Indian Institute of Technology Mandi

4th Convocation

10-10-2016

Indian Institute of Technology Mandi

Scaling the Heights

CHIEF GUEST

Prof. Joachim Holtz
Emeritus Professor
Wuppertal University, Germany

GUEST OF HONOUR

Shri M. Natarajan
Former Chairman, Board of Governors
IIT Mandi

DIRECTOR

Prof. Timothy A. Gonsalves
Director
IIT Mandi

Indian Institute of Technology Mandi

Scaling the Heights

IIT Mandi, Kamand South Campus (2015)

WELCOME TO IIT MANDI

IIT Mandi, welcomes you to its 4th Convocation Ceremony on 10th October, 2016. As part of this Convocation, 7 Ph.D. scholars, 5 M.S. (by Research), 10 M.Sc. (Chemistry), 3 M. Tech. (Energy Engineering) and 115 B.Tech. students would graduate from IIT Mandi.

Indian Institute of Technology Mandi (IIT Mandi) is nestled in the Shivalik Range of the Himalayas, away from the bustle of the metropolis. It is situated, about 18 kms from the historic town of Mandi, in the Kamand Valley on the bank of the Uhl, a tributary of the river Beas. Since its inception in 2009, IIT Mandi has developed to commendable heights. In this very short span of time, it now has a fully residential campus with world-class academic and research facilities.

CONVOCATION PROGRAMME

10th October 2016, 3:30 PM to 5:00 PM

Arrival of Chief Guest in IIT Mandi Robe Room

Start of the Academic Procession

National Anthem

Felicitation to Dignitaries on Dias

Chairman, BoG Declares the Convocation "Open"

Welcome Speech and Report by the Director, IIT Mandi

Award of Degrees and Medals

Oath Giving

Convocation Address by the Chief Guest

Closing of Convocation Ceremony

National Anthem

Return of Academic Procession

VISION & MISSION OF IIT MANDI

Vision

To be a leader in science and technology education, knowledge creation and innovation, in an India marching towards a just, inclusive and sustainable society.

Mission

1. To create knowledge through team effort and individually for the benefit of society.
2. To impart education to produce professionals capable of leading efforts towards innovative products and processes for the development of the Himalayan region in particular and our country and humanity in general.
3. To inculcate a spirit of entrepreneurship and to impart the ability to devise globally recognized solutions for the problems of society and industry, particularly in the fragile eco-system of the Himalayas.
4. To train teachers capable of inspiring the next generation of engineers, scientists and researchers.
5. To work intensely with industry in pursuit of the above goals of education and research, leading to the development of cutting edge and commercially-viable technologies.
6. To operate in an ambience marked by overriding respect for ability and merit.

SHRI PRANAB MUKHERJEE

THE PRESIDENT OF INDIA
GOVERNMENT OF INDIA

सत्यमेव जयते
Government of India

MESSAGE FROM THE HONORABLE PRESIDENT OF INDIA

The President of India, Shri Pranab Mukherjee, is happy to know that the Indian Institute of Technology Mandi, is organising its Fourth Convocation on October 10, 2016.

The President extends his warm greetings and felicitations to the faculty, staff and the graduating students of the Institute and sends his best wishes for the success of the Convocation Ceremony.

SHRI PRANAB MUKHERJEE

SHRI MOHAMMAD HAMID ANSARI

THE HONORABLE
VICE PRESIDENT OF INDIA
GOVERNMENT OF INDIA

सत्यमेव जयते
Government of India

MESSAGE FROM THE HONORABLE VICE PRESIDENT OF INDIA

The Hon'ble Vice President of India is happy to learn that the Indian Institute of Technology Mandi, Himachal Pradesh is organizing its Fourth Convocation Ceremony on October 10, 2016.

The Vice President extends his greetings and congratulation to the students, teachers and the staff and wishes the event all success.

SHRI MOHAMMAD HAMID ANSARI

SHRI PRAKASH JAVADEKAR

HONB'LE MINISTER OF HUMAN RESOURCE DEVELOPMENT GOVERNMENT OF INDIA

सत्यमेव जयते
Government of India

MESSAGE FROM THE HONORABLE MINISTER OF HUMAN RESOURCE DEVELOPMENT

It gives me great pleasure to congratulate the graduating students, faculty, and staff of IIT Mandi on the occasion of its Fourth Convocation. I am aware of the excitement and the anticipation with which an event as important as Convocation is awaited, and I am happy to send my greetings on this important occasion in the life of the institute.\

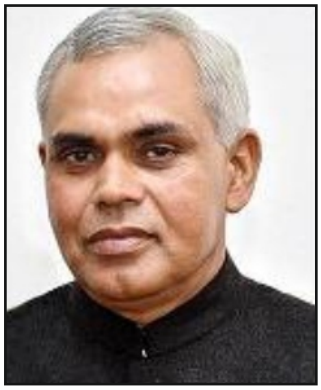
In India, the Golden Age of Institution building was the 1950s. This was the decade in which, after the tumult caused by Independence and Partition, our great national institutions were established. The first three IITs, of course, but also the National School of Drama, the Sahitya Academi, and many others. In the years that followed, these institutions have made a niche and a name for themselves. It is not easy, however, to follow in their footsteps.

Institution-building is both an art and a science: it requires logistics and manpower, but above all breadth of vision, an imagination that soars above the mundane, and an ability to predict the needs of the future. It is, therefore, heartening to know that Institutions with a potential for excellence continue to be built today, not only in the well-developed Metropolitan centres of our country, but in far-flung regions of our country.

In this regards, I would like to congratulate the IIT Mandi academic community, as I have been told that, in a very short time, this institute has risen to be a leader in science and technology education in the northern frontiers of India. IIT Mandi today has a vibrant community of 842 students in all, either beginning their exploration of the world as B.Tech. Students, or undertaking advanced research.

Sir Issac Newton, the famous physicist and mathematician, once said, “if I have seen future, it is by standing upon the shoulders of giants.” With this statement, he acknowledged the debt he owed to his predecessors in the world of science. I would like to ask the graduating students of IIT Mandi to remember the giants whose achievements have enabled them to see far. And perhaps one day, they too will be an inspiration to someone else. Each and every IIT Mandi graduating student this year has my very best wishes for his/her life's journey.

PRAKASH JAVADEKAR



सत्यमेव जयते
Government of India

SHRI ACHARYA DEVVRAT

HIS EXCELLENCY
THE GOVERNOR OF HIMACHAL PRADESH

MESSAGE FROM THE HONORABLE GOVERNOR OF HIMACHAL PRADESH

It gives me immense pleasure to know that Indian Institute of Technology Mandi is organizing Fourth Convocation Ceremony on October 10, 2016.

The Indian Institutes of Technology are highly regarded not only in India but all over the World for their excellence as academic institution. IIT alumni not only occupy prominent positions in Indian academia, industry, public service etc., but also serve in leadership roles at international corporations that impact billions of people around the globe.

The people of India as well as of Himachal Pradesh have high hopes from all the graduating students of IIT Mandi this day. It is expected that you will work for the betterment of the society, fully applying the skills and training which you have been privileged to receive during your time at the Institute.

I convey my heart-felt felicitation to the graduating students, their families, and the faculty and staff of IIT Mandi on this occasion.

SHRI ACHARYA DEVVRAT

SHRI VIRBHADRA SINGH

CHIEF MINISTER
HIMACHAL PRADESH

MESSAGE FROM THE HONORABLE CHIEF MINISTER, HP

Established in the year 2009, Indian Institute of Technology (IIT), Mandi is organizing its Fourth Convocation on 10th October, 2016. It is among the top engineering institutions in the Country formed with the objective to develop in each student the mastery of fundamentals, versatility of mind and motivation for learning, creating a talented pool of trained scientists and engineers who could contribute towards the economic and social development of the country.

The Institute has progressed gloriously ahead by achieving excellence in all aspects of academic activity to produce high quality engineering students.

I am happy to know that the Institution is also bringing out a brochure to make the occasion memorable.

I extend my heartiest congratulations to the staff and faculty members and also extend my felicitation to the students being awarded degrees.

My best wishes for the convocation.

SHRI VIRBHADRA SINGH

PROF. JOACHIM HOLTZ

EMERITUS PROFESSOR,
WUPPERTAL UNIVERSITY, GERMANY

MESSAGE FROM THE HONORABLE CHIEF GUEST

When I became a Professor at IIT Madras, there were only rudimentary laboratory facilities. The faculty dedicated themselves to theoretical investigations, which was their notion of what a Professor had to do. I started installing the equipment required for experimental research, with financial support from the German Government. I had B. Tech. and M. Tech. students working on laboratory projects. It was with their assistance that I could develop a reversible AC drive as part of a first industrial project funded by Bharat Heavy Electricals Limited (BHEL).

Returning home from India, I became a Professor at Wuppertal University, and my students at IIT had become engineers in Indian companies. They contracted me to develop industrial products for Kirloskar and for Kerala Electronic Development Corporation (KELTRON). I also kept contact with my successor at IIT Madras. We visited frequently, working on research projects out of which an IIT student obtained his doctoral degree.

I have had many opportunities to watch the growth of academic institutes and industries over a time span of 56 years. As a result, I see that the students of IIT Mandi are now being trained for a successful professional career, in keeping with the needs of Indian industries. Alternatively, they may become educators and transmit their knowledge to next generations of engineers.

PROF. JOACHIM HOLTZ

SHRI M. NATARAJAN

FORMER CHAIRMAN, BOARD OF GOVERNORS
IIT MANDI

MESSAGE FROM THE HONORABLE GUEST OF HONOUR

Respected Chief Guest, Chairman Board of Governors, Members of the Board of Governors, Members of the Finance Committee, Members of Senate, Prof. Timothy A. Gonsalves, Director IIT Mandi and Directors of other IITs, members of Faculty, distinguished invitees, research scholars, dear students, parents of the recipients of degrees and awards, members of IIT Mandi Staff, Ladies and Gentlemen, a very good afternoon to every one of you. As the guest of honour invitee, it gives me great pleasure to be, back in the campus, meeting with you all, and recounting, my association with the IIT, for the past 6 years, in seeing through its steady growth.

Established in 2009, IIT Mandi remains, the torch bearer for the advancement of knowledge, in Science and Technology, in this enchanting Himalayan landscape. In a span of 7 years, the institution has grown in strength, accommodating, close to 1000 students. Among these students, 500 are in B.Tech. programmes, and the rest constitute, post graduate students in Science and Technology disciplines, with over 200 of them, pursuing their studies as Research Scholars, an accomplishment that IIT can be truly proud of.

The construction activities under phase 1, at the south campus comprising of Hostels, Administrative and Academic blocks, with associated laboratories, class rooms, and the centralised mess for the students and the residences for some faculty, as planned are almost complete. The planned construction activities at the north campus, had not been to the satisfaction of the IIT, and that has indeed delayed, the complete shifting of all activities of the IIT, Mandi.

The Director, the faculty, the staff, and the student community, besides the contractor agencies, the central and the state governments, all must be thanked, for their contributions to the making of this beautiful campus, in the picture place, and matching these equally with their research and academic accomplishments.

I recall in my address to you all last year, I had emphasised, that the Education and Research, in the field of Science and Technology, has increasingly become inter disciplinary in nature, and is increasingly becoming a necessity to solve real world problems. It is essential therefore, there must be greater sharing of information, and meeting of minds, between the faculties of various disciplines, research scholars, and determined efforts towards attending to the perceived problems of the society, in an innovative and effective manner. This in my view will also promote acquisition of Technologies developed, by IITs, by our industries, for products and systems.

Technology adaptation, and scaling up for production, has its own challenges, and the faculty at IITs, must strive hard to get associated, with such developments, for they too provide, opportunities for projects in many newer areas, that may have to be nurtured in the larger interest of the country.

In this year's address, I wish to emphasise on the importance of understanding, the global changes in Environment, Energy, and Enterprise, and the impact of these, on our development efforts, and for the reasons of business with the rest of the world. In the energy sector, renewable energies will demand solutions for energy storage, and distribution of quality electric supply, because of the fluctuating nature of supplies.

Energy storage systems of a wide variety, such as, fuel cells, Lithium ion, and many other batteries, molten sodium/salt bath, pumped storage, are all being studied, for cost effective solutions. Similar efforts in the transport sector, is looking into electric drives, energy recovering systems, and super conduction, and magnetic, levitations, for Propulsion, to cite a few.

Enterprises in the western hemisphere, are increasingly, becoming global players, capitalising, on human resources, favourable investment climates, newer and emerging markets, and local capital, and are coming out with products and systems of a wide variety, meeting with the specific needs of each country, in an increasingly innovative, and cost effective manner. They also have the total control of newer materials developed to meet with the above said challenges. This will impact developing countries in that many technologies may not be forthcoming for licensed production. The strangle hold will be equally applicable to the manufacturing plant and machinery. These challenges will have to be addressed by our institutions and industries.

As a developing nation, our country has several socio-economic challenges, relating to poverty and illiteracy, food and nutrition, water supply and sanitation, housings, Heath care, and productive agriculture. The increasing migration of population from villages to urban centres, the exponential growth of mega cities and the improvements in our economy, and rising expectations thereof, all pose problems of their own demanding greater use of Science and Technologies, in finding satisfactory solutions.

I felt that I must give you an over view of the problems in development, and growth of our aspiring nation in the current scenario. I am confident that IIT Mandi, as it grows, will develop the capabilities and capacities, and associated skill sets, for their rightful share for the country's growth, and do the nation proud.

May I conclude, wishing every one of the post graduating and graduating students, the very best in their professional career that begins now. My congratulations, in are also to the Director, and the faculty, and staff for their sustained efforts, in the shaping of IIT Mandi. I wish the IIT the very best in the years ahead, and hope to see this institution as a top ranking institution, of which the country, can be truly proud of. Lastly, I wish to thank, the MHRD, the members of the Board of Governors, and Director, for their sustained cooperation, during my 6 years, in the capacity of Chair person BOG, and what a great experience this was. Thank you.

SHRI M. NATARAJAN

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Chairman (In-charge), BoG, IIT Mandi

DIRECTOR (EX-OFFICIO)

Prof. Timothy A Gonsalves
Director, IIT Mandi

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Chief Secretary / Secretary (by designation)
Technical Education
Government of Himachal Pradesh
Shimla –171 002

Chief Secretary / Secretary (by designation)
Technical Education
Government of Jammu & Kashmir
Srinagar-190 001

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Former Director (DAIICT)

Prof. (Mrs.) Basabi Bhaumik
Professor, Dept. of Electrical Engineering
Indian Institute of Technology Delhi

Mr. Satish K. Kaura
CMD
Samtel Group, New Delhi – 110 025

Shri Raj Khilnani
Former Director General
Anti-Corruption Bureau, Pune

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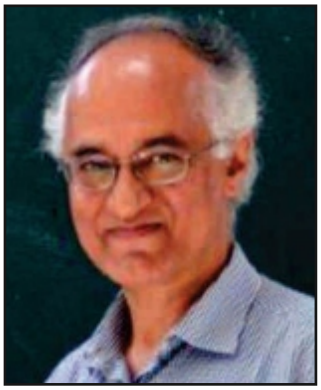
Distinguished Visiting Professor
School of Engineering
IIT Mandi

Dr. Pradeep C. Parameswaran
Associate Professor & Associate Dean (Courses)
School of Basic Sciences
IIT Mandi

SECRETARY

Mr. Mohammad Shakeel
Registrar (Ex-Officio)
IIT Mandi



DIRECTOR'S REPORT

Prof. Timothy A. Gonsalves,
Director, IIT Mandi

Welcome

Prof. Joachim Holtz, Chief Guest of the Convocation; Mr. M. Natarajan, Padmashree, the Guest of Honour and Former Chairman, Board of Governors and former Scientific Advisor to Defence Minister, Government of India; Members of the Board of Governors; Members of the Senate; distinguished guests; graduating students who will be conferred their degrees today, their family members; my faculty and staff colleagues; dear students; invited guests; the members from the media, and, ladies and gentlemen, it gives me immense pleasure to extend a very warm welcome to all of you as we congregate today on the occasion of the 4th Convocation of the Indian Institute of Technology Mandi. I congratulate you, the graduating students, on your success and wish you all the best for your future endeavours in life.

We are extremely happy to welcome our Chief Guest, Prof. Holtz, Professor Emeritus, Wuppertal University, Germany. In 1969 he became Associate Professor and, in 1971, Professor and Head of the Control Engineering Laboratory at Indian Institute of Technology Madras. In 1972, he joined the Siemens Research Laboratories in Erlangen, Germany. From 1976 to 1998, he was Professor and Head of the Electrical Machines and Drives Laboratory, Wuppertal University, Germany.

Mr. M. Natarajan was appointed as the 1st Chairman of the Board of Governors, IIT Mandi in March, 2010 and served two terms upto March, 2016. Living in distant Tirunelveli, he epitomised Digital India even before the phrase was coined. Using email and telephone, he was virtually always by my side during the trails, tribulations and excitement of the formative years of IIT Mandi. However complex the issue was, his advice or decision was always prompt and always the best!

This Convocation marks seven years of ceaseless endeavour by IIT Mandi in pursuing its vision of being a "leader in science and technology education, knowledge creation and innovation, in an India marching towards a just, inclusive and sustainable society". Thanks to concerted efforts by our faculty, students, alumni and staff, today IIT Mandi has already achieved peaks of excellence as an academic institute committed to the goals of higher education and frontier research in India. I would like to acknowledge all the well-wishers in India and abroad and the Governments of India and Himachal Pradesh for their support in the course of our journey.

Graduating Research Students

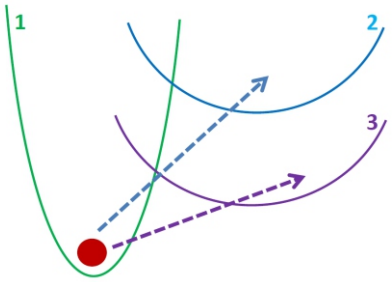
Today, 10 research scholars will be graduating with M.S. and Ph.D. degrees.

Doctor of Philosophy (Ph.D.)

1. **Diwakar**

Ph.D. Supervisor: Dr. Aniruddha Chakraborty
Title of the Thesis: Exact Solution of Few Multi-state Problems in Quantum & Statistical Mechanics

Diwaker's work in the area of multi-state problems is aimed at the analytic evaluation of transition probabilities between different states. This work started with very simple and known models, but then continued to consider scenarios with ever increasing complexity by using variety of analytic methods.

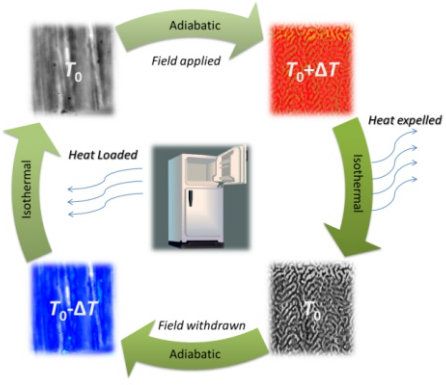


Multi-state problems in quantum and statistical mechanics

2. **Satyanarayan Patel**

Ph.D. Supervisor: Dr. Rahul Vaish
Title of the Thesis: Investigation of Solid State Refrigeration Potential in Ba0.85Ca0.15 Zr0.1Ti0.9O3 based Ferroelectric Ceramics

Satyanarayan's research focuses on the ferro-electric materials for energy conversion and solid state refrigeration applications. It is an attempt towards unification of multi-caloric effects in ferroelectric ceramics.

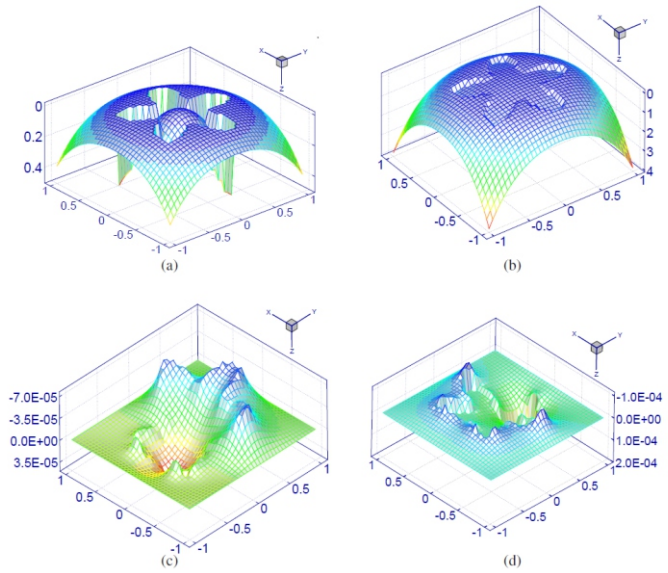


Solid State Refrigeration

3. **Hari Vansh Rai Mittal**

Ph.D. Supervisor: Dr. Rajendra Ray
Title of theThesis: A Class of Higher Order Accurate Schemes for Fluid Interface Problems

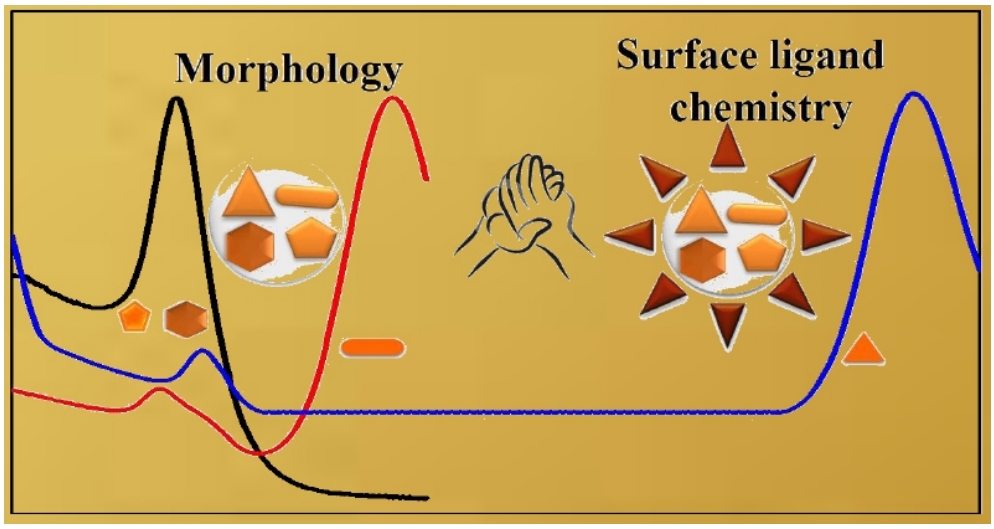
To introduce novel numerical approaches, which can be used for various complex multi-phase fluid interface problems such as flow past bluff bodies, behaviour of gas bubbles in liquids etc.



Surface plots of the (a), (b) numerical solutions and (c), (d) errors between exact and numerical solutions; for two different elliptic partial differential equations in a square Cartesian domain embedded with a complex star shaped interface on a 40 x 40 grid

4. **Abhishek Chaudhary**

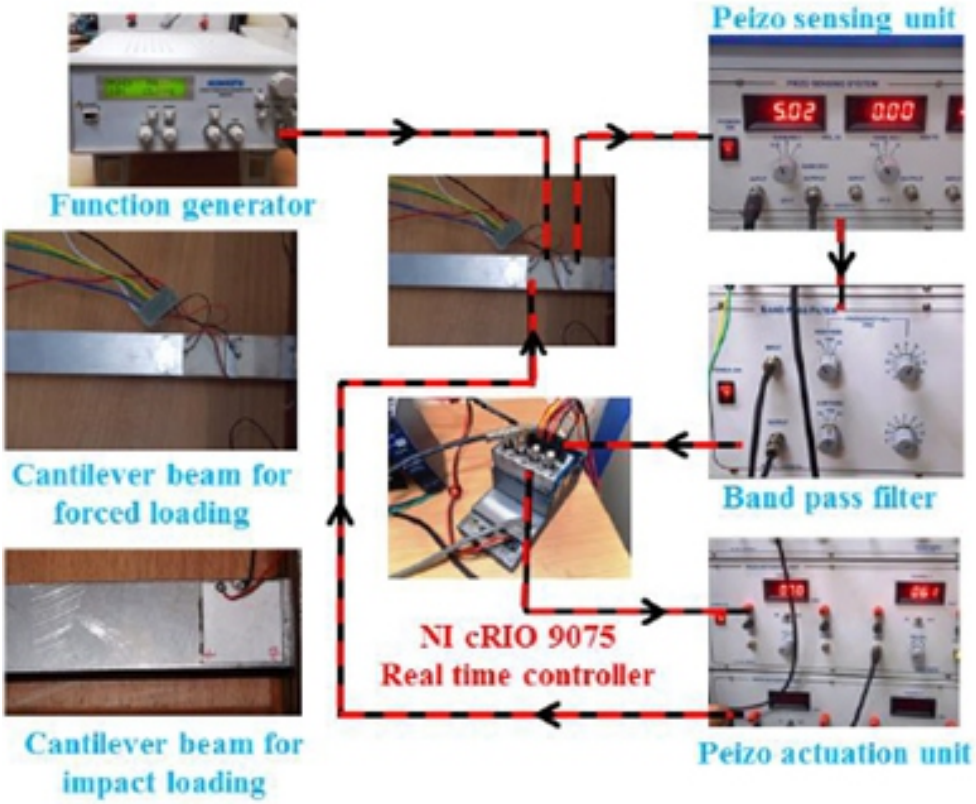
Ph.D. Supervisor: Dr. Chayan K. Nandi
Title of the Thesis: Anisotropic Gold Nanoparticle for Sensor, Protein Conformation studies and Sustained Drug Release
On the innovative smart surface chemistry and morphology of Gold nanoparticle for ultrasensitive detection of toxic metal ions, small biomolecules and understanding the conformational dynamics of proteins while adsorbed onto the gold nanoparticle surface to prevent misfolding diseases.



5. **Chander Kant Susheel**

Ph.D. Supervisor: Dr. Rajeev Kumar, Co-Supervisor: Dr. Vishal Singh Chauhan
Title of the Thesis: Geometric Nonlinear Shape and Vibration Control of Functionally Graded Smart Structures

Modeling of antenna reflector including functional graded piezoelectric material (FGPM) actuators and sensors by using Nonlinear Finite Element Method. Modeling is validated with experimental results.



6. **Ashish Kumar**

Ph.D. Supervisors: Dr. Hari Varma and Prof. P.C. Deshmukh (IIT Madras)
Title of the Thesis: Photoionization Dynamics of Some Free and Confined Atomic Systems

Study of photoionization of free and confined atomic systems revealed the importance of non-dipole interactions at very low photon energies (~10 eV) in the case of Ca trapped in a spherical attractive well (Ca@SAW) (F**ig.1)**

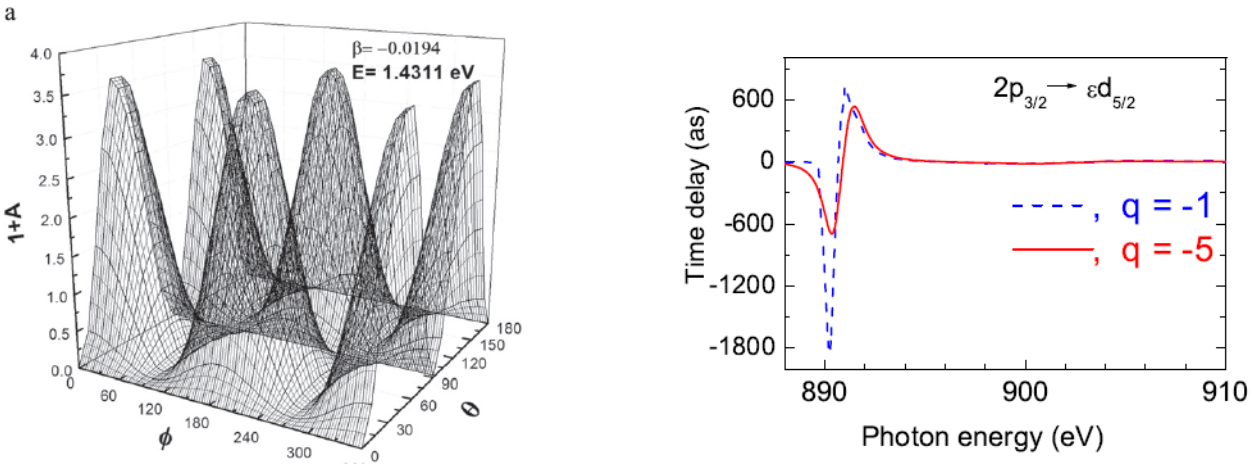
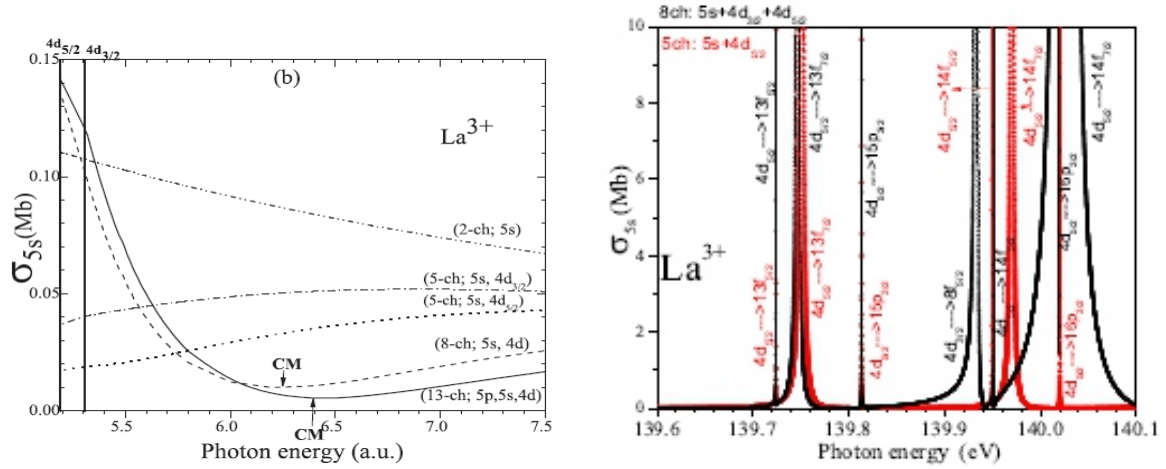


Fig 1. Deviation from dipole angular distribution due to presence of confining potential
Fig. 2: Fluctuation in time delay in 2p ionizatioon channel due to CRs in 1s

7. **Sindhu K**

Ph.D. Supervisors: Dr. Hari Varma and Prof. P.C. Deshmukh (IIT Madras)
Title of the Thesis: Photoionization Studies of Some Closed Shell Atoms and Ions

Sidhu's thesis reports the photoabsorption process of several closed shell elements including isonuclear & isoelectronic sequence. Studies across La isonuclear sequence have shown the importance of electron correlation in the form of inter-channel coupling



MS (by Research)

1. **Monisha Rastogi**

MS Thesis Supervisor: Dr. Rahul Vaish

Title of the Thesis: Ab initio Molecular dynamics and DFT calculations as a support tool and predecessor to experimental investigations of new energy materials

To predict a rational molecular dynamics scheme which could assist in predicting the phase transition behaviour in the nanocomposites which are useful as phase change materials in low to medium temperature range applications.

2. **Manish Sharma**

MS Thesis Supervisor: Dr. Rahul Vaish and Dr. Vishal Singh Chauhan

Title of the Thesis: A Study on Solar Energy Harvesting Using Pyroelectric Materials

Manish has carried out research on solar energy harvesting using pyroelectric effect. He carried out numerical investigation on potential of pyroelectric materials for solar energy conversion applications. Currently, he is a Ph.D. candidate in University of Quebec, Montreal, Canada.

3. Manoj Dhiman

MS Thesis Supervisor: Dr. Om Prakash Singh

Title of the Thesis: Salt Fingers in Two and Three Dimensions

Manoj's research was on Double Diffusive Convection (DDC) salt fingers is a buoyancy-driven flow, with density depending on two different diffusing scalar components, distributed such that faster diffusing component gravitationally stabilise the fluid and the slower one destabilise it. He explored these phenomena numerically, over a wide range of parametric space in both 2D and 3D.

4. **Abhijeet Sachdev**

MS Thesis Supervisor: Dr. A. D. Dileep

Title of the Thesis: Example-Specific Density Based Matching Kernels for Varying Length

Patterns of Speech and Images

This thesis addresses some issues in classification of varying length patterns of speech and images represented as sets of continuous valued feature vectors using kernel methods. This work mainly focused on designing a kernel that matches the two varying length patterns using their local information. A family of example-specific density based matching kernels are proposed in this work.

5. Pothula Abhinay Reddy

MS Thesis Supervisors: Dr. Anil Kumar Sao and Dr. Bharat Singh Rajpurohit

Title of the Thesis: Condition Monitoring and Fault Diagnosis of Single Phase Transformers

In this thesis, a novel method is presented for the extraction of winding parameters of a single-phase transformer. Further the interpretation of variation observed in the winding parameters is explained with reference to the possible fault occurrence.

Academic Activities

Building proper infrastructure for higher education in a remote location is always a challenge. However, we did not allow it to act as a deterrent when it came to the question of academic excellence. Currently, we have 842 students including 231 research scholars. In addition, we have several Post-Doctoral Fellows who are assisting and contributing to research. There are 516 B. Tech. students across disciplines of Computer Science, Civil, Mechanical and Electrical Engineering. Also, there are 11 students in I-PhD (Physics), 46 students in M.Sc. (Chemistry) and 38 students in M.Tech. and other PG programmes.

In 2016, IIT Mandi expanded the breadth of its academic programmes by starting four new Post Graduate programmes with the intake capacity of 12 students in each programme. These new Post Graduate programmes are

- M. Tech. in Mechanical Engineering with Specialisation in Energy Systems
- M. Tech. in Electrical Engineering with Specialisation in VLSI
- M. Tech. in Biotechnology
- M.Sc. in Applied Mathematics

Currently, there are 10 students in M.Tech. in Mechanical Engineering with Specialisation in Energy Engineering; 9 students in M.Tech. in Electrical Engineering with Specialisation in VLSI, 8 in M.Tech. in Biotechnology and 11 students in M.Sc. in Applied Mathematics.

IIT Mandi places a great emphasis towards enhancing excellence in research. The institute has a total of 925 international and national, peer reviewed journal publications up to this present academic year 2016. In this year alone, there are 239 publications till date. Nature, one of the top scientific journals in the world, tracks the affiliations of high-quality scientific articles published from every country in 68 high-quality science journals with monthly updates. As per Nature Index, IIT Mandi ranked 6th among all IITs based on total number of publications during 2015-16. Based on publications per faculty, the rank of IIT Mandi is 3rd, following IIT Bombay and IIT Kanpur. This is a remarkable achievement within this short span of seven years and it gives a glimpse of the kind of quality research carried out by young researchers and faculty members at IIT Mandi.

Achievements and Awards

- Mr. Athar Aamir Khan (Alumni IIT Mandi), an IIT Mandi alumnus, has secured second rank in the prestigious Civil Services Examination, 2015. He joined IIT Mandi in 2010 as a B.Tech. (Electrical) student and graduated in 2014.

- Satyanarayan Patel (graduating Ph.D. student) has been awarded Humboldt Research Fellowship for Postdoctoral Researchers by Alexander von Humboldt Foundation at Technische Universität Darmstadt, Germany.

- Mr. Abhilash M. (Ph.D. Research Scholar, SHSS) has been awarded the Charles Wallace India Trust research grant to visit Great Britain. He has also been awarded K.N. Raj Fellowship of the Centre for Development Studies, Thiruvananthapuram.

- Mr. Vishrut Shah (MS Student) received the Charpak Scholarship by the French Government for an exchange programme at Universite Francois Rebelais de Tours (France).

- A paper titled, "Influence of motivational factors on hackers' and analysts' decisions in dynamic security games" authored by Zahid Maqbool, C.S.V Pammi & Varun Dutt (Faculty, SCEE and SHSS) won the best student paper award at AHFE 2016.

- Dr. Shubhajit Roy Chowdhury (Faculty, SCEE) was the winner of Best Paper Award at 9th IEEE International Conference on Sensing Technology (ICST) at Auckland, New Zealand in the year 2015.

- Anil Kumar Mathur, Sandeep Kumar and Sudheer Kumar (B.Tech. Electrical- graduating batch) won the 3rd Prize in the worldwide-2016 Myron Zucker Design Contest organized by the IEEE Industrial Application Society. Their entry was based on their MTP "A Non-Intrusive Air-Gap Torque Method for Efficiency Estimation of Induction Machines", guided by Bharat Rajpurohit.

- Dr. Shubhajit Roy Chowdhury (Faculty, SCEE) has been selected for Young Neurologist Award by World Stroke Organisation and VIFA Young Faculty Award for outstanding contribution in the field of Biomedical Embedded System in the in the year 2016

- Dr. Varun Dutt (Faculty, SCEE and SHSS) has been appointed as Review Editor of Frontiers in Cognitive Science and Frontiers in Decision Neuroscience journals.

- Dr. Syed Abbas (Faculty, SBS) has been appointed as an Associate Editor of Numerical Algorithms (Springer)

- IIT Mandi has touched new heights with the highest placement ratio of 84% for the graduating B.Tech. batch. The branch-wise placement ratios are 100% (CS), 87% (EE), and 61% (ME). Apart from these, the entire pioneer batch of 9 graduating students of M.Sc.

(Chemistry), 3 graduating students of M.Tech. (Energy Materials) students and 2 graduating MS students got placed.

Unique academic curriculum at IIT Mandi

5 Week Induction Programme

A core activity in any premiere educational institution, such as IIT Mandi, is the maintenance of high standards in teaching and learning process. To facilitate it from the very beginning in a more effective manner, from this year IIT Mandi has designed a unique 5-Week Induction Program (5WIP) from the First Year B.Tech. students. IIT Mandi is the first among all IITs to carry out such an intensive induction programme primarily mentored by the faculty members.

The main objective of the induction programme was to introduce students to the new method of learning that they would experience in coming years - learning by doing, learning to learn on demand, teamwork, identifying and solving real problems of society. The programme was thoughtfully designed to equip them with the skills essential to thrive in the IIT Mandi environment. The sessions were divided under several modules: Proficiency module, which includes English and communication, Computer, Visual thinking; Exploring Engineering; Soft Skills; Human Values; Physical Activities; Creative Stream; Social Awareness; Evening activities; Distinguished Lectures & after dinner talks. The sessions conducted in small groups of 18-20 students and were interactive in nature, leading to learning by doing, with the faculty talking for less than 10% of the time and giving the change to the students to introspect, interact, discuss and debate over several problems. This led to every student making several close friends from diverse backgrounds during the very first days at IIT Mandi, every student to get to know 5-10 faculty well, and at least 1 faculty whom s/he feels comfortable approaching for any personal issue and each faculty gets to know at least 20 students very well.

Practicums and the Design & Innovation stream

The Institute's B. Tech. curriculum has a flexible structure and it has been designed to create technology- savvy leaders and product designers for the future India. Two of the innovative features of the curriculum are Practicums and the Design & Innovation stream. A Practicum is a lab-based course that precedes the corresponding theory course. It encourages self-learning by doing. The Design & Innovation Stream (DIS) exposes undergraduate students to various facets of real-world engineering activities throughout their 4 years. The graduating batch of B.Tech. students is the first batch to fully undergo this Practicum and DIS oriented curriculum which includes

1. Reverse Engineering in 1st year: Makes students understand existing products.
2. Design Practicum (DP) in 2nd year:

3. Interactive Socio-technical Practicum (ISTP) in 3rd year:
4. Major Technical Project (MTP) in 4th year

Some of the notable projects that the students of the graduating batch had undertaken are as follows:

Design Practicum (DP) in 2nd year:

The objective of Design Practicum is to help the students to introspect to the problems/needs of society from various aspects and develop a solution and build a working prototype, which is able to address on such problem by the end of the semester. The graduating batch came up with excellent innovative solutions including "Autonomous Garbage Collection Machine form Parks and Beaches", "Voice Commanded Desiccant Dehumidifier", "Automated Road Repairing System", which were recognized as the best projects.

Interactive Socio-technical Practicum (ISTP) in 3rd year:

This programme is designed to make students explore the interaction between technology and society. This course is run in collaboration with the WPI, USA with faculty and students from WPI visiting India to work jointly with IIT Mandi faculty and students on a variety of socio-technical projects. 26 students of the graduating batch of B.Tech. students participated in the ISTP in 2015. They were joined by 21 students from the Worcester Polytechnic Institute (WPI), USA under the mentorship of two of their faculties -Dr. Ingrid Shockey and Dr. Lorraine Higgins. The project titled, "Improving Agricultural Practices in Farm Lands in Mandi by Technological Intervention," by Amanda Konieczny (WPI), Sammy Neeno (WPI), Cody Slater (WPI), Prashant Kumar (IIT Mandi) and Sakshama Ghoslya (IIT Mandi) under the mentorship of Dr. Venkata Krishnan and Dr. Rajeev Kumar won the ISTP Open House Award. The project titled "Feasibility of Community-Based Businesses in Kamand Valley" by Andrej Samardzic (WPI), Brittany Mowe (WPI), Sarah Rose Gabor (WPI), Paramjit Kainth (IIT Mandi), Shreya Tangri (IIT Mandi) and Mohit Sharma (IIT Mandi) under the mentorship of Dr. Jaspreet Kaur and Dr. Priscilla Gonsalves was the runner-up.

Major Technical Project (MTP) in 4th year:

MTP is the capstone project of the B. Tech. programme, where students need to demonstrate a high degree of technical competence in their engineering discipline. Several students from the graduating batch participated in MTPs in 2015-16. Some of the noteworthy projects included

- "Financial Portfolio Optimization," by Sehaj Duggal (Mentor: Dr. Manoj Thakur)
- "Design and Implementation of Low Cost Solar PV Emulator" by Prashant Kumar, Shruti Pal and Himanshu Rathore (Mentor: Prof. Ramesh Oruganti and Dr. Bhakti Joshi)
- "CFD Analysis of Solar Updraft Tower for Power Generation" by Ankit Agarwal, Monil Chugh and Vipin Raj Meena (Mentor: Dr. Peadeep Kumar)

- **International Linkages**

IIT Mandi is a part of the international academic community and thus believes in exchange of knowledge across national boundaries. There are several opportunities for the students, research scholars and faculties to interact and collaborate. International students can pursue graduate full time degree programs at the IIT Mandi. Bachelor's, Master's and Ph.D. students affiliated to institutes in other countries can spend up-to a year at IIT Mandi under existing student exchange programme. They are eligible for academic credit transfer for their respective degree programmes. Opportunities are provided to faculty members at IIT Mandi to carry out teaching and research activities in international institutions. International students can work with the Institute's faculty on collaborative research projects involving institutional, regional, and national interests. During the past year IIT Mandi observed both visits by the international students, researchers and faculties and IIT Mandi students, researchers and faculty members visiting other institutes. It includes:

Clara Hayn, Florian Peter, and Marcel Padilla, who visited IIT Mandi under DAAD RISE program from TU Dresden, TU Stuttgart, and TU Berlin, respectively, between July, 2015 and October, 2015.

Julian Baumgartel, from TU Munich who visited IIT Mandi between February, 2016 and June, 2016 under the student-exchange program. Julian was the first international student, who took courses at IIT Mandi for academic credit.

Zipporah Wanjiku Muthui, who visited IIT Mandi from University of Nairobi, Kenya between January, 2016 and July, 2016 for her Ph.D. Muthui is pursuing her Ph.D. with a Postgraduate Training Fellowship awarded by the Organization for Women in Science for the Developing World (OWSD).

Ramona Sygulla (2nd yr. M.Sc. Civil Engg. student at ILEK, University of Stuttgart), who visited IIT Mandi under the DAAD-PROMOS scholarship scheme. Her period of stay was from 24 April to 8 August 2016.

Similar to the previous year, this year also a team of 23 undergraduate students from Worcester Polytechnic Institute (WPI), USA and two faculty mentors visited IIT Mandi between mid-March, 2016 and mid-May, 2016. They worked with a group of undergraduate students at IIT Mandi under the ISTP programme to address to several socio-economic issues concerning the local communities in Mandi and Kamand.

Among the undergraduate students at IIT Mandi, five students visited TU, Munich, Germany; two students visited RWTH Aachen, Germany; three students visited Aalto University, Finland; three students visited IT University of Copenhagen, Denmark and one student visited Blekinge Institute of Technology, Sweden. One MS student visited TUM under DAAD Scholarship from 1st September, 2015 to 31st March, 2016.

A number of IIT Mandi's faculty also visited TU9 institutions, Germany in 2015 for fostering academic collaborations with international partners. Dr. Prem Felix Siril and Dr. Rik Rani

Koner visited KIT Germany between May, 2015 and August, 2015; and, Dr. Pradeep Parameswaran visited RWTH Aachen University between November, 2015 and January, 2016.

There were a number of workshops conducted at IIT Mandi involving visitors from universities abroad. They include:

- A workshop on "Advances in Electron Spectroscopy - Experiment and Theory (AESET 2016)" was held between 18th and 21st January, 2016. As part of this workshop, a number of faculty and researchers from several institutions in Japan (University of Tokyo), France (Ecole Polytechnique and Palaiseau Cedex), Germany (IFW Dresden; University of Wuerzburg; TU Dresden; Max Planck Institute for Chemical Physics of Solids; University of Duisburg; and, University of Goettingen), and USA (Argonne National Laboratory and Brookhaven National Laboratory) had visited IIT Mandi.
- A workshop on "Applications of Smart Materials" was held on 17th July, 2015. Dr. Jens Twiefel from Leibniz, Germany and Prof. Michael Sinapius from German Aerospace Center visited IIT Mandi for this workshop.
- Prof. Balthasar Novak from TU Stuttgart visited IIT Mandi to attend the 3rd Workshop of Civil Engineering on 2nd & 3rd March, 2015. This visit was related to the development of the B. Tech. Civil Engineering curriculum at IIT Mandi.
- Delegates from Purdue Pharma L.P., a pharmaceutical company located in Stamford, Connecticut, USA, visited Indian Institute of Technology (IIT) Mandi in July, 2015. IIT Mandi has an on-going collaboration with Purdue Pharma on projects that are worth more than USD 100,000.

In March 2015 the existing MoU between BTH and IIT Mandi was renewed for the next five years.

IIT Mandi signed an MoU with McMaster University Canada in February, 2016 to collaborate and strengthen academic and research cooperation for mutual benefit for the next five years

A Group Photo of workshop on "Applications of Smart Materials" on 17th July, 2015

AESET 2016 Group,
a workshop on
"Advances in Electron
Spectroscopy - Experiment and
Theory (AESET 2016)"
18th to 21st January 2016

Sponsored Research and Industry Interactions

The number of sponsored research projects and the total money earned through such projects has significantly increased recently. Total number of projects sanctioned till date is 102 with the highest of 23 during the continuing financial year. In the first half of the current financial year alone IIT Mandi has received sanction orders for around 25 projects totalling more than Rs. 11 Crores. This is more than the funds we received in any of the previous financial years. A significant portion of this funding is for application oriented research for the Industry. Two such projects have been sanctioned under the newly introduced Utchathar Avishkar Yojana (UAY). Rs. 239 Lakhs has been sanctioned towards the project “Development of indigenous photo-resist technology for semiconductor industries: Impact on Indian economy, skilled manpower development and employment possibility”, led by Dr. Subrata Ghosh and Prof. Ken Gonsalves. This project is co-funded by Semi-Conductor Laboratory, Mohali. The other project Design of advanced bi-data analytics in the Cyg-Net networks management system for telecom networks is worth Rs. 140 Lakhs is led by Dr. Dileep A.D. with M/s NMSWorks as the industrial partner.

Three major projects involving faculties across the differnt schools at IIT Mandi and other institutes have been approved by IMPRINT scheme. Project (woth of Rs.76 lakhs) entitled "A microfluidic based point of care testing device for measuring urine albumin using a novel organic dye" led by Dr. Shubhajit Roy Chowdhury, SCEE, Dr. Subrata Ghosh(SBS) and Dr. Prosenjit Modal (SBS). Project(Rs.263 lakhs) titiled "Experimentally validated numerical modelling of thedamage induced due to aerodynamic shear and high temperature on the re-entry vehicle nosecone" led by Prof. Puneet Mahajan (IIT Delhi), Dr. Balaji (IIT Delhi), Dr. Rajneesh Sharma (IIT Mandi) and Dr. Atul Bhagat (ASL DRDO). Project (worth of Rs. 380 lakhs) titled "Sustainable waste water treatment through bio-photoelectro catalysis and biofuel production" led by Dr Atul Dhar (SE) Dr. Rahul Vaish (SE), Dr. Satvasheel Powar (SE), Dr. Rik Rani Koner(SE), Dr. Shyam K Masakalpalli (SBS), Dr. Tulika Prakash Srivatava (SBS), Dr. Aditi Halder (SBS) and Dr. S. Venkata Mohan of CSIR- Indian Institute of Chemical Technology.

In January 2016, Indian Institute of Technology Mandi, was selected as one of 18 sites across the country for setting up Technology Business Incubators (TBIs) under the Government's 'Start-Up India' initiative. The TBI, "IIT Mandi Catalyst", was launched by Prof. Ashok Jhunjhunwala on 15th May 2016 during a well-attended Industry conclave that was organized in partnership with CII northern chapter. It is a section 8 company that has been set up to foster Research and Development (R&D) and entrepreneurship to spawn knowledge-intensive initiatives that would develop innovations useful to the society as a whole. It will serve as a catalyst to nurture and guide entrepreneurial initiatives with social and/or commercial objectives by IIT Mandi students, faculty, and staff. The incubator has already received funds worth 847 lakhs from various sources, mainly from DST. A number of proposals have already been received for incubation from faculty, students and alumnae that are being vetted.

Campus Development

IIT Mandi is the first among new IITs to develop and use its main campus. The move to the South campus in Kamand, which began in July-September 2012 has steadily gained momentum and by April 2015, the shifting of all the B.Tech. students to the permanent campus in Kamand has been completed. Now all the major activities of IIT Mandi are being carried out from Kamand Campus.IIT Mandi is now home to a buzzing community of students, academicians and staff-currently, all of the undergraduate students, the Director and most of the faculty members reside in the main campus.

IIT Mandi's campus is developing fast as an eco-friendly and sustainable infrastructure campus with the state-of-the-art facilities. The total area of IIT Mandi is 538 acres of which about 200 acres is flat-land while the rest is mountainous. Work was entrusted to CPWD and NBCC who have so far constructed 5 academic blocks, 10 hostels, 2 dining hall, which are functional in South campus. Further, 2 new 3BHK and 2 new 2BHK faculty blocks are recently added to the pool of existing 3 2BHK blocks and the studio apartments. In the North campus work of faculty housing (138 flats), student hostels (accommodating 1450 students) and two dining blocks are in progress. The Campus school is functional in the North Campus in its newly constructed building. A Faculty and Staff community center and staff housing is also in nearly completed. The master plan for the complete development of the campus is ready. This intends to cater for 5000 students, 600 faculty and associated staff.

Some of the important facilities that are under operation are as follows:

- School & Day Care for Children: IIT-Takshila Campus school (currently up to 5th standard, the school continues to expand), Day care facility for the children of students, faculty and staff, play area.
- Sports: Basketball, Cricket, Volleyball, Soccer, Hockey, Badminton, Table Tennis and Cycling are few sports being practiced in the main campus. Activities like Hiking and Trekking are encouraged under guidance.
- The Green Office of IIT Mandi was established on 31st October, 2014. The Green Panel of IIT Mandi is chaired by Prof. Timothy. A. Gonsalves (Director, IIT Mandi) and has 10 members (both external and internal), with an executive Green Coordinator.

Extracurricular Activities:

IIT Mandi thrives to provide an environment conducive to physical and mental health of the students. Several extra-curricular activities are carried out as an integral component of the campus life. A few notable events are

- **Rann-Neeti :** For the first time at IIT Mandi's permanent campus, Rann-Neeti, the annual sports festival was held during 23rd to 25th Sept., 2016. 11 Teams from JUIT Wakhnaghat, Chitkara Baddi, Chitkara Rajpura, APG Shimla, Abhilashi, Govt. Poly College Sundernagar, NIFT Kangra, NIT Jalandhar took part in the sports fest. 450 athletes showcased their talents in various games like Chess, Basketball, Volleyball, Cricket, Football, Badminton and Table Tennis. IIT Mandi was the runner up.
- **Exodia, the annual tech-cult fest of IIT Mandi**: This year Exodia witnessed teams from NIT Kurukshetra , PEC , HPU , Baddi and many more. About 50+ events were organized at Exodia by the team headed by Mohit Sharma.
- **Exuberance:** Intra College Cultural festival: This time Exuberance witnessed Inter Year competitions in field of Music, Art, and Dance. General Championship was won by the graduating batch.
- **Avishkar and Utkarsh:** The Science and Technology Council organized these two events. Different events were organized over the weekend and all students took part actively. Infact, Utkarsh 2016 was the first inter-house technical event of IIT Mandi that was held in November, 2015. Events from all technical disciplines were included, including robotics, programming, electronic, and also a mechanical design contest in the form of junkyard wars.
- **VIBGYOR**: It was a three day open to all art festival organised by Art Geeks. It included activities such as Painting, Sketching, Doodling (online event),Paper Craft, Origami, Bug making on round stones etc. The event was greatly appreciated by a heavy participation crossing the numbers by 100 Plus people with more than 85 art piece.
- **4th Inter IIT Tech Meet:** The 4th Inter IIT Tech meet took place at IIT Mandi during 29th - 31st January, 2016. Participants from 9 different IITs came together during the event.
- **ANUSANDHAN'16:** The Research Fair: The 3rd Research Fair -2016 “ANUSANDHAN'16” was held at Kamand campus on 27th February, 2016. IIT Mandi research scholars were participated and presented their research work to a live audience

Raan-Neeti, 2016

Exodia, 2016

Utkarsh, 2015

There are several noteworthy achievements by the students of the graduating batch in various fields. Sohil was the Quarter finalist at the IIT Bombay event Full Throttle when he was in First year, Nikhil Garg was the winner of ilver Medal at Inter IIT Tech Meet 2016 event, Sandesh Kumar Singh IIT represented IIT Mandi in final round Build the Shield Hacking Competition organized by Microsoft in 2015, Rishikesh Barve was the in the forth position all over India in Xerox Research Innovation Challenge and Winter School on Machine Learning 2015,

Conclusion

Eventually all good things must come to an end but graduation is also another beginning for the next experiences in your life. You graduates are now embarking on a new phase in your lives. In the years ahead, when you look back you will cherish moments that you have passed at IIT Mandi, the friendships you have made, and the wise words and helping hands of your teachers and mentors. Life has all sorts of hills and valleys; the time you spent at IIT Mandi surely prepared you to tackle not just the smooth roads ahead but also for taking the real life challenges. The success of IIT Mandi is not the mountainous location, not the buildings and not the tireless effort we all put in, it is the graduating students who will be the brand ambassadors of the institute. We count on you to make us proud. You are going forth into the world to make your mark, and I hope to serve your fellow humans, especially those less advantaged than you. Your successes, as an engineer as well as a human being, in the future will bring satisfaction to you and enhance the prestige of your alma mater. May the world full of problems yet to be solved welcome you with open arms and I wish you all the best on this 4th Convocation.

SCHOOLS

Currently, IIT Mandi has four schools. The institute encourages multi- and inter- disciplinary research for a balanced growth of its students and scholars. Hence, the labs and other resources of the schools are mixed and shared with each other. Subject specialist faculties are proactively dedicated to improve the schools continuously. IIT Mandi has national and international linkages and practices collaborations with leading and developing institutes ad industries.

School of Computing and Electrical Engineering

This School brings together faculty involved in the key technologies of the Information Age. These include computer science, communication, VLSI and microelectronics, and electrical energy. The underlying fundamental principles are information theory, theory of computation, communication theory, quantum mechanics and the laws of electromagnetism.

Faculty members and their specialisation

Dr. Anil K. Sao (Chairperson; Associate Professor; Image processing)

Dr. Samar Agnihotri (Assistant Professor; Information Theory, Wireless Communications)

Dr. Ankush Bag (Assistant Professor; Semiconductor Devices, Epitaxy and Compound Semiconductors)

Dr. Arnav Bhavsar (Assistant Professor; Image analysis, Computer vision)

Prof. B. D. Chaudhary (Emeritus Professor; Software Technology)

Dr. Dileep A. D. (Assistant Professor; Pattern Recognition, Kernel Methods for Pattern Analysis, Machine Learning, Speech Technology, Computer Vision)

Dr. Subashish Datta (Assistant Professor; Control Theory)

Prof. Yvonne Dittrich (Adjunct Professor; Software Development and Software Engineering)

Dr. Varun Dutt (Assistant Professor (Joint Appointment); Artificial Intelligence, Human-Computer Interaction, Judgment and Decision)

Dr. Kunal Ghosh (Assistant Professor; Solar Photovoltaics)

Prof. Timothy A Gonsalves (Professor; Computer networks and distributed software systems)

Dr. Tushar Jain (Assistant Professor; Control theory, fault tolerant control, industrial process control)

Dr. Bhakti Madhav Joshi (Assistant Professor; Ac drives and control)

Dr. Arti Kashyap (Associate Professor (Joint Appointment); Magnetism and magnetic materials)

Dr. Sriram Kailasam (Assistant Professor; Distributed Systems (Cloud Computing))

Dr. Astrid Kiehn (Visiting Associate Professor; Distributed Algorithms, Verification, Theoretical Computer Science)

Dr. Aditya Nigam (Assistant Professor; Biometrics, Computer Vision, Image Processing)

Dr. Ramesh Oruganti (Emeritus Professor; Power Electronics, Solar photovoltaic energy systems)

Dr. Maben Rabi (Assistant Professor; Control systems)

Dr. Padmanabhan Rajan (Assistant Professor; Speech processing, speaker recognition)

Dr. Bharat Singh Rajpurohit (Associate Professor; Power Electronics Application to Power Systems)

Dr. Renu M. Rameshan (Assistant Professor; Image Processing)

Dr. Shubhajit Roy Chowdhury (Assistant Professor; Biomedical Embedded Systems, Non invasive diagnostic systems, Near Infrared Spectroscopy, VLSI Architectures)

Dr. Satinder Kumar Sharma (Associate Professor; Nanoelectronics,Sensors,Photovoltaic & self assembly)

Dr. Hitesh Shrimali (Assistant Professor; Analog and Mixed signal VLSI design, analog-to-digital converters and design of radiation hard circuits (space application))

Dr. Satyajit Thakor (Assistant Professor; Communication Theory, Information Theory, Network Coding)

Dr. Narsa Reddy Tummuru (Assistant Professor; Hybrid Energy Storage Applications in Future Microgrids, Efficient Power Electronic Interfaces in Renewable Energy Applications and Smartgrid Communication Networks)

School of Basic Sciences

This School includes Mathematics, Physics, Chemistry and Life-Sciences. While some faculty may work in pure research, others work on applied research in collaboration with colleagues in the Engineering Schools.

Faculty members and their specialisation

Dr. Prasanth P. Jose (Chairperson; Assistant Professor; Soft Condensed Matter Physics)

Dr. Subrata Ghosh (Associate Professor; Organic Chemistry)

Dr. Syed Abbas (Assistant Professor; Differential Equations and Ecological Modelling)

Dr. Sarita Azad (Assistant Professor; Statistical Time Series Analysis)

Dr. A. Chakraborty (Associate Professor; Theoretical Chemistry)

Prof. P. C. Deshmukh (Adjunct Professor; Atomic and Molecular Physics)

Dr. Abhimanew Dhir (DST INSPIRE Faculty Fellow; Supramolecular Chemistry)

Dr. Neha Garg (DST INSPIRE Faculty Fellow; Cancer Biology, Stem Cells)

Dr. Rajanish Giri (Assistant Professor; Biophysics and Protein Folding, Intrinsically Disordered Proteins, Chimeric Antigen Receptor based Cancer Immunotherapy, Protein Engineering

Prof. Kenneth Gonsalves (Visiting Distinguished Professor; Materials Synthesis)

Dr. Aditi Halder (Assistant Professor; Design and Development of New Functional Nanomaterials for the Application of Renewable Energy, Nano-Electronics and Sensors)

Dr. Amit Jaiswal (Assistant Professor; Nano-Biotechnology)

Dr. Arti Kashyap (Associate Professor; Magnetism and Magnetic Materials)

Dr. Venkata Krishnan (Assistant Professor; Materials Chemistry, X-ray Science)

Dr. Pradeep Kumar (Visiting Assistant Professor; Raman and Infrared Spectroscopy)

Dr. Nitu Kumari (Assistant Professor; Applied Mathematics)

Dr. Shyam Kumar Masakapalli (Assistant Professor; Metabolic Systems Biology - Fluxomics and Metabolomics, Plant and Microbial Metabolism, NMR and GC- MS)

Dr. Prosenjit Mondal (Assistant Professor; Molecular Endocrinology and Metabolism)

Dr. Kaustav Mukherjee (Assistant Professor; Experimental Condensed Matter Physics)

Dr. Chayan K. Nandi (Associate Professor; Physical Chemistry)

Dr. Suman Kalyan Pal (Associate Professor; Fast and Ultrafast Laser Spectroscopy)

Dr. Pradeep Parameswaran (Associate Professor; Inorganic, Materials, Nano-Chemistry)

Dr. Pradyumna Kumar Pathak (Assistant Professor; Quantum Optics, Quantum Information, and Nanophotonics)

Dr. Amit Prasad (Assistant Professor; Immunology/Microbiology)

Dr. Bindu Radhamany (Assistant Professor; X-ray Spectroscopy)

Dr. Rajendra K. Ray (Assistant Professor; Computational Fluid Dynamics, Numerical Methods for PDEs)

Dr. Prem Felix Siril (Associate Professor; Chemistry of Nanomaterials)

Dr. Ajay Soni (Assistant Professor; Nanomaterials and Experimental Condense Matter Physics)

Dr. Tulika Prakash Srivastava (Assistant Professor; Bioinformatics, Systems Biology, Metagenomics, Comparative Genomics, Protein Function, and Structural Analysis)

Dr. Manoj Thakur (Assistant Professor; Optimization, Soft Computing, Machine Learning with applications to Computational Finance, Protein Function and Structural Analysis)

Dr. Muslim Malik (Assistant Professor; Differential Equations)

Dr. Hari Varma (Assistant Professor; Atomic and Molecular Physics)

Dr. C. S. Yadav (Assistant Professor; Low Temperature Physics)

School of Engineering

This School covers tangible physical structures and artifacts such as transport vehicles, transport systems, machines, materials, manufacturing, designs etc. The underlying principles are classical mechanics, atomic physics, and thermodynamics. Many faculties from the traditional departments of Mechanical, Civil, Aerospace, and Metallurgy Engineering are a part of this School.

Faculty members and their specialisation

Dr. Rajeev Kumar (Chairperson; Associate Professor; Solid Mechanics, Vibration, FEM, Optimization)

Dr. Rahul Vaish (Associate Professor; Glasses & Glass-ceramics)

Dr. Viswanath Balakrishnan (Assistant Professor; Growth of Functional Materials/Thin Films, Electron Microscopy & in-situ Exploration of structure-property Relationships)

Prof. Satish Chandra Jain (Adjunct Professor; Mechanical Engineering, Machine Design, Tribology, Vibration and Noise, Computer Aided Design)

Dr. Vishal Singh Chauhan (Assistant Professor; Design Engineering, Electromagnetic Radiation during Deformation of metals and alloys, Solid Mechanics, FEM)

Dr. Atul Dhar (Assistant Professor; Alternative Fuels & Emission Control)

Dr. Rajesh Ghosh (Assistant Professor; Solid Mechanics, Biomechanics, Finite Element Analysis)

Dr. Arpan Gupta (Assistant Professor; Acoustics, Vibration, Bio-mechanics, Computational methods - FEM, CFD, Lattice Boltzmann Method)

Dr. Dhiraj V. Patil (Assistant Professor; Lattice-Boltzmann Method, Multi-physics, Multiphase Flows and Complex Fluids Rheology)

Dr. Satvasheel Powar (Assistant Professor; Dye-sensitized Solar Cells, Perovskite Solar Cells)

Dr. Venkata Uday Kala (Assistant Professor; Geotechnical Engineering)

Dr. P. Anil Kishan (Assistant Professor; Computational Fluid Dynamics)

Dr. Pradeep Kumar (Assistant Professor; Fluid and Thermal Science)

Dr. Sudhir Kumar Pandey (Assistant Professor; Condensed Matter Physics & Material Science)

Dr. Jaspreet Kaur Randhawa (Assistant Professor; Nanomaterials)

Dr. Kaustav Sarkar (Assistant Professor; Durability Design of Concrete, Sustainable Concrete Production, Finite-Element Analysis, Soft-computing)

Dr. Rajneesh Sharma (Assistant Professor; Image based Finite element Methods, Cohesive Zone Modeling, Insitu Characterization of Fracture Process, Homogenization and Multiscale Modeling, Analysis and Design of Composites under Extreme Loading Environments)

Prof. Subrata Ray (Distinguished Visiting Professor; Physical Metallurgy, Composites and Tribology)

Dr. Dericks Praise Shukla (Assistant Professor; Remote Sensing & GIS, Hydro-geo-chemistry, Water contamination mostly as and other Heavy metals, Natural Hazards Assessment and Mapping)

Dr. Deepak Swami (Assistant Professor; Groundwater Flow and Transport Modelling, Water Resources Development and Management, Disaster Mitigation specially related to Floods and Flash flood)

Dr. Mohammad Talha (Assistant Professor; Solid Mechanics, Composite Structures, Functionally Graded Materials, Structural Mechanics, Uncertainty Quantification and Imperfection Sensitivity in Composites)

Dr. Rik Rani Koner (Assistant Professor; Hybrid Material)

Dr. Himanshu Pathak (Assistant Professor; Extended Finite Element Method, Meshfree Methods, Fracture Mechanics and Functionally Graded Materials)

Dr. Sunny Zafar (Assistant Professor; Microwave Material Processing, Surface Engineering, Experimental Tribology and Advanced Welding and Manufacturing Processes)

School of Humanities and Social Sciences

Modern engineers work in teams to create, improve and apply technology for the good of society. A good understanding of language, culture, sociology, economics, management, ecology, etc. is essential for the well- rounded engineer and development of technologies, products and processes that will see widespread use. This School is thus an important part of IIT Mandi.

Faculty members and their specialisation

Dr. Rajeshwari Dutt (Chairperson; Assistant Professor; Latin America, Social and Cultural History, Indigenous studies)

Dr. Ashok Kumar M (Assistant Professor; Sociology of Religion, Caste and Christianity in India)

Dr. Aruna Bommareddi (Assistant Professor; Comparative Literature, Indian Literatures in English)

Dr. Shyamasree Dasgupta (Assistant Professor; Energy and Environmental Economics, Economics of Climate Change, Applied Econometrics)

Dr. Manu V. Devadevan (Assistant Professor; Literary practices in South Asia, Political and economic processes in premodern South Asia & South Asian Epigraphy)

Prof. Bhavender Paul (Adjunct Professor; Management Strategy, Managerial Finance, Biotechnology & Pharmaceutical Technology)

Dr. Varun Dutt (Assistant Professor (Joint Appointment); Judgment and Decision Making, Environmental Decision Making, Artificial Intelligence, Human-Computer Interaction)

Dr. Ramna (Visiting Assistant Professor; Development Economics)

Dr. Devika Sethi (Assistant Professor; Modern Indian History, Colonialism and Decolonization, Free Speech and Censorship)

Dr. Puran Singh (Assistant Professor; Corporate Finance, Microfinance)

Dr. Shail Shankar (Assistant Professor; Identity and Group Dynamics, Health and Well Being)

Dr. Tripti Singh (Digital Media Fellow; Indian Digital Arts, Visualisation, New Media Arts and Visual Content Development)

Dr. Balasundaram Subramanian (Visiting Professor; German Studies and Political Philosophy)

Dr. Suman Sigroha (Assistant Professor; Colonialism, Postcolonialism, Imperialism, and Romance Literature)

Dr. Surya Prakash Upadhyay (Assistant Professor; Sociology of Religion, Urban Sociology, Post-Reform India) Economic Processes in Pre-modern South Asia & South Asian Epigraphy)

Prof. Pramod Talgeri (Visiting Professor; Philosophy of Hegel and Critique of Modernity and Contemporary Western Philosophy, Modern German Literature, Comparative Literature)

Medals and Prizes

PRESIDENT OF INDIA GOLD MEDAL

Mr. Rohit Patiyal

(B12015)

Computer Science and Engineering

DIRECTOR'S GOLD MEDAL

Mr. Prateek Gauba

(B12108)

Mechanical Engineering

INSTITUTE SILVER MEDALS

Mr. Rohit Patiyal

(B12015)

Computer Science and Engineering

Mr. Amaldi Amogh Gautam

(B12102)

Mechanical Engineering

BALASUNDRAM ENDOWMENT PRIZE FOR GERMAN

Mr. Mohit Bhatia

(B12119)

Mechanical Engineering

OUTSTANDING ACADEMIC ACHIEVEMENT AWARD

Mr. Arpit Bharadwaj

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M.Sc (Chemistry

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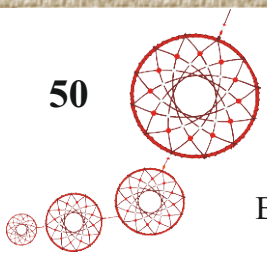

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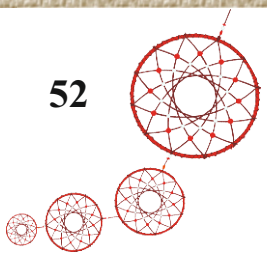

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Doctor of Philosophy

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D12076	Satyanarayan Patel

CONVOCATION DRESS

The tradition of wearing a specific convocation dress has been adopted world-wide for the graduating class. The attire used on this occasion has specific values attached to it. IIT Mandi convocation dress, especially designed by NIFT, Kangra, is a simple but elegant cape, which can be conveniently worn over any other normal dress. The colours of the capes are inspired by those present in IIT Mandi logo. To give the dress a special flavour of local tradition, IIT Mandi has designed a special pattern inspired by Himachali traditional dresses. This pattern is used as a border on the convocation cape. Finally, the cape carries the IIT Mandi logo embroidered on it. A special brooch has been designed which is worn with the cape to give it a professional appearance

IIT MANDI GRADUATES' PLEDGE

We, the graduates and post-graduates of the Indian Institute of Technology Mandi, hereby pledge That we will be scrupulously honest in all our activities and act with integrity at all times to uphold the honour and dignity of our profession and of our Institute; That we will actively protect and promote the well-being of our environment; That we will uphold and promote the unity and secular ideals of our country; That we will utilize our knowledge in the service of our country in its march towards a just, inclusive, and sustainable society.

For the 4th Convocation **Mr. Abhishek Chaudhary** has been chosen by the Director (IIT Mandi), to lead the Graduate's Pledge .

VALEDICTORIAN'S ADDRESS

Respected Chief Guest, Prof. Joachim Holtz, Guest of Honour, Shri M. Natarajan, Director of our institute IIT Mandi, Prof. T. A. Gonsalves, Chairman Board of Governors, members of Board of Governors, and the members of the Senate of the Institute, distinguished guests, the graduating students and their family members, faculty and staff members - it gives me a great pleasure to extend a very warm welcome to you all on the occasion of the Fourth Convocation Ceremony of the Indian Institute of Technology Mandi.

When I was told to prepare a speech as the valedictorian, no words came to me at all. All I could comprehend was a fur ball of events, emotions, people and times. It was impossible to pick and choose the moments to speak about and to pick out each and every hair from this would take me another 4 years. I obviously don't plan on forcing you listen for that long. Nevertheless, do bear with me.

Standing here, in the presence of my fellow batch-mates, parents, it takes me back to the orientation day, the very first day at IIT Mandi. I can distinctly recall myself giving one of the fresher's speeches on the stage. And now, that I am here addressing the batch for one last time, it feels like we are back to the same place, but as completely different people. We have come a long way in the last 4 years; right from being clueless students to clueless Professionals, clueless Engineers, clueless Educators and in some cases clueless students again. Mind you, I use the word clueless in an entirely different sense. Being clueless is one of the greatest assets of any IIT Mandi student. As a new university, we didn't have any set systems, traditions or such things. Whilst doing anything for the first time, we have definitely been clueless at some point or the other. And it is exactly THAT feeling, which has driven us to ideate, experiment and improve. We have had the opportunity to pave the first path. Be it having to set up a fest at Kamand Campus, starting a new club and having setting up the quiz-endsem distribution for a course. And obviously when we went wrong, we also got an opportunity to break it and redesign.

No matter how whacky any idea would sound, it has not shied us away from believing in it and working on it. The best example for me is my transfer from electrical to mechanical. Being clueless has made us bolder and confident while trying things and wiser along time. I can proudly say that IIT Mandi has taught me how to handle being clueless. It has taught us how to venture into unknown realms and create opportunities for oneself not having to care about any rule of thumb or standard, but

at most times create one ourselves. This is an ideology that I will be taking back from my four years at the college.

We all have at some point gotten apprehensive about our decision to come to IIT Mandi. But today, I will not be talking about that. I will instead, talk about how I was NOT apprehensive about coming to IIT Mandi. Everyone will tell you about their fears about IIT Mandi being in a remote location and away from all the major cities and resources and commodities like McDonalds, multiplexes and what not. But that was not the only thought that crossed my mind. I happened to visit Himachal one month before IITJEE results. I did ponder upon the novel idea of being in an institution that with such serenity and peace in one of the most exotic landscapes of India. I imagined how I would get the two most ultimate resources for any student: time and freedom. When the time had come when I had to pick, I didn't think twice before putting IIT Mandi as my preference. And it is one of the best decisions I've taken yet.

As one of the last points, I would like to thank the people of Kamand and Mandi, for their immense support and toleration. I can imagine how difficult it would have been for them to suddenly one day wake up to see a huge institution with more students than their own population coming up right in their backyard. They invited us with open arms and at the same time we helped them out with our strengths namely education and technology. I would definitely urge everyone to take away this attitude to wherever you go in the future and act accordingly. We are now going to be global citizens and our lives inadvertently do affect a lakh others as well. We need to do our part to give back to the society and that too not just for free Coldplay tickets.

In IIT Mandi we did things, some that we wish we had never done, some that we wish we could replay a million times in our heads. But standing here, I have no regrets. They all make us who we are, and in the end they shape every detail about us. If we were to reverse any of them, we wouldn't be the person we are. So just live. Make mistakes. Have wonderful memories, but do not second guess who you are and where you have been and most importantly where you are going.

GARIMELLA HARIKA
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Mr. M. Shakeel	Chair
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Dr. Ajay Soni	Chair
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Dr. Prem Felix Siril	Chair
Dr. Viswanath Balakrishnan	Chair
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Dr. Rahul Vaish	Team Leader
Dr. Devika Sethi	Team Leader
Col. Devang Naik	Team Leader
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Dr. Aditi Halder	Member
Dr. Rajnish Giri	Member
Dr. Ramna Thakur	Member
Mr. Parminder Jit Singh	Member
Mr. Anuj Dubey	Member
Dr. Prosenjit Mondal	Member
Dr. Sriram Kailasam	Member
Mr. Pavin Samuel	Member

Mr. Rakesh Bhatt	Member
Mr. Ashok Pathania	Member
Dr. Amit Prasad	Member
Dr. Shyam M.	Member
Dr. Jaspreet Kaur Randhwa	Member
Dr. C. S. Yadav	Member
Dr. Kunal Ghosh	Member
Dr. Tushar Jain	Member
Mr. C. L. Sharma	Member
Ms. Chandan Sharma	Member
Dr. Manu Devadevan	Member
Dr. Rajeswari Dutt	Member
Dr. Kunal Ghosh	Member
Dr. N. S. Bhandari	Member
Dr. Kushi Ram Bhagat	Member
Mr. Sushil Kumar Pal	Member
Mr. Prakash Negi	Member
Dr. Arpan Gupta	Member
Dr. Shail Shankar	Member
Dr. Muslim Malik	Member
Dr. Hitesh Srimali	Member
Mr. Akshay Kapoor	Member
Dr. Subashish Datta	Member
Dr. Shubhajit Roy Chowdhury	Member
Dr. Renu Rameshan	Member
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Mr. Kuldeep	Member
Mr. Hitender Kumar	Member
Dr. Kaustav Sarkar	Member
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Mr. Suresh Rohilla	Member
Er. Neeraj Chouhan	Member
Er. Deendayal	Member
Dr. Uday Kala V.	Member
Er. Hemant Behl	Member
Mr. J. R. Sharma	Member
Er. Chirag Vaidya	Member
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Dr. Aditya Nigam	Member
Dr. Rajesh Ghosh	Member
Dr. Dhiraj V. Patil	Member
Dr. Sudhir Kumar Pandey	Member
Mr. Parminder Jit Singh	Member
Mr. Ramesh Kumar	Member
Dr. Tripti Singh	Member
Dr. Puran Singh	Member
Mr. Chaman Lal	Member
Mr. B. R. Thakur	Member
Dr. Shyamasree Dasgupta	Member
Dr. Aruna Bommareddi	Member
Ms. Monika Pathak	Member
Ms. Susmeeta Pattanayak	Member
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Mr. Ashok Thakur	Member
Mr. Sunil	Member
Mr. Sudhir Kumar Gurang	Member
Dr. Hari Verma	Member
Dr. Neha Sood	Member
Ms. Dimple Saini	Member
Mr. Vijay Kumar	Member