MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

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Diksuchi

Bi-Annual Newsletter

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Department of Civil Engineering

Manipal Institute of Technology

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Message from HoD

Dr. Purushotham G. Sarvade
Professor & Head

I am highly elated that the Department of Civil Engineering is launching the maiden volume (Issue 1 & 2) of its much awaited newsletter in September 2021.

I congratulate the editorial team for their commendable efforts in compiling and presenting this issue!

This semester, we witnessed the change of guard at the Institute Leadership level. After heading the Institute successfully for over three years, Dr. D. Srikanth Rao demitted office in the month of July. Earlier in June, Dr. B.H.V. Pai completed his tenure as the Joint Director after serving in that position for close to six years. On behalf of the department I congratulate them both for their successful tenures in leading this institute to great heights.

I also extend a warm welcome to Cdr. Dr. Anil Rana to our institute as the new Director, and Dr. Somashekhara Bhat as the Joint Director.

We also had two highly accomplished senior faculty of our department, Dr. Udaya Shankar H.N., Professor and Mr. V. Srinivasa Raghavan, Associate Professor retire from their service after serving in this institute for over 35 years. I wish them good health and a prosperous life ahead.

Times have significantly changed since the onset of the pandemic, so much so that planning any activity ahead of even a week's time is quite challenging. However, the department is fully prepared to welcome students back to the Institute with all precautions being taken, and we are hopeful that the trademark MIT vibrancy would soon return to the campus. While efforts are being made both at institution and government levels to promote vaccination drives and curb cases, we all must show perseverance, observe COVID Appropriate Behaviour and stay strong.

As the Head of the Department, I wish the very best to all the students, faculty and staff.

Happy Reading!

Inside this Issue

Faculty Corner

Farewell to
Dr. Udaya Shankar H. N. and Mr. V. Srinivasa Raghavan

Dr. USHN (Professor) and Mr. VSR (Associate Professor), Faculty from the Department of Civil Engineering retired from the service in May 2021. It was indeed an emotional moment to bid farewell to two of our stalwarts, Dr. Udaya Shankar H.N. and Mr. V. Srinivasa Raghavan.

We wish them all the good health, happiness and prosperity.

Dr. Udaya Shankar has shouldered various administrative responsibilities during his 37 year-long fruitful service at the institute and University.

Most notable positions held by Dr. Udaya Shankar at the University are **Registrar Evaluation** - (2009-2012), **Director-Admissions**, (2006–2009), **Deputy Registrar-Technical** (2001-2006), and **Deputy Controller of Examinations** (2001-2006).

He has published more than **60 Research Papers** in proceedings of seminar / conferences/ journals related to Climate change, Environmental studies, Ground water studies, Water quality, River system studies, Remote sensing and Geomorphology, Remote sensing and GIS applications.

Dr. Udaya Shankar H. N.
Professor

Mr. V. Srinivasa Raghavan has served the department and institute for 35 years. He is known for his teaching skills and he's always been a favorite among students. Known for his dedication and passion for teaching, he has been the inspiration for many aspiring teachers. As a recognition to his commitment and excellence in teaching, Mr. Raghavan was conferred "**The best teacher**" by the institute in the year 2013. He is also a popular singer among his colleagues.

Mr. V. Srinivasa Raghavan
Associate Professor

Notable mentions

Dr. B. H. V. Pai

Professor & Former Joint Director

We welcome Dr. B.H.V. Pai back to the department after successfully completing nearly six years tenure as the Joint Director of the institute. Dr. Pai has guided the institute during the pandemic and facilitated in various reforms which the institute underwent.

Dr. Narayana Shenoy K.

Professor & Former Associate Director - SW

I am happy to chronicle the journey during my tenure as the Associate Director (Student Welfare), at the Institute, between Feb 2016 to Jan 2021.The journey in such a responsible position began with improving the student-faculty connect by introducing a modified teacher-guardian scheme that helped the students to open up their views and grievances about personal and academic related issues to the assigned teachers. This process was put in place to identify and help students who were facing difficulties in coping with not only academics, but also understand the issues of students and their parents at personal levels and take right decisions.

While at the beginning, I felt that taking up such a task was a huge call, things started to settle down as the number of detentions due to attendance and such related issues started declining. Even though self-motivation is the key to strive for better every time, I felt, rewarding the students for their excellence in academics gives an additional boost of motivation. An initiative was taken by our office to reward the best performing students in academics regularly. I believe that this move not only helped the student awardees to aim higher, but also it inspired the fellow students to perform better.

Apart from these novel aspects, it was indeed memorable to witness the enthusiasm and zeal in the students to participate in the annual extra-curriculars like the Techtatva and Revels. The constant and never-ending support I received from my colleagues during the tenure as administrator and as an individual is quite remarkable. It has always inspired me to be a continuous learner and a team player that I have always been.

Apart from being an able administrator, Dr. Shenoy is also keen towards community service. A geologist by profession, he has conducted various state and local level training and awareness camps related to water conservation. One of the most notable initiations to his service is towards revamping rivers and the environment at large, by a mass program at community level called the "SWARNARADHANA" which aims to conserve the River SWARNA, a local source of drinking water. As a recognition of his services and outreach, Dr. Shenoy was appointed as a member of the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Projects by the Ministry of Environment, Forest and Climate Change, Government of India.

Dr. Shenoy is an accomplished writer too, and he recently published a book "DHYEYAJEEVI SAAMRAT".

We wish him all the very best in all his endeavors.

Fresh face of the department

Dr. Aditya Udayraj Joshi hails from Gujarat and has Structural Geology, Micro-tectonics, Igneous and Metamorphic Petrology as his areas of expertise. Dr. Joshi obtained his Ph.D. from The Maharaja Sayajirao University of Baroda, for the thesis titled "Structural Evolution of Pre-Cambrian rocks of Champaner Group, Gujarat, Western India". He has extensively studied the poly-phase deformational history of the Champaner Group, Aravalli SuperGroup, exposed in Eastern Gujarat as a part of his doctoral work. His professional experience is an amalgamation of field experience and vast knowledge in the domain of structural geology.

Dr. Joshi has to his credits various publications in reputed journals, as an editor for book chapters he has also authored books in his area of expertise in Springer, and is recipient of many awards and recognition.

We welcome him to the department and wish him all the very best for his future endeavors.

Dr. Aditya U. Joshi
Assistant Professor

Research Bulletin

Dr. K. Balakrishna
Professor

Dr. K Balakrishna, Professor of Geology is currently the principal investigator for three research projects, funded by the Ministry of Earth Sciences and Board of Research in Nuclear Sciences, worth ₹ 1.5 crores. This work is on the comparison of the presence of organic contaminants in the pristine Antarctic environment and in the tropical rivers of southwest coast of India. He is currently working on quantifying the groundwater discharge from land to the coastal oceans in Dakshina Kannada, Udupi and Uttara Kannada districts. Earlier, he completed MoEF European Commission projects as the Principal Investigator.

These projects contributed in the setting up of the geochemistry laboratory which houses equipment like TOC analyzer, ion chromatograph, Voltammetry, AAS, ICP-OES etc. He was also a part of the 37th Indian Scientific Expedition to Antarctica in the year 2017-18, and spent 98 days in Antarctica.

AICTE is expected to fund him to lead a team of 10 students of Civil and Mechanical Engineering to ATAL Tunnel, Himachal Pradesh.

Dr. Anish Kumar Warrier
Associate Professor

Dr. Anish Kumar Warrier, Associate Professor of Geology received a Certificate of Contribution for valuable contribution and outstanding performance as a member of the scientific committee of the 3rd Conference of the Arabian Journal of Geosciences (CAJG), held online, during 2-5 November, 2020.

He is selected as a Review Editor, Editorial Board of Marine Pollution (specialty section of Frontiers in Marine Science and Frontiers in Environmental Science).

Dr. Anish successfully secured 'shipboard training onboard ORV Sagar Kanya' (research vessel managed by the Ministry of Earth Sciences, Government of India) for the M.Sc Geology students. MAHE has received funding (in kind) to the tune of ₹ 1.5 crores for the multiple cruises which will run between July and December 2021.

He has secured a consultancy project from an NGO in Delhi worth ₹ 2.67 lakhs in December 2020 on the topic of Microplastics in agricultural soils of Karnataka and Maharashtra states.

The faculty, students and research scholars of the department have published 35 articles in reputed journals along with 3 articles in book chapters and 5 conference papers.

Few notable publications from our department are:

1. Amrutha, K. and Warrier, A.K. (2020). The first report on the source-to-sink characterization of microplastic pollution from a riverine environment in tropical India. **Science of the Total Environment**, v. 739, 140377.
2. Akshitha, V., Arun, K., Amrish, V. N., Praveenkumarreddy, Y., Khare, N., Udayashankar, H. N., ... & Balakrishna, K. (2021). Dissolved carbon and silica fluxes from Kali, Sharavati and Sita-Swarna rivers, Southwestern India. **Journal of Environmental Management**, 286, 112273.
3. Kamath, M., Prashant, S., & Kumar, M. (2021). Micro-characterisation of alkali activated paste with fly ash-GGBS-metakaolin binder system with ambient setting characteristics. **Construction and Building Materials**, 277, 122323.

Find the complete list here

Faculty Achievements

Dr. Raghavendra K. Holla B.

Assistant Professor - Selection Grade

A few of the highlights of Dr. Holla being the resource person are: “Artificial intelligence and Building Information Modelling in Civil Engineering” as a part of five days online short term training program on Recent Trends in Construction Practice – NIRMAAN held from 28th June to 2nd July, 2021, organised by Shri Madhwa Vadiraja Institute of Technology and Management, Udupi.

Dr. Poornachandra Pandit

Assistant Professor - Senior Scale

Dr. Pandit reviewed and chaired session during International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS-2020) under the aegis of International Conference on Emerging Trends in Engineering held during December 22nd - 23rd, 2020, organized by the Department of Civil Engineering, N.M.A.M. Institute of Technology, Nitte, Karkala.

Dr. Shreelaxmi Prashanth

Assistant Professor - Senior Scale

Dr. Shreelaxmi has been invited by various institutions to deliver talks on various topics which are as mentioned below:

- “Alkali activated materials for new generation green concrete” for a webinar organised by Moodlakatte Institute of Technology, Moodlakatte, Kundapura Taluk. on 15th December, 2020.
- Recent Advances in Construction and Demolition Waste Management (RACDWM) for an FDP during February 22nd - 26th February, 2021, organized by NITK, Surathkal under TEQIP-III.
- “Preparation of lab manual & project evaluation" for Phase-II one-week online refresher programme sponsored by AICTE-ISTE between 24th - 29th May, 2021, organised by Government Polytechnic, Bagalkote.
- “Achieving sustainability in concrete through large scale use of Alumino Silicious industrial by-products” during one-week online FDP on Recent Trends in Concrete Technology scheduled from 5th - 9th, July 2021, organized by the Department of Civil Engineering, Annasaheb Dange College of Engineering and Technology, Ashta.

Dr. Sandesh Upadhyaya has successfully defended his Ph.D. thesis titled **'Numerical model studies to predict the wind-wave climate considering climate change effects'** in May 2021. The study was performed in the Department of Water Resources and Ocean Engineering, NITK Surathkal under the guidance of Dr. Subba Rao, Professor and Dr, Manu, Associate Professor.

We wish him all the very best!

Dr. Sandesh Upadhyaya K.

Assistant Professor

Department Activities

- MoU between National Highways Authority of India (NHAI) and Manipal Academy of Higher Education (MAHE) was signed on 23rd August, 2020 as a voluntary initiative under the ambit of Institutional Social Responsibility.
- NHAI will offer internships to UG and PG students of MIT Manipal under this MoU.

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

ORACLE PRIMAVERA

Bentley Advancing Infrastructure

Industry collaborations

MIT, NHAI come together for research initiative

EXPRESS NEWS SERVICE @ Udupi

THE collaboration between academia and industry has produced everything from a melanoma treatment to electric vehicles.

The industry-academia partnership always fosters research and development. MIT, Manipal and the National Highways Authority of India (NHAI) have come together for a research initiative to familiarise final year UG and PG civil engineering students with latest trends on the highway and transport sectors and get them actively involved in highway projects.

This is unique because Kundapur to Surathkal, a 90.5-km of NH stretch, will be examined by students during the site visit. They will give suggestions to enhance the efficiency of the road project considering all the required parameters such as safety, sustenance and other issues in future.

> It will familiarise final year UG and PG civil engineering students with latest trends on the highway and transport sectors and get them actively involved in highway projects
> Source

Manipal Academy of Higher Education signed an MoU with the NHAI for this research initiative. The initiative will also enable selected faculty members, researchers and students of MAHE to bridge the connection between theoretical recommendation and practical implementation of ideas. The MoU was signed by the registrar, MAHE Narayana Sabhahit and project director, NHAI, Shishu Mohan.

Further, the NHAI proposes to support creation of lab infrastructure in MIT and sponsor relevant research project that helps in using alternative resource material and improving quality of roads.

20 students of the institute will do internship with the NHAI as part of the initiative every year. "The adopted stretch will be used for field study by students. The objective of the initiative is to mutually share the domain knowledge available for the benefit of all involved. On the other hand, through the periodic examination of projects, researchers and students of the institute will provide recommendations on improving the efficiency of roads and bridges. Academic expertise will be shared with NHAI wings related to design and upgradation," said D Srikanth Rao, director of MIT, Manipal.

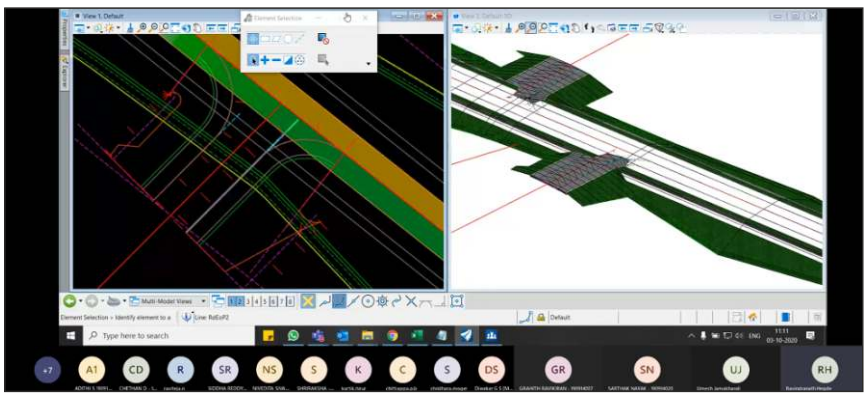
Source: The New Indian Express - 13th September, 2020

An Online Webinar on Project Management 'Best Practices using Primavera Tool' was conducted on 31st July, 2020.

Resource Person:
Mr. Janardhan Kumar
Professional Service Consultant
M/s Infinity PMC Technologies, Bengaluru.

A five-day online training program was conducted for M. Tech Construction Engineering and Management students on Open Roads Designer Software on 28th September, 2020.

Resource Person:
Mr. Ravindranath Hegde
Capricot, Bengaluru.



Department Activities

One day hands on training on QGIS-an open source GIS software was held on 11th October, 2020, organized by the Centre for Engineering Design Consultancy and Skill Development, Dept. of Civil Engineering, MIT Manipal.

Resource Person:

Ms. Preethi Raj
Ecospatial Research Technologies
Bengaluru.

A webinar on 'Environmental Impact Assessment' was conducted on 7th November, 2020.

Keynote Speaker:
Dr. K.S. Lokesh
Professor, SJCE, Mysuru.

Resource Person:
Shri. Balraj Joshi
Hydropower-Dam Expert & Former CMD, NHPC.

A Poster presentation competition was organized for the research scholars of the department at MIT-KEF R&D centre.

The event was organized on the occasion of visit by Honorable Vice Chancellor of MAHE, Lt. Gen. (Dr.) M.D. Venkatesh to MIT-KEF R&D centre, MIT, Manipal. Best poster title was awarded to Mr. Aditya Tantry.

Department Activities

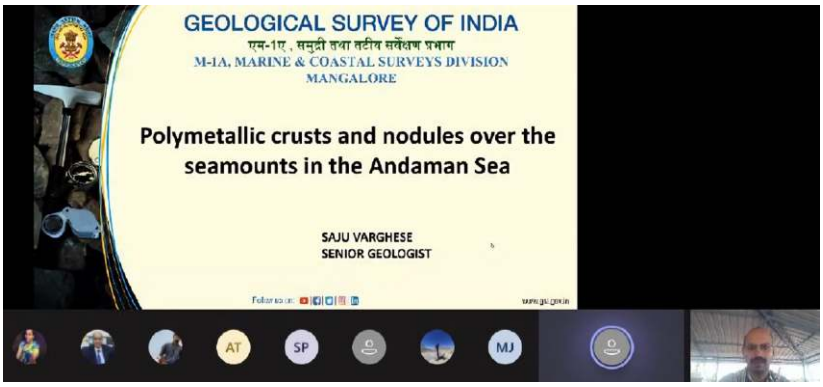
A Workshop on Road safety was organized in association with NHAI on 6th February, 2021.

Resource Persons:
Mr. Shishu Mohan
DGM – (Technical),
Project Director NHAI, PIU-Mangaluru
Mr. Girish M.G.
Assistant Professor (Senior Scale),
Department of Civil Engineering,
MIT, Manipal.

A webinar on Awareness Program on NABL accreditation was organized by the Department of Civil Engineering in association with National Accreditation Board for Testing and Calibration Laboratories (NABL) on 10th April, 2021.

One-day workshop on Offshore Mineral Resources of India on 4th May, 2021.

Jointly organized by: Geological Survey of India (Ministry of Mines & Geology, Govt. of India) and Geology Section of the Department of Civil Engineering, MIT, Manipal.



Resource Persons:
Shri A.C. Dinesh, Director (Retd.), GSI
Shri. G. Nagendran, Director, OPWC-I, GSI Mangaluru
Dr A Anilkumar, Director, OPWC-I, GSI Mangaluru
Dr Saju Varghese, Senior Geologist, OPWC-I, GSI Mangaluru
Shri. Sajesh PV, Senior Geologist, OPWC-I, GSI Mangaluru
Shri. Jishnu B.K., Geologist, OPWC-I, GSI Mangaluru

Student Zone

I.E. Civil Manipal is a student chapter of the prestigious “Institution of Engineers” based in Kolkata. The objectives are to cement a platform for our student community to showcase their talents in the field of Civil Engineering by organising various events such as seminars and workshops, to disseminate knowledge, gain exposure and build expertise.

A few of the key events organised during 2020 and 2021 are:

- Two-day workshop on 3D modelling using SketchUp
- Techweek- Nirmaan 9th - 11th July, 2021
- TechTatva- Constructure
- Field visits

Makers' Space

Mr. Vishnu Sharma A.
Assistant Professor

Mr. Sharma has set an example for the aspiring entrepreneurs by establishing **Aapaavani** and **RePlastiko Pvt. Ltd.**

He is an alumnus of our institute - obtained M.Tech. in Environmental Engineering in the year 2015.

Aapaavani builds innovative solutions including effluent and sewage treatment plants for dealing with environmental pollutants that plague our urban spaces. Founded by a team of professionals with backgrounds in Environmental and Chemical Engineering, the company harnesses technical prowess to understand contemporary challenges and devise unique solutions in the environment sector.

Aapaavani

> "It is a dream of young environmental engineers concerned about this world full of environmental issues where the general public is unaware of solutions to tackle them."

- RePlastiko Pvt. Ltd., sees the beauty and potential of the plastic waste! The company takes in the most widely available plastic wastes such as Polypropylene (PP), Low-Density Polyethylene (LDPE) and High-Density Polyethylene (HDPE) and recycle it through the patented technology at state-of-the-art recycling facility.
- The company aims to produce functional products that one can order online and use in a range of sectors and multiple ways, to use waste efficiently, reduce CO_2 emissions, contribute to a circular economy, and make a positive impact on the planet we live.
- An MoU has been signed with MAHE on 20th February, 2021

REPLASTIKO

> "Unmindful reliance on single use plastic across the world ignited the idea of reducing its use. This paved the way for a group of young entrepreneurs coming together to create a sustainable solution in circular economy by utilizing the waste plastic in creating secondary products."

Makers' Space

Mr. Satya Reddy

M.Tech in Structural Engineering (Batch 2019)

> It all starts with a simple thought. YNR Associates was built around the thought that every great build starts with an idea. An idea when articulated with planning, vision, and research, results in the perfect creation.

A postgraduate in structural engineering from Manipal Institute of Technology, Manipal, Satya has worked on a variety of commercial, residential, and corporate projects by establishing **YNR Associates** and has successfully reached the milestone of executing 75+ projects as a structural Consultant. The credibility comes from not just his expertise, but also from his associations and memberships from authorized organizations, such as CREDAI, ACCEI, KUDA, and SMART INFRA EST.

> Vyshali Group has successfully executed six projects ranging from apartment construction, office space to diagnostic centres worth ₹ 5.8 cr, another six are ongoing and many are in pipeline worth ₹ 13.8 cr.

Mr. Hemanth Kumar K. N.

M.Tech. in Construction Engineering & Management (Batch 2012)

My journey at MIT began with enrolling to M.Tech. in Construction Engineering and Management stream at the department of Civil Engineering in the year 2010. Like most of the B.Tech. graduates, I was a little nervous about how to cope, perform and be a successful entrepreneur. The first source of inspiration to my success came from the bunch of classmates I was with. There were a good mix of them in terms of site experience, great academic career, great discipline to show and so on. It was the campus life and the course that taught me the lesson to learn not just for the sake of clearing the examinations but to build a career out of it. I learnt the most important lesson of facing the world without the worry of getting lost or getting hit through various opportunities and interactions I could have during my studies. Of all, it was the internship that I did with the Brigade Group is what I see as the '**turning point**' of my life and the start of my professional career. Receiving campus placement offer from L&T and working for the prestigious Kingfisher Towers and DLF Maiden Heights projects gave the necessary thrust to my career. As a result of all the platform laid during my study at MIT and the opportunities I got to work with the industry, I was able to launch a successful venture, **Vyshali Group** in the year 2016, which is an ISO 9001:2015 company that operates in manufacturing concrete products, takes up Contracts and are also into development.

We are passionately committed to our clients, our team, stakeholders and to each other. We always strive to deliver true value at honest prices. We have a passionate eye for detail and a relentless pursuit for customer satisfaction. Our cornerstones of success are ethical business practices, professionalism, foresight, and transparency. Vyshali Group has also its Sister Concerns, Vyshali Ventures & Vyshali Constructions that deals with manufacturing of water-washed M-Sand and P-Sand with 1000 MT daily output.

I wish all the very best to the students of MIT.

Makers' Space

Mr. Ashish Sahu

B.Tech. in Civil Engineering, (Batch 2015)

> **The beauty of Manipal and genuineness of the culture of the residents of Udupi, I was taken aback by during my visits to Parkala, Karkala, Udupi, Manchikere, Malpe, Katapady, and other nearby places to collect samples of Earth for my research.**
>
> **It enthralled me and made me want more of Manipal. I was left unsatiated by the beauty of the people's love for education. Hence, I made it a point to come back to set up work here as well.**

I was the only Engineer on site with sound knowledge in pre-stressed concrete technology and would have lengthy discussions with engineering contractors from Gujarat. At the same time, I had enrolled with NICMAR for PGDM in Construction Management for working professionals. Upon my interaction with such Engineers and senior professors of our industry at NICMAR and them acknowledging my technical soundness, it instilled in me the confidence to start up with my first venture, Ashish Associates and Developers. We would venture into the Engineering Consultancy, Contractorship and Real Estate sectors.

Civil Engineering, diverse at it is, made it possible. While the world was in distress financially, it turned to be the most fruitful year for my Firm's financial prospects. I decided to generate employment and promote Enterprising people by training them in our trade. I began from my home, training my house helps in the day to day activities of our enterprise. Now, I required technical expertise as our Firm was growing and where else to look other than my Alma Mater, Manipal Institute of Technology!

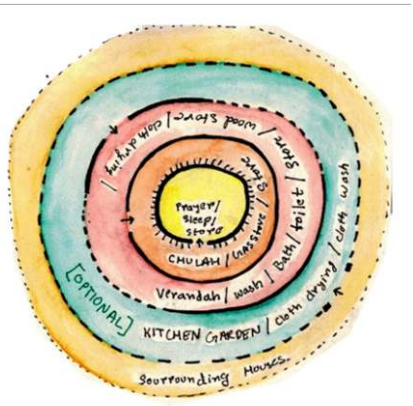
The love and blessings of my teachers, guidance I received right from my first year to my final year and beyond, helped me achieve the true potential of Life and setting up my latest venture, **WINDROSE!**

Mr. Likhin K.V.

B.Tech. in Civil Engineering (Batch 2016)

> **I worked with a community in Nepal and supported their efforts of post-disaster rehabilitation, and my role was to get the technical aspects right, document for the multiple agencies as per accountability requirements.**

Currently working as Design Lead - Strategy and Operations in **HAVELI UAVS** to bring transformation in construction using drone technology, my journey as an entrepreneur was well destined even before I graduated from MIT Manipal. I was, and am, an enthusiast to learn and implement sustainable construction practices. My first assignment was to work with the team at Hunnar Shaala, the conversations about creativity of the communities were normal discussions and most of the designs revolved around the owners who were mostly artisans of their house. The company had a target to rebuild 150 houses in the village at 3000 m altitude in Nepal, the team deployed 150-200 creative artisans that reduced the team to just 4 members on-site!



Alumni Connect

Dr. Sanjeeb Mohapatra

M.Tech. in Environmental Engineering (Batch 2013)

After obtaining M.Tech. in Environmental Engineering from MIT, Manipal in the year 2013, Dr. Mohapatra completed his Ph.D. from IIT Bombay in the year 2019. Currently he is a postdoctoral researcher at National University of Singapore.

I remember enjoying the mini-research projects and collecting water samples from rivers with my friends. I also remember being inside MIT's world-class central library, exploring top academic journals from around the world. In the second year, the flexibility of the M.Tech. program allowed me to conduct research at the National Environmental Engineering Research Institute (NEERI) India, which further supported my growing interest in academia. Those research experiences also helped me get awarded the prestigious INSPIRE fellowship by the Department of Science and Technology, India; get accepted into the Indian Institute of Technology Bombay (IITB), India, for Ph.D. in Environmental Science and Engineering; and later a Postdoctoral Fellowship at NUS Environmental Research Institute, Singapore, one of the best universities in the world and the best university in Asia.

On a lighter note, I still miss the food at MIT food court, brisk walking to the endpoint with my best friend and many trekking experiences in the Western Ghats. I also remember the opportunity provided by the Civil Engineering Department, MIT, to celebrate "Earth Day" supported by the Ministry of Earth Sciences, India, which inspired me to conduct similar events at the IITB and the Society of Environmental Toxicology and Chemistry (SETAC).

I am very thankful to MIT, and I hope that MIT keeps supporting young students like me.

> **When I joined MIT, I was not sure where I wanted to go in life. I thought that I could work in the industry; that was what most people were expected to do after finishing their Bachelor's degree. However, MIT taught me to look differently. The people I met, the books I read, and the research experiences I had made me realize that I could find a path in academia**

Ms. Riya Anna Abraham

B.Tech. in Civil Engineering (Batch 2017)

> **The college was a perfect launchpad for me and gave me the confidence to take up leadership positions ahead in life. At MIT, I was encouraged towards holistic growth and guided in the right direction to foster my research interests. It was an enriching experience with excellent teaching staff and students from diverse backgrounds who still encourage me to achieve bigger peaks. I believe that my strong background in Structural Design clubbed with a master's will give me a strong footing to pursue this endeavor.**

She secured a placement offer at Worley and Jacobs (formerly Jacobs Engineering) and served as Design Engineer for a period of three years. She was involved in unique and challenging work ranging from simple to heavy research-oriented designs in the field of process plant designs with exposure to multiple building codes and coordination with offices around the world. She is currently pursuing M.Eng. in Civil Engineering at the Department of Civil & Mineral Engineering University of Toronto, Canada.

Alumni Connect

Mr. Anmol Kalra

B.Tech. in Civil Engineering (Batch 2019)

"For me at MIT, it was more of trying to achieve a balance between the extra-curricular activities that take place on such a large scale at the institute and the rigorous academics."

After graduating in the year 2019, I worked for Deloitte India in project management role with a group of decision makers. During this, I received an enriching corporate experience. That is when I realized Manipal actually shapes a person in an overall manner. I feel a person should always keep learning and moving forward in life. I started preparing last year for MBA while working and had secured admission in Symbiosis Institute of Business Management (SIBM), Pune starting this year.

Right from being volunteer and organizer in Tech-tatva and Revels, to being a part of I.E. Civil – the technical club of Civil engineering to being the class representative and managing academics along, I experienced all this and these were the best days of my life where I could find a new self and saw myself doing things that I really enjoyed. Civil engineering for me was something of great personal interest as I really enjoyed understanding the concepts and connecting all the subjects. Always approachable and understanding, the faculty were always ready to work as hard as us to help us with any difficulties we faced in academics. 'Never stop working hard, you never know whom you are inspiring'.

With this, I wish all the students best of luck for their future and journey ahead. Always happy to connect with MIT and faculty as this is something I feel I can give back to a place which has helped me in my journey till now and the experiences will always help me. A proud Alumnus.

Mr. Anand Suresh

B.Tech. in Civil Engineering (Batch 2019)

"Hope is brightest when it dawns from fears. Many of life's failures are people who did not realise how close they were to finding a fortune when they gave up. The goals and ambitions I have today are life in Manipal. I am grateful to my mentors during my time in Manipal, professors, seniors and juniors alike, that gave me hope and confidence in my abilities along the way.

Dare to be wise, begin!"

The concept of BIM and tech in construction was an amalgamation of my passion and my field of study. A study during my 4th year, "Effectiveness in Implementation of BIM in India" helped me expand my horizons and add to my circle of like-minded professionals and pioneers in this field all over India. It took me 5 years in Manipal to find my aim, although late, the fortune I found. Today, I am pursuing my Masters in Construction Project Management with BIM in Northumbria University, Newcastle.

I was accepted into Manipal Institute of Technology to do my undergrad in Civil Engineering, however computers and its tech were my passion. The challenges I overcame during my first few years in the campus taught me that there is always a silver lining. I got involved in various extra-curricular activities through the plethora of clubs and societies in the campus which moulded me into what I am today; confident, aspiring and perseverant.

During the 3rd year of Civil Engineering, attending a talk on Building Information Modelling (BIM) and the integration of technology in Civil engineering transformed a naive student in me to one with a vision to the future in construction. Honestly, nothing ever really interested me in Civil Engineering until this point.

Alumni Connect

Mr. Pranav Anand Vikram Chandra

B.Tech. in Civil Engineering (Batch 2019)

"The course curriculum of Manipal not only caters to one's academic theoretical knowledge need, but also constitutes of Program Electives from Business Administration and Open Electives from Humanities to lay emphasis on all round development of students. The journey from MIT to IIT could have been possible only because of the MIT as it provided the gateway to L&T Construction which again provided the gateway to IIT Delhi."

He secured a placement offer at L&T Construction through campus placement in the year 2019. He was located at project site in Madhya Pradesh.

He was then assigned to look after planning activities for one of the India's largest irrigation project -Water and Effluent Treatment IC, and has already served in various roles in the company such as Planning, Scheduling and Controlling, Sub-Contractor Management for the allocation of Work. Currently, he has been selected to pursue M. Tech. in Construction Technology & Management through L&T's Build India Scholarship.

From a Campus - selected fresher graduate to gaining an experience of 2 years, L&T has helped me to take opportunity and deliver my best by utilising the technical and soft skills which I have. The best way of learning is to execute the same what you are gaining. And this was fully ensured by our company at all levels to give me ample space and platform to grow and deliver at regular intervals. In just a short span of 2 years, I have been thoroughly trained, guided and transformed in such a way to work independently and lead any team for planning and executing such mega infrastructural jobs of Industrial, Irrigation and Infrastructure Strategical Business Group".

Ms. Sharvi Khawte

B.Tech. in Civil Engineering (Batch 2020)

"The study at MIT was quite flexible as we were offered a wide range of electives to choose from to study in the later semesters which really helps to carve a path for your career, may it be a job or going for higher education."

She graduated from Manipal Institute of Technology, Manipal in the year 2020 with B. Tech in Civil Engineering. She is currently pursuing Masters in Geoinformation Science and Earth Observation in University of Twente, The Netherlands.

During these 4 years, MIT has groomed me in various ways. The way of teaching in Manipal is application oriented and the professors were very knowledgeable and encouraging. The department did an excellent job of allowing students to explore topics beyond the classroom. I can confidently say that I can take what I have learned in the classroom and apply. This has helped me to create a deeper understanding and appreciation for the field, and has thus given me motivation to go for higher studies and gain more knowledge. Manipal being a student town, has helped in my all round development. It gave an outlet to the artist as well as a swimmer in me and thus helped me gain a lot of confidence in myself. I can definitely say that the journey with MIT has left forever footprints in my life.

Thought Canvas

On the eve of retirement after 40 years of service in the academic field when I sit relaxed, my memories reel back to 1981 when I joined my alma mater (TKM College of Engineering, Kollam) as a lecturer in the Department of Civil Engineering – timid and scared, as the people around me were my faculty till the previous month. But, the guidance and support that was given by them made me develop into an individual, confident to deal with students and difficult environments.

Later as time flew, I joined this prestigious institute out of sheer luck, as I had moved to Manipal prioritising my family. One year down the line when I was asked to head the Department, I was absolutely unprepared, since I was not familiar with the system here. But the kind of support that I received from each and every member of the Department – be it teaching or supporting staff, was so immense that I could sail through my three-year tenure as the head of department without any trouble. This I feel is a unique feature of MIT and hope that this cohesiveness will remain to be the highlight of the Department.

Taking charge as Associate Director for Academics at MIT seems to have been an important milestone in my career. When the then Director, Dr. Kumkum Garg asked me to take up the responsibility I was perplexed. But the fact that Academics and dealing with students were my passion and the assurance given by Dr. Vinod Thomas, the then Associate Director of Academics, gave me the confidence to accept the responsibility. The support rendered by all the members of the MIT family both at the administrative level and otherwise is worth mentioning. I simply cannot forget Nayakji – who was my supporting staff – who rendered me all the support as a professional and as a fatherly figure to help me keep my ground. Not to mention, the unconditional support from my family during my busy schedule at the office – be it late evenings or working on holidays, helped me fulfill my duties to the best of my ability

Experiences as the Associate Director – Academics

Eight years of my tenure as the person in charge of Academics taught me great lessons and gave me a lot of real life experiences. I realized the fact that as parents we need to be willing to spend time and listen to our children when one student with whom I was interacting told me “Ma'am, I have not talked to my mother like this for years.” It was a great eye opener for me. I realized that the majority of the students who run into problems are the ones that needed a shoulder to cry on. We cannot dilute the system nor change the regulations. But if you teach them to accept failures and to learn from their mistakes I feel it can work wonders. Make them understand that it is okay to fail a subject or to lose a year, help them troubleshoot, find out the root cause, make them realise what the problem is and help them overcome that, this will indeed change their lives for the better.

What I have seen from my experience is that if we are able to build confidence in them with our assuring words and make them believe in themselves, most of them will do a lot better in life. I was taken aback when one day an alumnus, who was a frequent visitor to my office for attendance shortage issues, walked into my office mentioning that he had come to the placement office for recruiting students of MIT to the company where he was currently employed. But what he told me later really moved me. He said “Ma'am, I have come to this office at the end of almost every semester with attendance shortage issues, and not even once you had considered my request and I had to redo those subjects but, each time you explained that it is only because of my carelessness and instilled in me the fact that if I were a bit more prudent and put in a little more effort I would come out with flying colours. That trust you had in me made me work harder and reach where I am today” I can go on with any number of cases like these..

> “Teaching should be a Passion. It is not just imparting knowledge.”

A piece of Advise:

All I would like to convey to my young faculty is that “Teaching should be a Passion”. It is not just imparting knowledge. With the advance in technology, gone are those days when the students had to eagerly wait to gain new information from the faculty. They look up to you as a person who can guide them during their four years of acquaintance with the institute. If you can connect to the students in your class you can very easily identify the ones who need that special care. In my experience most of the students will move forward without much difficulty and it is only about 3-5% that will be left behind. If we can get hold of them in the initial stages and reach out to their parents as well, together we can put them back on track. The golden rule, I believe is “Step into their parents shoes” and you will automatically know what to do. After all, we have a common goal, that every child should do well, to the best of their ability and reach their full potential in life.

Dr. Gicy M. Kovoor
Professor

Best Wishes

Ms. Suja T.P.
Assistant Professor

Selected for Ph.D. at IIT Madras

Topic: Response Control of Compliant Offshore Platform

Supervisor: Dr. Srinivasan Chandrasekharan
Dept. of Ocean Engineering

Mr. Shaurya Rahul Narlanka
Assistant Professor

Selected for Ph.D. at IISc Bangalore

Topic: Rural Energy Transitions

Advisor: Dr. Balachandra Patil, Associate Faculty,
Centre for Sustainable Technologies & Divecha Centre for Climate Change

Ms. Pratibha P Shetty
Assistant Professor – Senior Scale

Pursuing Ph.D. at MIT

Topic: High Strength Concrete

Guide: Dr. Asha U. Rao

Co-Guide: Dr. Shreelaxmi Prashanth

Mr. Anup Wilfred Sebastian
Assistant Professor - Senior Scale

Pursuing Ph.D. at MIT

Topic: Integrating Service Quality as a Performance Indicator towards Customer Satisfaction for Residential Construction Projects in Karnataka

Guide: Dr. Sriram K.V.

Co-guide: Dr. Sumukh Hunugund

Department of Humanities

Mr. Vishnu Unnikrishnan
Assistant Professor

Pursuing Ph.D. at MIT

Topic: Spatial and Temporal Distribution of Microplastics in Estuaries of Coastal Karnataka, Southern India

Guide: Dr. Anish Kumar Warrier

Best Wishes

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Construction Project Management
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Diksuchi

Bi-Annual Newsletter

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