



॥ सा विद्या या विमुक्तये ॥

ಭಾ.ತಂ.ಸಂ. ಧಾರವಾಡ  
भा. प्रौ. सं. धारवाड  
IIT DHARWAD

INDIAN INSTITUTE OF  
TECHNOLOGY dhArwad

# NEWSLETTER

ಸಂಖ್ಯೆ | ಸಂಬಂಧ | SAMBANDH

VOLUME 2 | ISSUE 2 | APRIL 2024



## CELEBRATING PROGRESS

Vice President  
**Shri Jagdeep Dhankhar**  
Inaugurates  
**Central Learning Theatre  
and Knowledge Resource  
& Data Centre**



On March 1st, 2024, Indian Institute of Technology dhArwAD (IIT dh) marked a significant achievement with the grand opening of several new facilities at its permanent campus. The honorable Vice President of India, Shri Jagdeep Dhankhar, the ceremony and inaugurated the Central Learning Theatre (CLT), the Knowledge Resource and Data Centre (KRDC), and two new grand entrances. These buildings proudly showcase the architecture IIT dhArwAD Permanent Campus. The CLT features multiple, state-of-the-art lecture halls and auditoriums. Its design incorporates a unique ramp for accessibility and a stunning dome that adds a touch of grandeur. The KRDC houses the central library, reading rooms, and a data center, all housed within a majestic structure. The building boasts breathtaking city views from its viewing gallery.

The event was graced by a distinguished gathering of several dignitaries including the Governor of Karnataka Shri Thaawarchand Gehlot, Shri Pralhad Joshi, Union Minister of Coal, Mines & Parliamentary Affairs and Shri Basavaraj Horatti, Chairman of the Karnataka Legislative Council. Prof. Venkappayya R. dEsAi Director and Chairperson of the Board of Governors welcomed the dignitaries. Hon'ble Vice President during his address emphasized the vital role IITs play in India's development. He urged students to harness their knowledge for building a brighter future. The Vice President's visit signifies a pivotal moment in IIT dhArwAD's journey towards academic excellence. The institute remains firmly committed to its mission: leveraging technology for the progress of India and the world.



# Empowering Education

## Students Lead Training in Atal Tinkering Lab at Government Schools

Asst. Prof. Vijeth J Kotagi  
Dept. of CSE

In a heartwarming display of initiative and dedication, two students from IIT dhArwAD took the reins to conduct training sessions at government schools, aimed at empowering fellow students with hands-on skills in technology. The focal point of these sessions was the utilization of Atal Tinkering Lab resources, with a specific focus on sensors and Arduino.



The students, Shriyuts Abhiram K (3rd B. Tech) and Shriyuts Ganesh Karamsetty (3rd B. Tech) embarked on this journey with a passion to share their knowledge and foster enthusiasm for technology among their peers. Armed with their own expertise and a desire to make a difference, they set out to two government schools, namely, Government High School, KOTur and Government High School, BeNachi to impart valuable skills and knowledge.



The Atal Tinkering Lab, a government initiative aimed at fostering innovation and entrepreneurial spirit among students, provided a perfect platform for the training sessions. With its array of tools and resources, including Arduino microcontrollers and various sensors, the lab offered an ideal environment for hands-on learning.



The training sessions were meticulously planned to ensure maximum engagement and understanding among the government school students. Through a combination of demonstrations, practical exercises, and interactive discussions, the participants were introduced to the basics of sensors and Arduino, along with their real-world applications.



The response from the government school students was overwhelmingly positive, with many expressing their excitement and eagerness to learn more. For most of them, it was their first introduction to such technology, opening up a world of possibilities and igniting a newfound passion for innovation. The impact of these training sessions extended beyond just imparting technical skills. They served as a catalyst for confidence-building and self-belief among the government school students, empowering them to explore and experiment with technology fearlessly.



As we reflect on this inspiring endeavor, it becomes evident that the future of education lies in the hands of passionate individuals willing to share their knowledge and expertise for the greater good. The efforts of these students serve as a shining example of the impact that can be achieved through dedication, empathy, and a shared commitment to empowering the next generation of innovators. This article celebrates their remarkable journey and serves as a reminder of the transformative power of education when driven by passion and purpose.



Vedant Sports | Dori | 2024.02.17 12:45

# Awards and Achievements



DR. AMARNATH HEGDE

**Asso Prof. Amarnath Hegde** (Civil and Infra. Engg.) delivered a lecture on "Foundation Challenges and Geotechnical Engineering" at the Civil Engg. Dept., V D Inst. of Tech. Haliyal. He also received the award "Exceptional reviewer of the year (2023)" by International Journal of Geosynthetics and Ground Engineering, Springer Nature, The Netherlands

**Prof. Pradeep Yammiyavar** Dean SW and Visiting Professor MMAE Dept. moderated a panel discussion session during the Conference on Future of Design Education, organized in Dept of Design at, IIT Delhi.



**Asst. Prof. Ramesh Nayaka** (Civil & Infra. Engg.) delivered a session on "Characterization of Waste Materials for Affordable Housing" during a week-long workshop at IIT Tirupati. His group also participated in showcasing a groundbreaking invention on sustainable housing innovation (3D concrete printing) at Deshpande Startups, HubbaLLi.

**Asso. Prof. Ridhima Tewari** from HEART Dept. presented her research on Bhojpuri popular culture and contemporary cinema at the Kala Pani Crossings #3 Conference organized by the French Institute – Pondicherry. She also conducted an interactive workshop on Gender Sensitization for the students at DSAI Society – IIIT dhArwAD.



**Asst. Prof. Hiranya Deka** MMAE Dept. was conferred the "Young Scientist Speaker" award the Interfacial Engineering Workshop was held at IISc Bengaluru (29-31 Jan. 2024)

# Awards and Achievements

**Asst. Prof. Rakesh Lingam** MMAE Dept. under the “SERB-Vritika Accelerate Vignan” Scheme hosted five internship students in various aspects of advanced manufacturing processes.



**Asst. Prof. Vijeth J Kotagi** CSE Dept. served as a Publication co-Chair the 25th International Conf. on Distributed Computing and Networking (ICDCN) at IIT Madras 4-7 January 24.

**Shri Manjunath S Koparde, Jr.** Tech. Supt. under the guidance of Asst. Prof. Naveen Kadayinti E E C E designed and developed “Europa” a regulated DC power supply source using low-cost and local components.



**Asst. Prof. Punnap Chatterjee** MMAE received a Naval Research Board (NRB) grant from Defence Research and Development Organisation (DRDO) on Piezo-Actuated Biomimetic Propulsion for Underwater Vehicle Locomotion.

# Events at IIT dhArwAD



Civil & Infra. Engg. Dept. organized a week-long workshop on "Characterisation Techniques and Life Cycle Assessment of Construction Materials for Sustainable Infrastructure" Sponsored by SERB, Gol



The Department of Biosciences and Bioengineering organized the first Summer school on "Biological Dynamics: From Molecules to Evolution" through a series of engaging talks and poster presentations.



IIT dhArwAD signed an MoU with M/s Aequus Pvt. Ltd., a leading contract manufacturing company with an aim of facilitating and guiding joint projects and internships, as well as sharing research and incubation facilities.

The Global Center of Excellence in Affordable and Clean Energy (GCoE-ACE), IIT dhArwAD in collaboration with Lowe's India Pvt. Ltd., Bengaluru organized an Upskilling Program during 15-16 Mar. 24 on 'Application of Open-Source Energy Model: To Develop Indian Zero Carbon Pathway.'





NSS Unit of IIT dhArwAD organized a Model United Nations event, aimed at honing delegation and diplomatic skills among the students.

Voter Awareness Program was conducted on 5 Mar. 24 by the NSS unit of IIT dhArwAD.



## ST3. INNOVATIVE CONSTRUCTION MATERIALS AND TECHNIQUES



## IN2. 4D PRINTING AND SHAPE MEMORY MATERIALS



Following two teams participated in the InvenTiv-2024 (Annual R&D Innovation fair for IITs, NITs & other Leading Tech. Edu. Institutes ) from IIT dhArwAD

1. Sustainable Technologies Theme (ST3) is exploring Innovative Construction Materials and Techniques and led by Asst. Prof. Ramesh Nayaka (Civil & Infra. Engg. Dept.)
2. Industry 4.0 Theme (IN2) focused on 4D printing and shape memory materials and led by Asst. Prof. & HoD Somashekara M. A., MMAE



IIT dhArwAD and Aveti Learning hosted a panel discussion in the Odisha History Congress at Ravenshaw University, Cuttack, Odisha on 21-22 Jan 2024. Director Prof. V. R. deSai and Dean FW- Prof. SRM Prasanna, participated in these events.



# Student Achievements



Kumari C Vinoothna (CS20BT009) and Shri Thummala Uttam Kumar Reddy (CS20BT052) won the second Runner-up award in an Essay Competition organized by the Governance Global Practice [Procurement] of the World Bank, New Delhi Office.



Kumari Jeslin Jacob M (EE18DP005) was conferred with the best paper award during the Advances in control and optimization of dynamical systems 2024 (ACODS 2024) conference at Shiv Nadar IoE, Delhi NCR, from 12-15th March 2024.



Shri Deepak Mudakavi (ME20DP004), PhD student at MMAE department won the "Best Paper Award" at the Internal Conf. on "Materials Processing using Lasers and Surface Engineering" (IMPULSE 2023).

Shri Mayur Shivamurthy (EE18DP003) was conferred with the best paper award in the Transformative leadership in Science Technology Engineering Mathematics and Medicine (STEMM) workshop held at IIT Delhi from 14-16 February.



Kumari Prachi Prasoon (IS22BM029) secured 5th place in Hindi Creative Writing, 6th place in Hindi Poetry Writing, and 13th place in Hindi Slam Poetry during the Inter IIT Cultural Meet 6.0 at IIT Kharagpur.



Shri Aryan Gupta (CS21BT005) was selected for the Mathematics of Information Technology and Complex Systems (MITACS) Globalink internship program to work at Ontario Tech University, Canada.

## Energy Trilemma: How is the Indian Economy dealing with it?

Asst. Prof. Debalina Chakravarty, HEART Department IIT dhArwad

The 'Energy Trilemma' addresses three frequently contradictory challenges- securing energy security, ensuring energy equity and sustaining environmental sustainability. Providing energy security refers to the competence of a nation in meeting present and future energy demands consistently and not depending too much on any single energy solution along with resilience and reliability of energy infrastructure. Energy equity is about providing everyone with affordable, consistent, and plentiful energy for both personal and business use. The energy system's environmental sustainability characterizes transforming a country's energy system to avoid and mitigate potentially climate change impacts and environmental harms. Environmental sustainability in the context of the energy sector, centers on efficiency and productivity of procreation, conversion and distribution, air quality, and decarbonization (World Energy Council, 2020).

Dani Rodrik formulated the definition of trilemma as: "An 'impossibility theorem' for the global economy: democracy, national sovereignty and global economic integration are mutually incompatible: we can combine any two of the three, but never have all three simultaneously and in full" (Rodrik, 2007). That is a fundamental limitation not only for the global coordination of efforts for energy issues, climate change issues, but also for almost all SDGs (Sustainable Development Goals) Energy security enables growth and development, while energy and carbon intensity unfavorably attach with economic growth. Access to energy worsens the environment, promotes economic growth, and widens the divide between the rich and the poor. Increased material and energy consumption could be a result of economic expansion, weakening environmental sustainability. The main issues and components that make a worldwide energy trilemma are the need to manage energy deprivation, energy disparity, economic growth, and environmental sustainability. Consequently, energy use and economic growth are correlated with the level of development, energy users, and energy mix. To balance the ensuing trade-offs, countries have expanded their energy sources and established effective energy systems to effectively manage their current and future energy needs. (World Energy Council, 2020).

The Energy Trilemma Index (ETI) is a measure propounded by the World Energy Council (WEC) to

indicate the state of the energy trilemma by considering several energy indicators of energy security, energy equity and sustainability along with socio-economic indicators of the economy. Along with energy transition improvements in all three dimensions, the energy trilemma index including all relevant indicators are expected to improve and capture the expanding energy sector socio-economic and sustainability performance (World Energy Council, 2020b). Energy security indicators includes diversity of electricity installed capacity, share of renewable energy in total installed capacity, installed generating capacity, electricity consumption per capita, energy supply deficit, installed capacity, peak demand, Aggregate Technical & Commercial (AT&C) losses, Average Cost of Supply and the Average Revenue Realized (ACS-ARR) gap and average hours of electricity supply in the agriculture sector. Energy equity indicators comprises with the energy access, energy affordability and performance of utilities like percentage of households having access to electricity, percentage of households having access to cleaner fuels like LPG (Liquefied Petroleum Gas) or PNG (Pressurised Natural Gas), Average Cost of Supply (ACS), non-subsidized LPG Price, petrol and diesel prices, cross subsidization, revenue of utilities, cost of power, payables of power purchase (days), tariff subsidy billed and total revenue. Lastly, environmental sustainability indicators are energy efficiency score, performance of clean energy (Capacity/Potential), energy intensity (kgoe/GDP in ₹1000), notification of SAPCC, CO<sub>2</sub> reduced from LED bulbs/1000 population (tonnes), percentage of forest cover, emission intensity (kgCO<sub>2</sub>eq/ GSDP in ₹1000), Air Quality Index (AQI) and rate of electric vehicle penetration. The socio-economic context related to energy trilemma includes indicators as growth rate of gross state domestic product, foreign direct investment inflows, regulations, institutions & governance, Human Development Index (HDI), good governance index, SDG index, innovation score as per India Innovation Index (III), logistics index and investment opportunities.

According to the recent ETI (2022), the top three countries are Sweden, Denmark, and Switzerland with well-established energy policies that promote diverse and decarbonising energy systems balancing three conflicting components. Sweden retains its first position from 2020 scoring 73.1 for

# Energy Trilemma

energy security, 95 for Energy Equity and 87.5 for Environmental Sustainability. India has ranked 63rd in the world among 127 countries in the year 2022 (scored 53.6 out of 100) from the 109th rank in 2020. India is now among top 5 improvers with 23% improvement rate, since 2000 as identified by the ETI performance score. Within India, the top three states are Kerala, Gujarat and Karnataka with scores 67.37, 66.54 and 65.65 respectively.

**Table: Performance of India in 2022 in Energy Trilemma Index.**

	Overall Score	Energy Security Score	Energy Equity Score	Energy Sustainability Score
India	53.6	61.1	48.4	51
Top Score	84.3	73.1	95	87.5
World	66.3	58	75	66

Source: World Energy Council, 2023

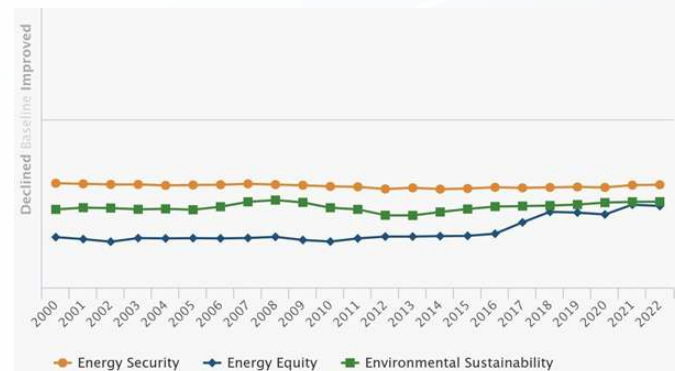
## How is the Indian Economy dealing with the trilemma?

While in India energy equity remains stable and environmental sustainability has increased significantly in the past 10 years. Improving energy security and maintaining energy equity is the future agenda for balancing the energy trilemma. The recent clean bio-fuel (National Biofuel policy and National Hydrogen Mission) roadmap published by the government is for targeting energy security. A potential explanation for this performance amidst economic and geo-political turmoil is that the sustainability profile has improved due to increasing share of renewable energy and affordability has been ensured by providing 100 percent access to electricity, increasing access to LPG connections, targeted subsidies for cleaned fuel and electric vehicle penetration in the transportation sector. India has also emerged from the recent energy crisis relatively unaffected due to its increased utilization of its current generation capacities and low use of natural gas in power generation. The country's energy transition towards decarbonisation of power generation and electrification of final demand are key drivers for dealing with the energy trilemma. Improvements in energy sustainability have also been driven by an ambitious reform agenda, infrastructure investments and a competitive renewable energy landscape.

India committed to achieving a zero carbon growth path by 2070 is essentially a precondition for the improvement in energy trilemma. Resolving the energy trilemma of affordability, security, and sustainability is still fundamental for India's

sustainable energy development. Indian energy policy stakeholders timely recognize the complexity of controlling the problems of energy-poverty, inequality and energy transition and sustainability. The coming decades will be crucial for Indian energy economic stability; however, the scope for improvement is significant by focusing on the simultaneous solution of problems of climate change, on the consumption side, not only on the side of emissions by production. Domestic energy transformation (not substitution by imports) will require substantial investment costs and building infrastructure, institutions and human capital playing as important a role in terms of goals as 'Climate and Energy Transition'.

**Figure: Historical Trilemma Scores for India**



Source: World Energy Council, 2022

Note: Trend lines track the country's performance in each dimension, beginning with a baseline of 100 in the year of 2000

## Reference

Dani Rodrik, 2007. "Introduction to One Economics, Many Recipes: Globalization, Institutions, and Economic Growth," Introductory Chapters, in: One Economics, Many Recipes: Globalization, Institutions, and Economic Growth, Princeton University Press.

World Energy Trilemma Index 2020 Report, World Energy Council, 2020. Website: <https://www.worldenergy.org/>. Accessed on 24th February, 2024.

World Energy Trilemma Index 2022 Report, World Energy Council, 2022. Website: <https://www.worldenergy.org/>. Accessed on 24th February, 2024.

## Future Forward

**Lavanya Shende, Senior Coordinator CDC (220120022)**

The Career Development Cell (CDC) curated an exceptional event, "Future Forward," held on 15-16 Mar.2024, aimed at expanding students' perspectives, and furnishing them with invaluable insights for their professional journeys. The event commenced with an illuminating keynote address by Mrs. Kalpana Arvind, Associate Director at LEOS-ISRO, who shed light on women's roles in ISRO, past and present projects, and internship opportunities within the organisation.



The focal point of the event was the captivating discourse delivered by Shri Arsh Goyal, a distinguished Senior Software Engineer at Samsung and a celebrated alumnus of NIT Jalandhar. With a remarkable academic record as a Gold Medalist in Electronics and Communications, Arsh imparted profound wisdom on navigating job placements, optimising resources, and sustaining motivation in the professional realm.

Following Arsh's enlightening session, participants enjoyed a networking lunch, fostering meaningful interactions with him and other esteemed alumni. This laid the groundwork for deeper connections and potential mentorship opportunities. The subsequent segment, "Meet Your Alumni," showcased illustrious speakers such as Shriyut Sonu Sourav, (a dynamic member of ShareChat's Android team ) and Abhinav Gupta, who shared invaluable insights from his journey at Zepto and Amazon Prime Videos' Localization Team. Further enriching the event were Shriyut Arun Purohit, a Data Scientist at Ushur Bengaluru and Ashish Raghav, a System Engineer at BorgWarner and an M.Tech alumnus of IIT Madras.

Their diverse perspectives on career trajectories and opportunities added depth to the discussions, inspiring attendees to explore various avenues in their professional lives.

In addition to the insightful talks, alumni curated engaging activities for students and served as judges for the "Hack the Future" competition. This competition challenged participants to devise innovative solutions for real-world challenges faced by startups and companies, fostering an atmosphere of creativity and collaboration. Overall, "Future Forward" left a profound impact on all participants, empowering them with knowledge, connections, and inspiration as they embarked on their journeys towards future success.



## PARSEC 4.0

Agrim Jain, Co-ordinator ARSEC



PARSEC 4.0, the annual technical fest of IIT dhArwAD, unfolded with a symphony of innovation and intellect, showcasing the vibrant technical culture thriving within the institution. With a lineup of diverse events tailored to challenge and inspire, PARSEC served as the ultimate platform for budding engineers to exhibit their prowess and ingenuity.

The hackathon, DevHack 5.0, kicked off the festivities, urging participants to unravel solutions to real-world problems through creative coding. Meanwhile, AlgoStrike 4.0 put competitors' programming skills to the test in a high-stakes battle of algorithms. BitHunt 2.0 engaged minds with a blend of DSA quizzes and a thrilling treasure hunt for the sharpest contenders.

Innovative intersections between technology and humanity were explored in events like AI Cure, where artificial intelligence converged with healthcare, and Aurora, a stellar odyssey delving into the realms of space and data science. FinTech Odyssey delved into the future of finance, blending quizzes with startup pitches, while Tetris Trades simulated the excitement of stock trading in a mock competition.

But PARSEC wasn't just about cerebral challenges. The spirit of camaraderie and entertainment flourished with events like Stand Up Comedy Show: Zabaan Sambhalke and Binary Beats: DJ Night pulsating with energy.

As the buzz of excitement lingers and memories of intense competitions and lively performances settle, PARSEC 4.0 leaves behind a legacy of inspiration and camaraderie. Beyond the technical challenges and entertainment, it fostered a sense of community and collaboration, reminding participants that the journey of innovation is as much about collective growth as it is about individual achievement. With each edition, PARSEC not only strengthens the technical fabric of IIT dhArwAD but also ignites a



spark of passion and curiosity that propels students towards excellence in their academic and professional pursuits. As the campus returns to its routine, the echoes of PARSEC continue to resonate, fueling the aspirations of young innovators and laying the foundation for a future where their contributions will shape the course of technological advancement.



## HarSHtAl '24

**Prajwal Prasad (CS23BT074), Junior Co-ordinator**

The air at IIT dhArwAD was abuzz with anticipation and excitement on the 30th of March, 2024 as we set out to begin our very own tradition - An indigenous festival to pay homage to the brilliant tapestry of culture in the country and at our institute. Thus, was born HarshTaal, the cultural festival of IIT dhArwAD.

Conducted between the 30th of March to the 1st of April 2024, HarshTaal '24 witnessed an expert inter-club collaboration between all the clubs in the cultural council of the institute. From graceful dance performances and melodious music recitals to mind-boggling quizzes and thought-provoking literary events, the festival had something to offer to all students and faculty.

With various dance competitions, showcasing diverse styles, conducted by Sapphire, the Dance club, intense debates, and poetry competitions pioneered by EUNOIA, the Literary Club, band performances by Rhapsody, the Music club, and quizzes on cricket and Indian elections held by the quiz club, HarshTaal '24 left no stone unturned when it came to exploring the best of the students' interests.



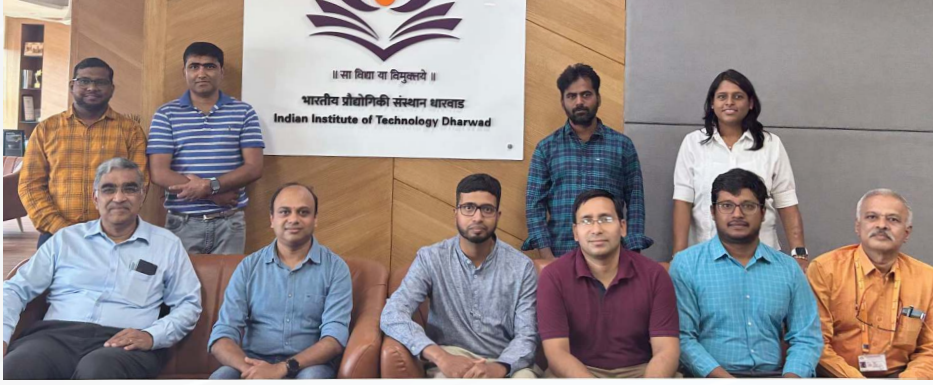
On the 31st of March, the auditorium of IIT dhArwAD shook with the electric and energising music of the band Fourth Octave. The group, with skilled finesse, were able to blend different eras of Indian pop music, from across the country. On the journey from Kishore Kumar to AR Rahman, the audience had an evening that they would never forget.

The curtains were brought down on a wildly successful HarshTaal '24 with Samaagati, an explosive fusion of the Odissi and Kuchipudi dance performed by the gracefully by Ms. Srividya Angara Sinha and Ms. Shubha Nagarajan. Their unmatched grace marked a symbolic end to the first edition of IIT dhArwAD's very own cultural festival, signifying the powerful unity that revelled in the wonderfully diverse culture of India.

HarshTaal '24, amid all the glory and success, carries with it a far more important message - One of continuity. It carries with it, a promise to keep the passion to explore the diversity of our unique country alive through music, dance, literature, and any other available avenues. It carries with it, the determination of all students to make the subsequent edition of HarshTaal bigger and better!



# Welcome to IIT dhArwAD Family



**From left to right:** Dr. Mahitosh Mandal Assistant Professor, Humanities, Economics, Arts and Rural Technologies; Dr. Kundan Kumar Singh Sagar Assistant Professor, Chemistry, Dr. Mahesh Gudem Assistant Professor, Chemistry; Dr. Satavisha Kayal Assistant Professor, Chemistry, Prof. SM Shivprasad, Officiating Dean Outreach. Dr. Naveen M B

Associate Professor, Electrical, Electronics and Communication Engineering; Dr. Ameer Kalandar Mulla, Electrical, Electronics and Communication Engineering; Dr. Nilkamal Mahanta HoD, Chemistry; Dr. Vijeth J Kotagi, Public Relations Officer, Prof. Venkappayya R dEsAi, Director.



**From left to right:** Rahul, Junior Technician. Kuldeep Singh, Junior Technical Superintendent. Akash Pol, Junior Engineer, Abhishek

Hadapad, Junior Technician. Deepika B G, Junior Technician. Vishalakshi Irappa Channannavar, Junior Assistant, Katke Rajesh Shivaji, Junior Engineer. Deepak Tiwari, Junior Superintendent, Inderpal, Assistant Registrar, Kenchappa Sasanur. Junior Assistant. Vasudevarao Pavuluri, Junior Technical Superintendent. Prof. SM Shivprasad, Dr. Keerthi Kumar M, Sports Officer. Sandeep Pareek, Deputy Registrar, Prof. Venkappayya R dEsAi, Director and Dr. Vijeth J Kotagi.

## List of Donors to IIT dhArwAD (during Jan.-Mar. 2024)

**Total Donations received till Dec. 2023 are ₹23,55,000.00**

### DONATIONS DURING THE QUARTER

Sl. No	Donar's Name	Affiliation	Designation	Donation Amount (₹)	Donation Date
1	Mr.V Chander	External Donor	—	40,000.00	16.01.2024
2	Prof. Rakesh Lingam	IIT dhArwAD	Assistant Professor	10,000.00	17.01.2024
3	Prof. S R M Prasanna	IIT dhArwAD	Professor	25,000.00	30.03.2024
<b>Total</b>				<b>75,000,00</b>	



॥ सा विद्या या विमुक्तये ॥

ಭಾ.ತಂ.ಸಂ. ಧಾರವಾಡ  
भा. प्रौ. सं. धारवाड  
IIT DHARWAD

IIT dhArwAD Campus,  
Chikka malligawad,  
dhArwAD-580 007, KarnATaka

Email id: pro@iitdh.ac.in  
Phone No.: +91 836 2212 839  
www.iitdh.ac.in



Instagram



LinkedIn



Twitter



Website



Youtube

# ಸಂಖ್ಯಂಧ | ಸಂಬಂಧ | SAMBANDH



Credits : Public Relations Team, IIT dhArwAD

VOLUME 2 | ISSUE 2 | APRIL 2024

All rights reserved by IIT dhArwAD. Published by IIT dhArwAD, Printed at S R Creations, HubbaLLi 6362492512