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OVERALL RANKING- 22
ENGINEERING-12
MANAGEMENT-29



Heritage Building
Courtesy: Mrs. Chaitali Sarkar

EDITOR'S REMARK

The IIT(ISM) Newsletter is one of the seminal channels to keep the extended IIT(ISM) Community and visitors up-to-date on the latest news and upcoming events. This edition of the newsletter brings to you an overview of the academic activities and achievements, research impact and interactive engagements, work information, students and alumni stories, faculty appointments, an exclusive coverage on how IIT(ISM) is responding to COVID-19, and exciting developments from the different corners of the campus.

Happy Reading!

FROM THE DIRECTOR'S DESK

Dear Friends:

I dearly hope that this message finds you and your family healthy and safe right now. In these strange and uncertain times, we are already well on our way. I am proud of the pro-active initiatives taken

by my faculty colleagues, students, officers & staff, doctors and para-medical staff, security personnel, and sanitary workers since the onset of this global pandemic and appreciate the response of the whole Community for embracing the new normal. We have also started exploring on how we can restart our campus life. To my students, I would say, rest assured and please continue with your learning.



On the research front, the Institute has undertaken some translational research for the new COVID-19. This Newsletter captures those stories in detail. Further, I am happy to state that the NIRF has placed IIT(ISM) on 12th Rank in the Engineering category- a rise of three places as compared to fifteen in 2019, which indicates that our dreams of yesterday have started turning into reality. But, surely this will not satiate our hunger to be on the pinnacle of excellence. Our next target is to affirm a position in the top eight and this will be surely achievable as we are moving ahead with a far more deterministic approach and zeal.

I am highly grateful to our alumni who have always remained engaged with their *alma mater* and have supported it with their resources when possible. IIT(ISM)'s Corona virus response fund total is now over Rs. 1.10 crore. Thanks to our amazing alumni who have stepped-up to contribute Rs.84.27 Lakhs. Finally, I am appreciative of the philanthropic zeal of each and all who have risen once more to a great challenge. Wish you the very best and pray that each of you and your loved ones continue to remain safe and healthy.

Onward!

IIT (ISM) INNOVATES MAGICAL COATING TO COMBAT CORONAVIRUS

We are delighted to share with you that IIT (ISM)'s biggest enterprise, at the moment, is to accelerate research and innovation for new Coronavirus. In connection to this, the Institute has rapidly engaged itself in a number of R&D activities and one such success story is our recent innovation of Silver nanoparticles based super-hydrophobic anti-viral coating on cloth, by Prof Aditya Kumar, Ms. Kalpita Nath, and Ms. Poonam Chauhan, Department of Chemical Engineering, which will prove to be a good substitute to PPE Kits. The idea is that if clothes are made anti-bacterial and anti-viral, then multi-layered clothing and full body cover PPE kits will not be needed and one will also get rid of the discomfort that the PPEs pose.

(Click Here for more details)

(Click here for video)



RESEARCH & INNOVATION

NOVEL TOOL TO HELP GAIN DEEPER INSIGHT INTO PARKINSONS DISEASE

Prof Umakanta Tripathy, Dept. of Physics, IIT(ISM) Dhanbad and Prof. Krishnananda Chattopadhyay, CSIR-Indian Institute of Chemical Biology, Kolkata have teamed up to device Z-scan method, a technique for monitoring both the early and late stages of the aggregation of alpha synuclein (ASyn), a protein, which plays a crucial role in the pathology of the Parkinsons disease.

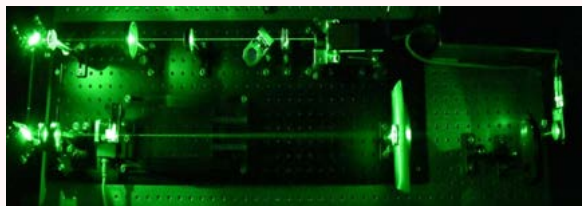


IMAGE OF Z-SCAN DEVELOPED AT THE INSTITUTE

(Click Here for details).

HIGH SPEED MICROMACHINING DEVICE DEVELOPED BY MICRO FAB LABORATORY



IMAGE OF MICRO MACHINING DEVICE

A high speed micromachining device has been designed and developed in the micro fab laboratory of Dept of Mechanical Engg with the efforts of Prof. Vivek Bajpai and his team.

The machine has an accuracy of $\pm 2.5 \mu\text{m}$ (extendable up to $\pm 0.3 \text{ mm}$) with a travel range of 150 mm and a spindle speed of 60,000 rpm (extendable up to 170,000 rpm) with an adequate torque (0.24 Nm) to machine hard metals such as titanium and Inconel alloys. The machining centre is assembled on a vibration-free granite frame with a maximum deflection of 40 nm.

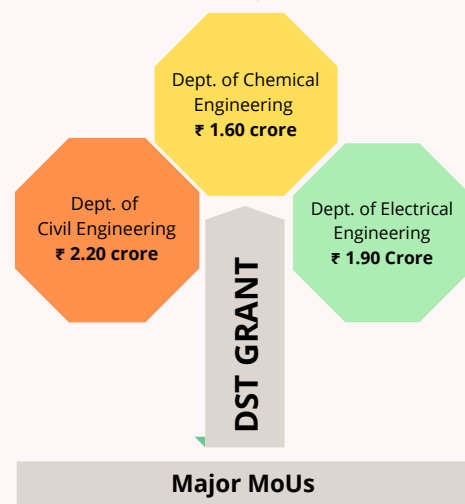
IIT(ISM) DHANBAD DEVELOPS UVC SYSTEM TO CHECK THE SPREAD OF COVID-19

Prof. A R Dixit, Dept. of Mechanical Engineering and his team has developed a UVC radiation based disinfectant chamber to address the concern raised for rapid transmission of the Covid-19 virus within the country. The system is designed and fabricated in the "Central Fabrication Facility" of the institute. The UVC (200-280 nm) could be an effective measure for decontaminating surfaces by inducing photodimers in the genomes of microorganisms.



PROF. A R DIXIT AND HIS TEAM WITH THE UVC DEVICE

AWARD OF DST GRANT 2019-20



LAUNCH OF NEW SCHEMES: RESEARCH AND DEVELOPMENT

To induce a vibrant research environment on campus and to constantly advance the bounds of scholarship, innovation, and knowledge research, the R&D Cell has introduced many programmes accentuating strong support for individual researchers as well as research groups of the Institute.

PROF. SHALIVAHAN DEAN, (R&D)



CLEAN AIR TECHNOLOGY DEVELOPED BY IIT(ISM)



Prof. Pandian demonstrating to Shri Sanjay Dhotre, Union Minister of State for Human Resource Development, Communications and Electronics & Information Technology, Government of India about the altered tail pipe

Prototype of altered tail pipe, a design based on grouping theory, was displayed by the research team of Prof. Suresh Pandian E., Dept. of Environmental Science & Engineering, during an Exhibition on "Clean Air Technologies" at Gramoday Parisar held at IIT Delhi on 24 Feb, 2020. The event was inaugurated by Shri Sanjay Dhotre, Union Minister of State for Human Resource Development, Communications and Electronics & Information Technology, Government of India.

It is assumed that the Clean Air Technology will be able to control vehicular emission by reducing the health hazardous sub-micron sized particles which are emitted through the engine exhaust gases.

- MoU was signed between IIT (ISM) and National Hydroelectric Power Corporation Limited (NHPC Ltd.) on 27 November, 2019. NHPC has empanelled the institute to provide Research & Development and Consultancy Services.
- IIT(ISM) and Australasian Institute of Mining and Metallurgy (AusIMM) signed an MoU on Feb 24, 2020.
- An MoU was signed between the Department of Mining Machinery Engineering, IIT (ISM) and Normet India Private Limited, Noida on 01 November 2019.

Why IIT(ISM) Matters to Me?



SHRI PRAMOD THAKUR
B.TECH (ME, 1961)

“Motivated by the Motto of ISM (“get up, wake up and get higher knowledge from learned teachers from *Kath-Upanishad*”), I travelled half way around the world and obtained 3 graduate degrees from the Penn State University in USA: MA (Math), MS and Ph.D. (Mining Engineering). Working for a good oil and gas company (CONOCO Inc.) gave me all the support I needed. I never worried about money, but always lived within my income and religiously invested 22% of my income.

This philosophy made me well-to-do and put me eventually in the top 1% of US population. After retirement, at the age 77, I began to think, “What to do with this wealth?” The Hindu scriptures say, “Wealth has 3 alternatives: enjoy it; donate it or it will be misused and destroyed”. So, I began to establish scholarships at ISM and other Universities here where I teach as an Adjunct Professor. **The reason is simple: education at these schools made my life successful so I will help others to fulfill this goal.** ”
Glory to my Alma Mater! Cheers!



SHRI DEEPAK SARKAR
B.TECH (PE, 1962)

“The institute imparted knowledge and skills that helped me throughout my working life.

It is gratifying to see my *alma mater* evolving into a premier institute of advanced learning and research in India. With current initiatives in innovation, research and entrepreneurship **we foresee a day in near future when IIT (ISM) shall be considered among the topmost educational institutes of India.** ”

“ISM provided a solid educational foundation for a successful career for many of us. Aiding my *Alma Mater* to continue to achieve higher and higher goals becomes a matter of “Collective Pride” of which I want to remain a part of. I look at my *alma mater* today with pride, love, and fond memories of the good times we had in our teen and formative years.

Unbreakable bonds made between classmates and then revived during Golden Jubilee celebration in 2018. **An association that I will always cherish and remain proud of!** ”



SHRI YUGAL GUPTA
B.TECH (PE, 1968)

“Like everything around us, ISM has also evolved. The student body has grown significantly over the years, from 600 in 1958 to several thousand today, the curriculum offers many subjects instead of just 4 in my time. The name has changed from ISM to IIT (ISM).

I have been back to ISM on my Golden Jubilee celebration in 2012 and, health permitting, **I am looking forward to attending the Centennial Celebration in 2026. I take pride in ISM and I am thrilled when I learn about its accomplishments and growth.** ”
I wish my Alma Mater all the success!



SHRI MOHINDER GULATI
B.TECH (PE, 1962)

In Memoriam: In Our Hearts Forever!

*Left for Heavenly Abode, but
In Our Hearts Forever...*

- **Shri Chandra Sekhar Jha** (1948, ME), Ex- Chairman, ECL & BCCL.
- **Shri. Prem Narayan Tiwari** (1960, ME).
- **Shri K. Krishnanunni** (1962, AGL), Former Director-General, GSI.
- **Shri I J Khosla** (1961, ME).
- **Shri Inderjit Singh** (1955, ME), Ex-Dy DG-DGMS.
- **Mr. Prashant Mahapatra** (1992, PE) TS to CMD, ONGC.
- **Mr Krishna Das Kothari**, a final yr B.Tech. student, left for his heavenly abode on 02 March, 2020 after a brave fight with colon cancer.
- **Ms. Shreebidya Subhadarsini**, a student of MSc Chemistry, left for her heavenly abode in March 2020.
- **Mr. Soham Mukhopadhyay** (2013, PE).
- **Mr Shah Dhruvil Devendrakumar**, a B.Tech first-year student in Electrical Engineering left for his heavenly abode in April, 2020. Dhruvil was suffering from blood cancer.

**“I am the hero
and the book
is myself...”**

**Such was our
brave alumnus**

Shri. Jaswant Singh Gill
(B.Tech, ME, 1965)

This real life hero showcased his valor by rescuing 65 miners who were trapped inside a flooded mine at Raniganj, West Bengal in 1989. This incident is well-recorded in the history of Indian mining. For the exemplary courage exhibited, he was awarded with **Sarvottam Jeevan Raksha Padak** by President Ramaswamy Venkataraman in 1991.

Shri. J S Gill left for his heavenly abode on 26th November 2019. Prof Rajiv Shekhar, Director, IIT (ISM) and the Newsletter Editorial team sends heartfelt condolences to his bereaved family and prays for their peace and comfort.



IIT (ISM) deeply mourns the demise of **Prof R K Verma**, Ex-Dean and Head of the Department Applied Geophysics, who left for his heavenly abode on 15 June, 2020. He was 90 years old.

Prof. Verma was one of the pioneers of the Dept. of Applied Geophysics and contributed immensely to its current stature. He was a good teacher and a great researcher.

Prof. Verma had initiated and patronized SPIC MACAY in ISM. He was also a good painter and a voracious reader of Hindi and English literature. May his soul rest in peace! We pray to the Almighty to provide solace and strength to his family to bear this irreparable loss.

BASANT

ALUMNI AWARDS



DR. A. N. GUPTA

CHAIRMAN & MD, PREMIER EXPLOSIVES LTD.

DISTINGUISHED ALUMNUS ENTREPRENEURSHIP AWARD 2019



SHRI NARESH VASHIST

PRESIDENT OMIMEX RESOURCES INC.

**DISTINGUISHED ALUMNUS
ENTREPRENEURSHIP AWARD 2018**



SHRI DIPAK K. SARKAR

FORMERLY SR. PETROLEUM CONSULTANT, ENERGY
ANALYSTS INTERNATIONAL, DENVER, USA
NAGENDRA KUMAR MEMORIAL AWARD 2019



SHRI AMRESH KUMAR MISHRA

IPS, SUPERINTENDENT OF POLICE, (NIA)
AWARD FOR SERVICE TO THE SOCIETY 2019



PROF. AKHIL DATTA GUPTA

ASSOC. DEPT. HEAD, REGENTS PROFESSOR, TEXAS, A&M UNIV.
RESEARCH & ACADEMIC EXCELLENCE AWARD 2019



DR. BARUN GORAIN

CHIEF TECHNOLOGY & INNOVATION OFFICER, (HZL),
BHASKAR BHATTACHARJEE MEMORIAL AWARD 2019



PROF. DEBLINA SARKAR

ASSTT. PROF. CHAIR PROFESSOR, MIT
YOUNG ACHIEVER AWARD 2019

*"Alumnus like you carry the legacy
of our IIT(ISM) wherever you go!"*

ALUMNI FUND: TOUCHING MANY LIVES!

IIT(ISM) Dhanbad is grateful to its alumni for their generous contribution to PM Cares Fund to fight against COVID-19 Pandemic. It gives us immense pleasure to inform that our alumni have contributed a whopping amount of **₹ 84.27 lakhs**. The Institute's total contribution to the **PM Cares Fund is ₹ 1.10 crore**

COVID-19 PM CARES FUND

A ' Big Thank You' to our Incredible Donors!

CONTRIBUTION FOR LECTURE HALL UPGRADES & CLASSROOM PROJECTS

Many many thanks to Dr. Pramod Thakur (1961, ME), Dr. Mohinder Gulati (1962, PE), Shri Avinash Ahuja (1967, PE), Shri Yugal Gupta (1968, PE), Shri A N Gupta (1968, ME), and Shri Amit Chopra (1961, ME) for graciously coming forward to sponsor the upgrades of eight existing classrooms into smart classrooms - a total contribution of **₹144 lakhs (@ ₹ 18.00 lakhs for each classroom)**.

LAUNCH OF INTERNATIONAL RELATIONS (IR) PORTAL

In view of the coronavirus pandemic, IIT(ISM) has launched the International Relations (IR) Portal to help our international students continue with their research. This platform will facilitate hassle-free admission to various courses.

The portal will ensure that faculty members of foreign institutes can apply to carry out joint collaborative research with IIT (ISM) students and simultaneously allow the international students to take admission into the different programmes of the Institute.

ir.iitism.ac.in

ALUMNI CONNECT

Homecoming festivities...

*Dazzling Moments Stolen
from TIME for You!!*

BASANT 2020, the grand Alumni Homecoming Weekend in early Feb offered a full slate of campus activities for the graduates from all decades, especially from 1960 & 1970 & their family.

SILVER JUBILEE BATCH- 1994



RUBY JUBILEE BATCH- 1979



GOLDEN JUBILEE BATCH-1970



DIAMOND JUBILEE BATCH-1960



PROF. DHEERAJ KUMAR
DEAN, IRAA

“Since the last two years the Dean IRAA cell has been able to strengthen the five pillars of IRAA, namely, Alumni Affairs (AA), Centre for Innovation, Incubation & Entrepreneurship (CIIE), International Relations (IR), Centre for Societal Mission (CSM), and Media & Branding Cell (MBC). So far, the journey has been quite enthralling and pleasing for me. I express my indebtedness to the IIT (ISM) administrator and all my allies including stakeholders for working together in making the mission “**Dream Together! Build Together!**” a real success.”

I am firm that the continued support of my fellow colleagues, the student team of SAIRC, Alumni and the other stakeholders will significantly pave a path for taking this great Institute to much greater heights.”



AWARDS & ACCOLADES

- **Prof. Shalivahan**, Dept. of Applied Geophysics, received the Outstanding Educator Award 2020 for excellence in Geophysics Education from the Society of Exploration Geophysicists, USA. He is the first Indian working in India to be conferred with this prestigious award.
- **Prof. Shishir Gupta**, Dept. of Mathematics & Computing has been elected as Sectional President of Mathematical Sciences including Statistics of the 108th Indian Science Congress to be held in 2021.
- **Prof. A K Varma**, Dept. of Applied Geology has been elected as Sectional President of Earth System Sciences of the 108th Indian Science Congress to be held in 2021.
- **Prof. T H Syed**, Dept. of Applied Geology was conferred with the National Geoscience Award 2018 in the field of Applied Geology by Minister of Parliamentary Affairs, Coal and Mines in Sep, 2019.
- **Prof. Raghvendra Chaudhary**, Dept. of Electronics & Communication has been appointed as a member on the Editorial Board of the IET Microwaves, Antennas & Propagation, UK.
- **Prof. Tanusree Kaibartta**, Dept. of Computer Science & Engineering received the IEEE Computer Society Early Career Young Woman Scientists Fellowship by Asian Test Society 2019 Symposium in December 2019.
- **Prof. V.M.S.R. Murthy**, Dept. of Mining Engineering received the Institute of Engineers' "The Institution Prize" for a joint paper with Dr. Ritesh D. Lokhande (Research Scholar), entitled "Numerical modelling of pot-hole subsidence due to shallow underground coal mining in structurally disturbed ground" in December 2019.
- **Prof. Parthasarathi Das**, Dept. of Chemistry has been selected as member of the newly elected Council of "Chemical Research Society of India (CRSI), Bangalore.
- **Prof. Gajendra Kumar Vishwakarma**, Dept. of Mathematics & Computing was awarded "Associate Fellow" by International Academy of Physical Sciences, India for his contribution in "Statistics". He received the award on 29 Dec, 2019 during CONIAPS XXV. Furthermore, he has been elected as an Executive Council member (East Zone) of the International Biometric Society (Indian Region) USA for two years (2020-2021).

DUO INDIA FELLOWSHIP-2020

- **Mr. Susanta Banerjee**, Research Scholar & **Prof. Sanket Nayak**, Dept. of CE; Host Institution: Politecnico Di Milano, Italy.
- **Prof. VMSR Murthy**, Dept. of ME; Host Institution: Politecnico Di Torino, Italy.
- **Prof. SC Dutta** (Dept. of CE) Host Institution: The University of Manchester, U.K.
- **Prof. Pawan Kumar Singh** (Dept. of Mech Engg) Host Institution: University of Lisbon, Portugal.
- **Prof. Bobby Antony** (Dept. of Physics) Host Institution: University of Kent, U.K.
- **Prof. Biswajit Paul** (Dept. of ESE) Host Institution: University of Sheffield, U.K.
- **Prof. S K Ghosh** (Dept. of Mech Engg) Host Institution: Vienna, University of Technology, Austria.
- **Prof. S K Das** (Dept. of CE) Host Institution: UCL (University College London, UK).
- **Prof. Aditya Kumar** (Dept. of Chem Engg) Host Institution: Christian-Albrechts-Universitat Zu Kiel, Germany.

INDER MOHAN THAPAR RESEARCH AWARD (IMTR)

- Mr. Narendra K. Rawat (PE, Guide: Prof. Ajay Mandal);
- Ms. Abhyarthana Pattanaik (FM&ME, Guide: Prof. R Venugopal);
- Mr. Prasenjit K. Sukul (Appl Phy, Guide: Prof. Kaushal Kumar);
- Ms. Divya Paul (ESE, Guide: Prof. Subodh K Maiti);
- Md. Asif (ME, Guide: Prof. D C Panigrahi).

The recipients received the award for publishing technical papers in Journals with highest Impact Factor. Each was conferred with a Citation and Rs.50,000/-

- **Ms. Suman Goyal**, Dept. of Mathematics & Computing, received the "Best Poster Award in Mathematical Science including Statistics Section in the 107th Edition of Indian Science Congress.
- **Mr. Mriganka Shekhar Chaki**, Dept. of Mathematics & Computing won the Best Poster Award in Mathematical Science including Statistics Section in the 107th Indian Science Congress held in January 2020.
- **Ms. Shatabdi Misra**, Dept. of Applied Geology, received the ISCA Young Scientist Award in the Earth System Sciences category in the 107th Indian Science Congress held in January 2020.
- **Mr. Vishal Bagale**, Research Scholar, Dept. of Fuel Minerals, Metallurgical Engineering received SERB- Teachers Associateship for research excellence (TARE) for a period of 3 years.
- **Ms. Ruchika Sonak**, M.Tech, Dept. of ECE was awarded the Best M.Tech Project completion Award in Student Innovation Project Competition at Incap 2019.
- **Mr. Anupam Patel**, 5 years Integrated M.Tech, Dept. of Applied Geophysics has been selected for 3 months Summer-2020 Internship under Prof. Hadi Ghofrani at the Western University, Ontario (Canada) through MITACS Globalink.
- **Mr. Gourab Das & Mr. Rakesh Chaudhary**, Research Scholars, Dept. of ECE were awarded the 'Research Publication Award for JRF in Dept. of Electronics & Communication Engineering-2019'.
- **Society of Petroleum Engineers, IIT (ISM) Student Chapter's team** consisting of Mr. Debosmit Banerjee (Team Captain), Mr. Suyash Aakash, Mr. Aman Kumar, Mr. Nikhil Singh Kushwah, Mr. Anurag Jain, secured the First Position out of 34 teams in the SPE Asia Pacific Regional Qualifiers 2020. The competition took place on the 29th & 30th of May 2020.
- Eight Students of Dept. of ME received the prestigious Scholarship of **USD 7200 by SME International** under two categories: **John Sidney Marshal Scholarship**: Aditya Himanshu, Vishal Raj, Vivek Araon, Chappidi Jagadeesh, Biplab Ghosh, Satyam Kumar and Nagam Ramsai; **Coal & Energy Division Scholarship** : Anant Singhal.
- **Education Foundation Scholarship of USD \$4500** by Society of Explosive Engineers (SEE) was awarded to three final year students of Dept of ME: **Jerry McDowell Scholarship Fund**: Aditya Himanshu & Akash Kumar; **Alex Senules Scholarship Fund**: Vivek Oraon.
- Mr. Sanchit Kumar (B.Tech ME), Mr. Parth Hetamsaria (B. Tech ME), and Ms. Varnika Kumari (B.Tech, Mech Engg) won the **National Ideation Challenge 2020, KPMG**.



GATE TOPPERS

1. **Mr. Vikash Kumar**- (Mechanical Engineering) - **AIR-1**
2. **Mr. Priyanshu Maheswari** - (Mining Engineering) - **AIR-1**
3. **Mr. Gaurav Kumar** - (Petroleum Engineering) - **AIR-1**
4. **Mr. Rupam Raj** - (Electrical Engineering) - **AIR-2**

SEMINARS, WORKSHOPS & INVITED TALKS

An International Symposium on "5G and Beyond for Rural Upliftment" was organized by the Dept. of ECE on 8th February 2020.



Prof. Mirosław Karbowniczek, Vice Rector, AGH University of Science and Technology, Krakow, Poland visited the Dept. of FMME and delivered talks on "The use of coal for slag foaming technology in an electric arc furnace" and "Energy resources mining in Poland."



An International Workshop on "Water Jet Processes and related 4.0 applications" under the aegis of TEQIP-III was organized by the Dept. of Mechanical Engineering in collaboration with BIT, Sindri (Under Twinning Activity) during 7-8 December 2019.



Prof. Reza Jazar, Dept. of Mechanical and Automotive Engineering, RMIT University, Melbourne, Australia, delivered a talk on 'Energy Harvesting' on 17th January 2020.



National Conference on Recent Trends in Environmental Pollution & Disaster Risk Reduction was organized by the ESE Dept. & FICCI during 6-7 February 2020. The conference was inaugurated by Shri Babul Supriyo, Minister of State Ministry of Environment, Forest and Climate Change, GoI.

A National Symposium on "Advanced Technology Infusion for Efficiency Enhancement in Energy Sector" was organized on 12th January 2020 at Coal Bhawan Auditorium, CIL, and Kolkata in technical collaboration with RMIT University and CSIRO, Australia. The symposium was organized in the backdrop of development and availability of the new state-of-the-art and advanced technologies in the field.



Prof Robert Finkelman, University of Texas, Dallas delivered a lecture on "Modes of occurrence of elements in coal and their impacts on human health" at Dept. of ESE in December 2019.

- **Prof Robert Jay Pulliam**, W.M. Keck Foundation Prof of Geophysics, Baylor University, US visited the Dept. of AGP as **Fulbright-Nehru Distinguish Chair Professor**.

- **Padma Shri Dr. H. K. Gupta**, a Raja Ramanna Fellow at the National Geophysical Research Institute (NGRI), Hyderabad delivered the Late Prof. J. Singh Memorial Lecture on "Developing Earthquake and Tsunami Resilient Society" on February 07, 2020.

- Lecture series on "Creative Problem Solving and Leadership Skills" was organized by the Dept of ME during 14-16 January 2020. Prof. Y. P. Chugh, Professor Emeritus, Southern Illinois University, Carbondale, USA and Visiting Professor, Dept. of ME delivered the lectures.

A workshop on "Advanced Technology Infusion for Efficiency Enhancement in Sustainable Mining" was organized for the academicians, researchers and industry leaders on 18th January 2020. RMIT, Melbourne Australia and CSIRO were the technical collaborators of this prestigious workshop with support of DFAT Australia under Australia-India Council Scheme. The workshop focused on the application and development of disruptive digital technology for sustainable mining processes.



- A Symposium dedicated to advancing the chemical sciences and supporting research was organized in collaboration with Royal Society of Chemistry on 11 December, 2019.
- An International Workshop on "Precision Engineering and Management" was organized by the Dept. of MS on 15 January 2020.
- A national conference on "Modeling, Analysis and Simulation (MAS)-2019" was organized by the Dept of M&C during 16-18 December 2019.

SOCIAL INITIATIVES

Centre for Societal Mission

HIGHEST UNIT OF BLOOD DONATED BY FAST FORWARD INDIA



- Fast Forward India (FFI) under the Centre of Societal Mission (CSM) donated 540 unit of blood to Patliputra Medical College Hospital (PMCH) Blood Bank, this year- the highest blood donation by any other organization in a year.
- FFI organized a Mega Blood Donation Camp on the Republic Day. A total of 169 unit blood was collected from all the centres.

MENSTRUAL HYGIENE WORKSHOP BY KARMAJYOTI

As a part of 'Swachhta Pakhwada', volunteers of Karma-Jyoti, a working NGO of Research Scholars of IIT(ISM) organized 'Menstrual Hygiene Workshop' at Govt Schools of Dhanbad for the girl students of standard VI-VIII on 22 Jan, 2020. They also distributed Sanitary pads and the comic book, *Menstrupedia* among the girls.



EXCURSION TO CHEMISTRY LABORATORY FOR IIT-JEE ASPIRANTS



An excursion to Chemistry Laboratory was organized for students of standard XI-XII and IIT-JEE aspirants studying in different centers run by Karma Jyoti and Fast Forward India. During the visit, students got a chance to interact with professors and research scholars of the dept. and they learned different reactions. Education kit was given to all the students.

PRAKASH'20, THE ANNUAL DAY OF KARTAVYA



Kartavya, a students' NGO under CSM celebrated its Annual Day- Prakash' 20 on 19 Jan, 2020. Around 25 schools and NGOs participated in Poster Presentation, Science Exhibition, Yoga, Karate, and cultural events like dance, singing, and drama.

UMEED 2020, THE 6TH ANNUAL DAY OF FAST FORWARD INDIA

UMEED 2020, the 6th Annual Day of Fast Forward India was celebrated on 19 January 2020. The theme for this year's UMEED was "ऊँची उड़ान - Sky is no longer the limit". The fest consisted of six events: *Nrityangana* (a dance competition), *Chitrahaar* (a painting competition), *Resolved 6.0* (a debate competition), *Dhwani* (a singing competition), *Mastermind* (a quiz competition), and *Einstein's Playground* (a science exhibition). A total of 43 schools and 6 NGOs participated in the events.

Social Initiatives during COVID-19

COVID-19 pandemic has become a catastrophic global event, democratically transgressing all geographical divides, engulfing us all without actually distinguishing between the rich and the poor, and permeating apocalyptic visions of a world turning into a viral desert.

The IIT(ISM) Community has risen to the occasion and acting responsibly with a concern for compatriots in an unsettled time.

For detailed report [CLICK HERE](#)

To watch the Video on social initiatives, [CLICK HERE](#)



Preparation & distribution of cooked packets of food to all homeless and needy in Dhanbad

Dry ration distribution to Lalmani Bridha Sewa Ashram (LBSA), an Old-age home at Dhanbad



Dry ration distribution to leprosy hit colonies of Dhanbad

Providing solace to police personnel working during COVID-19



ON CAMPUS: NEW FACULTY MEMBERS

PROFESSOR



Rakesh Kumar
Visiting Professor
Dept. of FMME



Gadadhar Sahoo
Visiting Professor
Dept. of CSE

Laxmidhar Behera
Adjunct Professor
Dept. of CSE

ASSISTANT PROFESSOR



Alik Sundar Majumdar
Dept. of Applied Geology



Swarandeeep Sahoo
Dept. of Applied Geophysics



Ashish Yadav
Dept. of Chemical Engg



Ejaz Ahmad
Dept. of Chemical Engg



Vivek Shankar Pinnamaraju
Dept. of Chemical Engg



Prashant Kumar Gupta
Dept. of Chemical Engg



Renu V
Dept. of Civil Engineering



Aparna Neettiyath
Dept. of ECE



Kesavan Ravi
Dept. of FMME



Namrata Sharma
Dept. of HSS



Rashmi Singh
Dept. of MS



Shikha Singh
Dept. of MS



A Antony Selvan
Dept. of M & C



Amitava Adak
Dept. of Physics



Ahmed Sameer
Dept. of HSS



Aparna Krishna
Dept. of MS



Shuvashree Mondal
Dept. of M & C



Swagata Bhaumik
Dept. of Mechanical Engg



Arun Dayal Udai
Dept. of Mechanical Engg



Shashank Bansal
Dept. of MS



Himanshu Gupta
Dept. of MS

SOCIO-CULTURAL & TECH FESTS

SRIJAN-2020



SPIC MACAY EVENTS

To sensitize our students to Indian culture and art forms, the Institute invited noted artists under SPIC MACAY; to name a few, Malabika Mitra, a renowned Kathak dancer of Jaipur Gharana, Pt. Tarun Bhattacharya, a Santoor Maestro, Padam Shri Pt. Bhajan Sopori, and others.



EK BHARAT SHRESTHA BHARAT (EBSB)

The Cultural Council under Gymkhana organized several events to celebrate the cultural diversity of the nation through EBSB. Dance forms of different States, such as, Andhra Pradesh, Telangana, Haryana, Rajasthan, and West Bengal were performed, juxtaposed and celebrated.



CULTURAL FEST & TECH-FEST: AWARDS WON

- Members of **Quiz Club** - Mr. Aritra Mustafi, Mr. Ashutosh Sahu, and Mr. Harsh Kumar Singh bagged the third position in a quizzing event, SBI Numero YONO quiz held in Patna.
- **Mr. Divyansh Pundhir**, a member of LITC was chosen as the Subsidized Adjudicator for Parliamentary Debate at IIT Guwahati.
- "We the Crew" (WTC), the official Street Dance Crew of the Institute, bagged 3rd position in Centrifuge (Stage Dance) at Springfest, IIT Kharagpur.



STREET PLAY TEAM OF ABHAY DRAMATICS CLUB

- **Inter IIT Tech Meet:** IIT(ISM) won a Gold and four Silver medals contributing to an overall position of 9th amongst 21 participating IITs held at IIT Roorkee.
- **Inter IIT Cultural Meet:** IIT(ISM) featured in the top-6 positions in events related to Photography, Dance, Dramatics, Fashion Show, DJ Battle, Film-making, Quiz, Slam Poetry, and Creative Writing.
- **We the Crew (WTC)** was declared the first runner up in Street Battle.
- **FotoFreaks**, the Photography Club of the Institute was declared the first runner up in 'Photostory' and 2nd runner up in 'Photography'.
- **ABhAy Dramatics Club** bagged the 2nd runner up position in Street Play.
- **Lights Camera ISM** was declared the 2nd runner up in Online Filmmaking competition.

ONLY SPORTS...GLIMPSES!



54th Inter-IIT Sports meet held at IITKGP & IIT Bhubaneswar

- **Mr. Prashant Kaushik** won a Silver Medal in 69 Kg category and **Mr. Manoj Kumar** won a Bronze Medal in 77 Kg category.
- **Mr. Oppong Seth** won a silver medal in Discus Throw.
- The **Football team** won a Bronze Medal.
- **March Past Contingent** bagged the 1st position.



Ms. Jaladi Vinuthna Vinod Raju, Dept. of MS won GOLD MEDAL and the title of Miss Bharath Physique 2019 in the 67th National Fitness and Body-building Championship- 2019 organized by the Indian Fitness and Body Builders Federation at Bangalore in Dec, 2019.

- **Squash team** won a Silver medal in **Spardha 2k19** held at IIT(BHU).

- **Boxing team** won 7 medals in Spardha 2k19 and also bagged the overall runner-up trophy.



- **Karate Team** won a total of 10 medals in the 6th All India Bushikan Shoto Karate Championship held in Jan, 2020.



- **Karate team** won two Silver medals in Jharkhand State Karate Championship held at Khel Gaon, Ranchi in Feb 2020.



- **Inter-House General Championship** was held from 16 Oct- 03 Nov, 2019. **Bellatrix House** bagged the overall Championship trophy.
- The **91st Annual Sports Day** was organized from 9-10 Nov, 2019.



CAMPUS EVENTS: A Kaleidoscopic View

The 40th Convocation of IIT(ISM) was held on 21st December 2019. Shri Shashi Shanker, CMD, ONGC was the Chief Guest of the function and delivered the Convocation address.

FOUNDATION DAY

The Institute celebrated its **94th Foundation Day** on 9th December 2019. Inder Mohan Thapar Research Award (IMTR) for the year 2018 was given to 5 research scholars, while 11 employees who completed their 25 years of long service at the Institute were felicitated in a formal ceremony.



25TH ANNUAL FLOWER SHOW

INDUSTRY-INSTITUTE INTERACTION (III) - 2020

INTERNATIONAL WOMEN'S DAY

MATRI BHASHA DIVAS



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