



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

किर IITH

the crowning glory

A quarterly e-newsletter of IITH
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#5G & Next-gen Communication Technologies

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**World
Telecommunication &
Information Society
Day
"May 17"**



Kaustubh Kesharwani
BTech 2nd year, IIIT Raichur
{Cover page image courtesy}

Editorial Epistle...

Dear Readers,

We hope you are doing well!

We sincerely thank all our readers for acknowledging and honoring our efforts for the past five issues. Your valuable suggestions have helped us improve, and we hope that **किराIITH - The Crowning Glory, Issue-6** reflects the same.

Communication technologies play a crucial role in the development of the world. The modern world is heavily powered by communication tech, and it is challenging to imagine a day without all the devices that rely on this technology. Our society needs to better these technologies for the sake of its development. IIT Hyderabad is playing a very crucial role in this cause.

IIT Hyderabad is leading 5G and next-gen communication development globally, establishing a unique brand known for its ground-breaking work in communication technologies. IIT Hyderabad is a leader in research and Intellectual Property (IP)

development of 5G and next-gen technologies. The CSP (Communication and Signal Processing) wing of the department of Electrical Engineer has five research laboratories, which are always on a quest to solve fundamental and momentous problems for the betterment of society.

This issue is an ode to the ever bright & innovative researchers of IITH who are working to better science and society; hence we named this issue **किराIITH - The Crowning Glory, Issue-6 #5G & Next-gen Communication Technologies** and released it on the **World Telecommunication & Information Society Day**.

We hope this issue gives you a good idea of the developmental works in Communication Tech at IITH. We hope to keep on delivering the latest issues of **किराIITH - The Crowning Glory**.

We wish everyone a safe and healthy stay.

Have a good read!



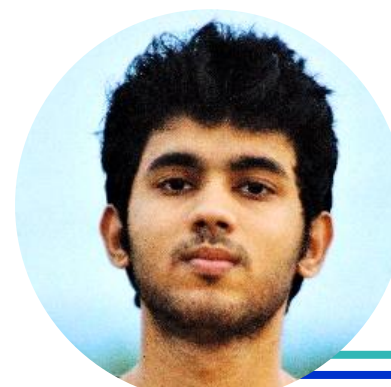
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Director's Desk



There is no speed limit on the road of success.

~David W. Johnson

Prof. B. S. Murty
Director, IIT Hyderabad

Dear friends,

I hope you are keeping well along with your family in these testing times.

One thing this pandemic has taught us is not to stop and wait for a better day but to continue to grow by scaling up our skills. Though this virus is not letting us live the normal life we used to, but we have also tightened our belts to fight it out. We have brought back many of our students to campus over the last 8 months and are ensuring their well-being and good health, so that they can focus on their academics and research.

Many path-breaking researches have taken place like the prediction of the SAR-COV-2 droplet by an interdisciplinary team of Dr. Saravanan Balusamy and Dr. Sayak Banerjee, led by Prof. Kirti Chandra Sahu. We are very proud that IIT Hyderabad Researchers joins India's global hunt for Einstein's waves from monster black holes.

On the academic front too, this dreadful disease could not slow us down. While we continued our regular MTech & PhD Admission for 2021, we have also taken some novel initiatives this year like **FIRST (Fellowship for International Research Scholars in Technology)**, a PhD fellowship for foreign students to study at IITH, **Interdisciplinary PhD, Joint Doctoral Program with two top Australian Universities (Deakin & Swinburne)**.

The Dept. of Entrepreneurship & Management in collaboration with Business Design Lab has launched a unique Certificate program on 'Business Model Innovation' for Business Leaders, Entrepreneurs, Intrapreneurs, Sr. Design and Strategy Professionals. FabCI Incubator at IITH Joins hand with NXP India & MeitY to launch Semiconductor Incubation and Acceleration Program, a first-of-its-kind program for start-ups & innovators working in the field of semiconductors.

Again, our students have proven that nothing can stop or slow them down. They have demonstrated a mammoth of motivation and management skills by conducting their flagship event, **ELAN & ηVision 2021**, online with the theme Fables of a Moppet, an event focused on mental well-being & stress management especially of the students. Given COVID-19 circumstances, even **E-summit 2k21** has been organized virtually with the help of IT Collaborators. It was a great success with more than 1,500 registration and 300 participants for the panel discussion. With the message **"It's time to stop playing safe" "Let's play Unsafe"** **TEDx IIT Hyderabad** too went online this year with the same or even better partaking.

I am hopeful that we will soon be able to enjoy our in-person communications.

Stay Home & Stay Safe...

Warm Regards,
Prof. B. S. Murty

Our Indigenous 5G Story

In my first address after taking over the responsibility of Dean R&D, I could not think of a more relevant topic than 5G, which I have been working on for more than a decade now. On the special occasion of World Telecommunication & Information Society Day, I will walk you through India's 5G R&D journey during which IITH made immense contributions to the budding Indian 5G landscape. It is a story that includes contributors from academia, industry, and the Government. Even after a decade of sustained efforts, I would say that we have merely laid the path to Indigenous wireless development that has not been tread before. The final goal is to see an Aatmanirbhar 5G India that produces the technology and equipment with significant Indigenous IPR that goes into everyday use. IITH should be proud for being part and parcel of this journey and for adding our bit to this nation-building effort.

5G/IoT is not merely an evolutionary outcome of 4G, especially given the high expectations that 5G will bring about fundamental and revolutionary changes to our society. We've already seen the staggering impact that smartphones have had on our daily lives, and 5G applications will go far beyond connecting people - they'll also integrate a whole range of machines into the internet, such as home appliances, industrial sensors, meters, etc. As critical national infrastructure such as electricity grids, public services offered by local bodies, etc. will soon run on 5G, security considerations are crucial in the selection and ownership of technology, as it will have a bearing on the nation's ability to control the equipment as well as secure the delivery of these critical services. This is all the more important in the post-COVID world where 5G has essentially become a commodity service and high-speed internet access is every citizen's basic necessity.

On the economic front, within the next decade, 5G/IoT is expected to add hundreds of Trillion of USD to the world economy. This is an unprecedented economic opportunity that India cannot afford to let go of. Historically, India did not own the IP (Intellectual Property) that goes into the design and manufacturing of cellular Mobile phones/Base stations gear. However, the situation is different today, as the country has a reasonable presence in the global standards bodies and has acquired the essential technical capabilities required to develop the equipment: the patents that are vital to the implementation and licensing of 5G technology are being created; numerous start-ups, domestic equipment manufacturers are on the rise; and academia has also stepped up through manpower development, testbeds and patent creation.

India's Presence in 5G Standards

The development of 5G happens through a global forum called the 3rd Generation Partnership Project (3GPP). It's a partnership between seven global Standards Development Organizations (SDOs) of which Telecommunications Standards Development Society, India (TSDSI) is a member. 3GPP kick-started the 5G project in 2016 where we made substantial contributions to three successive releases of 5G specifications to date. IITH primarily led the efforts with significant support from CEWiT, IITM, and other Indian corporations (Tejas Networks and Reliance Jio are our major industry partners) with well over 300 technical documents submitted to date. These sustained efforts led to the incorporation of several innovations introduced into the global 5G standards. One significant contribution that stands out is the introduction of a new transmit waveform, the only new waveform that is adopted in 5G, which is a generational change.

Continued...

Earlier both 4G and 5G adopted a waveform technology called OFDM (Orthogonal Frequency Division Multiplexing) that is quite suitable for the downlink transmission (that is the link between a base station (BS) and user equipment (UE)) but not so well suitable for the reverse link (that is the link between UE and BS). The limitations of OFDM owes to low-power efficiency (of about 10%). Prof Kuchi has designed a new waveform called “ $\pi/2$ BPSK with spectrum shaping” that provides close to 100% power efficiency and yet retains all the other advantages offered by OFDM. This new transmit waveform allows the power amplifier in the UE to operate near its saturation level thus delivering a 3-4fold increase in the transmission power, and a hardware cost similar to that of OFDM. The overall gain in the cell range compared to OFDM will be at least twofold, hence this became a driver behind the design of the large cell 5G concept. This indigenous waveform technology is developed for over a decade and is covered by a family of patents developed by IITH and CEWiT. There are well over 100 patents filed by IITH and WiSig to date. These patents will likely become the backbone of our indigenous 5G ecosystem.

India's 5G at ITU

There are two parallel tracks that India took during the 5G development. The first effort is the aforementioned contributions to the 3GPP-based 5G standard, and our second noteworthy contribution is through TSDSI and the ITU (International Telecommunication Union). The second effort is led by IITM on the ITU front with significant backing and support from IITH, CEWiT (and Indian Industry such as Tejas networks, Reliance Jio). ITU is a UN body that lays down requirements for 5G. It had earlier adopted the so-called Low-Mobility-Large-Cell (LMLC) use case as a mandatory 5G requirement in 2017. This requirement was adopted by ITU mainly as a

result of sustained effort by the Indian entities through the Department of Telecommunications (DoT) to address the unique Indian rural broadband deployment scenario. Several countries supported this use case as they saw a similar need in their jurisdictions as well. TSDSI took this opportunity to develop the so-called LMLC based 5G technology that is a modification of 3GPP-based 5G specification. This indigenously developed standard designated as 5Gi will deliver ultra-fast, low-latency mobile internet and next-generation IoT services in both cellular and mm-wave spectral bands that are common to all 5G candidate standards and adds “ $\pi/2$ BPSK with spectrum shaping waveform” as a mandatory technological enhancement that can provide broadband connectivity to rural users using ultra-long range cell sites.

This enhancement will ensure that 100% of India's villages are covered from towers located at panchayat villages, whereas nearly a third of such villages would be out of coverage otherwise. Both 5G and 5Gi are fully compatible and interoperable systems that are being leveraged for the upcoming deployments in India. Adoption of the LMLC based 5G standards in India will enable India to leap forward in the 5G space, with key innovations introduced by Indian entities accepted as part of global wireless standards for the first time. The nation stands to gain enormously both in achieving the required 5G penetration in rural and urban areas as well as in nurturing the nascent Indian R&D ecosystem to make a global impact. The current national efforts are aligned with the national digital communication policy that promotes innovation, equipment design, and manufacturing out of India for the world market.

Continued...

Indigenous 5G Testbed

MeitY has been funding our wireless research for the past 10 years and these efforts have led to the development of larger wireless programs. More recently, the DoT has sanctioned the "Indigenous 5G Testbed" program with a project outlay of 224 crores to IITH, IITM, CEWiT, IITK, IITB, IISc, and SAMEER. This 3-year program, already close to completion, started yielding results in the form of prototype base stations, CPE/UE and NB-IoT chipsets. IITH stands out with major contributions to key 5G technologies such as cloud RAN base station with massive MIMO capability and cellular NB-IoT chipset for connecting sensors and meters to the internet. We are gearing towards full-fledged demonstration and field trials.

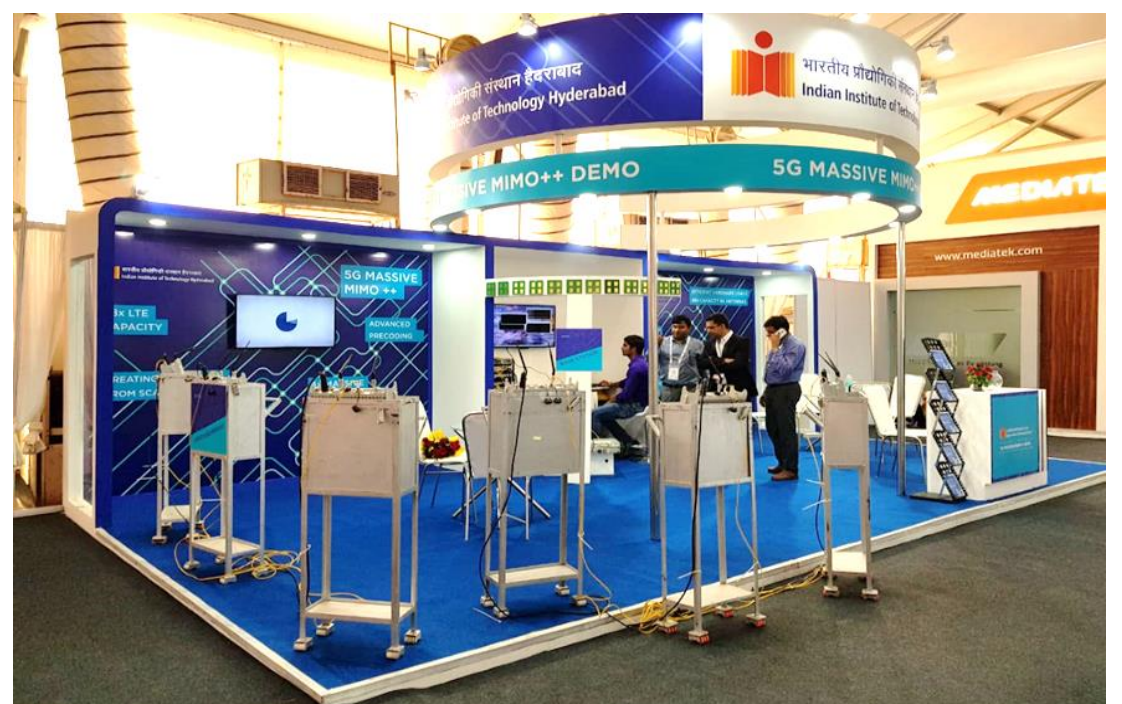
WiSig- An upcoming player in the 5G space

WiSig Networks (WiSig) is a 5G start-up incubated at the IITH tech incubator (i-tic foundation). WiSig has developed a 5G radio access network (5G-RAN) based on an emerging technology called ORAN (Open-Radio-Access-Network), that is being touted as the next major disruptor in the 5G landscape. This technology allows rapid deployment of low-cost, software upgradable 5G base stations in significantly higher volumes and larger densities than the current 4G network. ORAN is a software defined 5G system based on open interfaces and general-purpose hardware. Some operators have initiated the deployment of ORAN based software-defined network and virtualization networks that enable self-organization, low operational cost and ease of introduction of new features and service upgrades. New 5G use cases can be introduced rapidly on the fly using software upgrades as opposed to costly and time-consuming hardware development cycles. WiSig has created commercial grade IP in this space and is well on track to carry out one of

India's first ORAN compliant demonstrations of a software defined 5G massive MIMO base station. Overall, WiSig is well on its path to deliver 5G RAN IP components to the global 5G supply chain.



Fig. 1 Massive MIMO Testbed at Institute



Continued...



Fig. 2 & 3 Massive MIMO Testbed at 5G India Mumbai Exhibition



Fig. 4 5G Base Station Hardware

Koala: NB-IoT SoC

In contrast to high-speed mobile broadband, a vast number of IoT applications requires few bits to be exchanged with the internet intermittently. The key considerations of these kind of IoT devices are that they are ultra-low-cost and have a long battery life – up to 10 years. Narrowband IoT (NB-IoT) (Belongs to the 5G family of technologies) is well suited for this purpose and is quietly emerging as a killer application for low-bit rate IoT applications. IITH and WiSig joined hands in commercializing a NB-IoT SoC that was successfully taped out in Q1 2021.

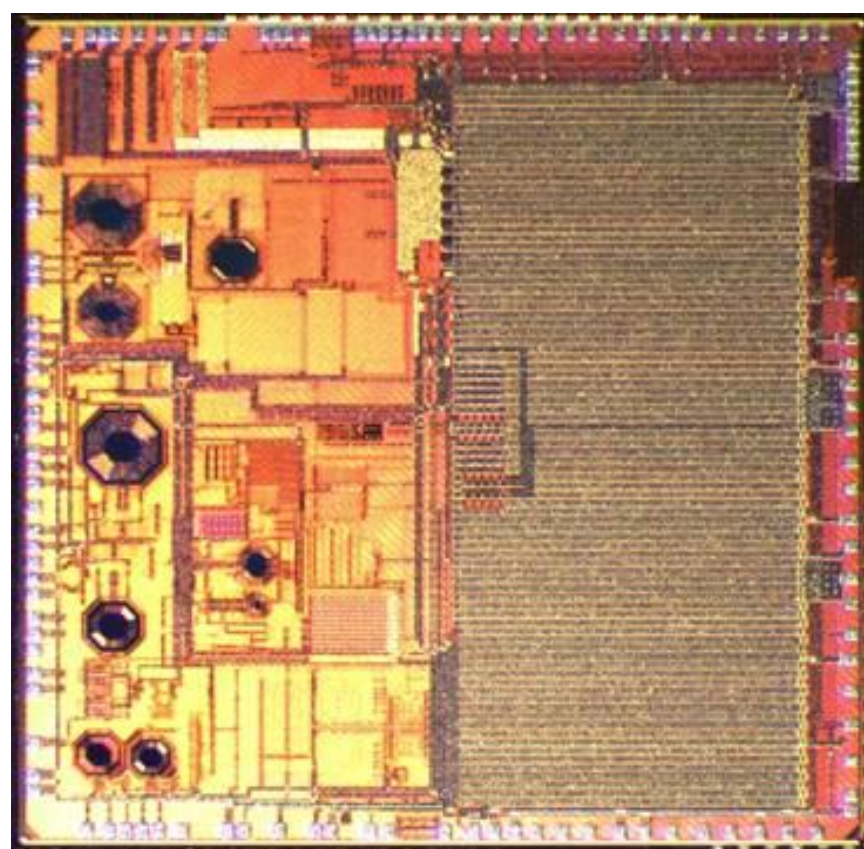


Fig. 5 Koala 5G NB-IoT SoC. It includes NB-IoT modem, GNSS and an Application Processor

The chip is named “Koala” after an animal indigenous to Australia that sleeps about 20 hours a day – typical behavior of the NB-IoT modem.

Given that this is the first time a standards-compliant cellular modem is designed in India and that both the software and hardware that goes into the chip is developed indigenously, this chip should preferably be leveraged to serve the security needs of critical national IoT infrastructure.

Continued...

Conclusion

In summary, the investments made by Meity and DoT on 5G research have started to bear fruit in delivering the basic technological components and sub-systems required to build 5G. The time is ripe for the Government to nurture domestic design and manufacturing of 5G equipment. The country has enough talent and the technological depth required to support a domestic 5G ecosystem. With the right kind of policy support, then India is likely to see a 5G/IoT domestic manufacturing revolution within this decade. IITH will continue to play a pivotal role in shaping the 5G ecosystem not only in India but globally as well.



Prof. Kiran Kumar Kuchi

Dean

(Research & Development)

UAV Communications: 5G and Beyond

In the late 1990s, people in India started calling relatives abroad through the internet using voice over IP (VoIP) in internet cafes. It was just a matter of time before every household had an internet connection. Similarly, drones, also called unmanned aerial vehicles (UAVs) are now being used for shooting wedding videos in India. It is only a matter of time before drones become as ubiquitous as cell phones. Instead of kites, we may soon see youngsters flying drones on Makara Sankranti.

Currently, UAVs are manually controlled using radio signals on unlicensed bands like 2.4/5.8 GHz (Wi-Fi) and ISM (around 800-900 MHz). Like cell phones, UAV applications will keep evolving with time. Right now, all kinds of fancy ideas, e.g., using UAVs for delivering groceries and food are being discussed. However, just like the cell phone, it is difficult to foresee what UAVs are truly capable of at this stage.

Legacy UAV communication is simplistic, with a single channel line of sight (LoS) link, suitable for manual control. Myopic regulations have followed suit, mandating licenses for drones and operators. Drones are capable of intelligence and just like e-commerce applications borrowed artificial intelligence (AI) from robotics to the internet, commercial applications will ensure that such intelligent systems are mounted on UAVs as well. This will require drones to communicate with each other on high-speed links. Since drones are capable of flying, the communication modules have to be more sophisticated than those on cell phones.

Future drones are likely to have the following communication capabilities:

- High-speed Adhoc D2D (Drone to Drone)
- 5G cellular
- GPS
- SATCOM (Satellite Communication)

Thus, 5G communication is not limited to mobile telephony in cellular. UAV communication is also one of the focus areas of the evolving 5G standards.

The Drones Lab at IIT Hyderabad, supported by TiHAN, is currently working on technologies related to intelligent communication for ad-hoc networks for UAVs, supporting UAV swarms as shown in Fig. 6. We are in the process of replacing the onboard FS-iA6B Receiver Module available on most low-cost drones with our module using open-source software (e.g GNU Radio) and low-cost hardware. For this purpose, we are collaborating with OptimusLogic, a Hyderabad based startup, which has provided us with the indigenously developed Vaaman (वामन) boards (EOS S3 FPGA + ARM Cortex M4) for development as shown in Fig. 7. These boards can be programmed using the Raspberry Pi as well as Android-Termux.

The idea is to build indigenous low-cost/power communication systems for UAVs as a proof of concept and then extend these ideas to cellular and satellite communication as well. This will involve designing new communication standards at the physical layer and protocols in the higher layers. We look forward to the participation of the student community at IITH in this endeavor.



Fig. 6 Drone

Continued...



Fig. 7 Vaaman board



Dr. G. V. V. Sharma

Associate Professor

Departments:

Electrical Engineering

Artificial Intelligence

Using Storage to Increase Data Rate

The ever-increasing demand for fast communication links has been one of the major factors pushing innovation in communication engineering. The natural way to meet this demand is to bring in more physical resources to be leveraged by communication networks, such as increasing the number of fiber-optic cables available in the network, expanding the electromagnetic spectrum allocated for wireless data transmission, using multiple antennas at communicating devices, or even providing the electronic device the ability to send and receive data at the same time (this is called full-duplex radio). Each of these solutions increases the quantity of a specific raw resource which can be converted into an increase in data rate. For instance, doubling the number of antennas at the sender and the receiver doubles the number of signal dimensions, which essentially doubles the communication rate; similarly, using a full-duplex radio allows a device to talk and listen at the same time (instead of spending only half of the total available time on each of these two phases), and thereby again, doubling the data rate in an ideal setting.

A new parallel approach, that is compatible with other innovations (such as the ones mentioned above), is to exploit storage or memory space available at the receivers. Allow me to explain using an example. Imagine a digital movie library storing two movie files, call them A and B, and two users, call them U1 and U2, who have subscriptions to this library. For the sake of our argument, let's say U1 and U2 reside in the same locality, both of them typically watch movies in the evening, and have a limited amount of free space in their devices that can be used by the library's app. The space available in each device can store just one movie. The server knows that internet traffic is low during early mornings, and so, uses this opportunity to 'push' some data onto the devices during this off-peak duration. It does so in the following way. It splits each movie

file into two halves: file A into A1 and A2, and file B into B1 and B2, and pushes A1 and B1 into user U1's memory and pushes A2 and B2 into user U2's storage space. The server does this non-trivial data placement since it does not know ahead of time which user will demand which movie that evening, and the server wants to be prepared for all possibilities. Now suppose in the evening U1 wants to stream movie A and U2 wants to stream movie B. When the users place this demand to the server, the latter simply does an exclusive OR of the files A1 and B2, denoted as $A2 \text{ XOR } B1$, and sends this coded file to both users. Recall that U1 already has A1 and he can get the remaining half of the movie A by first receiving the coded file from the library and performing one more XOR with B1, that is, $(A2 \text{ XOR } B1) \text{ XOR } B1$. The second user can use the same coded file to retrieve the missing half of movie B as follows, $(A2 \text{ XOR } B1) \text{ XOR } A2$. Not only has the movie library served the two users simultaneously with a single transmission, but it has also done so in just half of the usual required time since the size of the coded file is only half the size of each movie file. We can check that the library could perform similar coding operations if the users had placed a different set of demands: for instance, if both the users wanted to watch movie A, the server can send the coded file $A1 \text{ XOR } A2$.

The approach we just saw illustrates what is known in the information theory community as coded caching, a technique to exploit the space available at the clients and to transmit smartly designed coded files to increase the effective data rate during peak traffic hours. Since digital memory is getting cheaper, intelligent caching techniques can be used in next-generation networks to reduce the traffic strain placed on communication links.

Continued...

The application of such techniques to content distribution networks, and for wireless caching in 5G is being considered. These applications arrive with an assortment of interesting challenges, such as privacy leakage, reducing the number of fragments that a file needs to be broken into for cache placement (this is known as subpacketization), predicting the popularity of files, and using this prediction to optimize the data placement in user caches.

From a more theoretical viewpoint, coded caching is closely related to a general problem, known as index coding, that seeks to exploit side information at the receivers to improve data

rate. Some of the research work from my group focuses on the following aspects of index coding: what if the communication link from the server to clients is noisy (which is usually the case in practice), what if the files cached at the clients are corrupted, and can we reduce the complexity of the operations performed at the clients? These problems are interesting mathematically, and they have strong relations to graph theory, matroid theory, coding theory, and information theory. From an engineering perspective, this problem is related to distributed data storage, distributed computing (MapReduce), and multi-user communication in wireless networks.



Dr. Lakshmi Prasad Natarajan

Assistant Professor

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Electrical Engineering
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My journey to IITH & 5G

My journey to IIT Hyderabad and 5G started at end of 2018 when I initially joined as a project associate in 5G testbed project, I was new to telecom and cellular technology, before joining here word 5G was just a buzzword for me but after learning about it I was amazed by the length and breadth of it. Initially few months I spent my time learning specification giving by the standardization body which gave me a deep insight about 5G, later when I started coding, I came to know how complex it is yet how it can make life simple.

5G is expected to provide speed in gigabits and latency in a few milli-seconds and whatnot for an end-user it's just an upgrade from 4G but when it comes to design it a lot more challenging. I developed a solution for the 5G protocol stack, basically writing layers and interface code as per standardize specification.

By the end of 2019, I was getting more interest in the wireless network domain, so I decide to apply for the Master's program here in IIT Hyderabad itself, after coming into MTech life took a 180-degree turn, I learned about Wi-Fi, IoT, and software-defined networks and network virtualization. My learning curve was expectational, with constant guidance from the professor here I was able to publish my research work.

Now my focus was shifted from building 5G to make it efficient and scalable, my research involves studying and implantation of ways in which we can make 5G more energy-efficient, make it cloud-native so that it's easy to deploy it on the go. During my MTech program, I got the opportunity to play with the architecture of 5G, even though I am new to this field but after so much exposure here I have enough confidence to propose changes at the architectural level.

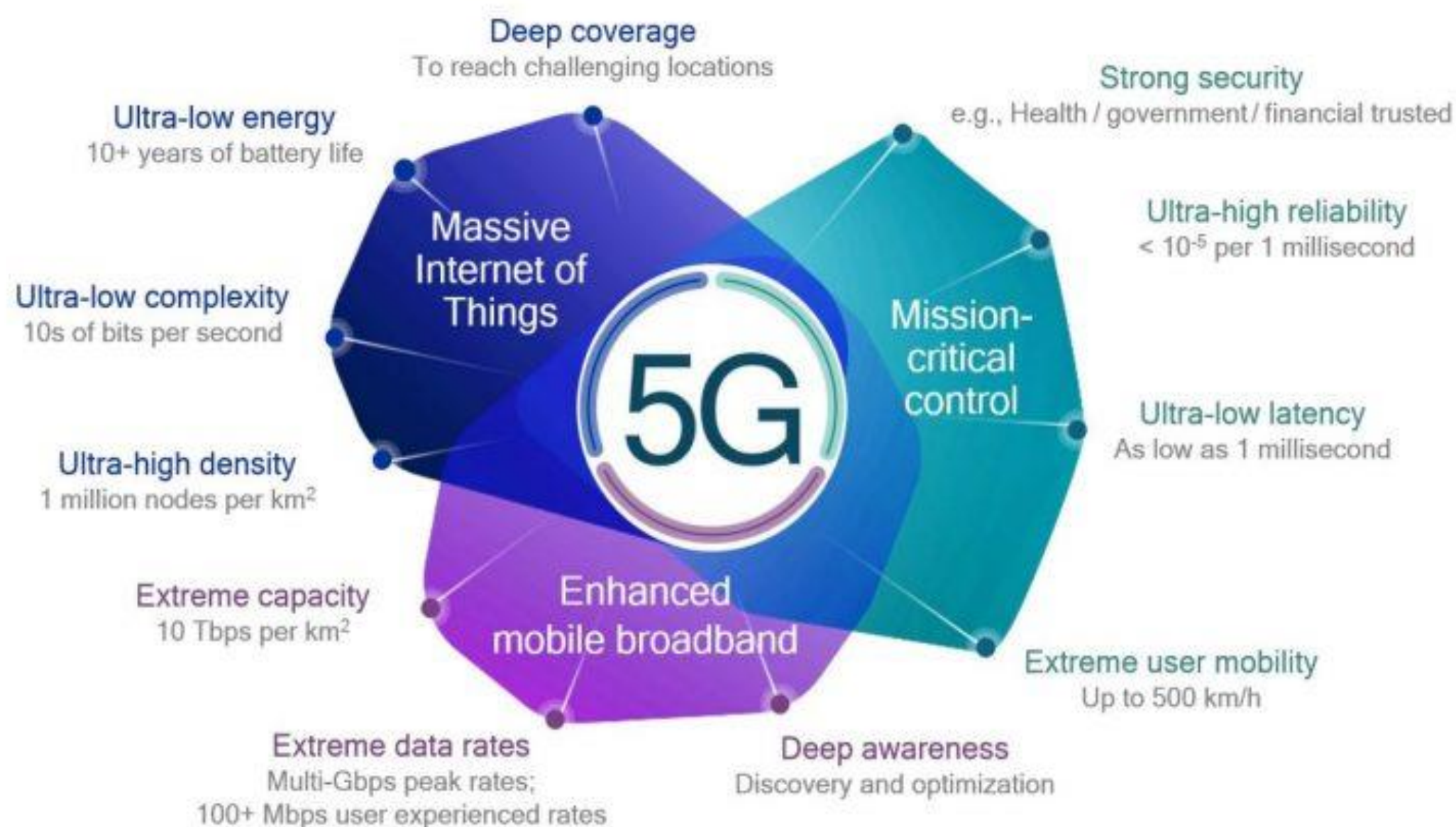


Fig. 8 Goals of 5G NR

(Image source: <https://www.qualcomm.com/media/documents/files/whitepaper-making-5g-nr-a-reality.pdf>)

Continued...

Students' Diary

In summary, my work in 5G involves building components of the protocol stack, energy-efficient Cloud radio access network, the study of the functional split, and various solutions to deploying it, making 5G function as virtualized function. I met a lot of people in this journey who had a lot of experience to share and knowledge to transfer. I can say that within the next few years India will play important role in cellular.

One thing I would like to say is if anyone wants to get their carrier in 5G IIT Hyderabad has lots of opportunities available, and I am confident enough that IIT Hyderabad will be a pioneer as well. It is well known that only a few organizations in India know when it comes to 5G and other network technology. My next goal will be to contribute to network security for 5G and beyond.



Mr. Keval Malde

*MTech RA, Department: Computer
Science & Engineering
(Supervisor: Prof. Bheemarjuna Reddy)*

Affordable Rural Cellular Coverage for 5G and Beyond

In urban areas, the network operators deploy small-cell sites and install many base stations to support densely populated cellular users. A similar small-cell deployment in rural areas is not feasible for the operators, as it will significantly increase the CapEx costs, and the return on the investment will also be comparatively lower. In developing countries like India, most of the population is in rural areas. To improve broadband connectivity in rural areas, the Government of India has initiated a significant optical fiber deployment.

A feasible solution to achieve last-mile rural connectivity is to install a base station at each of those optical drop-points and serve the neighbouring rural areas. This ensures an interconnection between the base stations and reduces the CapEx costs for the network operators. Even with such an optical fibre infrastructure in India, the minimum feasible inter-site distance is close to 12 Km.

However, the technology developed for IMT-advanced (4G-LTE) was evaluated for an inter-site distance of 1.732 Km, making the large-cell connectivity required for rural areas an afterthought. For cellular last-mile rural connectivity to be a reality through IMT-2020 (5G-NR), the key is to have future technologies supporting large cells. In large-cell sites, the users experience comparatively more path loss and have poor signal coverage.

Further, compared to the downlink, the transmission power in the uplink is limited, and therefore, uplink transmissions define the coverage of the communication system. Motivated by this, at our communications laboratory (A-621), we evaluated various coverage solutions for uplink, considering an extremely large-cell site scenario. We have proposed several enhancements related to the waveform, modulation and coding schemes,

resource allocation, and power control mechanisms. We have shown that the proposed solutions achieve close to 2 times improvement in network capacity when compared to the currently available Release-15 5G systems.

5G-like Performance from the Existing 4G Deployments

Full Dimension-Multi Input Multi-Output (FD-MIMO) is a technology where a two-dimensional antenna array structure is used to beamform the data along with both elevation and azimuth directions. With this kind of beamforming, an enhanced multi-user MIMO transmission can be done at the base station to achieve a multi-fold enhancement in the network throughput. The 3GPP specifications for 5G support beamforming of all the physical layer channels in both the azimuth and elevation directions.

However, this is not the case in 4G systems, where only the data channel supports beamforming. Typically, the base station transmits the actual user-intended payload in the data channel. All the information required to decode this data is transmitted in a payload in the control channel. Hence, first, a user has to decode the control-payload, and only then it can decode the data payload.

Thus, even though the beamformed data channel has improved capacity, the control channel still has a limited capacity and has become a bottleneck in achieving larger network throughput. To address this issue, we have proposed a beamformed downlink control channel design for existing 4G deployments, which strictly adheres to the current 4G specifications, and yet achieves 5G-like system performance.

Continued...

Students' Diary

We have evaluated the proposed design using a system-level simulator and compared the performance against the existing algorithms. We have shown that the proposed design achieves significant improvement in the network capacity as compared to the state-of-the-art algorithms. Our proposed design has won the “**Best Paper Award Honourable Mention**” at the COMSNETS-2020 conference.



Pavan Kumar Reddy Manne

PhD Scholar, Department: Electrical Engineering

(Supervisor: Prof. Kiran Kumar Kuchi)

5G and IoT : The Emerging technologies...

5G and IoT plays are emerging technologies with huge traction from academia as well as industry. Wireless communication devices have exploded in numbers in the last two decades. Fifth-generation (5G) communication systems are envisioned to achieve a high data rate, provide enhanced coverage, enable higher spectral efficiency, achieve high energy efficiency, and ensure a long lifetime of all battery-operated nodes. In many situations, the ubiquitous deployment of wireless devices is hampered by battery limitations. Energy harvesting (EH) is a viable solution to this problem. Although it is possible to harvest energy from sunlight, vibration, and other natural sources, it is radio-frequency EH that is the most convenient option in many wireless applications. It was suggested that the same received signal can be used for both EH and information processing.

As practical EH circuitry is not capable of harvesting energy and processing information from the same signal, time-switching (TS) and power-splitting (PS) protocols were proposed for cooperative networks with an EH relay. Due to fading, the amount of energy harvested varies widely, thereby degrading the average performance of links with EH nodes. We suggest a framework where a supplementary battery augments energy harvested in the supercapacitor. Several new optimization problems arise. We show how the use of a small amount of battery energy can significantly improve the performance of links with EH users. We demonstrate that careful optimization of the EH parameter can significantly enhance throughput. For networks with a constant throughput requirement, we show how the amount of battery energy drawn and the EH parameter need to be carefully optimized as shown in Figure 1a. We show how to channel knowledge can lead to a significant saving of battery energy. We show how choosing the EH parameter based on channel knowledge can lead to higher throughput. We demonstrate that the

use of channel knowledge to determine energy drawn from the battery can lead to significant energy savings as shown in Figure 1b. The insights drawn as well as the optimizations performed are of significant importance to system designers.

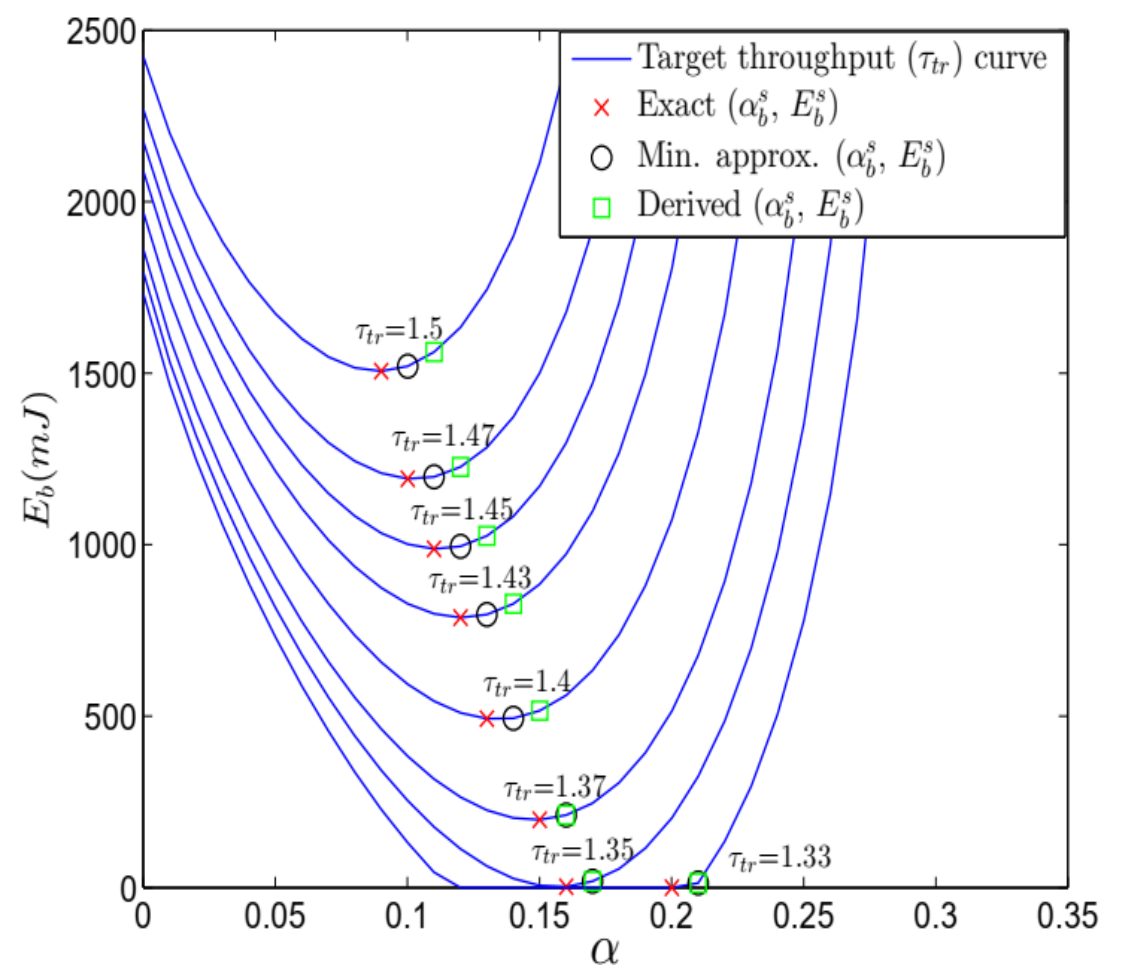


Fig. 9a Energy required vs. TSR parameter for target throughput requirement

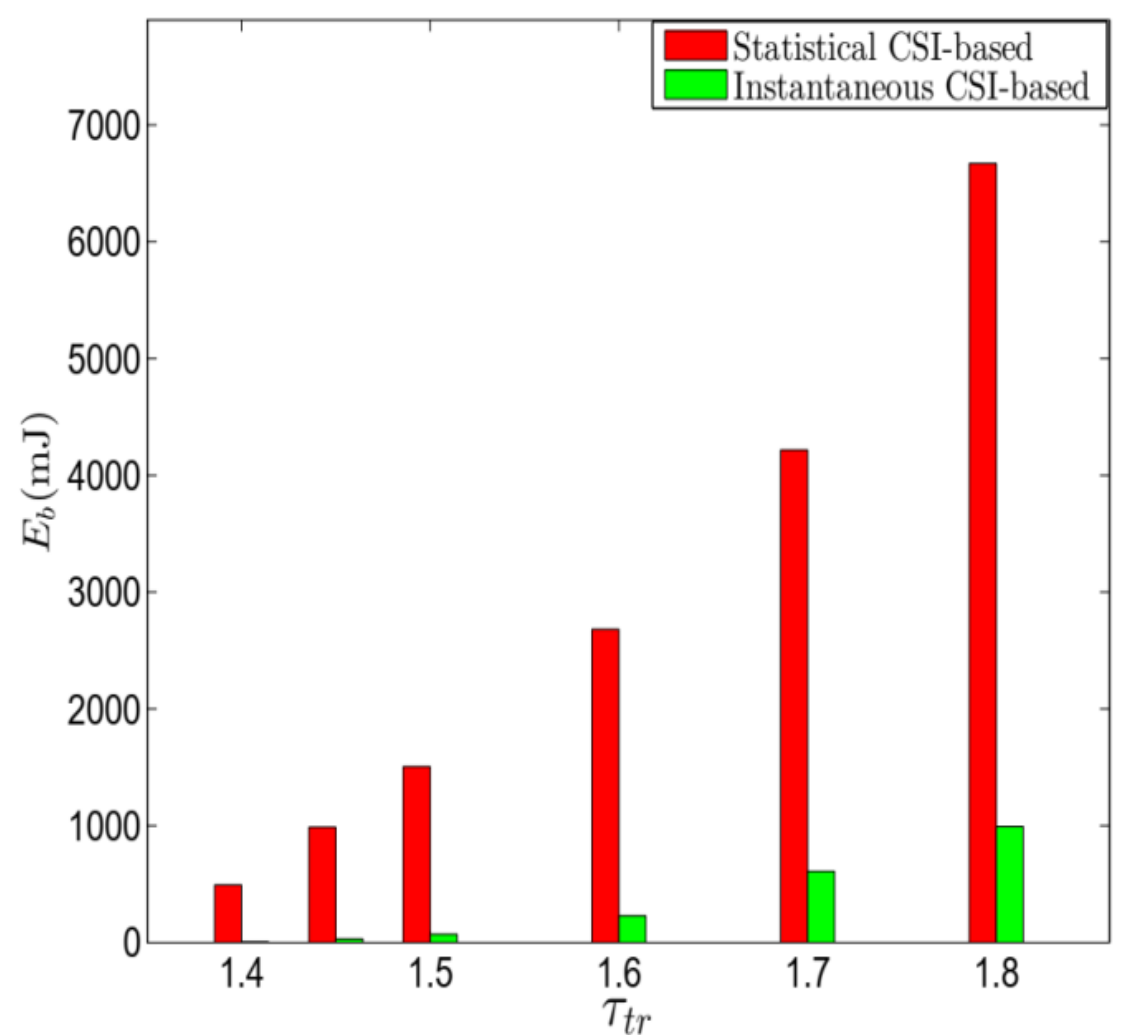


Fig. 9b Energy required vs. target throughput for statistical and instantaneous channel knowledge

Continued...

Alumni's Diary

Internet-of-things (IoT) aims to make the Internet ubiquitous and pervasive and has the potential to affect many aspects of users' quality of life. The networked heterogeneous devices connected in an IoT structure are typically equipped with sensors, controlling processors, wireless transceivers, and an energy source (e.g., a battery) to monitor their environment and send/receive data. Applications envisioned for IoT span a wide range of fields including home automation, healthcare, surveillance, transportation, smart environments, and many more. One of the dominant barriers to implementing such a grandiose scheme is supplying adequate energy to operate the network in a self-sufficient manner without compromising the quality of service (QoS). Therefore, it is imperative to improve the energy efficiency and longevity of devices in IoT. The IoT-based precision agriculture system is developed by our team at IIT Jammu on a pilot basis. It is a solar-powered energy harvesting-based IoT system for smart vegetation scenarios. The project includes the design, testing, and deployment of smart monitoring using multihop communication protocol among the devices.

The implementation procedures were shown in Fig. 10. The implementation consists of (i) Prototype design (ii) Field deployment (iii) Monitoring and control from a remote location. The prototype module is initially designed in our lab using Raspberry Pi with sensors of Humidity, temperature, moisture, etc. After initial trials, the prototype is deployed in the field along with energy harvesting recharging batteries. The sensors collect the data and upload it to the IoT cloud using internet connectivity. The uploaded data can be monitored from a remote central control room and mobile app as shown in Figure. Based on received data control action is implemented from a remote location for smart irrigation.

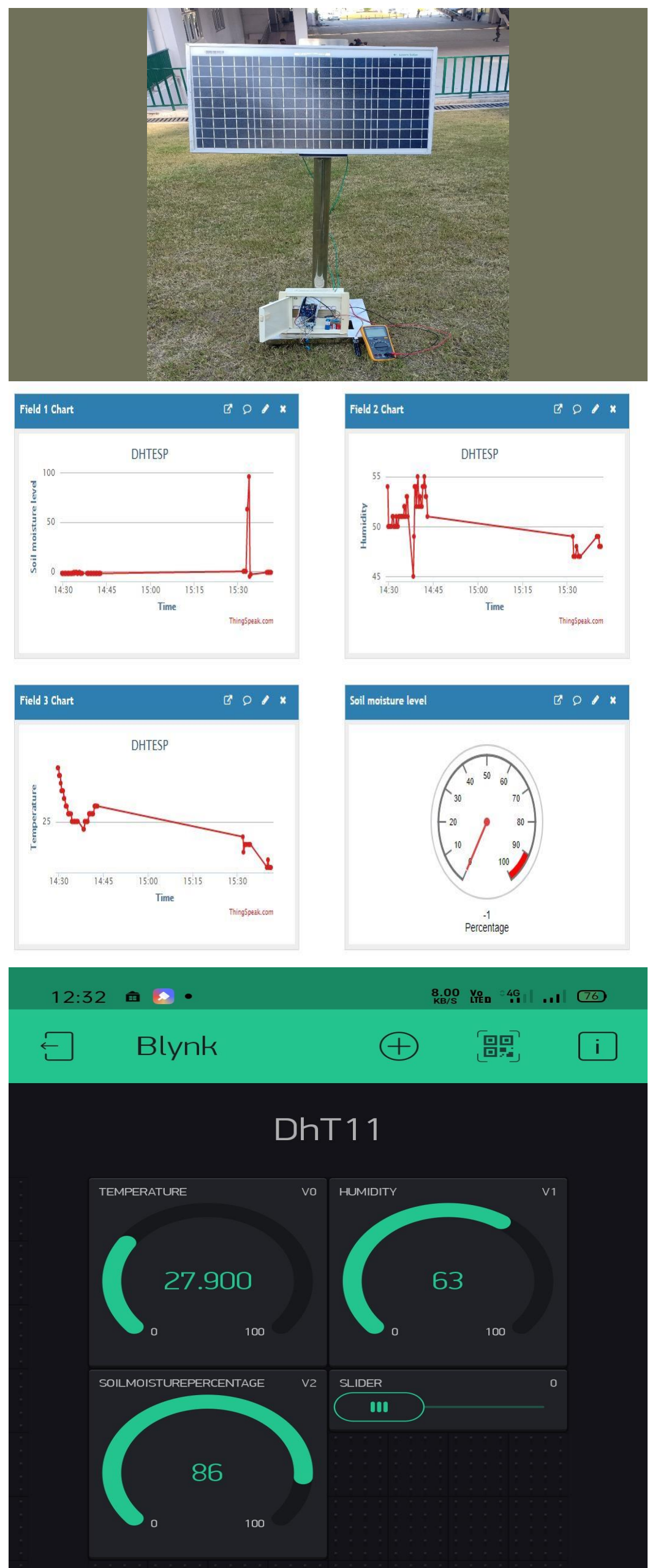


Fig. 10 Precision agriculture using IoT technology PC: Atul Banotra and Shashi Bhushan

Continued...

Our research lab has designed, deployed, tested, managed, and monitored smart agriculture and irrigation. The design can be further extended to various applications home automation, healthcare, surveillance, transportation, etc.



Fig. 11 HAM radio setup with VK Arya team

I am currently working as an assistant professor at IIT Jammu since June 2019. I am alumni of 2010-12 M. Tech. (Communication and signal processing, EE) batch. After IIT Hyderabad, I have completed my PhD from IIT Delhi between 2013-18. I worked as an assistant processor under TEQIP-III between Jan-Aug 2019 and in IIIT Dharwad Aug 2019-May 2020.

After clearing GATE, I have visited some of the institutes for M. Tech. admission. The location and faculty interaction at my visit are the

deciding factors for my admission to IIT Hyderabad. Wireless sensor networks are the most enjoyed subject as I have been involved in PCB board development and location transmission system with embedded boards. On the other part, Pattern recognition is the least as I was not able to understand theoretical content without hands-on experiments and assignments. The research guidance from my supervisor Dr. Soumya Jana has helped me in PhD as well as my job. His commitment to his students is invaluable.

Outings and Araku trip with my MTech batch mates are cherishable moments. Secondly, APJ Abdul Kalam sir visit IIT Hyderabad for interaction, and further offering a course. It is a memorable moment to see an ex-president teaching at IIT Hyderabad. As an IITian there is no need to worry about trivial things such as a job, stable income, etc. Give it a shot to make a significant contribution to your interest.

As a concluding remark, I just want to say that IIT Hyderabad is one of the premier institutes with the best faculties and research innovation environment. If you want to reach me, please mail me at: sudhakar.modem@gmail.com or modemsudhakar@gmail.com.



Dr. Sudhakar Modem

*MTech 2010-2012, Department:
Electrical Engineering
Assistant Professor, IIT Jammu*

i-TIC Incubator programs and events

AISEA

Closure & Culmination Ceremony of Cohort 2

AFI i-TIC Social Entrepreneurship Accelerator (AISEA) conducted the Closure & Culmination ceremony virtually of its Cohort 2 on February 19 & 20, 2021. The demo day showcased cohort startups and provided a platform to conduct one-to-one virtual meetings with investors, customers, and other stakeholders. The event saw participation from Dr. Navin Vashistha, Scientist F, DST, Prof B S Murty, Director IIT Hyderabad, Mr. Vikram Vupalla, CEO, Nephroplus, Mr. Manish Diwan, BIRAC, Mr. Vikram Gupta, Founder, IvyCap Ventures, and Mr. Arjun Vaid, CEO, Herbolab, various investors, customers, startup ecosystem enablers and stakeholders.



Fig. 12 Cohort 2 highlights

Hosted NMDC delegates for startup interaction

i-TIC team hosted NMDC Limited delegates and facilitated interaction with startups selected under the NICE program. NMDC Innovation and Incubation Centre (NICE) program aims to support 15 startups and 15 fellows working in the deep tech sector by providing them with co-working Space, infrastructure, financial aid, mentorship, IP support, access to events and conferences, and much more.

Certificate Course on Deeptech Entrepreneurship

A 5-day Certificate Course on Deeptech Entrepreneurship was organized jointly by the Dept. of Entrepreneurship and Management, IIT Hyderabad, and i-TIC Foundation IIT Hyderabad from March 22 to March 26, 2021.

The program was completely virtual and was focused to mentor the early-stage founders and aspiring entrepreneurs. The course was divided into lectures, interactions, workshops, panel discussions, etc., and saw the participation of more than 100+ people.

MENTOR POOL

 SHRIJAY SHETH CO-FOUNDER, LEGALWIZ.IN	 MEHUL SHAH PARTNER AT RASESH SHAH	 PRASHANT SINHA PROGRAM MANAGER, AMAZON I	
 PARMINDER SINGH CHIEF INFORMATION OFFICER, GUARDIAN LIFE - INDIA	 A S RAO INNOVATION CONSULTANT, DIRECTOR ACADEMICS, IFIA.	 VIIIVECK VERMA FOUNDER - UPSURGE GLOBAL & SENIOR ADVISOR AT TELANGANA STATE INNOVATION CELL	 ANAY MASHRUWALA PARTNER, HEAD MARKETING & QUALITY CONTROL AT M/S. VENUS ENGINEERING WORKS
 PROF THILLAI RAJAN PROFESSOR, IIT MADRAS	 DR GANESH M P ASSOCIATE PROFESSOR, DEPARTMENT OF LIBERAL ARTS	 RAMESH LOGNATHAN PROFESSOR, CO-INNOVATION/OUTREACH, IIT HYDERABAD.	 PRUTHA ATRE FOUNDER, INDIAN ACADEMY OF VENTURE CAPITAL

Continued...

Incubatee's Diary



Fig. 13 Mentors and speakers of Certificate Course on Deeptech Entrepreneurship



Mr. Keyur Punjani

Manager - Programs @ i-TIC
Incubator
IIT Hyderabad



Mr. Venu Rathore

Marketing Consultant
Company @i-TIC Foundation
IIT Hyderabad

Know about SKIoT

SKIoT Technologies Pvt. Ltd., incubated at iTIC, have developed an IoT-enabled 3-phase Power Monitoring solution for the industrial sector with real-time data visualization, analysis, and alerts. It measures 3-phase voltages and currents with help of non-invasive sensors and calculates different electrical parameters like power factor, active, reactive, apparent powers & energies, harmonic distortion, etc. These parameters along with the measured three-phase voltages and currents are transmitted over wifi to remote cloud servers for data storage and further analysis.

In India, the majority of Small & Medium Scale Industries are set up with older electrical infrastructure and thus can not take advantage of the recent IoT developments. The awareness about how IoT technology can be easily utilized is missing in most small-scale industries. In case of issues like capacitor bank failure, power factor disturbances, exceeding maximum demand, etc. many industries come to know of these only when the next electricity bill arrives. With the help of this IoT-enabled Power Monitoring

device, they facilitate this fault identification and alerting service to these industries.

They have recently procured a contract from AP State Energy Conservation Mission (APSECM) for deploying their devices in all the districts of Andhra Pradesh. Currently, the team consists of 5 members, including 3 founders. They come from a diverse background in embedded development, wireless communications, machine learning, data science, and electronics product development. In the last two months, they have deployed these devices at 40 industries across 8 districts of Andhra Pradesh, covering wide varieties of industries like fisheries, rice mills, food processing units, iron casting units, plastics, and packaging units.

SKIoT is incubated at i-TIC and has been supported by the NICE program. They have received support in terms of mentoring, co-working space for their team, and financial aid from the NICE program and HDFC startup grant.



Fig. 14 SKIoT Flagship Product an IoT-enabled 3-phase Power Monitoring solution for the industrial sector

Continued...



Mr. Akshay Jadhav

*CTO, SKIoT Technologies @i-TIC
Foundation
IIT Hyderabad*



Mr. Venu Rathore

*Marketing Consultant
Company @i-TIC Foundation
IIT Hyderabad*

Campus Corner

January 2021 updates...

MMEA Presents

AURUM
Guest Lecture Series

Topic
The exciting world at the bottom: Probing materials at small scale

- Prof. B. S. Murty has pioneered the field of non-equilibrium processing of materials by mechanical alloying and high entropy alloys.
- He graduated from IISc with M.E and PhD degrees in Metallurgy in 1988 and 1992, respectively.
- He has immensely contributed to the field of bulk metallic glasses, nanomaterials and AI based composites.
- He is the recipient of Shanti Swarup Bhatnagar Award and JC Bose fellowship award. He has been selected for the prestigious Indian Institute of Science (IISc) distinguished alumnus award for 2020

Prof. B. S. Murty
Director, IIT-Hyderabad

The inaugural talk of Mettle'21 "Aurum" Guest lecture series was delivered by Prof B S Murty on the topic "The exciting world at the bottom: Probing materials at small scale".

E-Cell, IIT Hyderabad's
E-SUMMIT'21
"A Pragmatic Advent"
22nd-24th January

Keynote Speakers

Jay Vijayan
Founder & CEO, Tekion Corp
Former CIO, Tesla Inc

Mohandas Pai
Padma Shri Recipient
Ex-Director, Infosys

T. N. Hari
HR Head, Big Basket
Angel Investor, Author
IITM IIMC Alumnus

Vaibhav Sisinty
Growth Strategist
Ex-Marketing Manager, Uber

Saurabh Mukherjea
Founder,
Marcellus Investment Managers

Anupam Gupta
Investment Research Consultant

Esummit2K21 at IIT Hyderabad one of the biggest Entrepreneurship Conclaves in India. Power talks & panel discussions by some of the most esteemed and experienced personalities of the field - ranging from entrepreneurs to influencers.



Social Distancing and Mask up, IIT Hyderabad and IIIT Raichur celebrated 72nd Republic Day in new normal with flag hosting followed by Cultural events.

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

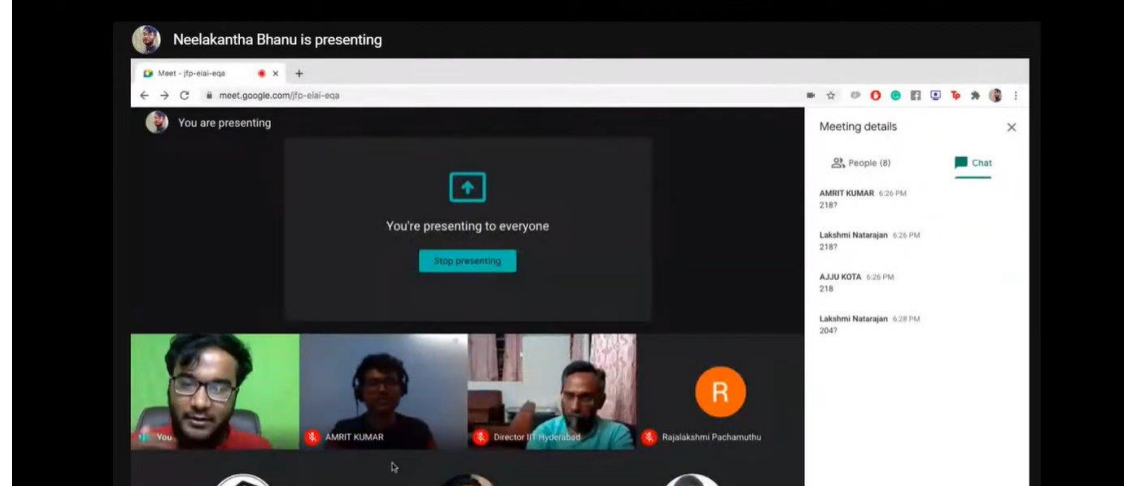
IIT Hyderabad pays tribute to Swami Vivekananda on the occasion of National Youth Day

*All Power is within you; you can do anything & everything.
Swami Vivekananda...*

A country's strength is defined by the success of its youth, IIT Hyderabad paid tribute to Swami Vivekananda on the occasion of National Youth Day.



Precast hostel block 'Ramanuja' inaugurated at IIT Hyderabad by Shri BVR Mohan Reddy Chairman BoG, IITH .



BBC described him as, "You could say Neelakantha Bhanu Prakash is to maths what Usain Bolt is to running. "World's Fastest Human Calculator" has delivered an EML lecture at IIT Hyderabad

Campus Corner

January 2021 updates...



IIT Hyderabad has signed an MoU with agri-supply chain startup WayCool Foods to develop antimicrobial food packaging material by using biopolymers.



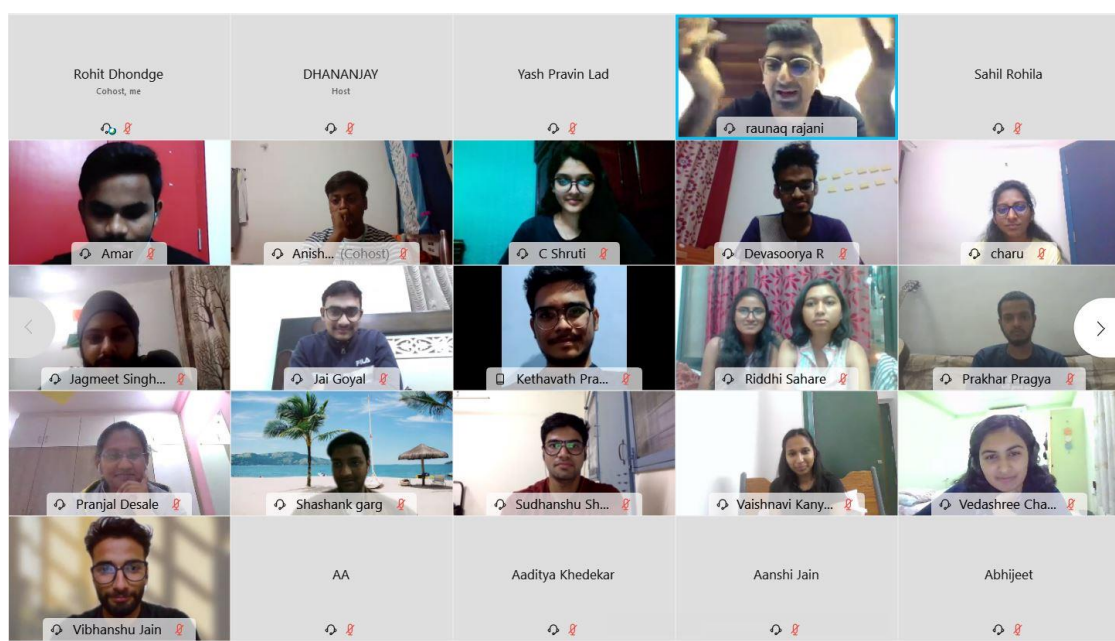
SPICMACAY IIT Hyderabad recently organized an interesting interactive session with Dr. Karan Singhji, a Padma Vibhushan Awardee on "The education system of India; the influence of poetry in the past and the present".



SPICMACAY IIT Hyderabad organized 3 days long "MINI VIRASAT 2021" Day1: Vidushi Kapila Venu presented, a Kudiyaattam performance.



IIT Hyderabad proud to announce its first 'Employee of the Month' award for Jan 2021 to Mr. GSL Raju for his outstanding contributions to the institute. Congratulations to Mr. Raju and wish him luck for his future endeavors.



Culturals at IIT Hyderabad organized Virtual Stand-Up by Raunaq Rajani, who recently appeared in Comicstaan season 2.



Student Gymkhana at IIT Hyderabad recently conducted sessions for the housekeeping staff and attendees on COVID-19 Awareness through the demonstration of various acts like the spread of the virus from one person to another while handshaking using the color stains on gloves.

Campus Corner

January 2021 updates...

IIT HYDERABAD
IIT Hyderabad is one among the 2nd generation of IITs started by the Government of India. The very foundation of IIT Hyderabad is based on research and innovation for the betterment of the scientific community.

The Department of Liberal Arts at IIT Hyderabad is a center for the study of a highly diverse range of subjects. Unique in its constitution and vision, this department strives to pursue excellence in teaching, encourage cutting-edge scholarships and cultivate a deeper understanding of humanity at large.

SHASTRI INDO-CANADIAN INSTITUTE
The Shastri Indo-Canadian Institute is a binational organization that promotes understanding between India and Canada through academic activities and exchanges.

SHASTRI PROGRAMME DEVELOPMENT GRANT
The Shastri Programme Development Grant is devised to encourage scholarly and professional academic activities with a view to contribute towards the expansion of knowledge about India and Canada at Indian and Canadian universities that are members of the Shastri Institute.

Resilience Program FOR STUDENTS
JANUARY 11-13, 2021
ORGANIZED BY: Department of Liberal Arts, Indian Institute of Technology Hyderabad, Kandi, Telangana 502285
Funded by the Shastri Indo-Canadian Institute

DEADLINE EXTENDED

Participants interested in the program and/or competitions are requested to fill up the registration form on or before **January 5, 2021**.

Register Here: https://docs.google.com/forms/d/1UKh5WmYg9PWQ3oGs_xOZpi9oCeYF4huXhVHim-15fdA/edit?gxids=7757

For any queries email us at: resilienceprogram2021@gmail.com

IIT Hyderabad has organized a 3-day "Resilience prog for students in higher education in India from 11-13 Jan 2021, with the support from SICI under its SPDG program.

#BWwbinar

WEDNESDAY WISDOM
UNIVERSITY OF THE FUTURE

JAN 27, 2021
2.00 PM - 2.45 PM

REGISTER NOW

SUPER SPEAKERS

Prof B S Murty
Director
IIT Hyderabad

Dr Annurag Batra
Chairman & Editor-in-Chief
BW Businessworld & exchange4media Group

Presenting Partners: BW EDUCATION, BW BUSINESSWORLD
Organized by: BW BUSINESSWORLD
LIVE ON: BW, zoom, Facebook, Twitter

Prof. B. S. Murty, Director, IIT Hyderabad shared his valuable thoughts on "Future of Higher Education" for BW World.

TiHAN-IIT Hyderabad NextGen Autonomous Navigation
i-TIC Foundation IIT Hyderabad

TiHAN-iTIC IITH PROGRAM

Incubation Support for "Autonomous Navigation for UAVs"

Deadline: 31st Jan 2021
Apply now: i-tic.iith.ac.in

DST NM-ICPS Technology Innovation Hub on Autonomous Navigation and Data Acquisition Systems (TiHAN) and i-TIC IIT Hyderabad jointly invites innovative Deep Tech Business Ideas or Prototypes on Autonomous Navigation and Data Acquisition Systems for UAVs

Program Details
• 2 Year Program
• Grant up to ₹ 20 Lakh*
• Workshops & Seminars
• Mentorship by IITH

Eligibility
• Citizen of India
• Graduation Degree in Engineering
• Definite proof of concept required
• Individuals or Private Limited Companies may apply

Contact: e-mail: office.itic@iith.ac.in Ph: 040-2301 6169

TiHAN & i-TIC Foundation, IIT Hyderabad has invited innovative Deep Tech Business Ideas/Prototypes on Autonomous Navigation & Data Acquisition Systems for UAVs which will be supported by the funding up to 20 L.

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

IIT Hyderabad
inked an MoU with
ESIC Medical College and Hospital, Hyderabad

to foster and further academic and research collaborations, faculty exchange and teaching programmes for the betterment of the Healthcare sector.

#Happy Alliances

IIT Hyderabad inked an MoU with ESICHQ Medical College and Hospital, Hyderabad to foster and further academic and research collaborations, faculty exchange and teaching programs for the betterment of the Healthcare sector.

February 2021 updates...

IIT Hyderabad & IIT Madras
inked a Memorandum of Understanding
to further
Academic and Research Collaborations

#Happy Alliances

Precast hostel block 'Ramanuja' inaugurated at IIT Hyderabad by Shri BVR Mohan Reddy Chairman BoG, IITH.

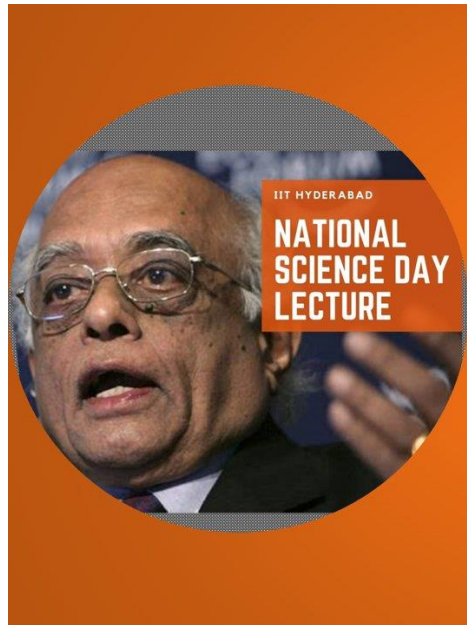
IIT Hyderabad
made pact with
IIIT Sonepat
to have joint research and exchange of students & staffs

#Happy Alliances

BBC described him as, "You could say Neelakantha Bhanu Prakash is to maths what Usain Bolt is to running. "World's Fastest Human Calculator" has delivered an EML lecture at IIT Hyderabad

Campus Corner

February 2021 updates...



Dr. Rajagopala Chidambaram

Padma Shri, Padma Vibhushan recipient
Former Principal Scientific Advisor to the Government of India

TITLE
THE IMPORTANCE OF BASIC RESEARCH

28 February 11 AM

<https://iith.webex.com/meet/director>
https://youtu.be/MTPC2_u0AuE



IIT Hyderabad celebrating National Science Day with a special lecture by Dr. R. Chidambaram (a famous physicist and the brain behind the many recent nuclear programs of the country) on 28 Feb 2021.

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad
#Fight against Corona

IIT HYDERABAD

Researchers predicted the Lifetime of SARS-COV-2 Droplets in Different Environmental Conditions

A schematic showing the saliva droplet on a surface. The arrows represent the evaporation.

Dr. Saravanan Balusamy

Dr. Sayak Banerjee

Prof. Kirti Chandra Sahu

IIT Hyderabad's Researchers predicted the lifetime of SARS-COV-2 droplets in different environmental conditions. Under same environmental conditions, the drying time for droplets on a smartphone screen is 3 times longer than that on a normal glass surface.



IIT Hyderabad announced 'Employee of the Month' for Feb 2021 to Mr. Palle Mohan Kumar for his outstanding contributions to the institute.



Director, Registrar & Staff IIT Hyderabad attended the inaugural address by Hon'ble PM Shri Narendra Modi Ji on Harnessing Education, Research & Skill Development for an Atmanirbhar Bharat.



IIT Hyderabad Green Campus Steps towards making greener estate & environment to reduce IITH's carbon footprint.

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

किरIITH

the crowning glory

A quarterly e-newsletter of IITH | Issue - 5 | Jan 2021

Prof. B.S. Murty (L), Director, IIT Hyderabad, during the MoU signing with Prof. Kazuhito Washimura, President, National Institute for Materials Science, Japan.

The fifth issue of KirIITH is a testament to the vibrant and fruitful association of IIT Hyderabad and Japan. It is a proud celebration, and hence we fittingly named this edition as "IITHJapanConnect"

Campus Corner

March 2021 updates...



For better networking & well-being of Women & Children at IIT Hyderabad, a women association had an inaugural event International Women's Day.



First Edition of YEARBOOK. This yearbook records the various activities held at our college & is a collection of the amazing memories which we wish to cherish even years after they graduate.

TEDx
IITHyderabad

Let's
Play
Unsafe

MEET OUR SPEAKERS

MARCH 21, 2021 10:00 to 16:30



It's time to stop playing safe, "Let's play Unsafe". Theme of TEDx, Organized at IIT Hyderabad.

Live for an EML Lecture at IIT Hyderabad by Dr. Gagandeep Kang "India's vaccine godmother" talking about "life as a scientist, her experiences & work" was organized.

SPICMACAY at IIT Hyderabad Screened the movie 'Mathilukal' on Mar 20, 2021, followed by an interaction with Padma Vibhushan ADOOR GOPALAKRISHNAN JI, 16 times National Film Award Winner.

IIT Hyderabad, Department of E & M in collaboration with BusinessDesign Lab offers a unique Certificate program on 'Business Model Innovation'.

Campus Corner

March 2021 updates...

SEMICONDUCTOR STARTUP INCUBATION & ACCELERATION PROGRAM

FabCi at IIT Hyderabad, in collaboration with NXP & MeitY, has launched Semiconductor Startup Incubation & Acceleration Program.

Mr. LARS REGER
Executive Vice President & CTO
NXP Semiconductors

Mr. SANJAY GUPTA
Vice President & India Country Manager
NXP Semiconductors

Prof. B.S. MURTY
Director
Indian Institute of Technology
Hyderabad

Shri. AJAY SAWHNEY
Secretary - Ministry of Electronics
& Information Technology (MeitY)
Govt. of India

IIT Hyderabad
&
Deakin University, Australia
ink an agreement for
Joint Doctoral Program

IIT Hyderabad inked an agreement with Deakin University, Australia, to offer Joint Doctoral Program.

#Happy Alliances

Solo classical dance & singing competitions were held in Elan Celebrations.

IIT Hyderabad feels proud to announce its 'Employee of the Month' award for March 2021 to Ms. S. V. Sreedevi for her outstanding contributions to the institute.

A step towards making greener estate and reduce IITH's carbon footprint on Green Day Mar 21.

To uplift the spirits of students and all other IITH fraternities staying on campus Sunshine had organized an event "Slow Cycle Race"

Campus Corner

March 2021 updates...



Comedy night was organized with one of the most celebrated comedian, Zakir Khan. Independent rock band from Chandigarh, Naalayak performed at Elan Campus Events.

IITH - SUT call for Joint Doctoral Program Admissions 2021

IITH-SUT Joint Doctoral Program (JDP)
IITH and SUT are offering a joint doctoral program for bright and motivated students to work on frontier areas of science and technology. The students admitted in the JDP will have an opportunity to spend up to one year at SUT supported by scholarship from SUT.

Fellowship Duration: 4 years

Eligibility:

- BE/BTech in the relevant branches of science/engineering with a CGPA of 8.5 (in 10-point scale) or equivalent for the general category (relaxation will be given for other categories as per the GoI norms). The applicants should have a valid GATE score. The GATE score may be waived for students from IITs and NITs.
- MDes/MSc/MTech in the relevant branch of design/science/engineering with a CGPA of 8.5 (in 10-point scale) or equivalent for the general category (relaxation will be given for other categories as per the GoI norms).

Financial Assistance:
The students admitted in the JDP will receive a fellowship as per the Ministry of Education norms while at IIT Hyderabad. In addition, students may receive a top-up scholarship amount while they are at IIT Hyderabad. While at SUT, they will receive a scholarship identical to the Swinburne University Postgraduate Research Awards (SUPRAs).

Application Procedures:

- Download the application form from: https://www.iith.ac.in/our/assets/files/IITH_SUT_Application_Form-26-03-2021.pdf
- Complete the application form in all respects.
- Forward the completed form along with all documents and testimonials to: jdp.iar@iith.ac.in on or before **15.04.2021, 17:00 IST**.

Why IITH???

- Unique Academic System and Up-to-date Curriculum
- Best-in-class Research Facilities & State-of-the-art Infrastructure
- Eminent and Research-Oriented Faculty
- Consistent High ranking in NIRF (89) & QS World Ranking (107) in the country
- Strong Global Presence, Collaborations with top companies and universities
- All-round development through clubs and societies
- Top-notch Hostels with 24x7 Medical assistance
- Excellent and ever-improving Placements Record with Dedicated Team for Career Development and Professional growth
- Budding Start-up Ecosystem
- Availability of various Minor programs to supplement students' career and curiosity
- Good connectivity to Hyderabad, bustling IT Hub

Why SUT???

- An internationally recognised university
- Real-world industry connections and experiences
- High quality research and teaching
- Cutting-edge facilities that enhance learning
- Flexible study options available
- Ranked as the 61st top university in the world under 50 years old by Times Higher Education in their top 150 universities under 50 years old ranking.
- Also, ranked 32nd in the world for art and design in the 2016 QS World University Rankings, making it one of the top art and design schools in Australia and the world.

Click here for SUT Website: <https://www.swinburne.edu.au/>

IIT Hyderabad along with Swinburne University of Technology invited application for Joint Doctoral Program Admissions 2021.

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

**IIT HYDERABAD
Ph.D. ADMISSIONS 2021**

16 MARCH 2021 to 07 APRIL 2021
More details: <https://www.iith.ac.in/academics/phd>

IIT Hyderabad called applications for PhD, Interdisciplinary PhD & MTech, Admission, 2021.

संस्कृतम्
IIT HYDERABAD
संस्कृतभारती

समारंभ समारोहः

We are pleased to share the inauguration of **CA1048 Samskritam: Sambhashana Praveshah**, a credited course in IITH, in presence of-

Prof. BS Murty, Director, IIT Hyderabad
Sri.DSN Murthy, CMD, Samvaad Infotech Pvt Ltd
Dr. P Nanda Kumar, International Coordinator, Samskrita Bharati.
Brahmashri Narendra Kapre, President, Samskrita Bharati, Telangana.

IIT Hyderabad, in association with Samskrita Bharati Telangana, has started offering a unique 1-credit beginner-level spoken samskritam course, "Samskritam: Sambhashana Praveshah".

Fellowship for International Research Scholars in Technology at IIT Hyderabad (FIRST@IITH)
www.iith.ac.in/our/assets/files/FIRST@IITH

IIT Hyderabad announces FIRST scheme for supporting bright and motivated international research scholars for pursuing PhD at IIT Hyderabad with full financial support.

Minimum Eligibility
Foreign nationals with excellent academic qualifications having a master's degree in engineering/technology in the relevant disciplines and a minimum CGPA of 8.5 (on a 10 point scale or equivalent).

Desirable
degree from a topline university in their respective countries. Research output in terms of publications/patents will be given a weightage during shortlisting.

Selection process
Shortlisting followed by online interview

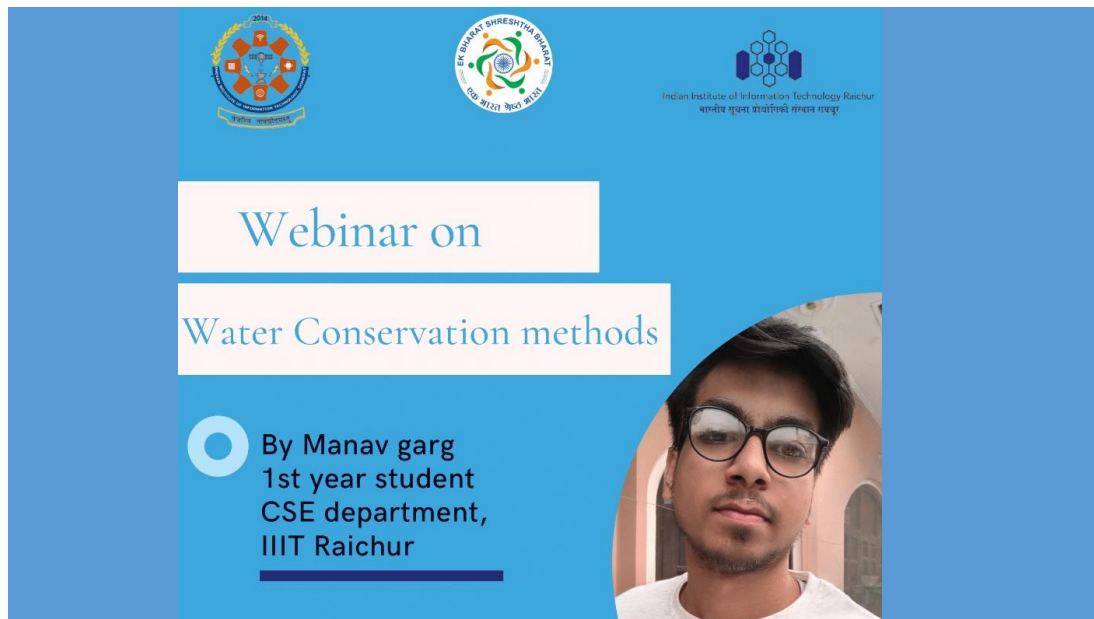
Areas of intake (Please refer to the website of the individual departments for further details)

- Artificial Intelligence
- Biomedical Engineering
- Biotechnology
- Chemical Engineering
- Climate Change
- Civil Engineering
- Computer Science & Engineering
- Electrical Engineering
- Materials Science & Metallurgical Engineering
- Mechanical & Aerospace Engineering

IIT Hyderabad announced Fellowship for International Research Scholars in Technology (FIRST) scheme for supporting bright and motivated international research scholars for pursuing PhD at IIT Hyderabad with full financial support.

Campus Corner

IIIT Raichur Jan - Mar, 2021 updates...



Webinar on
Water Conservation methods

By Manav garg
1st year student
CSE department,
IIIT Raichur

The image shows a promotional poster for a webinar. It features the logos of IIIT Raichur, the Ministry of Education, and the Jal Shakti Abhiyan. The text is in white and blue on a blue background. A circular inset shows a portrait of Manav garg.

In order to promote Jal Shakti Abhiyan under EBSB Club, IIIT Raichur organized a webinar on learning the water conservation techniques used in the kaleshwaram project.



Welcome To
IIIT Raichur
Dr. Ramesh k. Jallu

IIIT Raichur welcomes its first faculty Dr. Ramesh K. Jallu. He completed his Ph.D. from IIT Guwahati, Mtech from NITK Surathkal, and MSc. from Andhra University. He was a postdoctoral fellow at the Institute of Computer Science of The Czech Academy of Sciences, Czech Republic.

For more information about his research interests and research and teaching experience please visit <http://iiitr.ac.in/cse/jallu>

The image shows a promotional poster for a new faculty member. It features the IIIT Raichur logo and a circular inset showing a portrait of Dr. Ramesh K. Jallu. The background is orange and white.

IIIT Raichur welcomes its first faculty Dr. Ramesh K. Jallu.



IIIT Raichur
Welcomes
Dr. Sadhana Jha
Assistant Professor
Department of Computer Science and Engineering

For more information about her research interests and teaching experience please visit: <https://iiitr.ac.in/cse/sadhana.html>

The image shows a promotional poster for a new faculty member. It features the IIIT Raichur logo and a circular inset showing a portrait of Dr. Sadhana Jha. The background is orange and white.

IIIT Raichur is pleased to welcome & introduce Dr. Sadhana Jha, Assistant Professor, Department of Computer Science and Engineering.

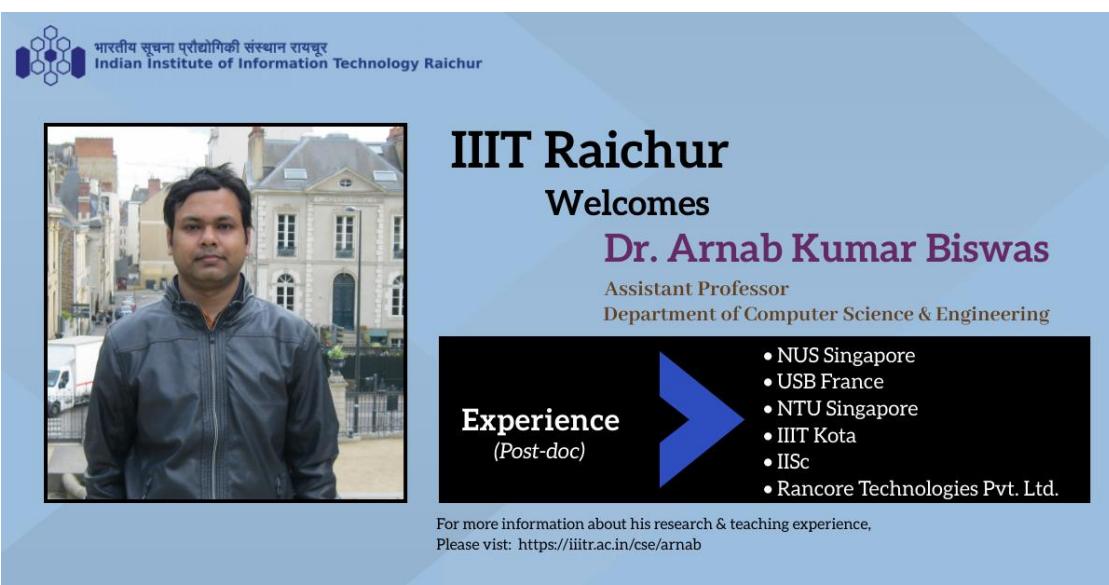


IIIT Raichur
Welcomes
Dr. Alka
Assistant Professor
Department of Mathematics

For more information about her research interests and teaching experience, please visit: <https://iiitr.ac.in/math/alka.html>

The image shows a promotional poster for a new faculty member. It features the IIIT Raichur logo and a circular inset showing a portrait of Dr. Alka. The background is orange and white.

IIIT Raichur is pleased to welcome & introduce Dr. Alka, Assistant Professor, Department of Mathematics



IIIT Raichur
Welcomes
Dr. Arnab Kumar Biswas
Assistant Professor
Department of Computer Science & Engineering

Experience
(Post-doc)

- NUS Singapore
- USB France
- NTU Singapore
- IIIT Kota
- IISc
- Rancore Technologies Pvt. Ltd.

For more information about his research & teaching experience, Please visit: <https://iiitr.ac.in/cse/arnab>

The image shows a promotional poster for a new faculty member. It features the IIIT Raichur logo, a circular inset showing a portrait of Dr. Arnab Kumar Biswas, and a list of his previous institutions. The background is blue and white.

IIIT Raichur is pleased to welcome & introduce Dr. Arnab Kumar Biswas, Assistant Professor, Department of Computer Science and Engineering.

Deakin varsity, IITH tie up for doctoral prog

GACHIBOWLI

DEAKIN University (Deakin) and IIT Hyderabad (IITH) first signed an agreement for research collaborations in 2015, and since then, the association has only grown stronger. IITH is a partner in the Deakin-IITM, Centre of Excellence on Advanced Materials and Manufacturing (CoE). Established in 1974, Deakin University is one of Australia's leading tertiary education providers and is ranked in the top 1% of world universities (ARWU). It has won numerous awards and teaches over 60,000 students each year offering students world-class programs and endless opportunities.

The two institutions have forged a very strong partnership in this domain through the CoE. The Joint Doctoral Program (JDP) will be offered in a wide range of subjects/disciplines, including Materials and Smart Manufacturing; Affordable Healthcare; Food, Environment, and Agriculture; Artificial Intelligence; Machine Learning and Data Science; Cyber-Physical Systems; Infrastructure and Energy.

The agreement was signed in a virtual event by Alfred Deakin Professor Julie Owens (Acting Vice-Chancellor, Deakin), and Prof BS Murty, Director, IITH, in the presence of Prof Pinaki Prasad Bhattacharjee (Dean, International and Alumni Relations), Prof Saptarshi Majumdar (Dean, Academics) from IITH, Prof Basu Baskaran (Pro-Vice-Chancellor, Research), Professor Peter Hodgson, Barwell-Pesha (Global Vice President and CEO, S Asia), and Kopal Chaube Datta from Deakin University,



along with other officials from both institutions.

Successful candidates will spend between 3-12 months at Deakin depending upon the research requirements. IITH will provide the regular PhD fellowship to the students during their stay at IITH and when the students travel to Deakin, they will get a stipend, paid fortnightly, to increase the total equivalent stipend to \$A28,600 per annum. In addition to the above, Deakin

will provide a full tuition fee waiver for up to 4 years and a top-up stipend of \$A150 per month for 3 years while they are at IITH.

Prof BS Murty, Director, IITH, said, "Through this MoU, both IITH and Deakin will explore new avenues in the field of teaching and research through synergy to scale newer heights of excellence and will prove to be a winning quotient for the benefit of the society at large."

Successful candidates will spend between 3-12 months at Deakin depending upon the research requirements. IITH will provide the regular PhD fellowship to the students during their stay at IITH and when the students travel to Deakin, they will get a stipend

ఎయిర్ మీట్ లో 'ఎలాన్' వేడుకలు



మ్యూజికల్ పాల్సాన్స్ సుహానీ షా

- రెండో రోజు 7 అంశాలపై పోటీ
- ఫ్యాన్ ట్యాంక్ లో ఉత్తమ అలోచనకు రూ.3 వేల బహుమతి
- డ్యాన్స్ పోటీల్లో గెలుపొందిన వారికి రూ.15 వేల నగదు పురస్కారం

ద్వారా నిర్వహించారు. ఆనందం కాల్పకము నిర్వహణ సంస్థ అయిన ఎల్ అండ్ బి ఇండస్ట్రీయల్ విజిల్ కేసు సంస్థ చేస్తున్న కార్యక్రమాలపై సంస్థ డిజిటల్ హెడ్ సుజాతా, మేనేజర్ సుజాతా మహాపతి వివరించారు. మధ్యాహ్నం 2-3 గంటల వరకు ఇన్ ఫర్మర్ క్లిక్ హాట్ నెట్ నిర్వహించారు. ఇందులో విద్యార్థులకు వివిధ అంశాలపై క్లిక్ పోటీలు కొనసాగాయి. ఫ్యాన్ ట్యాంక్ పోటీలో కొత్త ఎంటర్ ప్రెనెయర్స్ స్టాండుండుకు ఉత్తమ అలోచనను విద్యార్థులు ద్వారా ఇంటి హైదరాబాద్ ఎంటర్ ప్రెనెయర్స్ పోటీలలో ఎంపీ.గజేట్ ఆఫీస్ ద్వారా నిర్వహించి ఉత్తమ అలోచనను అందించిన వారికి రూ.3వేల నగదు పురస్కారం అందించనున్నారు. వీటితోపాటు సోషల్ కాల్, హానీవెల్ వెమినారిటీ బాగంగా వ్యక్తులు విద్యార్థులతో పలు అంశాలను చర్చించారు.

మ్యూజికల్, డ్యాన్స్ పోటీలు.. యూత్ ఫోర్ ఇన్ ట్రాక్స్

ప్రముఖ మెజిషియన్ సుహానీ షాతో సాయంత్రం 5.30 నుంచి 8.30 వరకు నిర్వహించిన మ్యూజికల్ ఈవెంట్ అందరినీ ఆకట్టుకున్నది. కార్యక్రమంలో దినదినా ప్రముఖ నటి శ్రీయ పిల్లినేటితో విద్యార్థులు దీక్షించి ఆదిపాదు. కార్యక్రమంలో వివిధ ప్రజా ప్రాంత బాగంగా ప్రత్యేకంగా డ్యాన్స్ పోటీలను నిర్వహించారు. ఇందులో గెలుపొందిన వారికి దినదినా రూ.15వేల నగదు పురస్కారాన్ని అందించనున్నట్లు విద్యార్థులు తెలిపారు.



ఆన్ లైన్ డ్యాన్స్ పోటీల్లో పాల్సాన్స్ విద్యార్థులు మాట్లాడుతున్న ఎలాన్ స్టాన్డర్డ్ ఎల్ అండ్ బి డిజిటల్ హెడ్ సుజాతా వద్ద



IIT-H student wins HPCL's young scientist award

STATE BUREAU Sangareddy

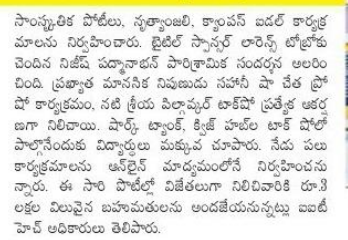
Alok Pandey, a student of Department of Chemical Engineering, Indian Institute of Technology-Hyderabad, has been selected for the Hindustan Petroleum Chemicals Limited (HPCL) New Generation Ideation Contest-2020. Pandey will get Rs one lakh cash prize.

Out of the 356 entries HPCL received, nine young scientists from across the nation were presented awards after evaluating the proposed projects. The project, Pencil Lead as a Graphite-Silica composite anode for high-performance Lithium-ion Batteries, was chosen for this award. The same project was selected for INAE (Indian National Academy of Engineering) best innovative project award for the year 2020 for Undergraduate category. Dr Mamidi Suresh, a post-doctoral researcher, is a member of the project. Alok Pandey worked under the supervision of Prof Chandrashekar Sharma, Associate Professor at Department of Chemical Engineering.

ఐఐఐఐఐఐలో 'ఎలాన్.. ఎన్ విజన్'

- ఆన్ లైన్ వేదికగా సాంస్కృతిక వ్యక్తిత్వ పోటీలు
- ఇంటి నుంచే విద్యార్థుల ప్రదర్శనలు

కంది, మార్చి 12: సాంస్కృతిక కల్పన కాలంలోని ఐఐఐఐఐఐలో ఐఐఐఐఐఐ కలర్ ఫుల్ 'ఎలాన్.. ఎన్ విజన్' పోటీలు ప్రారంభమయ్యాయి. ఐఐఐఐఐఐలో ఐఐఐఐఐఐ కలర్ ఫుల్ 'ఎలాన్.. ఎన్ విజన్' పోటీలు ప్రారంభమయ్యాయి. ఐఐఐఐఐఐలో ఐఐఐఐఐఐ కలర్ ఫుల్ 'ఎలాన్.. ఎన్ విజన్' పోటీలు ప్రారంభమయ్యాయి. ఐఐఐఐఐఐలో ఐఐఐఐఐఐ కలర్ ఫుల్ 'ఎలాన్.. ఎన్ విజన్' పోటీలు ప్రారంభమయ్యాయి.



ఆన్ లైన్ వేదికగా ఇంటి నుంచే విద్యార్థులు వ్యక్తిత్వ పోటీల్లో పాల్గొంటున్న ఐఐఐఐఐఐ విద్యార్థులు

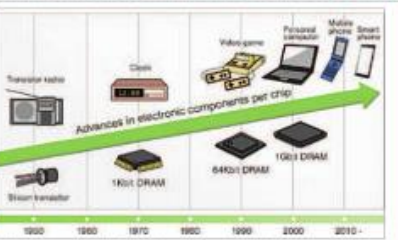
Sat, 13 March 2021
<https://epaper.andhrarajjyothy.com/c/59050947>

IIT-H JOINS INITIATIVE FOR IP DESIGN START-UPS

Up to 5 start-ups will be incubated for a period of two years in each cohort

HANS NEWS SERVICE KANDI

A unique 'Semiconductor Startup Incubation and Acceleration Program' is being launched by the collaboration of Indian Institute of Technology-Hyderabad, Ministry of Electronics and IT (MeitY) and NXP India. The programme aims to locate, facilitate, and mentor semiconductor and IP design start-ups in India in both, technological as well as business aspects. As many as five promising start-ups will be incubated for a period of two years in each cohort every year. The participants will include Semiconductor Chip Design, IP Design, Design Services startups with an IP focus and Chip Design Tool related start-ups. NXP India is among the biggest R&D centres for NXP Semiconductors and a world leader in secure connectivity solutions for embedded applications. Highlighting the uniqueness of the FabCI, BS Murty, Director of IITH, said, "The endeavours carried out by IIT Hyderabad under the aegis of MeitY to set up Fabless chip design Incubator (FabCI) are a building block of this program.



FabCI is a unique incubator that provides free access to highly expensive EDA tools and prototyping, apart from the basic infrastructure. The local hardware designing and manufacturing of products will strengthen the core technology-driven system pillar vision of Aamrith Bharat and in turn boost India's economy, generate employment, and enhance India's position globally in the electronics industry by moving up in the value-chain, the statement said. Lars Reger, Executive Vice President and Chief Technology Officer, NXP Semiconductors, said, "The next decade will be all about creating a world that anticipates and automates with smart connected systems around us. All of that will lead into making the planet a better world to live in and fun to innovate in. These smart connected systems have a core semiconductor technology. In that context, I see the Semiconductor Startup Incubation and Acceleration program can bring the core impetus to the strengthening of fabless semiconductor design in India and I am very excited and looking forward to seeing the outcomes with this programme." Ajay Sawhney, Secretary, Ministry of Electronics and Information Technology (MeitY), said that it is a significant step as India is poised to increase its share in innovation-driven global manufacturing of mobile phones, IT hardware, automotive, industrial and medical electronics, IoT and other devices.

Lars Reger, CTO, NXP Semiconductors, says, "The next decade will be all about creating a world that anticipates and automates with smart connected systems around us. All of that will lead into making the planet a better world to live in and fun to innovate in"

Moments of Pride

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

#Moment of Pride

IIT HYDERABAD
Congratulates

Prof. Pinaki Prasad Bhattacharjee
for being chosen for the prestigious
**JSPS Invitational Fellowships for
Research in Japan for FY2021**



Prof. Pinaki Prasad Bhattacharjee
Department of Materials Science And
Metallurgical Engineering

**Professor Pinaki Prasad Bhattacharjee,
Department of Materials Science and Metallurgical
Engineering**

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

#Moment of Pride

IIT HYDERABAD
Congratulates

Prof. S. Suriya Prakash for being
chosen for "**Young Scientist for the
year 2020**" by Indian Concrete
Institute



Dr. S. Suriya Prakash
Head and Professor
Department of Civil Engineering

**Professor S. Suriya Prakash,
HOD, Civil Engineering Department.**

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

#Moment of Pride

IIT HYDERABAD
Congratulates

**Mr. Vamsi Navya Krishna M and
Prof. Sireesh Saride**

for getting the best paper award in the soil
behaviour category and characterization of the
ground at **Indian Geotechnical Conference, 2020.**





Mr. Vamsi Navya
Krishna M Prof. Sireesh Saride

**Mr. Vamsi Navya Krishna M & Prof. Sireesh Saride,
Department of Civil Engineering**

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

#Moment of Pride

IIT Hyderabad
Congratulates...

Dr. Gunjan Mehta,
Assistant Professor, Dept. of Biotechnology

for being awarded

**"Har-Govind Khorana Innovative Young
Biotechnologist Award 2020"**

by Department of Biotechnology,
Ministry of Science & Technology,
Government of India



**Dr. Gunjan Mehta,
Assistant Professor, Department of Biotechnology .**

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

MOMENT OF PRIDE

IIT HYDERABAD
Congratulates...

Mr. Santhosh Krishnamurthy
for getting the
Poster Award 2021
at the 41st International Hirschegg
Workshop on Physics.



**Mr. Santhosh Krishnamurthy, PhD student
Working under the supervision of Dr. Bhuvanesh
Ramakrishna, Department of Physics.**

भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

#MomentofPride

IIT HYDERABAD
Congratulates...

Mr. Somesh Kumar Sahoo
(PhD Scholar, Dept. of Physics)

for being awarded

**NIMS International Cooperative Graduate Program
(ICGP) fellowship**

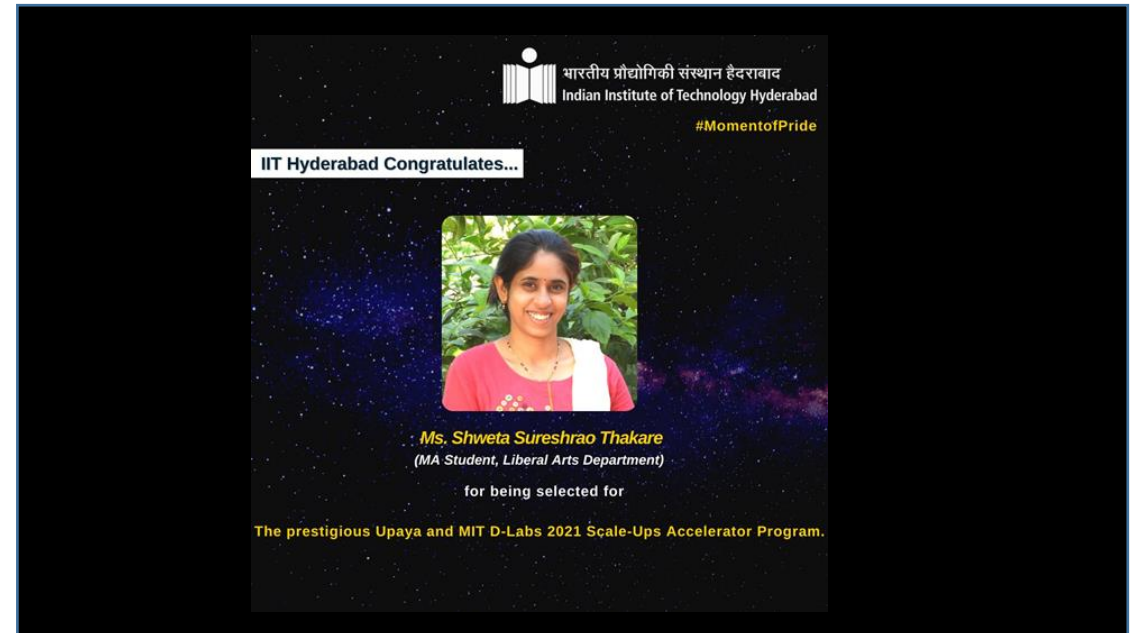


**Mr. Santhosh Krishnamurthy, PhD student
Working under the supervision of Dr. Bhuvanesh
Ramakrishna, Department of Physics.**

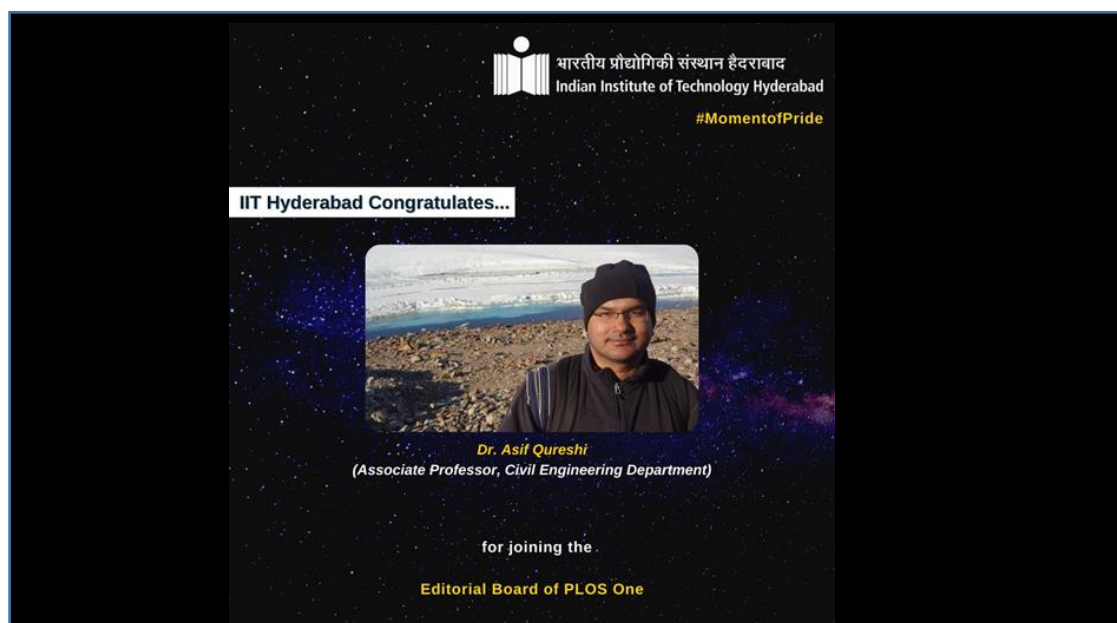
Moments of Pride



Mr. Brijesh Singh Yadav, PhD Scholar working under Prof. Suhash Ranjan Dey (MSME) & Mr. P. Narasimha, PhD Scholar working under Anamika Research Group (BT)



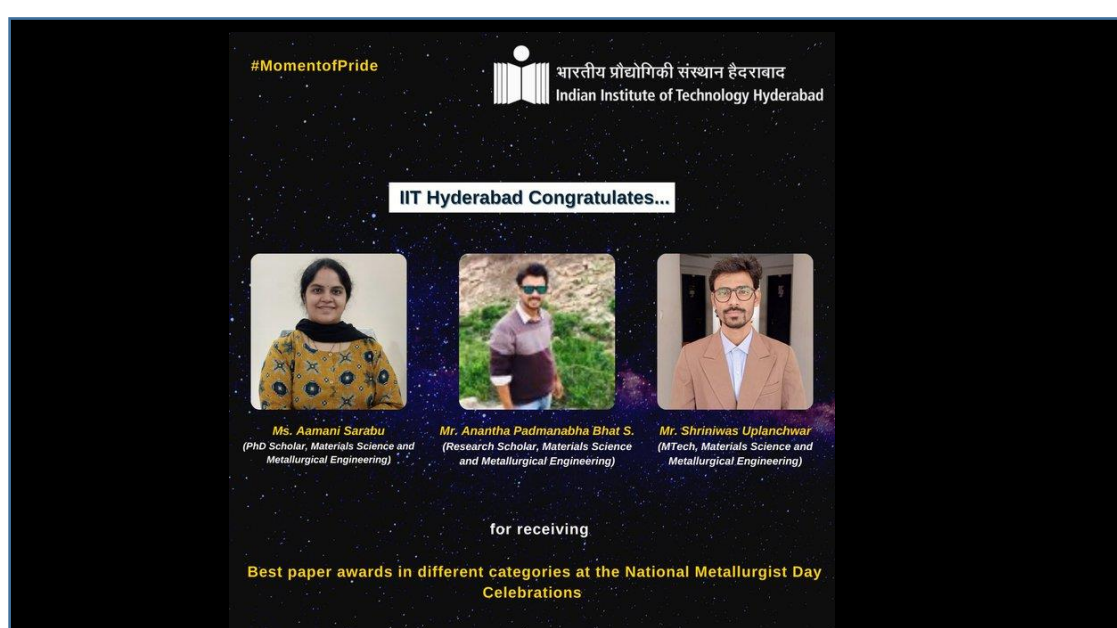
Ms. Shweta Sureshrao Thakare, MA student of Liberal Arts Department



Dr. Asif Qureshi, Associate Professor, Department of Civil Engineering



Mr. Bhavani Prasad, PhD Scholar, working with Dr. Siva Ram Vanjari Department of Electrical Engineering

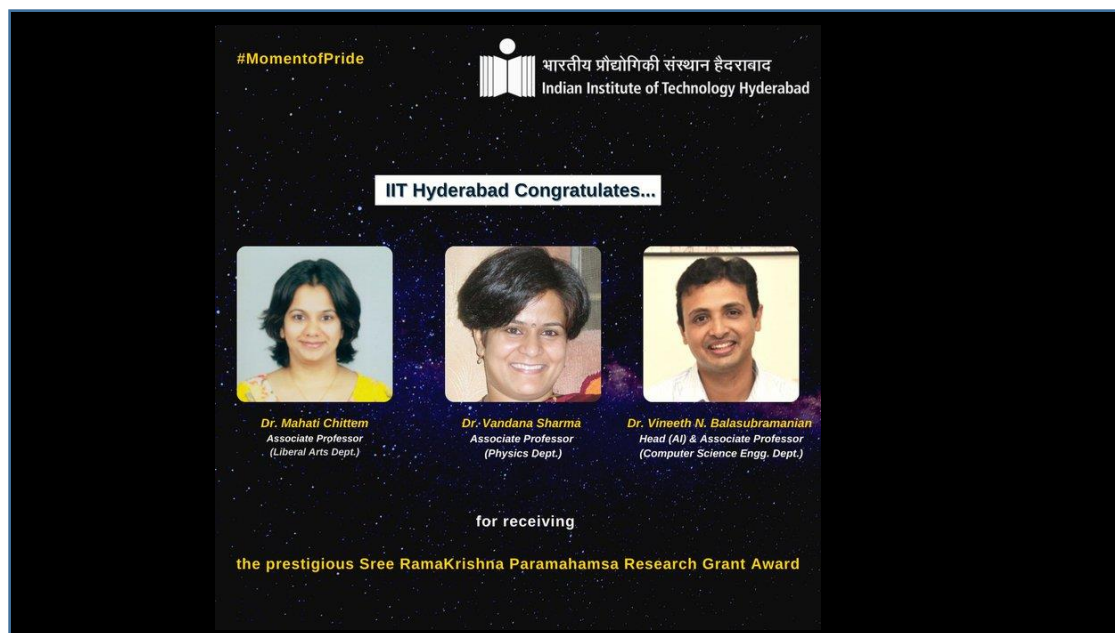


Ms. Aamani Sarabu, Mr. Anantha Bhat & Mr. Shrinivas Uplanchwar, Department of Materials Science and Metallurgical Engineering

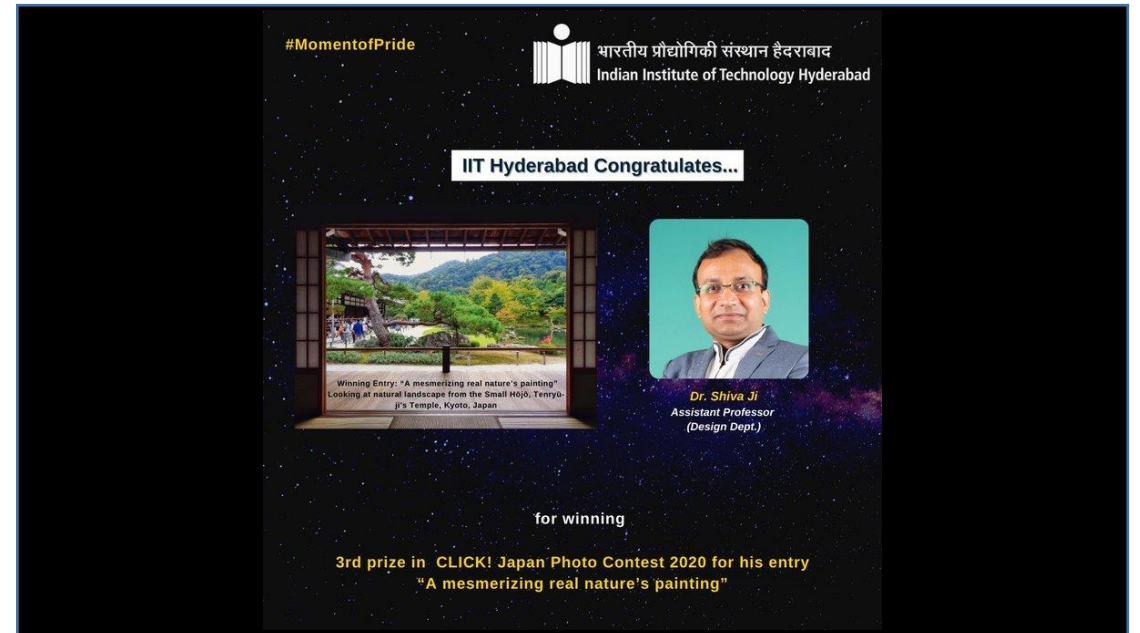


Dr. Mamidi Suresh, PhD Graduate, Carbon lab, Chemical Engineering, Project Scientist & Dr. Shivakalyani Adepu, PhD Graduate, Cellulose Group, MSME & Co-founder Amicrobe Herboceutical

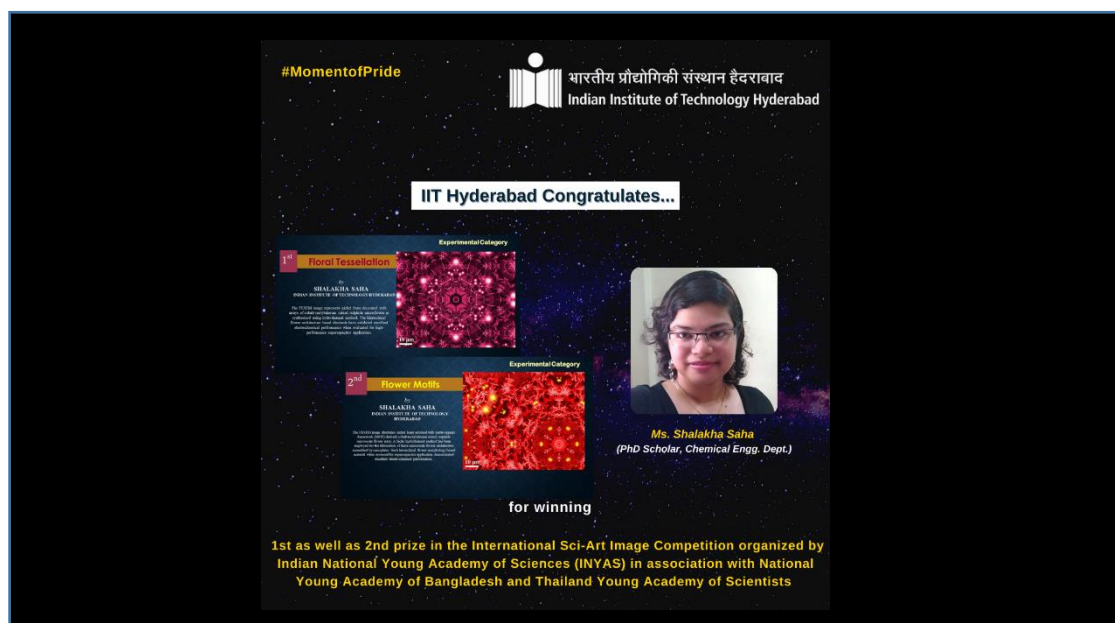
Moments of Pride



**Dr. Mahati Chittam, Department of Liberal Arts
 Dr. Vandana Sharma, Department of Physics &
 Dr. Vineeth N. Balasubramanian, Head Department of Artificial Intelligence & faculty, Department of CSE**



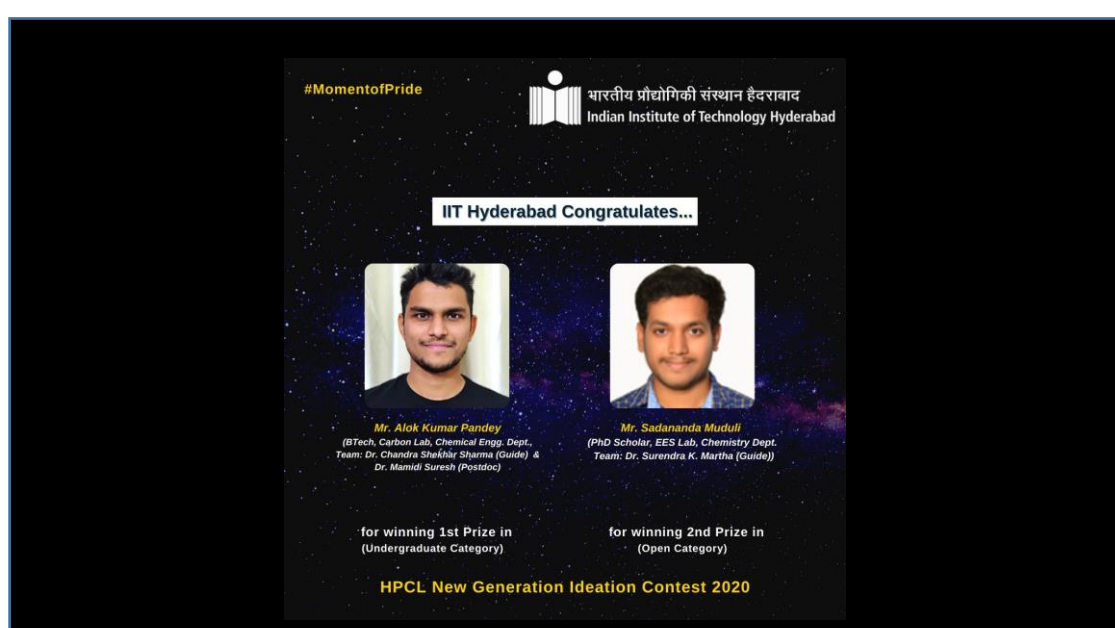
**Dr. Shiva Ji,
 Assistant Professor, Design Department**



**Ms. Shalakhā Saha,
 PhD Scholar, Department of Chemical Engineering,
 working under Dr. Chandra Shekhar Sharma**



**Dr. Saket Asthana, Professor, Department of Physics &
 Dr. Alan Ranjit Jacob, Assistant Professor,
 Department of Chemical Engineering**

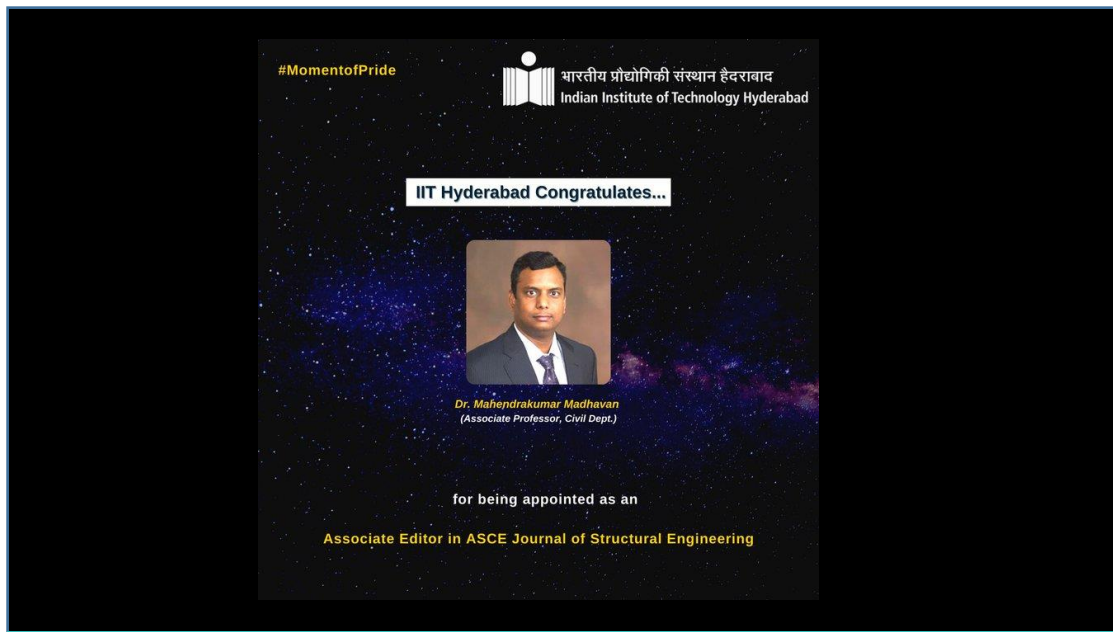


Mr. Alok Kumar Pandey along with Dr. Mamidi Suresh, and Dr. Chandra shekar sharma, Department of chemical Engineering, and Mr. Sadananda Muduli along with Dr. Surendra K. Martha, Department of Chemistry.



**Dr. Vineeth N. Balasubramanian,
 Head, Department of Artificial Intelligence & Associate Professor, CSE Department.**

Moments of Pride

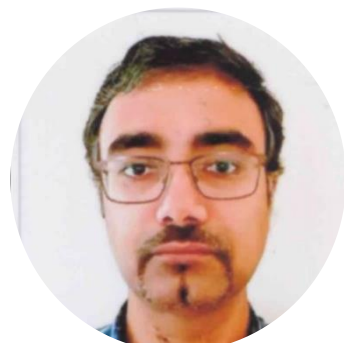


Dr. Mahendrakumar Madhavan
Associate Professor, Department of Civil Engineering



Dr. Gunjan Mehta,
Assistant Professor, Department of Biotechnology .

January 2021 (Teaching Staff)



Dr. Sundaram Vanka

Associate Professor, Department of Electrical Engineering

Before joining IITH in 2021, Dr. Vanka was an R&D IC Design Engineer in the wireless system architecture group at Broadcom, Inc., in San Jose, California, the USA that had joined after obtaining his Ph.D. from the University of Notre Dame, Notre Dame, Indiana, the USA in 2012. He was also among the early lead designers of Wi-Fi chipsets at Redpine Signals, Inc., (now part of Silicon Labs), from 2003-2007. Dr. Vanka obtained his B.Tech. and M. Tech. degrees in Electrical Engineering from IIT Madras in 2003. His research interests span the mathematical modeling, simulation, and prototyping of wireless systems and networks, especially low-power applications.

Life@IITH:

All I can say for now is that the students, faculty, and staff have adapted as well as they can to remote work. There is also a vibrant culture of innovation from what I see in the various talks and seminars. I hope things will improve once in-person interaction is back, hopefully by next semester.



Dr. Gaurav Dhamija

Assistant Professor, Department of Liberal Arts

Prior to joining IITH in January 2021, Gaurav was working as a Visiting Assistant Professor at the Indian Statistical Institute, Delhi Centre from June 2019. Gaurav did his B.A. (Hons) Economics from Delhi University, M.A. Economics from Jawaharlal Nehru University, and obtained his Ph.D. degree from Shiv Nadar University. His PhD thesis focused on the impact of initial life health conditions on later life outcomes. His research interest lies in the areas of applied microeconomics, particularly, nutrition, health, education, and labor market outcomes. He has empirically estimated the impact of a nationwide early life intervention targeted to children and their mothers, on later life health outcomes of children. He has estimated the effects of women's age at marriage on their own labor market outcomes and prevalence of domestic violence. He has also estimated the dynamics of the public-private achievement gap using two nonparametric measures of distributional mobility to panel data on test scores in Mathematics and Peabody Picture Vocabulary Test collected from the Indian state of Andhra Pradesh. Currently, he is working on the issues of malnutrition, violence against women, and climate shocks.

Life@IITH:

It has been a pleasant experience to be here at IITH in the last three months especially due to the warm welcome by my colleagues in the Department of Liberal Arts. I got a chance to instruct two courses this semester which I thoroughly enjoyed due to the active participation of students. I am looking forward to continuing this exciting experience at IITH.



**Dr. Nithyanandan
Kanagaraj**

Assistant Professor, Department of Physics

Before joining IITH, Nithi was working as a postdoctoral researcher at the University of Southampton, United Kingdom, Institute de Joseph Fourier/Universite de Grenoble-Alpes, France, Universite de Bourgogne, Dijon, France, Institute of Photonics and electronics, Prague. He did his Master's and PhD at the Pondicherry Central University, Puducherry. With 13 years of research experience at different levels, Dr. Nithi worked at 6 institutions in different countries including 4 postdoctoral positions. With over 140 journal and conference papers to his credit, he had made several ground-breaking contributions in the field of nonlinear optics and fiber lasers. Nithi is currently serving as the Chair of the Optical Society of America technical group, lasers in manufacturing. He is also recently appointed as the Editor of the Optical Society of India Newsletter. Recently, he has been nominated as a part of 3 members Optics sub-committee in the Bureau of Indian Standard for ISO certification. He is also an active member of optical societies with leadership in linking optical science, outreach, and public policy to promote and disseminate knowledge in Optics and photonics. Nithi is setting up an ultrafast complex photonics lab here in IIT H, where his interest is to develop advanced theoretical models and perform high-end experiments on various cutting-edge frontiers of Lasers, Optics, and Photonics, covering both fundamental and applied aspects. Entrepreneurship ideas often resonate within him, a photonics spin-off would be his future career goal, said Nithyanandan.

January 2021 (Teaching Staff)



**Dr. Arunabha
Majumdar**

Life@IITH:

It has been a very engaging yet stimulating few months of stay for him, mentioned Nithyanandan. The vibrant environment and the pleasant on-campus stay at the FT are quite satisfactory for him. He also mentioned and thanked colleagues and staff members at various sections for all the assistance to make life comfortable, especially during the joining days.

Assistant Professor , Department of Mathematics

Dr. Arunabha was a postdoctoral research scholar at the University of California, Los Angeles (UCLA) from 2017, where he worked with Dr. Bogdan Pasaniuc. Before working at UCLA, he was a postdoctoral fellow at the University of California, San Francisco from 2014-2017, where he worked with Prof. John Witte. He did my B.Sc. in statistics from Calcutta University and obtained my M.Sc. in statistics degree from IIT Kanpur and a PhD degree in statistics from Indian Statistical Institute, Kolkata. His research interests are in the fields of statistical genetics and computational statistics.

Life@IITH:

I have started as an assistant professor in IITH in January 2021. My joining procedure has been conducted smoothly. I am enjoying teaching talented students in IITH. The scientific community of IITH is very vibrant and inspiring. I look forward to doing high-quality research in IITH.

February 2021 (Teaching Staff)



**Dr. Aardra
Surendran**

Assistant Professor, Department of Liberal Arts

Dr. Aardra Surendran has been trained in Development Studies at TISS, Mumbai and Sociology at JNU, New Delhi. Before joining IITH, She was an Assistant Professor at the Symbiosis School for Liberal Arts (Pune), Tata Institute of Social Sciences (Mumbai), and the National Institute of Advanced Studies (Bangalore). Her primary research interest is in the social history and anthropology of labour in India. She is currently collaborating on two studies on labour and the pandemic – at the Universities of Edinburgh and Göttingen. She is also interested in issues of gender and public policy and is leading a project examining the social history of female athletics, migration, and policy in Kerala.

She has taught courses on labour, gender, inequality, and policy at both the undergraduate and graduate levels. She is excited to teach a course on the Sociology of Sport this semester.

When not working, she likes to read long-form, cook, and dabble in music.

Life@IITH:

IITH has been a warm and welcoming space, and I look forward to a fruitful period of engagement with the institute, colleagues and students.

January 2021 (Non - Teaching Staff)



Mr. Anand V.

Technical Superintendent, Department of Mathematics

Mr. Anand V is an Engineering graduate in Electronics and Communication from Jeppiaar SRR Engineering College, affiliated with Anna University, Chennai. Before joining IIT Hyderabad, he served in Vertex info as a System Engineer, dealt with antivirus & network related administrations for 6 months, and served as a Project Associate for 2 years & Project Officer for 1 year in IIT Madras Computer Centre HPCE (High-Performance Computing Environment) Team and had handled supercomputers & managed commercial software license. During his tenure in IIT Madras, he organized and supported the smooth conducting of the "NVIDIA-IITM Hackathon" event and also successfully conducted the "Basic Cluster Building Workshop" for IITM fraternities. Later he worked as a CAE Support Engineer in FCA (Fiat Chrysler Automobiles) Engineering private limited, India through V2Soft Private Limited supporting NAFTA region HPC systems & Electromagnetic Software simulations/licenses for around 5 months. In total, he has around 4 years of experience in the field of High-Performance Computing and Linux System Administration. His areas of interest are data center management, cluster building, batch job scheduler configurations, open-source software installation, networking, and automation using Linux shell scripting.

Life@IITH:

I'm very enthusiastic and feel privileged to work for IIT Hyderabad. I can also assure myself that there will be continuous progress in my career as IIT Hyderabad is encouraging the young talents providing wonderful opportunities. It is also one of the main things I always admire and appreciate. Friendly faculties & staff at IIT Hyderabad makes the work environment feel good. Above all, IIT Hyderabad is a very lovable place to learn and grow along with it. I thank all those who provided me this wonderful opportunity.

February 2021 (Non - Teaching Staff)



Mr. Bhoopal K.

Multi Skill Assistant, Construction & Maintenance Division

Mr. K. Bhoopal holds I.T.I Fitter Trade from St. Francis Xavier's I.T.C Balanagar, Hyderabad. He has a total of 6 years of experience through outsourcing agencies at IIT Hyderabad. He is having rich experience in handling all types of plumbing and sanitary issues and water supply lines.

Life@IITH:

It's a great pleasure to work in IIT Hyderabad with an excellent opportunity to learn and work on new works. Day to day improvement in working skills is associated with rich experienced superiors. I am very much thankful to my superiors and colleagues for their continuous support. Looking forward to contributing my best experience and knowledge to this premier institution.



**Mr. Allam
Vinaykumar**

Junior Technician, Department of Chemistry

Before joining IIT Hyderabad, Dr. Allam Vinaykumar was awarded a Doctorate in Chemistry in a topic entitled "Carbohydrates to Carbocycles: Stereoselective Approaches for the Synthesis of Some Cyclitols" from Osmania University (worked in CSIR-IICT, Hyderabad). Before that, he has joined the Ph.D. program under the guidance of Dr. B. Venkateswara Rao at CSIR-IICT, Hyderabad, and Awarded Senior Research Fellowship (SRF) by Council for Scientific and Industrial Research (CSIR), India. During Doctoral degree obtained results are published in internationally reputed journals such as Chemical Science, Tetrahedron Letters, Chemistryselect, and Journal of Heterocyclic Chemistry. And also, he participated in national and international conferences. He did post-graduation and graduation from the Osmania University campus.

Life@IITH:

It is a privilege to be part of the IITH family and It gives me immense pleasure to work for IIT Hyderabad as a National service. I am very fortunate to work with great ignited minds like teachers, staff, and students who always give great solutions to problems that arise worldwide by their research. I look forward to contributing more to the field of chemistry with my best knowledge and experience.

February 2021 (Non - Teaching Staff)



Mr. Surender B.

Junior Technician, Department of Chemistry

Mr. Surender B is a Postgraduate (Organic Chemistry) from the University College of Science, Osmania University. Later He completed BEd and qualified UGC-JRF (AIR 92). Before joining IIT Hyderabad, he joined the PhD program under the guidance of Dr. B. V. Rao at CSIR-IICT, Hyderabad, and Awarded Senior Research Fellowship (SRF) by UGC, India. During his Ph.D. work scientific identifications are published in the internationally reputed journal ChemistrySelect, he participated in national and international conferences like ACT-2016, RTCCS-2017, CRSI-NSC 21, SuChem 2018.

Life@IITH:

It gives me immense pleasure to work for IIT Hyderabad as a national Service. I am very fortunate to work with great ignited minds like teachers, staff, and students who always give a great solution to problems that arise worldwide by their research innovations and invention. I am very happy to be a part of this family. I am always ready to give my best to the organization's growth whatever and whenever required.



**Mr. Raj Priyadarshan
Jee B.**

Junior Technician, Department of Design

Mr. B. R. Priyadarshan is an undergraduate in Diploma in Interior Design from Rajiv Gandhi Institute of Technology And Management and graduated (B. Architecture) from Jawhar Lal Nehru Fine arts and Architecture University, Hyderabad. Before joining IIT Hyderabad he served in various architectural Firms involved in designing buildings and churches and commercial projects. He joined IIT Hyderabad in 2016 as a Sr. Project assistant and he was involved in designing the entrance gate tower of IIT Hyderabad, and bus stops, and foot over bridge near the facility and staff towers. His area of interest is Architectural Design.

Life@IITH:

It is a great honor to work at IIT Hyderabad, while working with my professors it was an immense pleasure for me to work with such highly qualified professors. It is a great opportunity for me to acquire more knowledge.



Mr. Dhananjay K.

Hospitality Management Assistant, Management Services Section

Mr. Dhananjay K is a graduate in Hotel management & Catering Technology from Osmania University. Before joining IIT Hyderabad, he served in various star hotels like The Ashok (New Delhi), Best Western (Hyderabad), and Hotel Redlas Inn. He has more than 10 years of experience in the field of Hospitality management.

Life@IITH:

It is a privilege to be working in an institution of national importance. I am enjoying working with the IIT Hyderabad fraternity.



Ms. Jella Rebekah

Junior Assistant, Academic Section

Ms. Jella Rebekah pursued Graduation B.tech in InformationTechnology, from Gokaraju Rangaraju Institute of Engineering and Technology affiliated with JNTU Hyderabad and Post Graduation M.Tech in Computer Science and Engineering, from Padmasri Dr. B V Raju Institute of Technology affiliated to JNTU Hyderabad.

Life@IITH:

It's my pleasure to be part of IITH. It is a wonderful place to learn new things and work together in achieving the goals of the institute.

February 2021 (Non - Teaching Staff)



Mr. CH. Guru Prasad

Multi Skill Assistant, Hostel Office

Mr. Ch. Guru Prasad had completed his intermediate from the Board of Intermediate Education Andhra Pradesh.

Life@IITH:

I feel very proud to be a part of the IITH staff. It is my pleasure to serve the students who are the future of our Nation. IITH campus has a good environment for innovations.



Mr. Nenavath Shiva Shankar

Multi Skill Assistant, Construction & Maintenance Division

Mr. Nenavath Shiva Shankar completed Intermediate from the Board of Intermediate Education, Andhrapradesh.

Life@IITH:

I feel very proud to be a part of the IIT Hyderabad staff. It is my pleasure to render the services in the maintenance of this institute. IITH campus has a good environment for innovations.



Mr. Marepally Praveen Kumar

Junior Technician, Department of Mechanical and Aerospace Engineering

Mr. Marepally Praveen Kumar is working in IIT HYDERABAD as a Junior Technician in the Mechanical and Aerospace Engineering Department. His qualification is TURNER in government ITI Vikarabad R.R DISTRICT.

Life@IITH:

It is very good to work in IIT Hyderabad.



Mr. Vadla Anjaiah

Junior Technician, Department of Physics

Mr. Vadla Anjaiah is a Postgraduate in solid-state physics from Osmania University and also SET/SLET qualified from Osmania University. Before joining IIT Hyderabad, he served in various prestigious institutes like IIT Hyderabad as a project officer, St Martin's engineering college as an Assistant Professor. He has more than 8 years of experience in the field of teaching and Physics laboratory. His areas of interest are solid-state physics, room-temperature superconducting materials.

Life@IITH:

I was very happy when I joined IIT Hyderabad as a project associate in the 2016 physics department. Faculty and colleagues gave me the best encouragement and freedom to learn new things. It's a wonderful feeling being a part of IIT Hyderabad! I have been thoroughly enjoying my work and my colleagues and the functionaries are very friendly.

February 2021 (Non - Teaching Staff)



Mr. D. Ravi Kumar

Junior Technician, Department of Computer Science and Engineering

Mr. D. Ravi Kumar did his post-graduation (Master of Science in Information Technology) from Jawaharlal Nehru Technological University, Hyderabad. Before joining IIT Hyderabad, he served in Institutes and Software companies like the International Institute of Information Technology (IIIT) Hyderabad, Pervacio India Private Limited, and SaipsIT Inc. as a Mentor, Production Executive, and Analyst. He has more than 5 years of experience in the fields of Education and the IT Industry.

Life@IITH:

I feel I'm very fortunate to get an opportunity to work with IIT Hyderabad. Since this is a young and fast-growing institute, I see a lot of scope for new joiners like me to learn, excel and contribute the best efforts to the growth of the institute. I heartily enjoyed working at IIT Hyderabad and it was a great experience for me now and I wish this continues in my future endeavors as well.



Mr. Mudavath Sandeep

Junior Technician, Department of Civil Engineering

Mr. Mudavath Sandeep is working in Civil Engineering Department as Junior Technician. He completed his graduation in Civil Engineering from Swami Ramananda Tirtha Institute of Science and Technology which is affiliated with Jawaharlal Nehru Technological University Hyderabad and holds a diploma in civil engineering from Govt. Polytechnic Warangal (Osmania University). Before joining IIT HYD he worked as a structural designer in L.S.B. Temerity Infra Pvt Ltd and designed several R.C.C. designs using STAAD & ETABS.

Life@IITH:

I am very happy at IIT Hyderabad professionally and personally. Faculty, staff, and students are more enthusiastic about their innovative ideas. I hope to give the best of my work for organizational growth.



Mr. Maatla Vishal

Multi Skill Assistant, Department of Mathematics & Physics

Mr. Maatla Vishal completed Intermediate from the Board of Intermediate Education, Andhra Pradesh. SSC from State Board of Andhra Pradesh. Before joining IIT Hyderabad, he served in various prestigious institutes like Narayana Junior College Hyderabad. He has more than 10 years of experience in the field of Office Assistants. His areas of interest are administration, Institutional schedules, Maintaining records, maintaining fee structures, receipts, and working on MS Word, MS Excel, and PowerPoint Presentation and being loyal, hardworking, and always helpful in doing things for the development of the institution.

Life@IITH:

It's been delightful working with one of the reputed institutes in India i.e., IIT Hyderabad. My experiences as I joined IIT Hyderabad initially I was placed in stores & purchase section there I have been for a month approximately. There all employees were unique and encouraging each other and as a team they work together. I have learned a lot of things related to the section. Presently I am working in the MATHS & PHYSICS DEPARTMENT.



Mr. Guguloth Venkanna

Junior Technician, Department of Chemistry

Mr. Dr. Guguloth Venkanna is a Postgraduate (Organic Chemistry) from the Aurora PG College, Osmania University. He was qualified in Gate and UGC-JRF (AIR 97). Before joining IIT Hyderabad, he joined the Ph.D. program under the supervision of Dr. Someshwar Pola at Osmania University, Hyderabad, and was awarded Senior Research Fellowship (SRF) by University Grants Commission (UGC), India. Later he carried out Doctoral work on the topic entitled "Synthesis, characterization, and properties of Pd(II) And Ru(II) Complexes with N4-macrocyclic ligands" from Osmania University. During Doctoral degree obtained results are published in internationally reputed journals such as RSC Advance, photochemistry, and photobiology. Moreover, he participated in national and international conferences.

Continued...

February 2021 (Non - Teaching Staff)



Mr. M. Yedukondalu

Life@IITH:

It is a privilege to be part of the IITH family and It gives me immense pleasure to work for IIT Hyderabad as a National service. I am very fortunate to work with great ignited minds like teachers, staff, and students who always give great solutions to problems that arise worldwide by their research. I look forward to contributing more to the field of chemistry with my best knowledge and experience.

Executive Assistant, Construction & Maintenance Division

Mr. Yedukondalu pursued his Masters in Computer Application from JBIET(JNTUH). He started serving IIT Hyderabad in 2012 in various capacities in various sections. Before joining IIT Hyderabad, he worked in Sindhu Women's Degree College as a Lecturer in the Computer Science department for a year.

Life@IITH:

According to me, IIT Hyderabad is the best Institution I have ever seen in my life. I gained much knowledge in whichever place I have been working, IIT Hyderabad gave me a platform to learn many development skills. IIT Hyderabad gave me a good working atmosphere and lovely colleagues. IIT Hyderabad introduced me to myself and was always encouraging to bring the best out of me. I assure to continue to give my best to the Institution. I am proud to say that few of my colleagues consider me as their role model.



Mr. Begari Vinod

Multi Skill Assistant, Construction & Maintenance Division

Mr. Begari Vinod is an ITI FITTER (GENERAL) from BHARAT ITI Jeedimetla. Before joining IIT Hyderabad, he served in various Institutions/Companies like TATA Aerospace Centre, CUBIC TRANSMISSION, and Fenoplast Ltd. unit. He has more than 6 years of experience in the field of FITTER and Information Machinery.

Life@IITH:

It has been a fantastic experience! I feel honored to be part of the IITH Family. It allows me to grow and enhance my learning every day. It has an environment which makes us work enthusiastically and learn new technical things.



Mr. Kotamla Srikanth

Multi Skill Assistant, MS Section, Guest House

Mr. Kotamla Srikanth completed Intermediate (MPC) from MNR Junior Kalasala, Chandanagar BHEL. Before joining IIT Hyderabad, he served as Computer Operator cum Data Assistant in Ramachandrapuram Mandala Mahila Samakhya (IKP/SERP). He has more than 6 years of experience in the field of Data entry and Office works.

Life@IITH:

It is very nice to be here at IITH. I feel honored to be part of the IITH Family. It allows me to grow and enhance my learning every day.



Mr. E. Guruswamy

Junior Accountant, R & D Section

Mr. E. Guruswamy is a Postgraduate (Commerce) from Sri Venkateswara University. Before joining IIT Hyderabad, he served as an Audit Assistant under A. Thirumaleswara Naidu (CA) in Tirupati, Sr. Data Researcher in S&P Capital IQ India (Pvt.) Ltd. Hyderabad. He has more than 10 years of experience in the field of Accounts and Finance. He also qualified UGC NET, AP SET& TS SET.

Life@IITH:

I am proud to join IIT Hyderabad as Junior Accountant on 3rd February 2021. Big Thanks to M. Phanindra Kumar Sir and M. Eswar Reddy Sir for creating a comfortable work environment and supporting, thanks to Mirza Baig Sir and K Shiva Sir, G Sraavan Kumar Sir for supporting to clearing the bills in March Rush.

February 2021 (Non - Teaching Staff)



**Mr. Akarapu
Chittaranjan**

Multi Skill Assistant, International And Alumni Relations Section

Mr. Akarapu Chittaranjan completed his Intermediate from Sri Vikas Junior college Hanamkonda, Warangal Dist in MPC. Before joining IIT Hyderabad he served as an office assistant in Sri Raghava Vidhyaniketan High School, Maripeda Banglow, and he has 5 years of experience in the field of office work, record maintenance, data entry.

Life@IITH:

It is very nice to be here at IIT Hyderabad. I feel honored to be part of the IIT Hyderabad Family. It allows me to grow and enhance my learning every day.



Ms. Voleti Gowthami

Junior Accountant, Finance & Accounts Section

Ms. Gowthami Voleti is a Chartered Accountant from the Institute of chartered accountants of India and also holds B.Com from Osmania University. Before joining IIT Hyderabad she worked with Rambabu and co as an Article Assistant, Nagendra, and co as Junior Accounts Executive. She has knowledge in the fields of Accounting, Taxation(Both Direct and Indirect Taxation including GST), Audit(Both statutory and Internal Audit). She holds a certificate in the course like GMCS(General management and communication skills, IIT(Information Technology Training Course), Advanced IIT.

Life@IITH:

I am proud that I am part of the prestigious Indian technical institute IIT Hyderabad. First of all, the campus infrastructure marks its elegance, and also it was a peaceful environment out of city chaos. I was easily integrated into work through a very much supportive team. Thanks to all colleagues in the team as they are knowledgeable and friendly. I also like the flexibility that I can explore to work in various departments in the future. Most importantly, 5-day week working also make me feel that I also have similar benefits as corporate techies and get to spend quality time with family. I was very much pleased with the employee care measures taken by IITH during these tough times of pandemic. Also, the health care facilities provided on campus were up to the mark, and deeply satisfied with them. I am happy to be part of this institute and would like to learn and grow here.



**Mr. Anjaneyulu
Botta**

Junior Technician, Department of Liberal Arts

Mr. Anjaneyulu Botta is a Graduate in Information Technology, Post Graduate in History from Acharya Nagarjuna University and also holds Master of Arts in Economics from GITAM University. He has also qualified UGC-NET in History. Before joining IIT Hyderabad, he served in INCOIS (Indian National Centre for Ocean Information Services) Hyderabad.

Life@IITH:

It's a wonderful feeling being a part of IIT Hyderabad. I am glad to have the pleasant infrastructure, supportive staff and kind faculty, with their help and support within a short span of time I learnt many new things which can enhance my skills and helpful to my career growth. I am feeling this place as my second home. My two-month journey with IITH has been exciting and looking forward to give my best to one of the premier Higher Education Institutes of India.



Mr. Batti Raja Sekhar

Multi Skill Assistant, Hostel Office

Mr. Batti Raja Sekhar completed his Intermediate from the Board of Intermediate Education, Andhra Pradesh.

Life@IITH:

It's been a pleasant working experience in IITH Hostel Office as Multi Skill Assistant Gr-1. I am very much happy to be a part of IITH..

February 2021 (Non - Teaching Staff)



Ms. Attaluri Jeevani

Junior Accountant, Finance & Accounts

Ms. Attaluri Jeevani Graduated in Commerce & CA Intermediate from the Institute of Chartered Accountants of India. Before joining IIT Hyderabad, she Worked as an Articleship Assistant related to Accounting, Audit, and Taxation for 3 years.

Life@IITH:

It has been 03 months since I have joined the Institute as Junior Accountant and my experience here has been great so far. I have been in the learning stage now and I am enjoying it. The environment here is very good and colleagues are very cooperative and friendly. Waiting to have good moments in the future. I will do my best for the well-being and growth of the Institute.



Mr. Lakkoji Manikanta

Multi Skill Assistant, Internal Audit Section

Mr. Lakkoji Manikanta completed Intermediate from the Board of Intermediate Education, Hyderabad. Before joining IIT Hyderabad he worked as a Technical Assistant at the Center for Study on Bay of Bengal, Andhra University for 2 years.

Life@IITH:

I got qualified for IIT Hyderabad as Multi-skill Assistant and joined on 4th February 2021. IIT Hyderabad is nice.



Ms. Siddam Mounika

Multi Skill Assistant, Academic Section

Ms. Siddam Mounika completed Intermediate from Geetanjali Junior College, Narsapur. Before joining IIT Hyderabad she worked in the Malla Reddy Engineering College as an Office Assistant for 4 years.

Life@IITH:

It's my pleasure to work in one of the second-generation IITs established by the government of India. All the staff members in the Academic section have offered me well support and motivated me at all times. Because of their support, I could handle various types of tasks in the section.



**Mr. Pillai Madhushankar
Subramonia**

Junior Technician, Department of Mechanical and Aerospace Engineering

Mr. Pillai Madhushankar Subramonia is a graduate of Anna University (Easwari Engineering College). Before joining IIT Hyderabad, he served in prestigious institutes like CSIR-Central Leather Research Institute. He has more than 3 years of experience in the field of Design and Analysis using CAD Modelling software like AutoCAD, Solidworks, CATIA, and Analysis using Ansys workbench. He had attended various conferences and presented papers. His project "Vehicle for physically challenged" was awarded " Best Innovator Award" by "Institute for Engineering Research And Publication".

Life@IITH:

Working in IIT Hyderabad is a good learning experience. Even though it has been just a few months I got an opportunity to learn many things and engage with faculty and students who have helped me in exposing myself to new machinery and to approach engineering problems from a different point of view. Even though this is just an initial step in my career I hope the further steps would bring new things to learn and opportunities to show my talent.



Mr. Lalit Kishor Sharma

Multi Skill Assistant, Public & Corporate Relations Section

Mr. Lalit Kishor Sharma completed his Intermediate from the Board of Secondary Education Rajasthan.

Life@IITH:

I feel very proud to be a part of the IIT Hyderabad staff. IITH campus has a good environment for innovations.

February 2021 (Non - Teaching Staff)



Mr. Prasad Boppa

Multi Skill Assistant, Security Office

Mr. Prasad Boppa had completed intermediate from the Board of Intermediate Education Andhra Pradesh.

Life@IITH:

I am working in IITH Security Office as Multi Skill Assistant Gr-1. I feel very proud to be a part of the IITH Staff. I feel pleasure to serve the Security team. IITH campus has a good environment for new innovations.



**Mr. Takkoli
Sivakrishnareddy**

Multi Skill Assistant, Clinic

Mr. Takkoli Sivakrishnareddy completed his Intermediate education from the Board of Intermediate Education, Andhra Pradesh.

Life@IITH:

I am working in IITH Clinic as Multi-skill assistant Gr-1. I feel very happy to serve the clinic in this pandemic situation and to interact with the students and high-level officers, and doctors in the Clinic.



**Mr. B. Harshavardan
Reddy**

Multi Skill Assistant, Computer Centre

Mr. B Harshavardan Reddy completed his Intermediate from Board of Intermediate Education. Before joining IIT Hyderabad he Worked as Data Entry Operator for GVK EMRI, Telangana for more than 3 years.

Life@IITH:

I can work here with peace of mind. As I am in the computer centre now, I can possess new technical skills. My communication skills are also enhancing. In foresight, I am seeing the growth of our IITH and mine in its base.



**Mr. Nandyala
Bheemeswara Reddy**

Executive Assistant, Hostel Office

Mr. N. Bheemeshwar Reddy finished his graduation from SRM University in the Department of Information Technology. After his graduation in the year 2014, he joined as a Junior Executive at Vasathi housing, a private limited construction company. He has worked there for 5 years in General Administrative Department. He has resigned as a Senior Executive from Vasathi Housing in the year 2019. He always desired to become a public servant, in course of pursuing his desire he started preparing for competitive exams. In this process, he has cleared the IITH recruitment test.

Life@IITH:

These two months at IITH have been a great experience to work with this prestigious institute. Also, I express my sincere gratitude to the staff of the Hostel Office for their incredible support and faith they have shown in me. The cordial nature of the staff, positive working environment, vibrant and collaborative culture are among the main reasons which make IITH a great place to work and I am proud to be a part of IITH and I strive to do my best to contribute to the growth of the institute.

February 2021 (Non - Teaching Staff)



Mr. Ramnaresh B.

Multi Skill Assistant, MS Section, Guest House

Mr. Ramnaresh B. Completed 10th from Board of Secondary Education, Andhra Pradesh. Before joining IIT Hyderabad, he worked as an Office secretary in Stithikanta Infra Private Limited for 4.3 years.

Life@IITH:

I Feel Proud to be part of the IIT Hyderabad family. Every day I am learning new things from colleagues. IIT Hyderabad is an extraordinary campus with good infrastructure facilities. In this journey, I contribute my efforts for the growth of the Institute and myself. Life at IIT Hyderabad is awesome.



**Mr. Nikith Reddy
Peddasherri**

Junior Technician, Computer Science and Engineering

Mr. Nikith Reddy Peddasherri done his graduation from Malla reddy institute of engineering and technology, JNTU Hyderabad, and schooling from Jawahar Navodaya Vidyalaya, Medak. He has been working for IIT Hyderabad for the past one and a half years.

Life@IITH:

I feel pleasure to work with an institute that is getting developed rapidly in terms of research activities and rankings. IT gives me the scope to excel in my skills. I enjoy working at IIT HYDERABAD for not letting us to strict to one area, it gives us space to work on different platforms. I feel this continues to contribute to the development of the nation.



**Mr. Pradeep Kumar
Jada**

Multi Skill Assistant, R & D Section

Mr. Pradeep Kumar Jada completed Intermediate from the Board of Intermediate Education, Andhra Pradesh. Before joining IIT Hyderabad, he worked as Office Assistant for two years & as Assistant Accounts Officer for Two years in Kapil Chits (Kosta) Pvt. Ltd.

Life@IITH:

I am very much delighted to work as a multi-Skill Assistant in R & D at IIT Hyderabad.



Mr. L. Dinesh

Junior Assistant, Hostel Office

Mr. L. Dinesh is a B.Tech. graduate (ECE) from JNTU University. He has more than 08 years of experience in technical and administration-related jobs. He worked as Assistant Manager- RF and communication engineering, in Lepakshi Constructions, provided technical and application support for customers, internal sales, marketing, and engineering. Maintained administrative staff by recruiting, selecting, and training employees.

Life@IITH:

I am very much happy that I got an opportunity to serve in IITH. I am working as a Junior Assistant in Hostel Office Department. Responsible for collection of Hostel accommodation fees and mess fees charged from the students by coordinating through mail/phone.



Mr. Rebba Vinod Kumar

Multi Skill Assistant, Department of Biomedical Engineering & Biotechnology

Mr. Rebba Vinod Kumar did his Diploma in Commercial and Computer Practice. He has done 3 months course in Diploma in MS Office from Geeni Computers. Previously he has worked in First American India Pvt Ltd as an office assistant for 6 years.

Life@IITH:

I am very pleased to work at IIT Hyderabad. Staff and higher authorities are very friendly and my colleague giving support and encouragement at the workstation.

February 2021 (Non - Teaching Staff)



**Ms. Kherkar Purva
Ganeshrao**

Lady Physical Training Instructor, Sports Department

Ms. PURVA daughter of Sau. HARSHADA and Shri GANESHRAO KHERKAR. She is from Rajura Dist Chandrapur Maharashtra. Miss PURVA has completed her primary education up to Graduation in B.Sc. in my hometown Rajura. After that due to her special attention towards Games and Sports, she took admission in Bachelor of Physical Education and Master of Physical Education in Degree College of Physical Education HVPM Amravati. In the meantime, she participated in several inter-college and inter University Tournaments along with the All-India Tournament in the Games of Athletics, Cricket, Football, and Weightlifting. She qualified in NET and SET (Maharashtra) in 2016. Along with that qualified in Technical official examination by Indian Federations of Athletics, Football, Boxing and Cycling.

Life@IITH:

It's my pleasure to be a part of this esteemed organization IITH. I am very much excited and happy about the working culture of the institution. On the very first day, I felt relaxed to see the very friendly and cooperative nature of all my colleagues in the Administration Department and Department of Sports. I have learned many things here which will help me to develop my quality and personality. Looking forward to working with you all and bring positively around with my extrovert and jolly nature.



**Mr. Anil Kumar
Kushwaha**

Physical Training Instructor, Sports Department

Mr. Anil Kumar Kushwaha completed his Bachelors in Physical Education 4years degree and Master in Physical Education from the Lakshmibai National University of Physical Education. He also got several medals in the district, state, and west zone volleyball championship and several times participated in senior national and all India University volleyball championship. He has many years of experience in the field of physical education, game & sports, as a player and official.

Life@IITH:

I am grateful to have made an association with the organization. My new position in the institution as a physical training instructor gave me an opportunity to develop my career in this prestigious organization. It is my pleasure that I am the part of Indian Institute Of Technology Hyderabad family. IIT Hyderabad has a very systematic work culture and supporting, cooperating staff. I have learned many things here which will definitely help me to develop my qualities and personality. Hoping for more opportunities and splatforms to be provided to explore my abilities.



Mr. Nelli Avvas

Junior Engineer (Civil), Construction & Maintenance Division

Mr. Nelli Avvas completed his BTech (Civil) from JNTU Kakinada. Previously he worked in the construction companies like HCC, Samsung C & T India Pvt Ltd. He gained experience in the construction and execution of various units in thermal power plants and Residential building towers.

Life@IITH:

I am very blessed to be part of the worldwide reputed organization and an esteemed institute. It has an environment which makes us work enthusiastically and learn new technical things.



**Mr. Jayanta Kumar
Sahu**

Library Information Assistant, Library

Mr. Jayanta Kumar Sahu graduated from Sambalpur University and pursued the Library & Information course at Berhampur University. Mr. Jayant Sahu has completed MLISc & MPhil Degree and is currently pursuing a Ph.D. from Sambalpur University in part-time mode. Mr. Sahu has also qualified UGC-NET. Before joining IIT Hyderabad Mr. Sahu served as the Resource Person (Teaching) in the Dept of Library & Information Science, Sambalpur University. He was also the Research Assistant in an ICSSR sponsored major research project at Sambalpur University. Mr. Sahu has also three years of working experience in reputed libraries like the Indian Institute of Technology (IIT) Bhubaneswar and National Institute of Science Education and Research (NISER) Bhubaneswar as Library Professional Trainee and Library Apprentice respectively. Mr. Sahu has six numbers of scholarly communications in the field of Library & Information Science in the different National & International Journals, conference, Seminar & Book Chapters.

Continued...



Mr. Nalam Divakar

Life@IITH:

IIT Hyderabad is one among the 2nd generation of IITs started by the Govt. of India in the year 2008. As we know that the Library is the heart of the institution, the IITH Library has a good collection of resources which provides me an opportunity to show my skills and to improve my knowledge with the latest trends. I am proud to be a part of the library team that works dynamically towards the all-around growth of the Library and the Institute. Librarianship is a noble profession; Service to Mankind is its Motto. For this, the Library Team provides timely services to the IITH Fraternity. IITH Administration announced the "Employee of the Month" award for outstanding contributions to the Institute for encouraging the Staff of the Institute. Such type of encouragement inspires me to work hard for the institute. I have received a lot of support and help from the administration, HR Section, Senior Professionals, and colleagues throughout this joining phase. I am enjoying the working condition in this prestigious institute and thankful to everybody.

Junior Technician, Department of Materials Science and Metallurgical Engineering

Mr. Nalam Divakar completed his Diploma in Metallurgical Engineering from Government Polytechnic Vijayawada. Before joining IIT Hyderabad, he served in various prestigious institutes like Mishra Dhatu Nigam Limited(Midhani), National Institute of Technology Warangal, Centre for Materials for Electronics Technology(CMet) Cherlapally, DELPHI-TVS Diesel Systems limited Plant-III Oragadam. He has more than 4years of experience in the field of Material Science and Metallurgical Engineering. And his areas of interest are the Operation of various Heat Treatment furnaces, Melting like Vacuum Induction and Vacuum Arc Furnaces, Material Testing like Creep-Fatigue Interaction, Low-Cycle fatigue, Fatigue crack growth, Tensile test, and also in metallography techniques.

Life@IITH:

I was so happy when I am joined here, and I am so glad that I am working in a prestigious Institute. I am so happy for the facilities that IIT Hyderabad providing for Students as well as faculty and staff. I am very thankful to IIT Hyderabad.



Mr. Ramanaboyina Venkata Mohan Malavya

Junior Technician, Department of Chemical Engineering

Mr. R V Mohan Malavya holds an M.Tech degree in Chemical Engineering from NIT Tiruchirapalli and also holds a BTech degree from JNTUA College of Engineering Anantapur in Chemical Engineering.

Life@IITH:

Great! This being my first work experience and to start my career with IIT Hyderabad, I feel blessed. The staff here are so supportive and encouraging. The campus is beautiful (especially at night with those lights), each building here is unique in its construction which makes the IITH campus a unique one.



Ms. Maloth Sunitha

Junior Technician, Department of Computer Science and Engineering

Ms. Sunitha Maloth did her Under Graduation in Electronics and Communication Engineering from Padmasri Dr. B V Raju Institute of Technology. Before joining IIT Hyderabad, she worked in two prestigious MNC companies namely DXC Technology India Private Limited and Amazon Development Centre India Private Limited. She has a total of 4.5 years of experience in the Information Technology (IT) industry.

Life@IITH:

I feel I'm very fortunate to get an opportunity to work with IIT Hyderabad. Since this is a young and fast-growing institute, I see a lot of scope for new joiners like me to learn, excel and contribute the best efforts to the growth of the institute. I heartily enjoyed working at IIT Hyderabad and it was a great experience for me now and I wish this continues in my future endeavors as well.

February 2021 (Non - Teaching Staff)



**Mr. Venkata Krishna
prasad SM**

Junior Technician, Department of Biotechnology

Mr. Venkatakrishnaprasad SM is an Under Graduate (B.Sc.) from Govt Degree College Kamareddy, Osmania University and also holds a Post-Graduation (Biochemistry) from Chaitanya PG College Hanamkonda, Kakatiya University. Before joining IIT Hyderabad, he served in the prestigious research institute of India (National Institute of Nutrition, Hyderabad) as a JRF and SRF. He has 05 years of experience in the field of Life science Research. His areas of interest are Biochemical and Molecular Life science research. He also published 4 scientific articles in peer-reviewed international journals.

Life@IITH:

Recently joined the institute, but I am feeling like I have many years' association with the institute this is due to the excellent work environment, cooperation of the Biotechnology Head of the Department, Faculty, colleagues, and the entire fraternity of IITH. The environment and plantation in the institute are pleasant. I am very glad to be a part of the prestigious institute in India. Looking forward to contributing my best to the growth of the Biotechnology department and IITH.



Ms. Chintha Anjali

Multi Skill Assistant, Department of Liberal Arts & Design

Ms. Anjali Chintha completed intermediate from Sri Chaitanya Bharathi Junior college. Before joining IIT Hyderabad, she worked as an Office Assistant in the Holy Spirit Public School for 5 years.

Life@IITH:

I'm very delighted to work as a Multi-Skill Assistant in the Liberal Arts & Design departments. I'm learning new things in my work at IIT Hyderabad.



Mr. Chityala Anand

Junior Engineer (Civil), Construction & Maintenance Division

Mr. Chityala Anand is a Graduate (B.Tech-Civil) from CMR Institute of Technology. Before joining IIT Hyderabad, he served in Megha Engineering Infrastructures Limited Company. His areas of interest are execution, planning, design in the civil field, where his knowledge has been used and increased accordingly.

Life@IITH:

It has been a fantastic experience! I feel honored to be part of the IITH Family. It allows me to grow and enhance my learning every day. It has an environment which makes us work enthusiastically and learn new technical things.



Mr. Rekhala Vikram

Junior Technician, Department of Mechanical and Aerospace Engineering

Mr. Rekala Vikram completed his B.Tech in Electronics and Communication Engineering. Before joining IIT Hyderabad he served as Laboratory Assistant in RGUKT(Rajiv Gandhi University Of Knowledge Technologies), Basar, and having 8 years of experience.

Life@IITH:

I am thankful to be a part of IITH and Looking for a challenging role to explore my knowledge and experience. I can contribute my knowledge and skills to the growth of the organization.



Mr. Srinivas Pulimamidi

Junior Technician, Department of Chemistry

Mr. Srinivas Pulimamidi is a Postgraduate from Osmania University in Organic Chemistry. Before joining IIT Hyderabad, he served as Laboratory Assistant in Chemistry, RGUKT Basar, Nirmal, Telangana. He has 10 years of vast experience in the field of Experimental Chemistry. His areas of interest are Execution of Laboratory experimental procedures, Handling of Analytical Instruments, and Documentation related to the Laboratory. He is one of the main authors and contributed many chapters for the book "Laboratory Manual General Chemistry" for Chemistry Students.

Continued...

February 2021 (Non - Teaching Staff)



Ms. T. Lavanya

Life@IITH:

It gives me immense pleasure to work for IIT Hyderabad as a National service. I am very fortunate to work with great ignited minds like teachers, staff, and students who always give great solutions to problems that arise worldwide by their research, innovations, and inventions. I am very happy to be part of this great family. I always ready to give my best to the organization's growth whatever and whenever required.

Executive Assistant, Academic Section

Ms. T. Lavanya studied her B.Tech in computer science and Engineering. She served as Laboratory Assistant in RGUKT (Rajiv Gandhi University Of Knowledge Technologies), Basar with more than 7 years of experience.

Life@IITH:

I am thankful to be a part of IITH and Looking for a challenging role to explore my knowledge and experience. I can contribute my knowledge and skills to the growth of the organization.



Ms. Lingampally Neeraja

Executive Assistant, Public & Corporate Relations Section

Before joining IIT Hyderabad, She worked as Staff Assistant for Medak District Co-operative Central Bank Ltd, for a period of 3years and as Assistant Manager for a period of 2years. She did her Masters in the department of Embedded Systems and Graduated in the department of Electronics and Communication Engineering from JNTU H.

Life@IITH:

Feeling immense glad and gratified to be associated with such Prestigious Technical Institute of National Importance. The well-established administration here is motivating us to perform to the optimum in our own assigned roles with utmost accountability. Looking forward to contributing my level best in the future endeavors.



**Mr. Janardhankumar
Tolana**

Executive Assistant, Academic Section

Mr. Janardhan kumar Tolana completed his BE in Electrical and Electronics Engineering from ANITS Visakhapatnam affiliated with Andhra University. Before joining IIT Hyderabad, he worked in the Central Bank of India as an SWO-A (Assistant) for almost 1 year and 8 months and then moved to Canara Bank as a Probationary Officer. He was promoted as a Manager in the year 2017. On 15th February 2021, he resigned from Canara Bank after completing almost 7 years and 6 months of service and joined IITH as Executive Assistant.

Life@IITH:

I am still learning, but the overall atmosphere in IITH is good and satisfactory.



Mr. Samaresh Basani

Junior Technician, Department of Physics

Mr. Samaresh Basani completed his Master's degree in Physics from Osmania University. Before joining IITH, he worked as a Lecturer in Physics at Loyola Academy Degree College Alwal, Hyderabad for a period of 10 years (2011-2021).

Life@IITH:

The campus is awesome. It's a pleasure for me to work in this Institute and to be a part of IITH. Specially Physics Department is fastly growing with World-class research, teaching community, and excellent Labs. I feel it's a great opportunity for me to update my technical skills and to contribute my best towards the growth of the department and the institute.

February 2021 (Non - Teaching Staff)



Mr. Munugala Dakaiah

Junior Technician, Central Workshop

Mr. Munugala Dakaiah did his B. Tech in Mechanical Engineering from DVR CET (JNTU – Hyderabad Affiliation). Before joining in Central Workshop, I worked as a Project Associate in the Mechanical Department, IIT Hyderabad for 3.5 years.

Life@IITH:

I am very much privileged to work in one of the top IITs. Despite the pandemic situation and restrictions, my work experience at IIT Hyderabad in the Central Workshop is nice. The work environment and the work culture in the Central workshop are ethical and professional. The technical discussions that I had with my colleagues during this tenure of 3 months, made me learn a lot of technical stuff and also paved a path for technical thinking. I would also like to bring out, that my interactions with the administrative staff during my joining are pleasant, and they were helpful. Overall, I am very much excited to be a part of IIT Hyderabad, which gives me a unique opportunity to make considerable contributions to the growth of IIT Hyderabad while shaping my technical career. I would also like to thank the faculty of IIT Hyderabad and our Technical Officer who were always supportive and encouraging in my career.



Mr. Harish Ramineni

Executive Assistant, Department of Chemical & Department of Materials Science and Metallurgical Engineering

Mr. Harish Ramineni has done his B.Tech in Electronics and Communication Engineering from SANA Engineering college kodad under the affiliation with JNTU Hyderabad. After completing graduation, immediately he completed his M.Tech in VLSI from MITS college kodad, affiliated with JNTU Hyderabad. He worked in ESI Organisation as MTS and LDC for 8 years in administration work.

Life@IITH:

As I was already dealing with the Administration work in ESIC, I gave my best for IITH recruitment, and I was very confident in my selection. Finally, on my selection, I have joined this prestigious organization on 17th February 2021 to upgrade my career progression and to contribute my knowledge and experience to the smooth functioning of campus administration. I have been learning a lot from this organization and it is a very good platform for all who want to grow up in their career. The working environment is also very good. Employees are also friendly. The best thing I found in IIT Hyderabad it has all facilities, banks, stationery, cafe, post office everything is there. It was my dream to work in one of the best institutions and finally, I achieved it.



Mr. Azmath Ali SK

Executive Assistant, Construction & Maintenance Division

Mr. Azmath Ali SK is a Graduate (B. Tech) from Jawaharlal Nehru Technological University. Before joining IIT Hyderabad, he served in various reputed Organizations like Tech Mahindra Ltd., DCC Bank Ltd., Khammam, and Maulana Azad National Urdu University, Hyderabad. He has more than 8 years of Administrative experience in the IT, Banking & Educational Sector.

Life@IITH:

IITH is a friendly institute that provides people with the best work environment to grow. I have just been here for a few months and my experience here has been great, especially the support from my colleagues, staff in the neighboring offices. I am extremely glad to be part of this wonderful place and Looking forward to a wonderful journey ahead at IITH!



Mr. Cheemakurthi M Subhani

Multi Skill Assistant, Department of Chemical & Department of Materials Science and Metallurgical Engineering

Mr. Cheemakurthi M Subhani completed Intermediate from the Board of Intermediate Education, Andhra Pradesh. Before joining IIT Hyderabad, he served as Data Entry Operator in various Projects like Andhra Pradesh Capital Region Development Authority and Pay and Accounts Office (HoD) in the Finance Department, Government of Andhra Pradesh on outsource/contractual basis. He has more than 6 years of experience as a Data Entry Operator.

Life@IITH:

It is an honor to serve IIT Hyderabad as Multi Skill Assistant.

February 2021 (Non - Teaching Staff)



Mr. S. Mani Kumar

Executive Assistant, Department of Civil Engineering

Mr. S. Mani Kumar did his Bachelor's degree in Computer Science from Sri Venkateswara University, Tirupati. After completing graduation, immediately he has started his professional life as an office assistant in Srinivasa textiles Eluru. Due to his interest in government organizations, he started trying for competitive exams. In the meantime, he came to know about the recruitment for the post of Executive Assistant in IIT Hyderabad, as he was already dealing with the Administration work in Srinivasa textiles, he gave his best for IITH recruitment, and he was very confident on his selection. Finally, on his selection, he joined this prestigious organization on 18th February 2021 to upgrade himself in career progression and to contribute his knowledge and experience to the smooth functioning of campus administration.

Life@IITH:

I have been learning a lot from this organization and it is a very good platform for all who want to grow up in their career. The working environment is also very good. Employees are also friendly. The best thing I found in IIT Hyderabad it has all facilities, banks, stationery, cafe, post office everything is there. It was my dream to work in one of the best institutions and finally, I achieved it.



Mr. Chaitanya Subhash Gajbhiye

Junior Technician, Department of Biomedical Engineering

Mr. Chaitanya Subhash Gajbhiye did his B.Tech in Instrumentation Engineering from Govt. College of Engineering Amravati Maharashtra. M.Tech in Industrial Power and Automation, Electrical Department from NIT Calicut, Kerala. Before joining IIT Hyderabad he worked as assistant system engineer under automotive electronics domain in Tata consultancy services and in Technolegal Pvt. Ltd as a patent engineer trainee.

Life@IITH

It is a great experience working with IIT Hyderabad. As India's prominent institute, it is well equipped with all facilities and opportunities. I see this work as a great source of knowledge, talented and experienced colleagues, and exposure to up to date technology.



Ms. Haseena V. K. K. M.

Library Information Assistant, Library

Ms. Haseena did her graduation in Zoology and Post-Graduation in Library and Information Science and MA in Sociology from the University of Calicut, Kerala. She holds an MA in psychology from Indira Gandhi Open University and completed PGDCA from the College of Applied Science Kerala. She qualified for UGC-JRF and NET for the lectureship. Presently she is doing a Ph.D. part-time from the University of Calicut, Kerala. She has more than 5 years of experience in the field of Library and Information Science as a teacher and Librarian.

Life@IITH:

The best thing about being a part of IITH is a supportive and enthusiastic community. Looking forward to learn and contribute to this premier institution.

February 2021 (Non - Teaching Staff)



**Mr. Tirumani
Vamshi Krishna**

Junior Technician, Department of Electrical Engineering

Mr. Tirumani Vamshi Krishna is a Postgraduate in Power Systems Engineering from the National Institute of Warangal. He completed his graduation in Electrical Engineering from IIT Jodhpur.

Life@IITH:

After being on the Job for just over a month, I am learning about the work culture of the institute and the nature of the job to be handled. Being my first job, I am very much excited to contribute to the growth of the Institute by enhancing my skills as required. My experience at the IIT Hyderabad so far is great. The Interactions with the faculty and staff of the Electrical Engineering Department were productive to improve my skills.



**Mr. Sonawane
Gunavant Narayan**

Executive Assistant, Stores & Purchase

Mr. Sonawane Gunavant Narayan is a Graduate (Mechanical Engineering) from North Maharashtra University. Before joining IIT Hyderabad, he served in Jain Irrigation Systems Ltd. He has more than 7 years of experience as an Executive in Production planning & control. He has work experience in General Administration, Production, ISO 9001-2008 Audit & SAP ERP PP Module.

Life@IITH:

Since the time of joining, working here each day is like an opportunity to learn so many things. After my joining, there is a rush of "March ending", Still everyone gave me ample time to know the things. I saw "Team Spirit" at par here. Other things to be noted here at the campus are disciplined behavior owing to the prevailing Covid situation, Clean Environment, Enthusiastic youth, supporting people & delicious food. It will be grateful to work here & become a part of the prestigious IIT Community.



**Mr. Gottapu
Naga Satish**

Executive Assistant, Department of Chemistry

Mr. Gottapu Naga Satish is an undergraduate holding the degree of B.Sc(MPC) from Sir.C.R.Reddy Autonomous college, Eluru, W.G.Dist, AP affiliated to Andhra University, Visakhapatnam, and at present pursuing a Master's in Public Administration from IGNOU. He had completed his schooling from Jawahar Navodaya Vidyalaya, Pedavegi, W.G.Dist, AP. After graduation, he joined the Department of Posts, Government of India where he worked as a Postal Assistant for 7 Years from 2014 to 2021 in the fields of administration, Accounts, etc.

Life@IITH:

I feel very happy to have a good campus environment, infrastructure, medical facilities, cordial work culture, etc at IITH and it gives me immense pleasure to work in an institute of national importance.



**Mr. Sandolla
Dasharath**

Executive Assistant, Finance & Accounts Section

Mr. Sandolla Dasharath done his master's in Signal Processing from JNTU College of Engineering, Hyderabad, and graduated in ECE (B.Tech) from JNTU CEH. Though he is from a rural background, he has never taken it as a minus for his career. Upon completing graduation, immediately he has started his professional life as Software Engineer in Tech Mahindra Ltd. His interest towards administration profile in government organizations, he started trying for competitive exams and yes, he succeeded in his very first attempt. He has been selected for the post of Tax Assistant in Central Board of Indirect Taxes and Customs through Staff Selection Commission CGL-2015 and to join the same he quit his software profession and joined in government organization in the year 2017.

Life@IITH:

The unique thing I found in IIT Hyderabad from an employee point of view is the comfort of a government job and the atmosphere of a corporate job.

February 2021 (Non - Teaching Staff)



**Mr. Dodle
Tarun Sagar**

Junior Accountant, Finance & Accounts

Mr. D. Tarun Sagar is a Graduate (BCOM) from Osmania University and also holds CA-Inter from ICAI, New Delhi. Before joining IIT Hyderabad, he served as an Accounts Officer in Nektar for six months, as an Accounts Assistant in IIT Hyderabad for almost 2 years and also completed his CA Articleship in Sagar & Associates (Chartered Accountants).

Life@IITH:

As I had 2 years of good work experience and a positive work environment in IITH, I am very happy to come back as a Junior Accountant. And specifically, during COVID, IITH has taken proactive measures to minimize the spread of the virus and also grateful to have vaccination camps on the campus.



**Mr. Kasubojula
Sharath**

Junior Technician, Department of Biomedical Engineering

Mr. Kasubojula Sharath did his MTech in Control & Automation (electrical engineering) From NIT ROURKELA and BTech in Electronics & Instrumentation Engineering from Kakatiya University. He worked as a senior research fellow in C-MET (Centre for Materials for Electronics Technology) Hyderabad for 3 years, where he used to work on Silicon Carbide single crystal growth process. It was sponsored by DRDO. He used to work with different research equipment.

Life@IITH:

I joined IIT Hyderabad on 24th February 2021 as Junior Technician in the Biomedical Engineering department. since the beginning, I am overwhelmed to work in IITH. I am admired to see the research going on at IITH especially in the BME department. research work that has been carried out by CfHE is very interesting. Every department is Fantastic in its area of research. Equipment in labs is very high-end equipment and well sophisticated. Colleagues are so friendly, professional and highly knowledgeable. It is so much privilege for me to be part of IITH. I feel very happy to have a good campus environment, infrastructure, medical facilities, cordial work culture, etc at IITH and it gives me immense pleasure to work in an institute of national importance.



Mr. Nagaraju Naddi

Junior Technician, Department of Electrical Engineering

Before joining IIT Hyderabad, Mr. Nagaraju Naddi worked as an Assistant professor in Vardhaman college of Engineering for around 5 years. He completed an Internship at ST Microelectronics on Power Line Communication. He Completed M.Tech in Communication Engineering from VIT University and B.Tech from SRTIST, JNTUH affiliated college in Electronics and Communication Engineering (ECE). He is a Certified LabVIEW Associate Developer by the National Instruments. He published many papers in Various Journals and Conferences.

Life@IITH:

The work environment is good at IITH. I am working under Prof. G V V Sharma sir in the CSP (Communication and Signal Processing) Lab.



Mr. George K. T.

Hospitality Management Assistant, Hostel office

Mr. George has done his Bachelor's in Hospitality & Hotel administration from IHMCH, Kovalam. He started his professional career with a group of hotels called CGH Experience hotels, where he worked for their multiple units for about 7 years. After CGH he worked for Reimann's Fine foods, a subsidiary of the German company Backerei Steibling which primarily baked cheesecakes. After working there for about 5 months, he got an opportunity to work for a catering company in Muscat called Arabian Edge, where he was the Head Chef and worked there for about 3 years. After his stint abroad he was back in India and helped in setup and worked in a restaurant in Hyderabad called Pepper Treats before joining IIT Hyderabad.

Life@IITH:

I joined IITH on the 25'th of February 2021 and it has been a wonderful journey so far despite the pandemic. I wish the pandemic gets over soon and everything is back to Normal.

February 2021 (Non - Teaching Staff)



Mr. E. R. Jyothilingam

Junior Technician, Department of Materials Science and Metallurgical Engineering

Mr. E .R. Jothilingam holds a Diploma in Electronics and Communication Engineering (ECE) from DoTE, Tamandu. He has done a training program at Central Electronics Center (CEC), IIT Madras, where he trained and had hands-on experience in service and troubleshooting of various sophisticated instruments used at different labs in IIT Madras. Before joining IIT Hyderabad he served at the Indian Tsunami Early warning center (ITEWC), which is providing tsunami services to India and Indian Ocean rim countries and is based at and operated by Indian National Centre for Ocean Information Services (INCOIS).

Life@IITH:

It's my immense pleasure to join the IITH fraternity where I can work to learn and learn to work in areas of technology and research. I never felt that I joined a new organization because the people I met on my very first day of joining are more friendly. My colleagues and superiors are helping me more to focus on my new assignments. I hope that I can have very useful and interesting days in IITH.



**Mr. Mohammad
Abdul Junaid**

Junior Technician, Computer Center

Mr. Mohammad Abdul Junaid joined IIT Hyderabad as a Junior Technician in the Computer Centre. Junaid is a Graduate (B.E Electronics and Communications Engineering) from Deccan college of engineering and technology affiliated with Osmania University. Before joining IIT Hyderabad, he served in a couple of IT Services and Software Product Companies like CA Technologies, Factset, etc. He has more than 8 years of experience in the field of Cyber Security and Security Operations Centre.

Life@IITH:

It's a moment of pleasure to be part of IITH, so far it's been a great experience of learning and I feel happy to be surrounded by exceptional people who are very knowledgeable and equally friendly to approach. I like the campus and enjoy my work and I strongly feel that I am at the right place to fulfill my passion for technology and achieve greater success in life. I hope my contributions will be mutually beneficial for the IITH success!!!



Ms. Avvari Vedavani

Physiotherapist, Clinic

Ms Avvari Vedavani has obtained her Masters of Physiotherapy – Orthopedics (Manual Therapy) degree from Manipal University and was awarded as gold medalist and Best outgoing student of the batch 2014. She is also a certified Dry Needling Practitioner. She started her career leading the Physiotherapy unit at Goldman Sachs, for Manipal Hospitals Bangalore. After serving Manipal Hospitals for 4 years, her passion for growth made her an Entrepreneur – Founder of Conquistar Physios. She launched 5 physiotherapy units at various locations in Bangalore including tech parks like Embassy Golf Links and Prestige Tech Park. Her interest in sharing her knowledge and expertise amplified when she was given the responsibility to start Sports Exercise Health Science – Higher level for International Baccalaureate Diploma Program (IBDP) at Neev Academy, Bangalore. Having achieved it for 2 successful years, she looked forward towards pursuing PhD and dive into the world of research. She secured TMA Pai scholarship to pursue PhD under Manipal University. She dropped her offer to join the prestigious IIT Hyderabad.

Life@IITH:

I feel privileged to have joined IIT Hyderabad, one of the best places for research. My journey so far has been exciting, I get to learn a lot from the people I meet every day. Every time I meet a student or faculty or staff, I get thrilled knowing their contribution in the field of research. Having been trained in the best of the Physiotherapy schools, I am keen to deploy the learnt skills and deliver the technical content. IITH is a place with positive minded enthusiastic people, and I am looking forward to bring in healthcare initiatives for various age groups. Explore the unexplored.. Learning Continues.



Mr. Gollapalli Nagesh

Junior Accountant, R & D Section

Mr. Gollapalli Nagesh, completed his post-graduation from the Kakatiya University Before he joined IIT Hyderabad he has four years of experience in the accounts section in various government organizations such as the National Institute of Plant Health Management, TIFR Hyderabad, and NIEPID Navi Mumbai.

Life@IITH:

I am very privileged to work in IIT Hyderabad, One of the prestigious institutes of India. I am learning many things in the process of interacting with senior staff and faculty, a good friendly working environment and I get to learn a lot from here.

February 2021 (Non - Teaching Staff)



Mr. Rajesh Kumar

Junior Technician, Department of Civil Engineering

Mr. Rajesh Kumar is a Diploma holder (Civil Engineering) from Government Polytechnic Dhanbad, Jharkhand. Before joining IIT Hyderabad, he worked as a Junior Engineer (Civil) in the Civil Maintenance section in NIT Jamshedpur for more than 3 years.

Life@IITH:

I joined the Indian Institute of Technology Hyderabad in February 2021. I am very happy and proud to be a part of the vibrant IIT Hyderabad family. I will give my best for the growth of the institute. Thanks to IITH.



**Mr. Asutya Kumar
Biswal**

Junior Technician, Materials Science and Metallurgical Engineering

Mr. Asutya Kumar Biswal completed Matriculation in 2006 from Govt. High school Gotamara and Diploma in Metallurgy from IGIT SARANG Odisha in 2009. He did his BTech in Metallurgy from GIET GUNUPUR Odisha in 2013 and MTech in Material science and Engineering from IIT Bhubaneswar in 2017.

Life@IITH:

Due to this pandemic situation, I have very little experience at IITH but one thing I need to emphasize here that all IIT Hyderabad fraternity are very cooperative in all kinds of situations.



**Mr. Uppuleti
Chandramouli**

Junior Accountant, Construction & Maintenance Division

Mr. Uppuleti Chandramouli completed his Mcom from osmania university and started his career with TSRTC as a Junior assistant and moved to powergrid corporation of India Limited, Bengaluru, and later stepped to GAIL as a junior accountant at Delhi. In total, he has seven years of experience.

Life@IITH:

It is a great pleasure working at IIT Hyderabad, where I can apply my knowledge and skill towards the progress of the great institution.

March 2021 (Non - Teaching Staff)



Mr. Sankarreddy A.

Executive Assistant, Stores & Purchase Section

Mr. SANKAR REDDY APPAGARI, is a Postgraduate (M.Sc IT) from Acharya Nagarjuna University. Before joining IIT Hyderabad, he served in various prestigious institutes like IIT Kharagpur and the Rajiv Gandhi University of Knowledge Technologies, Basara. He has more than 12 years of experience in Recruitment and Stores & Purchase.

Life@IITH:

I joined on 1st March 2021, unfortunately, I could not spend more time on the Campus. However, the Campus, Administration, and Location are very good.



**Mr. Venkanna
Bolagani**

Executive Assistant, Human Resource Section

Mr. Venkanna Bolagani holds a Master of Computer Applications Degree from Indira Gandhi National Open University. Before joining IIT Hyderabad, he served in various institutes like IIT Kharagpur and the Rajiv Gandhi University of Knowledge Technologies, Basara. He has more than 12 years of experience in the areas of Academic Administration, Recruitment, and Establishment.

to give my best.

Life@IITH:

It has been one month since I joined IIT Hyderabad. I was well received by my colleagues and all the staff. The work environment is good and encouraging. I see there is a lot of support and recognition from authorities for good work and it is giving me good hope and inspiration.

March 2021 (Non - Teaching Staff)



Sanju Kumar Chavan S.

Technical Superintendent, Computer Center

Mr. Sanju Kumar Chavan S is a Graduate (Computer Science and Engineering) from DRK Institute of Science and Technology. He is Microsoft Certified professional and has more than 10 years of experience in Azure DevOps, Azure Administration, Azure Architect, and MS SQL Database Administrator. He has good delivery excellence, which he had built before with creating architectures for client's infrastructure, delivered seamless deployments, maintained client infrastructure, and built tech talent in emerging markets and Bootcamp grads turned production-ready.

Life@IITH:

So far so good! It's been a short time being part of the IIT-H fraternity, but I had a good experience by learning the work and the way things are delivered here. Unfortunately, due to the pandemic we are away from campus and wish to be back soon to office. Excited to deliver my work and wish the professional journey at IIT-H continues to be filled with good memories!



**Mr. Ashish Kumar
Varma**

Technical Superintendent, Computer Center

Mr. Ashish Kumar Verma is a Postgraduate (MCA) from GBTU (Formerly-Uttar Pradesh Technical University) and holds a BSc (PCM) from the University of Lucknow, Main Campus. Before joining IIT Hyderabad, he served in various organizations like Tech Mahindra Limited Pune, BNY Mellon Technology (India Private Limited) Pune Office, Nucleus Software Exports Limited, Noida. He has around 9 years of experience in the field of Software and Information Technology. He also holds certifications in Object-Oriented Design and Design Patterns from the University of Alberta, Canada. He worked mainly as a java backend/business software component and web-component developer and has led the team as well. He has enriched experience in java technologies and frameworks like Spring, JPA with Hibernate, RESTful Web Services, Maven, etc.

Life@IITH:

So far so good! I have completed more than a month here. It's been a good experience till now, though I belong to the Northern part of India, I didn't face much of a problem. ☺. The faculty and staff are so cooperating and helping. I feel proud to be a part of the IIT-H fraternity. Hope the professional journey at IIT-H continues to be filled with good memories!



**Mr. Vallakonda
Santhosh kumar**

Executive Assistant, Department of Mechanical and Aerospace Engineering

Mr. Vallakonda Santhosh kumar has Graduated (B. Pharmacy) from St. Peters College of Pharmaceutical Sciences (Kakatiya University). Before joining IIT Hyderabad, he was working as an Associate in STATE BANK OF INDIA for 5 years and as an Office Assistant for 8 months in APGVB. He has experience of 7 years in various departments like Banking, Accounts, and General Administration.

Life@IITH:

I have recently joined the institute and it's a wonderful experience to work with IITH. Feeling honored to be part of the great institute and looking forward to good opportunities with the institute.



**Mr. Simhadri
Hari Prasad**

Technical Superintendent, Department of Electrical Engineering

Mr. Simhadri Hari Prasad, obtained his M.Tech (Integrated Circuit -Technology) from the University of Hyderabad (UoH) and B. Tech (ECE) from JNTU Kakinada. Before joining IIT Hyderabad, he worked as Digital Design Engineer for one year and Research Fellow in semiconductor device modelling for three years. His areas of interest are Semiconductor devices, Analog & Digital VLSI.

Life@IITH:

It is one of the fast-growing new universities in India as well as in the world. I am so proud to be part of the development of this organization. Here, good working culture among the faculties and staff. And Also, monthly meetings with HoD helping a lot in developing new labs and improvement of my skills. Webinars conducted in the university assist a lot in learning recent advances in the research domain. On this platform, I would like to thank director Prof B.S Murthy garu for providing hospitality services and monitoring my health condition when I was affected by COVID.

March 2021 (Non - Teaching Staff)



**Mr. Bharath G
Relekar**

Junior Technician, Department of Chemical Engineering

Mr. Bharath G Relekar did his BE (Chemical) from R V College of Engineering, Bangalore. He has 6 years of experience in the field of Manufacturing of Active Pharma Ingredients, Testing of Dielectric Fluids, polymer materials & Handling of different types of lab equipment such as Gas Chromatography, G/C- Mass Spectrometry, High-performance liquid Chromatography & Inductively coupled plasma spectrometry, etc. He served in companies such as M/s Bharat Electronics Limited, Bangalore, M/s Cipla Ltd, Bangalore, and M/s Central Power Research Institute, Bangalore.

Life@IITH:

I recently joined as a Lab technician at IIT Hyderabad & I am very proud to serve this esteemed Institute. The department of Chemical Engineering at IIT Hyderabad has a modern infrastructure having research infrastructure in different areas, which enables the students to achieve proficiency in the areas of chemical process, Energy, Unit operation & computational chemical Engineering subjects. The students can enhance their learning of theoretical concepts by conducting experiments & also help them to use these types of equipment in their professional career also.



Mr. Dinakar Pyla

Executive Assistant, Stores & Purchase Section

Mr. Dinakar Pyla studied Bachelor of engineering and an MBA from Andhra University. Before joining IIT Hyderabad he Worked in HSBC and Material organization (Defence civilian in Indian navy).

Life@IITH:

It's a wonderful experience working with IIT, bringing back all memories in hostels, library, labs, and workshops of my college days.



**Ms. Priyanka
Patheparapu**

Executive Assistant, Centre for Continuing Education

Ms. Priyanka Patheparapu has done her BTech, Biotechnology but out of her passion, She has chosen Banking. Before joining IIT Hyderabad, she was working as a Manager at the Bank of Baroda. She has good experience in the field of Banking and general administration.

Life@IITH:

I am privileged to be a part of the IITH family. I got good support from the administration team throughout my joining process. Leaving my beloved Bank job was not an easy decision for me. Still, with the constant support and encouragement from my superiors and the measures taken by the IIT for its employees, I can feel secure and happy working environment. I am very excited to grow with the organization.



**Mr. Golla Vamsi
Krishna**

Multi Skill Assistant, Management Services Section & Green Office

Mr. Golla Vamsi Krishna completed his Intermediate from the Board of Intermediate Education. Before joining IIT Hyderabad, he worked as an Office assistant in SCASA company with more than 4 years of work experience.

Life@IITH:

As for me, It was a great experience working in the IIT Hyderabad and it is the best place for a person to work. Here the faculty and staff are very helpful to guide me through the responsibilities. The environment gives positive energy to work, and I am looking forward to contributing myself to work in this organization.

March 2021 (Non - Teaching Staff)



Mr. Hardeep

Sports Officer Grade-I, Sports Department

Mr. Hardeep did his Masters in Physical Education from Kurukshetra University Kurukshetra (Haryana) and is also a Diploma holder with an 'A' grade in Swimming Coaching from Netaji Subhas National Institute of Sports (Sports Authority of India), Patiala. Before joining IIT Hyderabad, he served in various prestigious institutes like Lakshmbai National Institute of Physical Education, Gwalior, and National Institute of Technology, Kurukshetra. He has 06 years of experience in the field of Swimming Coaching and Physical Education & Sports. As a Coach, he produced many State level swimmers and National medalists. He also trained physically challenged Para Swimmers and 42 MED REGT (DBN) Indian Army. He worked as a Swimming expert (Resource Person) in many refresher courses for NVS, KVS, and DEFENCE & College Cadre. All over he is specialized in swimming coaching and also has a good command in other sports like Badminton, Basketball, Judo, etc.

Life@IITH:

I recently joined the institute and have found the extraordinary infrastructure is here and the best-to-best is still developing. I feel that the working environment is positive here, our Faculty in charge (Sports) and colleagues are very supportive. Feeling honored to be part of this great institute.



Mr. Gummadi Anil Kumar

Junior Engineer (Civil), Construction & Maintenance Division

Mr. Gummadi Anil Kumar joined as Junior Engineer (Civil) in CMD, IITH on 24th March 2021. He completed his M. Tech in Marine Structures from the National Institute of Technology Karnataka (NITK Surathkal) and holds B. Tech (Civil Engineering) from RVR&JC College of Engineering, Guntur. Before joining IIT Hyderabad he worked as Project Scientist I (Civil) at the National Institute of Ocean Technology (NIOT), Chennai. He has more than 6 years of experience in the construction and maintenance of Civil Structures.

Life@IITH:

I am very much delighted to be part of this reputed institute which has worldwide recognition. It has an environment which makes us work enthusiastically and learn new technical things every day.



Ms. Suchismita Banerjee

Executive Assistant, Department of Electrical Engineering

Ms. Suchismita Banerjee is a Postgraduate (ESD with the subject Entrepreneurship) from USI, in collaboration with politecnico di Milano and ETH Zurich, Switzerland (with scholarship). Before joining IIT Hyderabad, she served in various prestigious institutes like SNBNCBS Kolkata, IIT Bombay, ALaRI Switzerland (Part Time job), IIT Kharagpur, IEST Shibpur and Websol Energy System Ltd.

Life@IITH:

Good

Please send your suggestions to:

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Contact: +91 40-2301 6099, +91 83310 36099
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