBA in Family Business, Business Analytics and Logistics.

## Miscellaneous

The university was buzzing with energy as **Cubexo Software Solutions** took center stage at our Campus Placement Drive on September 9, 2023.

Medi-Caps University welcomed the first batch of **IIFTR 1999** on August 14, 2023.

A summer internship was organized by the Department of Mechanical Engineering from June to July 2023 based on '**Slotting Operation Performed on CNC Milling through Manual Part Programming**'.

The Department of Electrical Engineering organized an in-house 'PLC Programming & Industrial Automation' summer internship for B.Tech sixth-semester students of Electrical Engineering, Mechanical Engineering, and Robotics & Automation from 19th June-14th July 2023.

# Research Papers

Ms. Mahima Jain and Mr. Malyaj Das published a paper on **'Synthesis of liquid silver nanoparticles and study of Uv Vis Spectra'** at the 3rd International Conference on Light Applications in Science and Engineering Research on 14th-16th September 2023, at the Department of Physics, Periyar University, Salem.

A research paper by Dr. Sanjiv Kumar Jain, Department of Electrical Engineering, was reviewed and recognised in MDPI Journals in Mathematics and Applied Sciences on August 31, 2023.

A research paper titled **'Study on the Evaluation Method of Polymerization Degree Based on Raman Spectroscopic Plot'** written by Dr. C. M. Banerjee, Department of Electrical Engineering was reviewed and recognised in High Voltage on August 30, 2023.

A research paper by Dr. Sanjiv Kumar Jain, Department of Electrical Engineering, was reviewed and recognised in MDPI Journals in Mathematics and Applied Sciences on August 25, 2023.

A research paper titled **'A Novel Robust Dual Unscented Particle Filter Method For Remaining Useful Life Prediction of Rolling Bearings'** written by Dr. C. M. Banerjee, Department of Electrical Engineering was reviewed and recognised in Instrumentation and Measurement on August 23, 2023.

A research paper titled **'Support Vector Machine Based Fault Detection in Inverter Fed Electric Vehicle'** written by Ms. Preeti Singh, Department of Electrical Engineering was recognised and reviewed in the Energy Storage on August 18, 2023.

A research paper written by Dr. Sanjiv Kumar Jain was reviewed and recognised in the Advances in Science, Technology and Engineering System Journals (ASTESJ) on August 16, 2023.

A research paper by Dr. Sanjiv Kumar Jain, Department of Electrical Engineering, was reviewed and recognised in Hindawi on August 1, 2023.

A paper by Dr. Murali Matcha, Department of Electrical Engineering was reviewed and recognised in the International Journal of Environment and Climate Change on August 1, 2023.

A paper by Dr. Murali Matcha, Department of Electrical Engineering was reviewed and recognised in the International Journal of Environment and Climate Change on August 1, 2023.

A research paper titled **'Integrating Solar Energy with Battery Storage Systems for Optimal Efficiency using Landsman Converter'** written by Mr. Murali Matcha, Mr. Siddheswar Kar, Ms. Neha Verma, and Ms. Sharda Patwa, Department of Electrical Engineering, was published in the SSRG International Journal of Electrical and Electronics Engineering in August 2023.

# Research Papers

A research paper titled **'Use of Modified TVM Parameters for Reliable Estimation of Power Transformer Insulation Condition'** by Dr. Chandra Madhab Banerjee, Department of Electrical Engineering was published in the IEEE Transactions on Instrumentation & Measurement in August 2023.

Dr. C.M. Banerjee got recognition for his papers on **'A Fractional Exponential Power Bistable Stochastic Resonance Model for Rolling Bearing Weak Features Extraction'** and **'Study on the Evaluation Method Polymerization Degree based on Raman Spectroscopic Plot'** by IEEE on July 20, 2023, and July 28, 2023, respectively.

Dr. Rohini C. Kale from the Department of Civil Engineering successfully published a research article in Sci Publication.

An article by Dr. Latika Jindal, Department of Computer Science Engineering, titled **'A Machine Learning Method For Predicting Disease-Associated MicroRNA Connections using Network Internal Topology Data'** was published in Scopus Index Journal Healthcare Analytics Elsevier.

A research article by Ms. Trishna Panse, Department of Computer Science Engineering, and Dr. Prashant Panse, HOD, Department of Information Technology, titled 'Digisecure: An Attribute-Based Document Transfer Solution' was published in the Scopus Index Journal.

A research paper titled **'Task scheduling in cloud environment: optimization, security prioritization and processor selection schemes'** written by Mr. Sanjiv Kumar Jain, Department of Electrical Engineering was published in the Journal of Cloud Computing.

Mr. Murali Matcha and Sharda Patwa published an article on 'ZETA-KY converter with whale optimization for electric vehicle charging' in the journal International Conference on Circuit Power and Computing Technologies.

A research paper titled **'Modelling and Analysis of Hybrid Fuzzy Tuned PI Controller based PMLDC Motor for Electric Vehicle Applications'** written by Mr. Abhinav Pathak, Department of Electrical Engineering was published in the SSRG International Journal of Electrical and Electronics Engineering.

Dr. Ashok Kumar, Dr. Anand Yadav, Lakhn Kumar Parmar, and Priya Yadav published a paper entitled **'Structural and temperature dependent dielectric properties of doped Mn ferrite system'** in the Journal of Chemical Physics Impact.

A paper by Dr. Murali Matcha, Department of Electrical Engineering was reviewed and recognised in the International Journal of Environment and Climate Change on August 1, 2023.

Dr. Ashok Kumar, Dr. Anand Yadav, Lakhn Kumar Parmar, and Priya Yadav published a paper entitled **'Structural and temperature dependent dielectric properties of doped Mn ferrite system'** in the Journal of Chemical Physics Impact.

A research paper titled **'Digital Transformation in Customer Relationship Management: Enhancing Engagement and Loyalty'** written by Mr. Sanjiv Kumar Jain, Department of Electrical Engineering, was published in the European Economic Letters (EEL).

# Patents Published

Dr. Sanjiv Kumar Jain, Mr. Ram Bansal, Mr. Lekhraj Patidar, Dr. Shubham Soni, Mr. Nakul Bansod, Mr. Sunil Kumar Patidar and Mr. Jayesh Barve was awarded a patent on 'System and Technique For Smart Grid Stability Enhancement Using Federated Learning' in September 2023.



From the Department of Electrical Engineering, Dr. Srinivas Rao Assistant Professor, Department of Computer Applications, and Mr. Siddheswar Kar and Mr. Abhinav Pathak, Assistant Professors, Department of Electrical Engineering, published a patent titled 'Solar Power Plant Monitoring Device using IoT' on July 26, 2023.

Dr Mahesh Dhonde, Dr. P. Hari Krishna, Dr Malyaj Das and Ms Aditi Jain Published One Indian Patent 'Analysis of the impact of Bismuth Ferrite (Bifeo3) Perovskite-based Advanced Nanomaterials' with State-Of-The-Art Photocatalytic Performance in water clean-up through deep learning.

Ms Nikita Thora, Ms Monika Pagare and Dr Rohini C Kale published an innovation patent on analyzing the composition of sustainable materials used as a replacement for natural sand in concrete.

Ms. Shubhrata Kanungo, Mr. Vishal Sharma, Ms. Maya Yadav, Mr. Sanket Gupta and Mr. Sandeep Veervani from the Department of Computer Science Engineering published a patent on 'A Novel Method for Analyzing and Determining the Mental Health of a Person Using Machine Learning Techniques' on August 4, 2023.



Dr. Mohd. Shakil Qureshi, Dr. Sanjiv Kumar Jain, Mr. Hemant Khambete, Mr. Sumit Prachand, Ms. Deepti Pal, Mr. Bharat Pahadiya and Mr. Anurag Golwalkar published one Indian patent on 'System And Method For Control Strategy Of Dual Motor Electric Vehicle Using Machine Learning And IoT Integration' on September 15, 2023.

Dr. Bhavana Kshirsagar and Dr. Priya Singh Published one Indian Patent on 'Analysis of The Impact Of Bismuth-Based Photocatalysts In Degrading The Organic Pollutants In Aqueous Solutions' using Machine Learning Techniques.

# Patents Published

Mr. Vebhav Tiwari, Mr. Manish Mahajan, Mr. Govind Patidar, Mr. Kush Soni, and Mr. Yogesh Payasi from the Department of Electronics Engineering published a patent on 'Method and System for Data Intelligence using Machine Learning'.



Ms. Shimpy Goyal, Ms. Priyanka Dhasal, Mr. Diptanshu Pandya, Ms. Deepmala Manore, Ms. Shweta Gonde and Ms. Shredha Parmar from the Department of Computer Science Engineering published a patent on 'An Artificial intelligence system for identifying properties of material using image processing techniques' on May 26, 2023.



Mr. Ashwin Parihar, Mr. Anurag Tripathi, Mr. Ashwin Sharma, Mr. Ankit Soni, Mr. Ubaid Hanfee, Mr. Ashok Deora, Mr. Ruchir Lashkari and Ms. Monika Pagare from the Department of Civil Engineering published a patent on 'A Method to Prepare Sustainable Concrete Using Molten Plastic As A Partial Replacement of Cement'.



## Miscellaneous

MII Foundation and Institution Innovation Cell (IIC), including Dr. Sarita Kansal, Mr. Ram Janm Singh, Mr. Sanjay Jathar, Mr. Hemant Malviya, and conducted an IIC-recommended activity for the 'Innovation & Entrepreneurship Outreach Program in Schools/Community'.

## Miscellaneous

Medi-Caps University celebrated Engineer's Day with Honourable Pro Vice-Chancellor Dr. D. K. Panda, Dean of Engineering Dr. Pramod S. Nair, HoD Dr. Rajendra Shukla, and HoD CSE Dr. Ratnesh Litoriya.

# Expert Talks

An expert lecture on 'Role of Artificial Intelligence and Cutting Edge Technology in Communication Engineering' was organized on September 21, 2023, by the Department of Electronics Engineering.

The Department of Physics at Medi-Caps University organized an Expert Talk on 'Chandrayaan Mission, Space Weather, Science in Veda, and Climate Change' delivered by Shri Divya Darshan Purohit, Director, Gurudev Observatory, Baroda, Gujrat, on August 10, 2023.



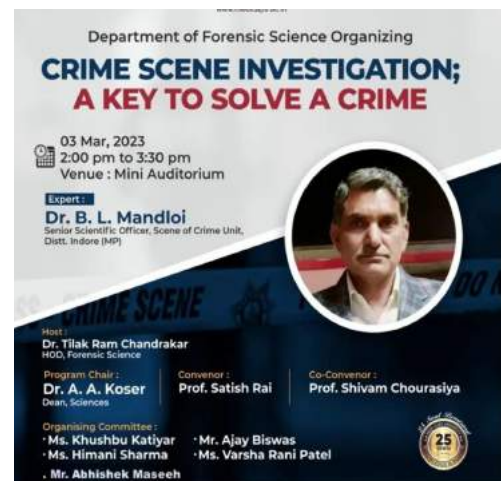
The Department of Forensic Science organised an Expert Talk series and the speakers for the sessions were Prof. Devasish Bose, Dr. Rajendra Prasad Pawar, Dr. Neeti Kapoor, Dr. Moumita Chandrakar, Dr. Ranjeet Singh and Mr. Chatak Vajpai.



An expert session on EBSCO was conducted on July 28, 2023, for all Management and Commerce faculty. The speaker was Mr. Lakhpat Singh Naruka, training manager at EBSCO Information Services in New Delhi.



The Department of Forensic Science organised an Expert Talk on 'Crime Scene Investigation: A Key To Solve A Crime'.



## Placement Drive

Training and Placement Cell conducted a Placement Drive with Consultadd for students from the Department of Computer Science and Engineering and the Department of Information Technology on August 21, 2023.



Students after results



Hasde Chehreyā da matlab  
eh hi Hunda



Dhōlīdā! Dhāmāk Dhāmāk  
dhām bājē!

# Fun lashes



Areē o Sāmā! Kitnē ādmi thē?



Jaldī kāām khatām krkē  
cāntēen chālthē hai



Sabkō ādmīssīōn mīlēgā kōī dhakkā  
mukkī nāhī kārēgā



Syllabus kām kardo!!



Medi-Caps Zindabaad!

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