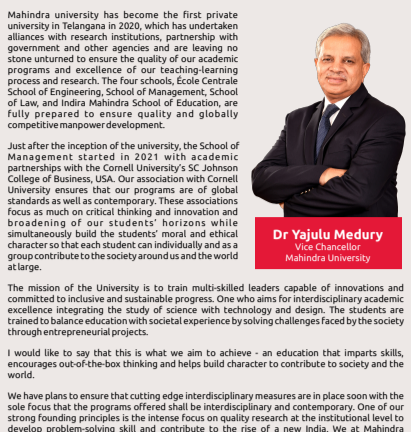


Musync 2021
THE LATEST NEWS AND UPDATES FROM MAHINDRA UNIVERSITY



IN THIS EDITION

- About Mahindra University
- Faculty Achievement
- Vice Chancellor Message
- Student Achievement
- University News
- Student Lens
- Our Collaborations
- Editorial Team

ABOUT Mahindra University

Mahindra University, established in May 2020, is a multi-disciplinary global education and knowledge campus which offers industry-aligned curricula, a student-centered learning environment, and opportunities for international exposure. The University offers Undergraduate, Post Graduate and Ph.D. programs in its five Schools namely **École Centrale School of Engineering, School of Management, School of Law, Indira Mahindra School of Education and School of Media and Liberal Arts**



The University has world class collaborations with **Cornell University's SC Johnson College of Business, Virginia Tech, University of Frankfurt, Centrale Supélec, BABSON and University of Florida** which serves inter-disciplinary learning through live industry projects and in-built flexibility of course choices, making the education very practical

Vice Chancellor's Message

Mahindra university has become the first private university in Telangana in 2020, which has undertaken alliances with research institutions, partnership with government and other agencies and are leaving no stone unturned to ensure the quality of our academic programs and excellence of our teaching-learning process and research. The four schools, École Centrale School of Engineering, School of Management, School of Law, and Indira Mahindra School of Education, are fully prepared to ensure quality and globally competitive manpower development.

Just after the inception of the university, the School of Management started in 2021 with academic partnerships with the Cornell University's SC Johnson College of Business, USA. Our association with Cornell University ensures that our programs are of global standards as well as contemporary. These associations focus as much on critical thinking and innovation and broadening of our students' horizons while simultaneously build the students' moral and ethical character so that each student can individually and as a group contribute to the society around us and the world at large.



Dr Yajulu Medury
Vice Chancellor
Mahindra University

The mission of the University is to train multi-skilled leaders capable of innovations and committed to inclusive and sustainable progress. One who aims for interdisciplinary academic excellence integrating the study of science with technology and design. The students are trained to balance education with societal experience by solving challenges faced by the society through entrepreneurial projects.

I would like to say that this is what we aim to achieve - an education that imparts skills, encourages out-of-the-box thinking and helps build character to contribute to society and the world.

We have plans to ensure that cutting edge interdisciplinary measures are in place soon with the sole focus that the programs offered shall be interdisciplinary and contemporary. One of our strong founding principles is the intense focus on quality research at the institutional level to develop problem-solving skill and contribute to the rise of a new India. We at Mahindra will endeavor to bring about change in the academic scenario through critical thinking, focus and innovation and widening of our student's knowledge horizons.

I invite you to experience the outstanding facilities and knowledge at Mahindra University and be a torchbearer of the new generation and of a bright future.

University News

Upskill training on Basics of Electric Vehicles.



Dr. Manish K Agrawal, Professor Sreedhar Madichetty, Professor Bhaskar Tamma, on December 16, instructed 70 Daimler Truck engineers covering Vehicle power & energy requirement, Battery Electric Vehicle (BEV), Fuel Cell Vehicle and BEV/FCV challenges.

International Conference on Emerging Techniques in Computational Intelligence, (ICETCI)



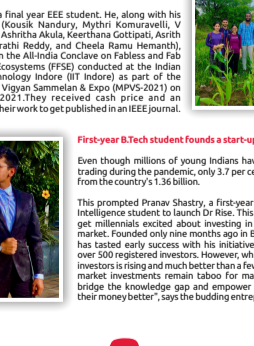
The International Conference on Emerging Techniques in Computational Intelligence, ICETCI 2021, was held in Hyderabad from August 25 to 27, 2021. The conference consisted of an online one-day tutorial session and two days of keynote lectures by invited experts and paper presentations by practitioners. Submission of papers was requested from all areas of Computational Intelligence, both emerging topics that form the theme of the conference and more established areas, presenting developments in algorithms and applications. All papers passed through multiple peer-review processes, and accepted papers were presented at the conference and submitted to IEEE Xplore for publication.

Cutting Edge Charcha on Management: Solving the Right Problems-The Art of Reframing



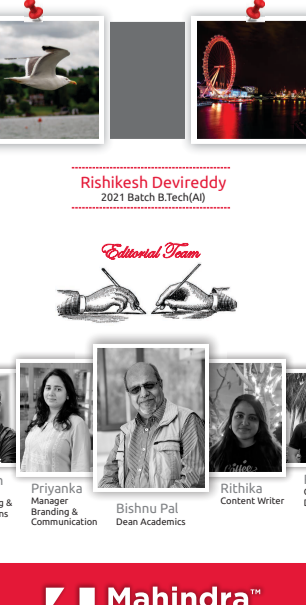
The online webinar held on July 19 discussed how to master the art of reframing to make sure you're focusing on the right things. Thomas Wedell-Wedellborg, Author, Executive Advisor and Keynote Speaker, showed how people waste time, money, energy and even lives by solving the wrong problems. We tend to be less adept at, as individuals, and as organisations, making sure that the problems we solve are the right ones. When profound challenges occupy organisations, many of them pressing and urgent; the shortcomings can have serious consequences. How to tackle such issues were taught and highlighted in the webinar.

'Understanding Law and Justice'



Justice J. Chelameswar, Judge (Retd.) Supreme Court, on September 17, at an online event, emphasised the Supreme Court's crucial role of history in creating a society. He asserted that democracy is a system of government, and to create a just and lawful society; the aim should be democratic governance. He also engaged with questions of power and concluded that if not checked, power can corrupt the system and adversely affect the functioning of society. As young lawyers, students were suggested to work to create a more trustworthy, transparent and accountable society for the people.

WORLD CLASS COLLABORATIONS



Faculty Achievements

Dr. Bishnu Pal
Dean Academics

SPIE Maria J. Yzuel Educator Award
Dr. Bishnu Pal has been conferred with the 2021 SPIE Maria J. Yzuel Educator Award (U.S.A.) in recognition of his "four decades of sustained contributions in education, outreach, research, technical publications in guided wave optics and photonics".

2021 Maritime Silk Route International Conference
Dr. Pal was invited to speak at the '2021 Maritime Silk Route International Conference, which witnessed the participation of some of the leading global optical communication researchers, scholars and industry experts.

Dr. Dibakar R. Chowdhury,
Professor & Head
Department of Physics

Article Published in The Journal of Applied Physics
A significant scholarly work by the research group of the physics professor was recently published in the well-known international Journal of Applied Physics (U.S.A.). Dr. Chowdhury's co-authored article on 'Hybridisation of Dark Resonant States in Terahertz Metasurfaces' was featured in the journal, and he co-authored with others on Maximum Power Point in Single Step: A Novel Method for PV Industry which was published in the Magazine.

Dr. Sunil Bhooshan
Professor
Dept of Electrical & Electronics Engineering

Fundamentals of Analogue & Digital Communication Systems.
A publication written by Dr. Sunil Bhooshan has been published and is available online. The book highlights a core understanding of the fundamentals of analogue & digital communication systems.

Dr. Ranjith Kunnath
Professor
Dept of Mechanical Engineering

3D Elastodynamic Fracture Simulations
Dr. Kunnath's project under National Supercomputing Mission, India, will develop and implement new computational methods to study dynamic crack and friction problems. The boundary integral equation method is widely used for studying planar fracture problems. It is computationally more efficient than finite difference and finite element methods.

Dr. Sreedhar Madichetty
Associate Professor
Dept of Electrical & Electronics Engineering

Article published in IEEE Transactions on Power Electronics Journal and Magazine
Articles by Dr. Sreedhar Madichetty were published in the prestigious and well-known IEEE Transactions on Power Electronics Journal and Magazine. In the article, Prof. Madichetty co-authored on Cyber Attack Detection and Correction Mechanism in Distributed DC Microgrid, which was published in the journal, and he co-authored with others on Maximum Power Point in Single Step: A Novel Method for PV Industry which was published in the Magazine

Dr. Deep Seth
Assistant Professor
Mechanical Engineering

Soft Exoskeleton / Exo-Suit for Application in Daily Life and Industry
Dr. Deep Seth's project on "Soft Exoskeleton / Exo-Suit for application in daily life and industry" has been proposed to G.H.B. project "Rehabilitation robotics" headed by Prof Ashish Dutta (IITK), is approved for funding. This is under the i-Hub Foundation for Robotics (iHFC), a Technology Innovation hub of IIT Delhi set up by DST, Dr. Faiz Iqbal.

Dr. Nilanjan Banik
Professor
School of Management

Economic & Political Weekly publishes a journal authored by Nilanjan Banik, Professor of Economics and Finance, MUSOM
Dr. Nilanjan published a journal about the Indian perspective on I.P.R. (Intellectual Property Rights) waiver and COVID-19 medicines. According to him, due to the spread of Covid-19 cases in India during the second wave, the Government of India decided to negotiate for an I.P.R. waiver under section 17 (copyright), related rights, 4 (Industrial designs), 5 (patents), and 7 (protection of undisclosed information) of TRIPS Agreement under the World Trade Organization (W.T.O.). He believes the proposed I.P.R. waiver would allow more industry players from India to manufacture vaccines, medicines and other Covid-19 related medical items, which would further reduce the cost.

Dr. Ayushi Tandon
Assistant Professor
School of Management

Telemedicine Registry launched at Medical Device Digi Expo 2021
Dr. Ayushi led a project named "telemedicine registry", launched at Medical Device Digi Expo 2021. She is a project lead at the alliance for telemedicine registry and evaluation and is also working with experts from industry and academia to develop a framework for assessment of the telemedicine solutions and platforms.

Dr. Vinay Sharma
Assistant Professor
School of Law

Best Paper Award at International Conference
Dr. Vinay Sharma has been awarded Best Paper Award at the International conference on Legal prospects and challenges of a globalised and digitalised world at Amity Law School for his paper "E-Governance: A Delicate Balance Between Data Privacy And Future Digitization".

Student Achievements

Team Gas Monkeys Racing, the home-grown racing team of Mahindra University's S.A.E. club, unveiled its first car, called the **Orangutan**. Vedant M. Sangeani, Y Jathin Reddy and Pavan Kushal Velagaleti were the students who designed it for SAE INDIA BAJA student competition for the 2020 season. At first, they qualified in the virtual event and then participated in the main event at Indore in January 2021.

Telangana's first Autonomous Underwater Vehicle (AUV), **Black Pearl**, got selected in the Top 30 teams worldwide for SAUVC 2020. The vehicle's build was primarily carried out by Naval Pattr, Nishith, Pulkit, Suresh, Srikanth Gadda, Sai Madhavan and Sai Kiran Kumar led the overall project.

Chakshu.ai is a **Deep Learning SaaS start-up** with a mission to disrupt the Status Quo by leveraging the power of AI. They harness State-of-The-Art Computer Vision technology to solve complex problems efficiently. Chakshu Face Attendance App is an attendance recording app that uses Face recognition to recognise employees and mark their IN/OUT attendance at a workplace. They are a team of 4 hackers: Kartikeya, Ayush, Shreyasi and Vinay.

FAVO Construction Technologies Pvt Ltd - A team of three, Siri Chandana Vodela, Shiva Bhisne and Gaayatri Yarlagaada, alumni of Mahindra École Centrale, started up Favo Robotics in 2018 and incubated at the E-Hub aka Incubation Centre. They are a robotics start-up based out of Hyderabad, India, making construction automation accessible by providing affordable automation solutions to the construction industry to increase productivity and reduce the cost of construction. Their flagship product is a brick masonry assistive robot that collaborates with four humans and builds walls. Their assistive robot doesn't replace humans; instead, it fills the acute skilled labour shortage and employs fresh civil engineering graduates. Moreover, the robot can be repurposed for construction 3d printing, plastering, painting and material handling.

Kunal Jadhav, final year EEE student and team, wins third prize in All-India Conclave on Fabless and Fab Semiconductor Ecosystems (FFSE)
Kunal Jadhav is a final year EEE student. He, along with his team members (Kousik Nandury, Mythri Komaravelli, V Meghana Reddy, Ashritha Akula, Keerthana Gottipati, Asrith Reddy, Parthasarathi Reddy, and Cheela Ramu Hemnith), won third prize in the All-India Conclave on Fabless and Fab Semiconductor Ecosystems (FFSE) conducted at the Indian Institute of Technology Indore (IIT Indore) as part of the Madhya Pradesh Vigyan Sammelan & Expo (MPVS-2021) on December 23, 2021. They received cash prize and an opportunity for their work to get published in an IEEE journal.

First-year B.Tech student founds a start-up, Dr Rise
Even though millions of young Indians have taken to stock trading during the pandemic, only 3.7 per cent invest actively from the country's 1.36 billion.
This prompted Pranav Shastry, a first-year B. Tech Artificial Intelligence student to launch Dr Rise. This start-up seeks to get millennials excited about investing in the Indian stock market. Founded only nine months ago in Bangalore, Pranav has tasted early success with his initiative and already has over 500 registered investors. However, while the number of investors is rising and much better than a few years ago, stock market investments remain taboo for many. "We want to bridge the knowledge gap and empower people to utilise their money better", says the budding entrepreneur.

STUDENTS LENS

Turlapati Fenney Graham
2019 Batch Mechanical Engineering

Shaik Salma
2020 Phd Scholar

Rishikesh Devireddy
2021 Batch B.Tech(AI)

Editorial Team

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Priyanka Manager Branding & Communication
Bishnu Pal Dean Academics
Rithika Content Writer
Raj Creative Designer