



किरा IITH

the crowning glory

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आई आई टी हैदराबाद
IIT Hyderabad

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FROM DIRECTOR'S DESK

Dear Friends,

Wish you all a wonderful year ahead.

I am pleased to share the first issue of **किराIITH** - The Crowning Glory (an exclusive IITH e-bulletin) with you. The objective behind **किराIITH** is to remain connected with all those associated with IIT Hyderabad. IIT Hyderabad, since last two years is No. 1 (**8th as per NIRF Ranking among engineering institutes in India**) among all 2nd & 3rd Generation IITs in India and is all geared-up to grow further.

IIT Hyderabad had very prolific 2019 with a lot of significant research outcomes such as making Chemotherapy easy, creating a bot which talks like humans, finding Antarctic Fungi that has potential to cure Leukemia, device for early diagnosis of Heart Attack, prediction model for performance of Indian Roads, creating bio-bricks from agricultural waste, essential oil-based drug delivery system to treat fungal infections and many others studies in the different field of engineering.

Students of IIT Hyderabad has also glaringly added to the brand of IIT Hyderabad through their notable contribution in research, various awards for their splendid achievements and representation of IIT Hyderabad at various distinguished platforms across the globe.

We will always be thankful to our technology partners who have confidently invested in us either by funds or knowledge. This trust has given IIT Hyderabad an edge over other technical institution in the country. In last one year, we have signed more than a dozen MoUs with different Organizations, Institutions of high repute and Government Bodies.

I also take this opportunity to thank the supporting staff who have silently supported all the great work at IIT Hyderabad in last one decade and continue to deliver their best for the institute.

IIT Hyderabad aspires to quadruple its annual research funding by 2024 so that many innovations can be brought-out for the welfare of the mankind.

Looking forward to the support of all of you in seamlessly taking IIT Hyderabad towards its Vision 2024.

Best Wishes,
Professor B S Murty
Director, IIT Hyderabad

EDITORIAL NOTE



Dear Readers,

Welcome to first edition of **किरीट** - The Crowning Glory. **किरीट** (Taken from Hindi & Telugu which means "Crown") is the winning suggestion of Mr. Vineeth George, Doctoral Research Scholar at Department of Liberal Arts which has been creatively altered by Mrs. Mitalee Agrawal (Two Letters in Hindi and rest in English to depict IITH Brand. As the name suggest, the aim of **किरीट** is to put forward the crowning research, achievements & highlights of IIT Hyderabad Fraternity to the outside world.

This edition of **किरीट** has got some interesting read-outs, IITH's BoK, various talks and beautiful glimpses of 2019 @IIT Hyderabad.



Prof. Deepak John Mathew, HoD-DoD
Design & Layout | Faculty Representative - 1



Mr. Bharadwaj Peela
Content Coordinator, Student Gymkhana



Prof. C. Krishna Mohan
Dean - Corporate & Public Relations



Ms. Roshni Pande
Media & PR Secretary, Student Gymkhana



Dr. K. Siva Kumar
Dean - IAR | Faculty Representative - 2



Mrs. Mitalee Agrawal
Public Relations Officer - PRO | Editor-in-Chief

My Research Diary

Affordable Housing Technology by Dr. MK Madhavan's research group

Our research group at IIT Hyderabad focuses on the innovative use of structural steel in a sustainable manner to solve the global infrastructure need. In particular, my team is working on development of affordable housing technology using light gage steel structures, geometric imperfection studies in cold-formed steel, structural design of cold-formed steel wall panels, CFRP retrofitting of steel structures, connections in cold-formed steel sections, behavior of high strength steel sections, composite (steel-concrete) construction, cyclone resistant structures, analysis of parallel flange beam structural steel section.



Figure Caption: Newly developed test setup to determine the stiffness of the sheathing boards in the wall panel

My team is mostly focused on real life problems encountered by the construction industries, and the investigations are primarily experimental based. Most of our recommendations, suggestions are adopted in the industry, specifically the wall panel design and retrofitting of steel structures. Research publications from my group were published in the top international journals such as ASCE Journal of Structural Engineering, Journal of Composites for construction, thin walled structures and Journal of Constructional Steel Research and the outcomes were well acknowledged by the international codal committees and research community.

Our primary goal is to develop and derive a design guidelines in form of the design codes (i.e. IS 800 and IS 801) for the construction of steel structures, and enable the sustainability in the infrastructure development.



Dr. Mahendra Kumar Madhavan,
Structural Steel Research Group,
Associate Professor, Department of
Civil Engineering, IIT Hyderabad

The Structural Steel Research Group of the department of Civil Engineering is also organizing the Indian Structural Steel Conference (ISSC) between March 25-27, 2020 in association with ASCE India Section and Springer Publications. It will be of interest to steel and aluminum structure designers and manufacturers, trade associations, design engineers, steel fabricators, architects, owners or developers of steel and aluminum structures, researchers, academics and post-graduate students. Please see the conference website for more information: <https://www.issc2020.com/>

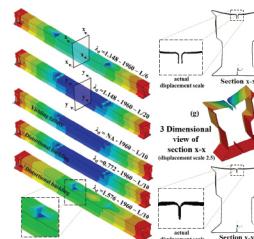


Figure Caption: Development of Finite Element Model for Cold-formed Steel Built-up Beams



Figure Caption: Development of Light weight flooring system

Go to Know...

Biodegradable Sanitary Pads: A Reality Check



Dr. Chandra Shekhar Sharma,
Associate Professor, Creative & Advanced
Research Based On Nanomaterials
(CARBON) Laboratory, Department of
Chemical Engineering, IIT Hyderabad

Approximately 350 million is the number of menstruating women in India at present. Given the increased awareness due to several factors and Government's efforts on menstrual hygiene by providing affordable sanitary napkins in school and rural areas, more number of women have now access to these products, although there is still a lot to be done. This has resulted in several new products in the market in last 3-4 years. Further focus on environment, and a mad-rush to ban plastic, most of these new brands claim their sanitary napkin product as 'bio-degradable' and 'eco-friendly'.



Figure Caption: Different layers of a typical sanitary pad (Source: www.scienceandsamosa.com)

A sanitary pad does not contain only bleached wood pulp or cotton which is now being replaced with natural fibers like more commonly used banana fibers in these new products however there are other plastic laminates and fabric layers to offer the feel of dryness and making these pads leak-proof. These include superabsorbent polymers (SAP) paper, release paper, breathable polyurethane film and polyester film which are essentially plastics and non-biodegradable. Then, we need hot melt glue as an adhesive which is also non-biodegradable. Therefore, as a consumer, we must be aware about such false claims of 100% biodegradable sanitary napkins. There is no, I repeat and I mean it, absolutely no 100% biodegradable sanitary pads in the market as on date. Even the idea of using bio-SAPs and bio-degradable adhesives in these products while without compromising the performance is still in its infancy. Even the claims of composability by some of these new brands in the name of justifying higher prices, saving environment and innovative is unrealistic until there is a separate segregation and collection chain of used products.



Ms. Kanaka Himabindu,
Ph.D. Student, Department of Liberal Arts
IIT Hyderabad

Potable and Palatable: Perspectives of Water

Anthropology holds up a great mirror to man and lets him look at himself in his infinite variety (Clyde Kluckhohn). The project is a part of the centre for sustainable development at IITH, supported by MHRD. The civil engineering faculty Dr K.V.L.Subramanyam head it and Dr Haripriya Narasimhan to give an anthropological perspective in it. Ms Kanaka Himabindu Pottumuthu is the doctoral student, pursuing research in it. Under sustainability and smart cities umbrella, the topic was taken forward with an assured ethnographic background of the researchers. The pilot study involving multi-disciplinary experts in Hyderabad gave a panoramic social science perspective. Furthered the research from 2016 by collecting ethnographic narratives. It gave an understanding that domestic water management amongst middle-class residents was crucial and that people have ways to combat the necessity in the light of shortages. The contemporary new Indian middle-class is always anxious about environmental 'purity' and 'pollution', about air, water, or food. This study highlights the concerns about people's distrust of the quality and taste of state-supplied water. Apart from the citizen's discourse, the researchers have also explored sustainable water management practices of heritage sites in Hyderabad. It is essential to understand heritage sites because things were made accessible by understanding geographical space, and with merely available technology, they created incredible structures. Also, an anthropological understanding of such spaces explained the cultural meanings attached to them. Also, the study of the newly declared smart city of Kakinada has included in this research. To bring out contrast on sustainability and smartness, as a part of the development discourse. This contrast mix of residents understanding about the development with Kakinada Smart City Corporation perspective explained a lot of interesting facts. Finally, this work intends to contribute to the policy implications of sustainable and smart water management in urban space. Hence, addressing the more significant smart city development issues with an ethnographic data would enlighten the policy developers.

My Dream Destination



Mr. Piyush Bharadwaj,
M.Tech - Machine Learning
Department of Computer Science
& Engineering, IIT Hyderabad

What's the best thing that could happen to an engineering graduate from a third-tier college? Admission to the prestigious IITs. It's like a second chance for students like us who failed to get into IIT for their bachelor degree. And as Pete Rose rightly said, "If somebody is gracious enough to give me a second chance, I won't need a third." and hence I buckled up to tackle the challenges & prove my mettle once again in engineering. Every engineering aspirant dreams of going to the IITs, and here I was, going to live the dream of a million students. And that dream became reality as I gazed upon the iconic hostels of IIT Hyderabad as soon as I got down from the bus. "I made it!", I thought to myself; little did I know, the adventure had just begun.

Going to the lecture hall for the first time is exciting, as one finally gets to see those NPTEL lectures in real-time which we only streamed on YouTube to pass our undergraduate exams. Thanks to the fractal academic course structure at IITH, everyone is free to choose any subject as elective along with a few mandatory ones. The confusion begins when you attend your first lecture. And then you see yourself surrounded with Btech & PhDs, some are keenly writing notes, while others just listening to the professor and raising doubts & that too without even lifting a pen, and the third kind which you don't see in class because they skipped the classes. "How would I keep up with them?", I murmured when I saw my fellow batch mate smiling at me because he was thinking the same thing. Time passes and we adapt to the academic environment. One of the biggest myths was thinking that all the IITians must be nerds. And boy was I wrong! After the classes used to end for the day, students usually dispersed in every direction. There is a rush to reach the sports ground and take the first turn. Some pick up their musical instruments and the jamming session begins. Some just prefer to take a calm walk around the campus, enjoying the beautiful sunset. There is a diverse group of students, and you just feel lucky to be here. Rounding back to academics, the faculty here is fantastic, young & dynamic in nature.

Professors don't expect you to be an expert on the basic when you enroll in the course. Yet it doesn't stop them from taking up the most complex topics and explaining them with grace. Yes, the pressure is there for MTechs as compared to other streams, but when you see your 20 something other batch mates suffering in silence you just tidy up, knock up your collars and get to studying, and before you know it you well accustomed to the schedule. Although that doesn't mean that we don't have that pre-exam night hustle, who are we to break the age-old tradition. All we have to do is make sure is the topper finishes his part a day before and is open to our doubts/questions. That was all about course-work. What separates us from the undergrads, and IITs from IIITs is the heavy amount of research we are exposed to. Our curriculum is designed so as to give equal importance to our master's thesis. And hence we learn the art of managing time while juggling our thesis work and placement preparation. Some of us are already hardcore coders, while some are exposed to competitive coding for the first time. But as I said again, as long as you've 20 something batch mates grinding hours in and out with you, the pain actually reveals itself to be a pleasure in hindsight.

There exists one of the most underrated aspects that is almost overlooked in every guy's mention. No, it's not the faculty, quality of education and especially how amazing Machine Learning culture is, not the radiant hostels freezing us in hot summer's day. It's a friendship. You get a batch of friends where we span entire India, sometimes it gets quite difficult to find two guys from the same state. And yet this bunch of misfits, even whose native language might differ, fits it stronger together than even a bunch of Legos. And yes, we develop crushes too. What better place is there where you can find beauty and brains coexisting in a human form! We work hard, but we party harder. We go out, eat at dhabas around the campus. And this bond is not just limited to MTechs. We're in good sync with bachelors and PhDs as well. We compete with them in classes, who's to stop us from competing with them in sports or just about anything, we do everything hand in hand. You meet a wide variety of people, from far places, yet I bet there's going to be a lot of manly tears when it's our last day at this campus. Sure some will stay in touch, there'll be promises of meeting once every year. Don't know how'd that happen, but I'm sure we'll leave with a bucket load of memories, that'll be cherished as one of the absolute fantastic phases of our lives, MTech@IITH.

Motivation to Move

Emotional First Aid



Mr. Divansh Singla,
B.Tech Student,
President - Student Gymkhana
Department of Civil Engineering,
IIT Hyderabad



Mr. Phani Bhushan
Psychological Counsellor,
IIT Hyderabad

Motivation to Move

I am Divansh Singla, a 3rd year Undergraduate pursuing Civil Engineering. In the Academic year 2019-2020, I took up the post of the President of Student Gymkhana, student executive body of IIT Hyderabad. I have been exposed to dealing with people having different ideas and methodologies and I learnt how challenging it can be to keep all of them satisfied. The leadership skills and the enthusiasm I get from going out of my way to talk to people and listen to their problems has been a lovely experience. I've observed that it is not very so easy to make some decisions without having to face unexpected consequences. I had a wonderful opportunity to interact with lot of many professors and know them not only as an academician but also as a person.

I look upon this as an amazing learning experience and I am keen to motivate my juniors and peers as well to become representatives for public opinion and know how wonderful it is to closely observe and solve the problems people face in our institution. I would like to give a piece of advice to my fellow students - So far, one thing that my journey here at IITH has taught me is to interact and make as many friends as one can. When one is so far from home and family, friends are the ones that make your journey better. I had my troubles adjusting to new faces and people in my first year and as time passed, I got associated with people more than I had imagined. Now that I look back, I hardly have any memories without my friends being included and that's the most significant part of me in my college life.

Emotional First Aid

It's my utmost pleasure to work with IIT-H to grow and give back what I learnt by making a beautiful place to live in. It's a high time we practice mental health hygiene just as we do dental and physical hygiene. Ask a ten year old what you should do if you get a cut on your knee and the child would immediately recommend cleaning it and bandaging it. We teach our children how to take care of their bodies from a very young age and they usually learn such lessons well.

But ask an adult what you should do to ease the sharp pain of rejection, the devastating ache of loneliness, or the bitter disappointment of failure, or low self-esteem or loss and trauma and the person would know little about how to treat these common psychological injuries. Some might confidently suggest the best remedy is to talk about our feelings with friends or family members. But while discussing our feelings might offer relief in some situations, it can actually be damaging in others. The reason we take little to no purposeful action to treat the psychological wounds we sustain in daily life is because we lack the tools with which to manage such experiences. So, Here I am to help you all out with the emotional equivalents of bandages, antibacterial ointments, icepacks and fever suppressants for all the emotional wounds.

I want to mention an easy scientifically proven first aid for Anxiety or Panic attack - Look around you. Find 5 things you can see, 4 things you can touch, 3 things you can hear, 2 things you can smell, and 1 thing you can taste. This is called Grounding Technique. It can help when you feel like you have lost all control of your surroundings.

Can you imagine what the world would be like if everyone was psychologically healthier? If there were less loneliness and less depression? If people knew how to overcome failure? If they were happier and more fulfilled? We can, because that's the world we want to live in. So, Let's start practicing emotional hygiene.

CAMPUS

CORNER



**Every 1st Saturday of the month
as Plantation Day**

**71st Republic Day Celebration 2020
Parade, Songs, Drama & Music**



**Success Secrets for Students
By Dr B V Pattabhiram**

**International Workshop on Dawn of a
New Era for Indian Automotive Industry**



**SPIC MACAY 2020
Celebration of Dance & Music**

**E-Summit 2020 by E Cell
Biz Quiz, Panel Discussion, Case Study**





**Live streaming of Pariksha Pe Charcha
by Honorable P. M. Shri Narendra Modi**



**Open Mic Night
by Cultural Club**



**Happy Pongal / Makar Sankranti
Kite flying, Thug of War & Kho-kho**



**Lohri Laurels
Bhangda, Bonfire, Dhool & Sweets**



**Workshop on R & D Projects and
Opportunities in Armament Field**



Inauguration of Supermarket,
Amul Center & Multi Speciality Clinic

TEQIP Workshop on
Block chain



Educational Tour of Gitanjali Digi School to
Artificial Intelligence Facility

IITH finished 8th in Inter-IIT Tech Meet 2019
with 3 Silver & 1 Bronze Medal



6th Indian Control Conference on
Advances in Control & System Theory

Last Plantation Drive of 2019, Royal Palm,
Jacaranda Blue & many were planted





IITH folks & Mr. R.K. Paliwal,
DG of IT (Investigation) at Gonglur Village



TEQIP-III workshop on
Advanced Functional Analysis and its applications



IITH Alumni Day, 1st set Alumni Awards,
Sports, Interactions & Get-together



Inauguration of new
Badminton and Squash Court



**Basic Science Training to
29 lecturers from 12 TMRJCs**



**'Run for Unity' (3 KM) on the occasion of
National Unity Day (Rashtriya Ekta Diwas),**



**Juggling Workshop conducted by IIT Delhi
Alumnus Mr. Satwinder Singh Setia**



**8th Annual Convocation
IIT Hyderabad 2019**



**IITH all set to mentor 1st batch of
Btech CSE of IIIT Raichur from 2019**



**Onam on campus, the traditional
Kerala feast, enjoying the diversity**

New Currency in IITH's BoK



Jan, 2019

Dr. Sameen Naqvi: An Assistant Professor at Department of Mathematics.

Prior to joining the institute in Jan 2019, she worked as a Post Doctoral Fellow at Chinese University of HongKong, Hong Kong, for six months, and at Jiangsu Normal University, China, for one year. She did her PhD in Statistics from IIT Kanpur and her area of research interests include Reliability Theory, Stochastic Orders and Risk Theory.

Life @IITH: Working at IITH has been a wonderful experience as it allows me to learn everyday. With healthy research environment and supporting colleagues, I get a chance to grow and explore more.

Dr. Neeraj Kumar: An Assistant Professor at Department of Mathematics.

Dr. Neeraj has done his PhD from University of Genova, Italy, Postdoctoral fellow from Institute of Mathematical Sciences, Chennai (2014-2016). He was a Visiting scientist at Indian Statistical Institute Bangalore (2016, three months), Postdoctoral fellow at IIT Bombay (2016 Nov to 2018 Dec).

Life @IITH: My experience so far has been amazing. I have learnt and experienced so many new things about teaching, research, and administrative aspects of life. IIT Hyderabad is a welcoming place, and from day one, I felt it as my own institute.

Dr. Dipankar Ghosh: An Assistant Professor at Department of Mathematics

at IIT Hyderabad, have joined IIT Hyderabad in February, 2019. Before moving to IIT Hyderabad, He was a DST-INSPIRE Faculty at Chennai Mathematical Institute (CMI) for two and a half years. He has completed PhD from IIT Bombay in 2016. His ongoing research is focused on Commutative Algebra.

Life @IITH: It's a great experience being a part of IIT Hyderabad. The friendly environment at IIT Hyderabad, particularly in our mathematics department, not only helped me to excel in my research but also improved my teaching skills.

Dr. Satya Prakash Singh: An Assistant Professor in the Department of Mathematics.

He has joined IIT Hyderabad in February 2019. He had worked as a postdoctoral fellow at the Department of Statistics, University of Haifa, Israel for more than two years and completed Ph.D. in 2016 from the Department of Mathematics, IIT Bombay.

Life @IITH: I feel that the work environment here at IITH facilitates you to grow your career as a researcher as well as a teacher. The campus is beautiful and growing.

Dr. Sayak Banerjee: An Assistant Professor at Department of Mechanical & Aerospace Engineering.

Dr. Sayak is a Mechanical Engineering graduate from Jadavpur University, completed his Mtech at IIT Kanpur, PhD & post-doctoral studies at Mechanical Engineering department of Stanford University.

Life @IITH: I first joined IIT Hyderabad as a Visiting Professor in 2018. I greatly enjoyed the dynamism and camaraderie amongst my fellow colleagues, the rapid pace of campus infrastructure development, as well as the enthusiasm of the students which made me decide to stay on as a permanent faculty member. I am continuing to develop my research group and experimental facility and look forward to interacting and guiding the students, and collaborating with my peers in developing sustainable energy and transportation technology solutions for the future of the country.



Feb, 2019



Mar, 2019

New Currency in IITH's BoK



Apr, 2019

Dr. Amrita Datta: An **Assistant Professor of Development Studies at Department of Liberal Arts.** PhD from International Institute of Social Studies, Erasmus University Rotterdam, M. Phil from University of Cambridge, M.A. from Tata Institute of Social Sciences, Mumbai, B.A. Honors in Economics from Lady Shriram College for Women, University of Delhi. Prior to joining IIT Hyderabad, Dr. Amrita has worked at Flame University, Pune; Institute for Human Development, New Delhi; Lee Kuan Yew School of Public Policy, National University of Singapore; and the Indian School of Microfinance for Women, Ahmedabad.

Life @IITH: I am thrilled to have joined the Department of Liberal Arts as it initiated MA and PhD programmes in Development Studies. IITH provides an excellent environment and support for my research, that is closely intertwined with my teaching and pedagogy.



Apr, 2019

Dr. Muvvala Gopinath: An **Assistant Professor at Department of Mechanical and Aerospace Engineering.** Ph.D. from IIT Kharagpur (2013-2018) and prior to joining IIT Hyderabad, he was a Senior Scientific Officer at the Department of Mechanical Engineering, IIT Kharagpur (2018-2019). His area of research interest are Laser Material Processing and Additive Manufacturing.

Life @IITH: Impressed with the fractal system which allows the faculty to expose the students to both basic concepts as well to the current cutting edge technologies.



May, 2019

Dr. Suhanya Duraiswamy: An **Assistant Professor at Department of Chemical Engineering,** since May 2019. Ph.D. from Department of Chemical and Biomolecular Engineering, National University of Singapore (NUS) and B.E., Chemical Engineering with M.Sc., Physics (Dual degree scheme) from Birla Institute of Technology and Science (BITS), Pilani, India. I am setting up a Micro-Reaction Engineering lab at present.

Life @IITH: These past few months in IITH has been a great experience. All faculty and staff I have interacted with, have been very supportive and have ably guided me through the process of settling into a new work environment. Students are spectacular!



Jun, 2019

Dr. Rogers Mathew: An **Assistant Professor at Department of Computer Science and Engineering.** This area of research is in Combinatorics, graph theory, and graph algorithms. He was an Assistant Professor in the Department of Computer Science and Engineering, IIT Kharagpur from January 2015. After completing my Masters (M.E.) and PhD (2012) in Computer Science from Indian Institute of Science Bangalore, he was a postdoctoral fellow at Dalhousie University, Canada (2012-13) and University of Haifa, Israel (2013-14).

Life @IITH: Both professionally and personally, I am enjoying my life at IIT Hyderabad.



Jul, 2019

Dr. Fahad Panolan: An **Assistant Professor at Department of Computer Science and Engineering.** Prior to joining IITH, he was a Postdoc during Jan-16 to Jun-19, in the department of Informatics, University of Bergen, Norway. He has obtained a PhD in Theoretical Computer Science from The Institute of mathematical sciences, Chennai in 2015. He work mainly in the areas of multivariate analysis of algorithms, graph theory and approximation algorithms.

Life @IITH: IITH is a friendly institute academically and socially. It provides academic freedom that allows me to offer new courses and do research projects with students and faculties.

New Currency in IITH's BoK



Jul, 2019

Dr. Abhishek Kumar: An Assistant Professor at Electrical Engineering department. Dr. Abhishek has a Ph.D. from IIT Madras in July 2018. M.E. degree in microelectronics from the Indian Institute of Science, Bengaluru, India, in 2011. he interned at Qualcomm, Bengaluru, in 2014 and designed voltage-controlled oscillators for cellular transceiver IC. After Ph.D., he worked as a Senior Project Officer in a team at IIT, Madras.

Life @IITH: I joined the Department of Electrical Engineering, IIT Hyderabad in July 2019 and have been thoroughly enjoying the stay.



Aug, 2019

Dr. B. S. Murty: Director at IIT Hyderabad, Professor Murty was at IIT Madras as an Institute Professor and Girija & R. Muralidharan Chair Professor at the Department of Metallurgical and Materials Engineering. His academic journey started with a Diploma in Metallurgy followed by BE from VRCE Nagpur, ME from IISc Bangalore and his PhD from IISc, Bangalore. He has served IIT Kharagpur as faculty at the Department of Metallurgy & Material Engineering during 1992 - 2004 & at IIT Madras during 2004 - 2019.

Life @IITH: This 6 Months at IITH was very refreshing for me, getting along with the young minds has added to this experience. I am confident with their caliber & capability they can excel in their respective field of interest & research in the future.



Sep, 2019

Dr. Niranjan S. Ghaisas: Assistant Professor at Department of Mechanical and Aerospace Engineering, Dr. Niranjan has done Btech from IIT Kharagpur, M. S. from IISc Bangalore and PhD from Purdue University. He has Postdoctoral research experience at University of Delaware and Stanford University

Life @IITH: My first few months at IITH have been quite pleasant thanks to the friendly, helpful and motivated faculty and staff as well as the vibrant student community.



Sep, 2019

Dr. Krishna Gavvala: An Assistant Professor at Department of Chemistry. Dr. Krishna has done his BSc from University College of Science, Osmania, MSc (Chemistry) from Indian Institute of Technology (IIT), Roorkee and PhD (Chemistry) at Indian Institute of Science Education and Research (IISER), Pune, India.

Life @IITH: With 2 months of my stay at IITH I found that this is the best place to begin my career. Major strengths of IITH are the distinguished faculty, well cooperative staff and unique academic curriculum, the best of any other IITs. The main campus of IITH has equipped with the state-of-art facilities for cutting edge research activities that push the faculty beyond boundaries. Overall it is an amazing place to live, learn and grow.



Oct, 2019

Dr. Shashank Vatedka: An Assistant Professor at Department of Electrical Engineering. Dr. Shashank has done MSc (Engineering) and PhD degrees from the Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore. He has spent two years at the Chinese University of Hong Kong, first as a research assistant and then as a postdoctoral fellow. Subsequently, he went to Telecom Paris in Paris, France for another year of postdoc.

Life @IITH: It has been great! My colleagues have been very friendly and helpful in making sure that I've settled down, and teaching bright students is fulfilling. I look forward to contributing more professionally and towards the growth of the institute.

New Currency in IITH's BoK



Nov, 2019

Ms. Mitalee Agrawal: Public Relations Officer at IIT Hyderabad. Prior to joining IIT Hyderabad, she has worked in University of Hyderabad as Assistant Registrar - Market Strategies and Signode India Limited (A leading Packing MNC in Hyderabad) as Manager – Techno-commercial with around a decade experience in brand building and marketing strategies. She has Mtech in Digital Communication and BE in Electronic and Communication Engg. from RGTU, Bhopal and a PGDBM from University of Hyderabad.

Life @IITH: Its like dream to have your passion as your profession. Proud to be associated with IIT Hyderabad. Looking forward to contribute by best for the best of the institute.



Dec, 2019

Dr. Joyjit Kundu: An Assistant Professor in Department of Physics, His Research Interests are Statistical physics of soft matter systems, materials science. He was a Postdoctoral Associate, Duke University, NC (2017-2019), Postdoctoral Fellow, Molecular Foundry, Lawrence Berkeley National Laboratory, Berkeley, CA (2015-2017). He has done his PhD from Institute of Mathematical Sciences, Chennai (2010-2015), MSc from IIT Madras, Chennai (2008-2010) and BSc from Jadavpur University, Kolkata (2005-2008)

Life @IITH: The transition was smooth and everyone was very welcoming. To me, IIT Hyderabad is a place that promotes a vibrant and collaborative scientific culture.



Dec, 2019

Dr. S K Zeeshan Ali: An Assistant Professor in the Department of Civil Engineering. Dr. Zeeshan has done his Mtech and PhD from IIT Kharagpur, B.E. from Jadavpur University. Worked as Research Associate in the Department of Civil Engineering Indian Institute of Technology Kharagpur, India.

Life @IITH: In recent years, IIT Hyderabad has grown up tremendously in multifarious activities, including academics and high-quality research. I appreciate the likely environment of IIT Hyderabad, and in particular, feel honored to be a part of the great family of IIT Hyderabad.

Happy Alliances



Mr. Jayesh Ranjan, IAS, Principal Secretary to Government of Telangana, Industries & Commerce (I&C) Department & Information Technology, Electronics and Communications (ITE&C) Department

IIT Hyderabad is one of the finest institution with which the Government of Telangana is associated for the Technological upliftment of the State of Telangana. In the recent past, we could get connected to the IIT Hyderabad. An MoU also has been signed between Government of Telangana and IIT Hyderabad as per part of "2020 - A year of AI" in the month of January 2020. IIT Hyderabad is a pioneer in the field of Artificial Intelligence being the first Institute in the country to launch a B.Tech. program in AI. We value the research capacity and capability possessed by IIT Hyderabad faculty, the world-class infrastructure with IIT Hyderabad to promote research and strong commitment of the institute towards research and development in almost all major areas. Looking forward to strengthen this association so that together we can do something good for the society, environment and mankind.



Professor Eric Laenen

(University of Amsterdam, Netherlands; Member of CERN Council)

The visit to IIT Hyderabad for a SPARC workshop, involving a joint programme in theoretical particle physics of IITH, IMSc Chennai, and the Universities of Torino and Amsterdam, was wonderful. The programme involves an ambitious research programme relevant for the CERN LHC collider, lectures series at IITH and PhD student exchanges - some IITH students already spent several weeks with me in Amsterdam. The work presented at the workshop by in particular the PhD students and the postdocs was of high caliber. It was especially nice to see so many spontaneous interactions and discussions among them, which I would very much encourage them to keep up. The excellent organization of Dr. Anurag Tripathi and his team, the warm hospitality and the high quality facilities of IIT Hyderabad were very instrumental in making the workshop a success. In fact I am staying for some weeks further at IITH for lectures and collaboration, to which I am very much looking forward.



Prof. Lorenzo Magnea

(Head of Theory Group, Department of Physics, University of Torino, Italy)

It was a great pleasure for me to spend two weeks at IIT Hyderabad for the second time, after delivering a set of GIAN lectures in 2017. It is very impressive to see how fast the institution is growing, not only in terms of new buildings, but with a rapid expansion of the faculty and of the student body, and while maintaining excellent standards of research. Thanks to the SPARC network involving also IMSC Chennai, and the Universities of Amsterdam and Torino, we have been able to set up exchanges of PhD students, lecture series, and the international Workshop on 'Precision QCD@LHC', held last week. This will no doubt lead to long-lasting and fruitful scientific collaborations. I must thank Prof. Anurag Tripathi and his team for their remarkable organizing effort, and the IITH as a whole for the kind hospitality. I am very much looking forward to the continuation of our common research projects.

Happy Alliances



Mr. Sumeet Verma, Director, Strategic Engagements, Intel India

IIT Hyderabad and Intel India have had a continuous and a long standing relationship since quite a few years. We have been working together on some of the high impact research projects in the areas of Artificial Intelligence/Machine Learning, Communications, Architecture etc., through academic research projects and fellowships. All these are shaping up very well and our experience has been excellent so far.

My sincere thanks to Prof. B S Murty for his wonderful support and close corporation, which is providing all of us with an opportunity to extend this collaboration on multiple areas which should have manifold impact in the future. I would like to also extend gratitude to Dr. Bheemarjuna Reddy, Prof. Antony Franklin, Dr. Vineeth N Balasubramanian and Dr. Sumohana for the ongoing collaborations which should be fruitful for all. I'm sure we can together create tremendous value for both organizations and for the Indian tech ecosystem. We greatly look forward to more such future engagements with IIT Hyderabad, and continue our support towards enhancing Research and Development in India.



Mr. Anand Ramamoorthy, Managing Director, Micron India

IIT Hyderabad's commitment to research and strong faculty and student body in the areas of IC and memory design will present scalable opportunities for partnership with Micron. As the world's foremost memory maker, Micron believes in investing in and nurturing young engineers in the formative college years. When I look back at my college days, the friendships I made resonate more clearly than the marks I scored. Results are important, but the strength of your networks will always get you further. And as you go further in life and in work, rest assured, you will fall – we all do! At the risk of sounding like a Rocky movie, you must dust yourself off and keep moving forward – that's how winning is done! When you look back, it will not be the money you made or the patents you won, it will be the people you nurtured and the goodwill you generated that will hold more meaning.

I wish you the very best.



Mr. Tasleem Arif, Vice President and Head R&D, OPPO India

At OPPO, we focus our efforts on bringing customer centric innovation and embrace OPPO's value to explore, refine and optimize products. With this vision, we partnered with IIT Hyderabad to create tremendous value and opportunity in the technology ecosystem in India. We are delighted to work together with IIT Hyderabad in enhancing the Research and Development initiatives and build localized solutions for the Indian smartphone market. With combined efforts, we aim to strengthen our relationship with IIT Hyderabad pave the way to initiate quality research and promote the rapid integration of cutting-edge technology, particularly in the areas of 5G and AI!"

Ask your Alumni



Dr. Mahendra Kumar Pal,
Researcher,

Hyogo Earthquake Engineering
Research Center (E-Defense)
National Research Institute for Earth
Science and Disaster Resilience
(NIED)

1. Tell a little about yourself?

Currently, I am working as Associate Research Fellow at Earthquake Disaster Mitigation Research Division (nicknamed as E-Defense) of National Research Institute for Earth Science and Disaster Resilience (NIED), Japan. Our laboratory houses world's largest Shake table test, where full-scale building structures can be tested for their resilience against strong earthquake.

2. What made you to join IIT, Hyderabad?

An interdisciplinary master course (combining structures and geotechnical) offered at Civil Engineering department of institute was the primary reason for me to join the dept. Secondly, institute was recommended to me by multiple professors at IIT Bombay and IIT Roorkee during my interview at those places.

3. Why did you choose your major/ Institute?

What subject did you enjoy most? Least?

Numerical methods for Engineers and Finite Element Classes are the two subjects I enjoyed the most.

What other activities were you involved in?

Training and Placement Representative, Department Representative and Mesh Secretary, Sports only for fun

What specialized training have you had?

Attended a couple of workshops and seminar jointly organized by IIITH, IIIT Hyderabad and JNTU, Hyderabad

How have your education and training prepared you for your current job role?

It has built the very foundation for my current research work. More than that I have learnt the research attitude, which I believe is best training I have received at IIT Hyderabad.

4. Best moment you can recall from yours' life @ IIT Hyderabad?

Receiving Academic Excellence Award from Dr. APJ Abdul kalam and Graduation ceremony would be top two moments.
However, every day spent at IIT Hyderabad hostel is nostalgic moment.

5. What message you want to convey to the existing student folk @ IIT, Hyderabad?

Have confidence and faith in yourself. One fine day your dream will come true given that you are persistent and determined.

6. What as per you is best about IIT, Hyderabad and please suggest an improvement area for betterment?

Interaction between students and teachers had been the best thing about IIT Hyderabad. I don't think I am eligible to comment on what can be changed.

7. What is the best way to contact you?

I would say Email. It's little old school. But, unfortunately, I not quite active on SNSs.

8. Any Other message you want to communicate!

Enjoy your college days.

Ask your Alumni



Mr. Shalu S. Kumar

B.Tech, Batch of 2015

Department of Chemical Engineering
IIT Hyderabad

1. Tell me a little about yourself?

I graduated in chemical engineering in 2015. I was part of the pioneer B.Tech batch of chemical engineering in IIT Hyderabad. After completing my graduation, I joined Tata Motors as a GET, where I was given a production manager profile. After working there for about 3 years, I joined ISB for their MBA program. Post ISB, I joined Amazon in their operations leadership program – BOLD.

2. What made you to join IIT, Hyderabad?

Honestly speaking, joining IIT Hyderabad was a big leap of faith, which turned out for the good.

3. Why did you choose your major/ Institute?

What subject did you enjoy most? Least?

Most – Heat transfer by Dr Vinod Janardhanan

Least – Physics troubled me a lot.

What other activities were you involved in?

I was involved with ELAN as a volunteer and a coordinator. Subsequent two years, I served as a General Secretary of the Student Body and Student Counsellor in the counselling cell, Sunshine.

How have your education and training prepared you for your current job role?

Though my current role is far from a core-technical role, what's common in chemical engineering and e-commerce logistic operations is the importance of flows. Thus, unconsciously the chemical engineer inside me is still at work.

4. Best moment you can recall from yours' life @ IIT Hyderabad?

It's difficult to pick one moment among the innumerable good times I've had at IITH, but playing football in the rain with my folks takes the cake.

5. What message you want to convey to the existing student folk @ IIT, Hyderabad?

You're in IITH because of your intellect and caliber. Let no one make you believe otherwise, even yourself. IITH folks was one of the best crowds I've had the opportunity to connect with and the faculty are one of the best in the country, each one has their own styles and strengths. These years are going to be the best years of your life, cherish every moment and make the most out of it.

6. What as per you is best about IIT, Hyderabad and please suggest an improvement area for betterment?

I think one of the main reasons IITH is on the map, being a young institution, is its focus on academics. Prof. U B Desai has been the architect for this. One thing which we lacked during our time was industry exposure. With my limited interaction with Director Dr B. S. Murthy, I've learnt that IITH is taking steps to bridge that gap. Alumni can play a crucial role here.

7. What is the best way to contact you?

LinkedIn - <https://www.linkedin.com/in/shaluskumar/>

8. Any Other message you want to communicate!

IITHAA is in its growth stage. Appealing to all alumni/students to take part in its activities in any way possible. Let's make a closely knit IITH.

Wall of Fame



DAE Young Achiever Award to Dr. Chandra Shekhar Sharma



Dr. Manohar Kaul, Mr. Jatin Chauhan & Mr. Deepak Nathani Paper was accepted at Intl. Conf. on Learning Representations 2020



Dr. Anil Agarwal has been jointly awarded the Young Turk of Composites Award 2019-20



Dr. Syed Quadir Moinuddin won the 'Weldwell Speciality Award 2019'



Mr. Mamidi Suresh got 1st prize in the Best Poster Award during the 2nd Annual IISER Pune – KPIT Intl. PhD Conf.



Ms. Swarnalatha Mailaram, Mr. Nitesh Dobhal & Mr. Sunil K. Maity won the 'Best Paper Award' during the 7th ICAER 2019 Conference.



TAS Awards for Dr. Debaprasad Shee, Dr. D. S. Sharada & Dr. Sai Santosh Kumar Raavi



Mr. Kousik Mukur & Ms. Tejaswini Appidi selection for the Newton Bhabha Programme



T. Appidi, R. Srivastava, Tejaswini Appidi, Deepak Bharadwaj & Dr. Arvind Rengan won Best Poster Award at IEEE NMDC 2019 Conf., Stockholm



Ms. Poonam Rani won 'Best Poster Presentation' Award - National Conf. on Solid State #ionics held at IIT Roorkee



Pinaka, by Mr. Akash Banerjee, Ms. Eti Chaudhary and Dr. Saurabh Joshi placed 3rd in Reach Safety-Floats subcategory



IIT Hyderabad students win Smart India Hackathon 2019



Ms. Ankita Kolay has won Metrohm Young #Chemist Award



Ms. Poonam Meena won Bronze medal in Women Long Jump during Inter-IIT Sport Meet. IITH secured total 6 Medals in Inter - IIT Meet 2019, 3 Silver & 3 Bronze Medals



Mr. S. Yempalle's Animated short film 'Ek Cup Chaha' has won 3 awards at Anifest 2019



Please send
your suggestions to

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