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Dear Readers,

Hope you are doing well!

As we unwrap this issue of किरIITH, we want to take a moment to extend our heartfelt thanks to you dedicated readers. engagement are the base of what we do, and we're incredibly grateful for each and every one of you.

Your enthusiasm, feedback, and continued interest discussions. in our content inspire us to strive for excellence and keep bringing you stories and insights of IIT Hyderabad. Knowing that our work resonates with you makes all the effort worthwhile. Like every time, this issue is also being dedicated to one of the This issue is tinted with Army green that key thrust research areas of IITH.

another critical area of research at IITH, groundbreaking research area where IITH "Defence@IITHyderabad" - Vol - 6, Issue-1, Jan- Mar continues to make its mark, Inventing and 2024 (Issue - 18). Defence Research has become an Innovating in Technology for Humanity. Your indispensable thrust area in many departments at support inspires us to come back with an even IITH. Defence Research provides a vibrant more enhanced and enriching experience in the platform at IITH to foster inter-and trans- upcoming calendar year, featuring exciting new disciplinary collaborations among the different editions of 'किरIITH." departments.

In today's rapidly evolving global landscape, defence research plays a critical role in shaping the Happy reading and stay connected!" future of national security and technological advancements.

Our aim in this issue is to delve into the multifaceted world of defence research, exploring its impact on both current and future military capabilities.

We believe that understanding the nuances of Your support and defence research is crucial for grasping the broader implications for global security and technological progress. We hope this issue provides valuable insights and sparks thoughtful

> The cover page pertinently describes the evolution of defence research from a test tube in a laboratory to a Space Shuttle in the sky scape. symbolizes strength and resilience.

Following this precedence, we are back with yet "We will return next quarter with another

"Wishing everyone a safe and healthy experience.



Dr Mudrika Khandelwal (Dean – Alumni & Corporate Relations) {Editor-in-Chief}



Prof C Krishna Mohan (Department of Computer Science & Engg.)



Prof Deepak John Mathew (Professor, Department of Design)



Ms Ankita Roy (Assistant Professor, Department of Design)



(Faculty-in-Charge - Public Relations)



Dr Bhojaraju Gunjal (Chief Library Officer)



Mrs Meena Kumari (Public Relations Officer)



Mr Anand Sharma (Media & PR Secretary, Student Gymkhana)



Front and Back Page Design by Atul Antony MDes, 2nd year student

"

Dream, dream, dream. Dreams transform into thoughts and thoughts result in action -

Dr APJ Abdul Kalam



Dear friends,

I hope you are all in good health and high spirits.

As we navigate through another exciting quarter, I want to take a moment to connect with each of you and share some reflections on our journey of IIT Hyderabad.

As we delve into this edition of our newsletter, "किरIITH" (KirIITH) – The Crowning Glory, I am excited to share with you the latest advancements and milestones in our defence research efforts. Our commitment to innovation and excellence in this critical field continues to drive us forward, and I am immensely proud of the progress we are making.

IITH hosted the second edition of India's largest R&D Innovation Fair by Higher Education IInvenTiv-2024, Institutes inaugurated Hon'ble Union Education Minister Dharmendra Pradhan. Featured 52 institutes, including IITs, NITs, IIITs, IISERs, showcasing 120 projects, which attracted over 2000 industry stakeholders. Five panel discussions were held, and one technology transfer agreement was signed during the event. IIT Hyderabad Cluster received a prestigious Rs. 60 crore grant from DST for establishing the ground-breaking Centre for In-Situ and Correlative Microscopy (CISCoM)

IITH and Simpliforge Creations installed India's first Pedestrian Bridge using Indigenous 3D Printing Technology. The concept and design were developed and evaluated by Prof. K.V.L. Subramaniam of Civil Eng., and his research group.

The collaboration between the Indian Institute of Technology Hyderabad (IITH) and the Japan International Cooperation Agency (JICA) reached new heights as the JICA Chair Lecture Series concluded successfully. The event brought together 200 young design enthusiasts, setting the stage for future collaborations and educational initiatives. The event was also energized with the 2nd edition of "Ayaam" - Annual Fest of the Department of Design, IITH.

Several MOUs were signed to establish collaborations to work together in various areas of academic and R&D prospects. To name few such,

- Technology Transfer agreement between IIT Hyderabad and E-Spin Nanotech to pilot commercial application of Cellulose-based Nanofiber Feminine Hygiene Products.
- Viterbi School of Engineering, University of Southern California, USA, For Cooperation in the field of Research and Education
- Intel India, Aiming at Technological Advancements

In a historic moment, the Indian Institute of Technology Hyderabad (IITH) witnessed the dedication of its transformative Campus Development Project to the nation by the Honorable Prime Minister, Shri Narendra Modi via Video Conference. The event's joy was manifold with the august presence of Dr (Smt) Tamilisai Soundararajan, Hon'ble Governor of Telangana and Lieutenant Governor of Puducherry.

IITH has vibrantly celebrated the Elan & η Vision-2024 and its 16th Foundation Day, with Prof Abhay Karandikar, Secretary, Department of Science and Technology, Government of India, as the Chief Guest of the Event.

This remarkable progress reflects the trust we have earned through the collective efforts of our outstanding faculty, staff, and students. I extend my heartfelt gratitude for your dedication and hard work.

Our relentless pursuit of excellence and commitment to academic growth drive our continued success. Together, we can achieve even greater milestones in the future.

I extend my best wishes for a time filled with happiness, fulfilment, and endless possibilities.

~ B S Murty

Concrete 3D Printing with a Portable Robotic Arm for the construction of Bunkers and AnciLlaries (PRABAL) in Forward Areas

KID: 20240101

Abstract: In a significant technological milestone, Project PRABAL has successfully demonstrated the construction of military bunkers using on-site 3D printing technology. This innovative project has opened new frontiers in military engineering, offering practical solutions for constructing defense structures in some of the world's most challenging environments. Using local materials, on-site printing of an Observation Post (OP) bunker in Leh under High Altitude Oxygen (HALO) conditions demonstrated. The technological for advancement required on-site the fabrication of the structure includes overcoming adverse environmental conditions of extremely high UV, wind, and drying exposure. Printing in a remote access location within Leh further proves the robustness of the technology. The success of PRABAL is particularly noteworthy operationalization under High Altitude, Low Oxygen (HALO) conditions, which limit the efficiency of mechanical systems. Producing concrete under adverse conditions UV, wind, extremely high and exposure showcases the advancement in material processing and delivery systems used in 3D printing operations. Tactical planning and mobilization of resources to execute in a remote access location is the keystone to future deployment.





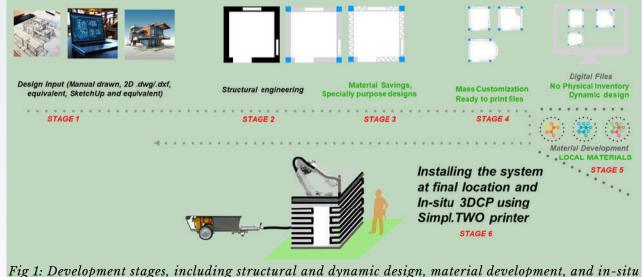




The environment and location are typical of many military operational areas, and the project's success in these conditions marks a new era in military construction.

Introduction: Forward areas are remote access with inclement weather conditions. Creating protective structures with high protection for personnel has remained a challenge. Typically, protective structures are exposed to small-arms fire and low-level blasts. The threat perception ranges from high-velocity medium machine gun (MMG) rounds and blasts from rocket-propelled grenades (RPGs).

3D concrete printing provides a solution for rapidly deploying protective structures such as bunkers and ancillaries. 3D concrete printing also allows the development of form-optimized structures for protection. The geometric freedom provided by 3D printing allows printing shapes that provide enhanced protection for the different threat perceptions.



printing.

Research Diary

Advantages of adopting 3D Printing by the Indian Army for deployment in forward areas include (a) Rapid Construction of defense bunkers and fortifications in remote places at much faster pace and with limited manpower, which in turn will help in the defense preparedness of our forces; (b) Tailor-Made Structure and the freedom of design with 3D printing, when coupled with the structure's composite construction, will help design and build the structure according to the terrain and threat perception; (c) Inbuilt camouflage and concealment based on the terrain requirement, which will blend with nature; (d) In disaster relief Operations, the rapid pace of construction will help deliver temporary shelter more quickly and efficiently; (e) The freedom in design coupled with the on-site printing will help to build the obstacles, thereby inflicting delays on the enemy advance.

3D concrete printing consists of material deposition in layers. The actual process consists of developing a layer-by-layer representation of the structure. This process, known as tessellation. creates representation of the structure for developing the 3D printed form. The material deposition contours are developed to place the material at the desired location. The entire structure is then printed by depositing the layers with material along the predetermined contours. The process of developing the digital representation of the structural design, material development, and printing the actual structure is shown schematically in Figure 1. 3D Concrete printing offers the advantage of printing complex geometric shapes formfree. The advantages of 3D printing include: (a) Structures are lightweight and efficient in performance; (b) Material is used efficiently, resulting in a reduction of wastage; (c) Structures can be fabricated in a significantly shorter time compared to conventional methods; (d) Automation and reduction in labour requirement.

Project PRABAL:

Project PRABAL, which stands for Portable Robotic Arm for constructing Bunkers and AnciLlaries, was conceived to transform how military bunkers are built. This collaborative project to demonstrate on-site 3D Printing of an OP Bunker with local Materials under extremely harsh environmental conditions in a remote access area. A typical view of the project site and the environmental conditions are shown in Figure 2. The project chose a typical OP bunker to demonstrate in-situ printing and the feasibility of deployment of the technology in forward areas. The site for the fabrication of the 3D-printed structure was Leh (within the Army control area). Leh allows 3D printing to be demonstrated under extreme environmental and remote operating conditions.

The project rested on four pillars: (a) Development of an all-terrain Robotic Arm for 3D Concrete Printing; (b) 3D design mixture development as per the terrain condition; (c) Optimized Structure as per the threat perception; and (d) Development of Printing strategy as per the terrain conditions site specifications.

3D Concrete Printing System

A robotic arm printing system was developed and transported to Leh. The robotic arm system, including material delivery and placement systems, was developed indigenously. A schematic and photograph of the Robotic Arm printing system is shown in Figure 3. A customengineered, pressure-controlled continuous pumping system has been developed to deliver 3D-printed concrete (3DCP). This system was optimized for locally sourced sand, cement, and The system includes advanced aggregates. for real-time monitoring controls adjustments, allowing for the precise delivery of concrete mixtures tailored to the specific demands of 3D printing designs/geometry. The same pump can be used for finishing works. The system has a rubber hose of varying length and size connected to a circular nozzle.

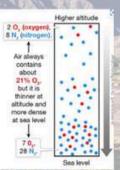


Fig 2: The site for in-situ printing and the local conditions.

\mathbf{C}	perati	ng	Con	diti	ons	
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- Altitude 3500m
- □ Reduced Oxygen content
- Atmospheric pressure: 0.65 atm
- Relative humidity: 30% (dry to very dry)
- Wind: 12 kph (moderate to high)
- UV index: 13 (extremely high)

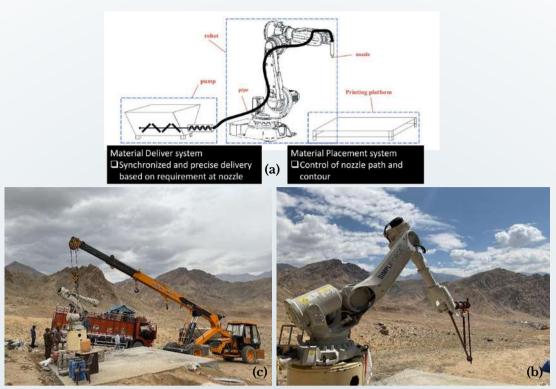


Fig 3: (a) Schematic of the robotic arm printing system; (b) The robotic-arm printing system being off-loaded on site; (c) Installation and operation of the robotic arm system in Leh.

Material ink Development

A concrete mixture is used for printing in the robotic arm printing system. An engineered concrete mixture was developed using local materials that would provide printability. This mixture ensured the structural integrity of the printed bunker, even under harsh conditions. The concrete mixture modified to resist challenging environmental factors such as drying, quick setting, and low permeability, ensuring the material's performance in diverse conditions.

The developed concrete mixture had shape retention (held its shape after extrusion under pressure and deposition). It allowed buildability, where multiple layers could be stacked along a contour (as shown in Figure 4(a)). The printing along the predetermined contours of the OP bunker system in Leh is shown in Figures 4(b) and (c).

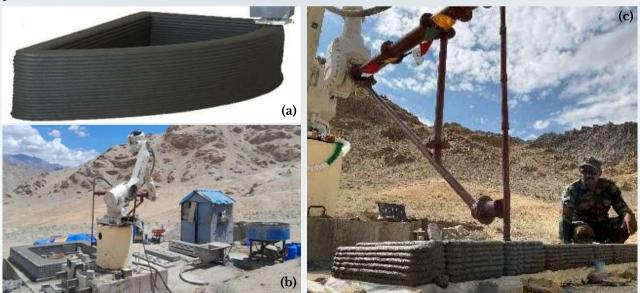


Fig 4: (a) printability testing of the concrete mixture; (b) and (c) contours of the OP bunker being printed in Leh.

A form-optimized, engineered protective structure with integrated reinforcement was developed. The form-optimized printed structure consisted of multiple layers of printed filaments with a functionalized façade. The arrangement of the filaments was developed to enhance structural resistance to blast loading.

The functionalized façade was developed for ricochet minimization. The highly functional design provided high structural efficiency at low material usage while ensuring high protection. A schematic and photograph of the form optimized functional printed form of OP Bunker are shown in Figure 5.

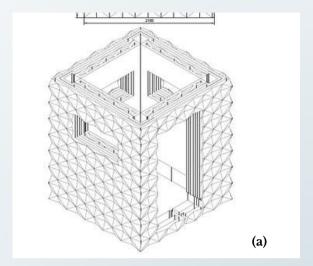




Figure 5: (a) schematic of the form-optimized structure; (b) the printed OP bunker in Le.

Summary

The form-optimized structure with enhanced ballistic protection was printed in ten days with fourteen hours of printing time. This project demonstrates the application of rapidly Indigenous technology for deployable additive structures adopting manufacturing principles on-site construction in forward areas, thereby increasing defense preparedness.

The project is an outcome of the collaboration of a startup company and IIT Hyderabad that has delivered on previous projects, such as the deployment of a

3D printed bridge (https://www.youtube.com/watch? v=Zjo0enwcCUU) and on-site printed medical facility with local materials for the Indian Army (https://www.linkedin.com/feed/update/urn:li:acti vity:7229098948399935488)

The printed bunker represents a ground-breaking milestone in military construction with advancements in material processing, design methodologies, and production procedures for fabricating structures. The pioneering work and technological advancement helped enhance the defense preparedness of the Indian Army.

[1] Mr Prashant R Singh
PhD Scholar, Department of Civil Engineering

[2] Prof Kolluru V L Subramaniam Department of Civil Engineering

[3] Mr Dhruv Gandhi Director, Simpliforge Creations Pvt Ltd

[4] Lt Col Arun Krishnan (MTech IIT Hyderabad, Indian Army

Veera - Tactical Dynamics



KID: 20240102

Veera Tactical Dynamics is a leading Defence-technology company and futuristic combat partner of the Indian Navy. We're focused on the Research and Development of Advanced materials to revolutionize the Defence, security & civilian sectors. Our mission is to provide innovative, high-performance, and sustainable material solutions to address the most critical challenges faced by the military, law enforcement and homeland security agencies.

Veera Tactical Dynamics was founded by Mr Sai Teja Peddineni a Volcano climber, Serial entrepreneur and Former security Consultant for various institutions in the intelligence community.

Our core strength lies in integrating groundbreaking lightweight, high-strength, temperature-resistant, and stealth materials. Our interdisciplinary team creates transformative technologies to boost the operational effectiveness and safety of Defence systems and personnel. U-Safe Fire-Resistant Suit: Protects the Wearer from short exposure to fire (+350° C) and Hazardous Materials.



Our product line includes:

Tardigrade Suit: Survives extreme temperatures (-200°C to +1000°C).



IITH | Volume 6 | Issue 1 | Jan - Mar 2024 | Defence @IITH | 09

ECWS: The warmest cold weather clothing system capable of withstanding upto -200° C while maintaining troop comfort and operational ability, Weighing Just 900 grams.

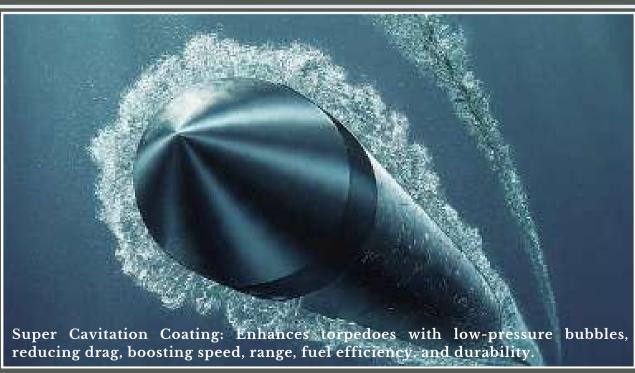


IR Stealth Protection Clothing: Shields its wearers from adversary sensor systems during operations in the dark, providing a tremendous advantage over the adversaries.



Moisture Wicking Hydrophobic Weapon Cover: World's first Technical Fabric which is Flame Proof, Hydrophobic, moisture wicking and has high tensile strength. Weapon Cover has been successfully field tested and currently in the Phase of Procurement.





Veera Tactical Dynamics has been recognized with the "Innovations for Defence Excellence PM Awardee (Idex)" for Challenges OC 6.0 and Disc 7.0 Sprint, showcasing our dedication to pushing the boundaries of Defence technology.

Our Memorandum of Understanding with the Indian Navy further solidifies our position as a research and innovation combat technology partner, underscoring our commitment to advancing cuttingedge solutions and bolstering India's defence capabilities.

signed historic Recently, we Memorandum of understanding with S Carfil S.A., one of the most active subsidiaries of CN Romarm SA, stateowned enterprise of Romania specialized the production of armaments, ammunition, dual-use products and equipment, with over 100 years of experience.

The document signed on May 29 2024 In the Embassy of India in Romania.

This strategic collaboration was made possible with the invaluable support and facilitation by the Embassy of India in Romania and the Society of Indian Defence Manufacturers (SIDM).

We extend our heartfelt gratitude to these organizations for their assistance in achieving this milestone.

We believe that this partnership will not only enhance our product offerings but also significantly contribute to our growth and technological advancement.

We are excited about the opportunities this MoU brings and look forward to continuing our journey of innovation and excellence with the support of iTIC Incubation at IIT Hyderabad.

Mr Sai Teja Peddineni Chief Executive Officer Veera Tactical Dynamics E block, TIP IIT Hyderabad





Fri, 12 Jan-24; Pioneer - Hyderabad; Size : 124 sq.cm.; Circulation:55000; Page : 4

Hyderabad is a Life Sciences capital: IIT-H chief Uday Desai





THE TIMES OF INDIA

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Mon, 19 Feb-24; Times Of India - Hyderabad; Size : 14 sq.cm.; Circulation:123000; Page : 3

IITH summer internship for 200 students

Hyderabad: The Indian Insti-tute of Technology, Hydera-bad (IITH) will be offering bad (ITH) will be oftering summer internships to as ma-ny as 200 students as part of the Summer Undergraduate Research Exposure (SURE) programme. Internships are scheduled to start in May 2024.

Of the 200 slots, 50 will be reserved exclusively for girl students. Second and third-year BTech or BDes students, first-year MSc or MA stu-dents, and third and fourthyear integrated BTech-M Tech students are eligible for these internships. According to institute, a

student can apply in any of the 19 departments of IITH as per their interests. "However, only a single application will be allowed," a release read. Two

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Thu, 04 Jan-24; Telangana Today - Hyderabad; Size : 49 sq.cm.; Circulation:88000; Page : 5

IITH set to make fertilizers from waste

STATE BUREAU

Indian Institute of Technology-Hyderabad (HTH) Director Prof BS Murty has sought support from San-gareddy district admini-tration to convert waste produced in Kandi mandal uto openie, fortiliber and

tration to convert waste produced in Kandi mandal into organic fertilizer and manufacture bricks with the remaining waste.

Talking to Sangareddy MLA Chintha Prabhakar, who visited IITH on Wednesday, Prof Murty said they would build a shed in the dumpyard where they could make organic fertilizer and bricks out of waste.

THE HANS INDIA

Wed, 21 Feb-24; The Hans India - Hyd; Size : 203 sq.cm.; Circulation:78098; Page: 3



IIT Hyderabad campus dedicated to the nation by PM

HYDERABAD

THE Indian Institute of Tech-nology Hyderabad (IITH) witnessed the dedication of its transformative campus development project under the second phase to the nation by Prime Minister, Navendra Modi virtually on Tuesday.

According to the officials, the dedication ceremony included key buildings such as the international guest house, convention centre, technology incubation park, knowledge centre, sports and cultural complex, students' hostels, and various academic and administrative buildings, collectively valued at Rs 1,089

Urging students to con-tribute back to the nation, Telangana Governor Tamilisai Soundararajan said, "IIT Hyderabad is known for its excellence in technology and innovation, with a top 8 rank in engineering and a top 3 rank in innovation by NIRF 2023. I have been witnessing the campus's progress since my inception as Governor of the State. The development of low-cost ventilators by IFFH's innovators was once a personal memory, "Because edu-cation is now student-centric, I am sure many such novel initiatives will be making a mark in the journey of Viksit

Dr BVR Mohan Reddy. chairman, board of governors, ITI'H, said, "The dedi-cation of the ITI Hyderabad campus to the nation is a testament to our unwavering commitment to academic excellence and innovation. This world-class facility sets new standards for educational in-stitutions in India and aims to be the top-100 global insti-tute in the future."

Professor B S Murty, direc-tor, HTH, said, "The dedication of the campus to the na-tion is a proud moment for the entire ITTH community.

Sachiko Imoto, senior vice president, IJCA, said, "The dedication ceremony is a symbol of the successful collaboration between India and Japan in the field of education and technology.

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Tue, 23 Feb-21; Deccan Chronicle - Hyderabad; Size : 15 sq.cm.; Circulation:43099; Page : 2

Humidity prolongs life of virus, reveals IIT-H study

OC CORRESPONDENT
HYDERABAD, FEB. 22
Droplets of SA/RS-Cov 2
take three times longer to
dry on mobile phoness
than on glass surfaces,
according to Intest
to dry.
Saliva droplets, they found
that the latter take longer
time to dry.
Saliva droplets, consist
research on fluid dynamics carried out at fift
Hyderabad.
The droplets of size
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the infected person were
tested on different surfaces as part of the
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THE TIMES OF INDIA

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IIT-H begins RHYTHM talk series

Hyderabad: To encourage PhD and post doctoral students to take up a career in academia, the Indian Institute of Technology Hyderaba (IITH) has started a new talk series wherein young faculty will be sharring their views and experiences.

their views and experiences.

The initiative-Rendezvous with Young IITH
Minds (RHYTHM), has been started by the sponsored
research & consultancy office at the institute.

"Ganf to share a new initiative, RYTHM, on behalf
of the #ResearchAdvisoryCommittee," read a tweet
from IIT Hydershad with
the handle @IITHydersh
had.

the handle will Triydera-had. part of the talk seri-es, indicatil Mailk, an assi-stant professor from the Biotechenology department addressed studentson Wed-nesday at the ITT campus. "The first talk would be given by Dr bordrand Mailk on January 31. These enga-ging sessions aim to provi-de valuable guidance and inspiration to our senior PhDs & Postdocs in their transition to a carser in academia," sweeted Chand-ras Sheklar Sharma, deen. sponsored research and

Chronicle IlnvenTiv-2024: IIT Hyderabad and E-Spin Nanotech Ink Technology Transfer Deal

THE TIMES OF INDIA

Sun, 03 Mar-24; Times Of India - Hyderabad; Size : 39 sq.cm.; Circulation: 123000; Page : 4

17 US varsities delegation visits IIT Hyd over edu partnerships

Hyderabad: A delegation comprising senior leaders from seventeen US unneversities, sea, along with members of the Institute of International Education (IEEE, visited the indian Institute of Technology Hyderabad (ITFI) as part of a seven-day visit to India for the Centre for International Partnership's 2023–24 IEE Country Spotlight Series India.



theoing collaboration in rese-arch and higher estocation between the two nations.

In the collaboration of the collaboration of the tendo VSR initiation on Critical and Emerging Technologies of CETT and its five research threat areas, including bilater-al student occhanges (CG3-1) programs, co-supervision of research should be collaborative point depres programs and initiatives for enhanced academia influsive connections and the establishment of Academia Influsive y Connections demia influsive y Connections.

LSS with joint imposs-tions.

Senior leaders from 15 US universities and IIE members visited IIT Hyderabad



hronicle

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Tue, 23 Feb-21; Deccan Chronicle - Hyderabad; Size : 15 sq.cm.; Circulation:43099; Page : 2

Humidity prolongs life of virus, reveals IIT-H study

CCORRESPONDENT
HYDERABAD, FER. 22

Droplets of SARS-Cov 2
take three times longer to
dry on mobile phones
than on glass surfaces,
according to Intest
to dry
Saliva droplets; consist
research on fluid dynamics carried out at IITHyderabad.
The droplets of size
than of saliva or discharpe from the nose of
the infecced person were
tested on different surfaces as part of the
research.
Researchers dried the

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Tue, 20 Feb-24; Eenadu - Hyderabad; Size : 162 sq.cm.; Circulation:305600; Page : 12

ఐఐటీహెచ్ ప్రాజెక్సును నేదు జాతికి అంకితమివ్వనున్న మోదీ

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- రెండింటిలోనూ పర్సువల్గానే ල්ාදම ක්ෂේරා

మహమాచ్నగర్ అర్కర్, సంగారెడ్డి అక్క పరిమా తరగతి గయలు, అరెడ్డు అరెడ్డి అరెడ్డి మార్ అంటే ప్రాథాలాలో గ్రామం గ్రమం గ్రామం గ్రమం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రమం గ్రామం గ్రమం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామం గ్రామ



ందరీ హైదరాజాద్ భవన సముకాయం

వేశంలో మహాజుచేగగర్ ఎమ్మెట్క్ యిస్తం శ్రీనివాస్ రెడ్డి, ఇవేదార్జి రిజిప్టార్ నా మమనా దనేరెడ్డితో కరిసి ఉపకులవరి ఆరార్య లడ్డీ ఇంత్ కాతోడి మాక్కవారు. కోషిద ప్రచుత్వం కారత కారావ మార్వకారు. కొరువ ప్రావత్తిని ప్రధానమంత్ర ఇచ్చుకరే శివ్ధా అభియానకేమీం ఇప్పు కింద మంచారు చేసిన ఈ 100 కోట్ల నిధుంతో చేపట్టే పమలను ప్రధాన మాడ్ ప్రావంపిస్తారు. 2023లో మీపు ఇవ కంద కొత్త దారులు మండి మంది కేట్ల పార వాటి మరమ్మతులకు తూ.కి కేట్ల పరిశోదనలకు తూ.14 కోట్లు సార్థి కాలపానిందకు ఈ 3 కోట్ల కోటులు పరిహాదరు పరంగా కేట్యరం మండారు చేసింది. ఈ మీరకు ప్రధానతోపాటు మర్పారు సంగారెడ్డి మర్గా కుంటే 2008లో మార్చి మర్గా సమ్మమందారిని మరుడ్ చెలిస్తారు. ప్రామం కార్డ్ ప్రభ్యేక్తులో స్ట్రిస్ట్ మరుడ్ ప్రభ్యేక్తులో ప్రభ్యేక్తులో మరుడ్ ప్రభ్యేక్తులో ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్తులో మరుడ్ ప్రశ్నేక్క ప్రస్తేక్తులో మరుడ్ ప్రశ్నేక్క ప్రస్తేక్తులో మరుడ్ ప్రశ్నేక్క ప్రస్తేక్తులో మరుడ్ ప్రశ్నేక్క ప్రస్తేక్క ప్రస్తేక్తులో మరుడ్ ప్రశ్నేక్క ప్రస్తేక్తులో మరుడ్ ప్రశ్నేక్కు ప్రస్తేక్తులో మరుడ్లు ప్రశ్నేక్కు ప్రస్తేక్తులో ప్రశ్నేక్క ప్రస్తేక్క ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్క ప్రస్తేక్క ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్తేక్క ప్రస్తేక్కి ప్రస్తేక్క ప్రస్తేక్కి ప్రస్తేక్కి ప్రస్త్ ప్రస్తేక్కి ప్రస్త్ ప్రస్తేక్కి ప్రస్తేక్క ప్రస్తేక్కి ప్రస్తేక్క ప్రస్తేక్క ప్రస్తేక్క ప్రస్తేక్క ప్రస Copyright@2022 Telangana Today

Thu, 29 Feb-24; Telangana Today - Hyderabad; Size : 84 sq.cm.; Circulation:88000; Page : 7

Jal Shakti pact with IIT-H, NITW

The Ministry of Jal Shakti on Wednesday signed an agreement with 12 technical institutions for academic and research collaboration for basin management of six major rivers in the country.

The six rivers include the Krishna and Godavari basins. While the Godavari

basin was entrusted jointly to IIT Hyderabad and NEERI, Nagpur, the NIT Warangal, and NIT Surathkal were entrusted with the task of managing the Krishna river basin.

Other river basins in-cluded in the project are Narmada (HT Indore and IIT Gandhinagar), Ma-hanadi - IIT Raipur and IIT Rourkela, Cauvery - IISc Bangalore and NIT Trichy, Periyar - IIT Palakkad and

NIT Calicut.

The agreements were signed at a function by G Ashok Kumar, Director General of National Mission for Clean Ganga and project director on behalf of the Na-tional Centre for Educa-tional Resource Develop-ment and the directors of the consortium institutes.

Copyright CIC- 2022 Bennett, Coleman & Co. Ltd. All rights rese Fri, 01 Mar-24; Times Of India - Hyderabad; Size : 51 sq.cm.; Circulation:123000; Page : 2

Wireless 5G tech developed at IIT-Hyd launched in Barcelona

Hyderabad: An indigenous technology developed in In-dia has now reached Burcelo-na. On Thursday the Spanish city witnessed the launch of ORAN—a wireless technolocity witnessed the launch of ORAN—a witnessed the launch of ORAN—a witness technology-based on open radio access network, developed by WSig Networks Private Limited, a start-up foomed at the Indian Institute of Technology; Hyderabad (ITP-II). It has been done in collaboration with Priogrammobile Solutions Group; The technology is USS: redoors to increase capacity, improve signal quality and better spectral efficiency.

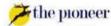
"Since this 5G technology is very efficient it can help improve the capacity by three times when compared to 4G. Sog, if a telecon operator is catering to 50 sours, they will be able to cater to 300 with this, "and Kirne Kumar Cachi, founder of WSig Netwo-



THE NEW 5G REVOLUTION

ries adding how it is touted to be the world's first ORAN Massive MIMO ULP! Radio Solution. Terming this technology as an advanced version of ORAN technology as also assure better reach, speed and prove to be cost effective. Rachi, who is currently in Barcelona for the launch, said that be adong with PSG, a basiness unit spur of from Intel Corporation, has deenonstrated the technology to felecom operators there and will soon

deploy it in Barcelona. "We are making this cutting edge tocknology results available to global telecom operators under the control of the co



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Fri, 22 Mar-24; Pioneer - Hyderabad; Size : 105 sq.cm.; Circulation:50000; Page : 3

IIT-H celebrates milestone with message of nurturing innovation

182 adherents have been hose of the foundation. Day on TIT (Indernhad celebrated me that I the foundation Day on TIT (Indernhad celebrated me their currency and persistent size the institution of the part of the foundation Day on To Science and Technology, and the foundation Day on To Science and Technology, and the forest and Technology of the Corentment of India, as the chief goest of the event. De the office of the corentment of India, as the chief goest of the event. If the office of the corentment of the corentment of India, as the chief goest of the event. If the office of the corentment of th

THE HANS INDIA

Fri, 22 Mar-24; The Hans India - Hyd; Size : 153 sq.cm.; Circulation:78098; Page : 2



16th Foundation Day held at IIT-H

HANS NEWS SERVICE HYDERABAD

IIT Hyderabad has cel-HT Hyderabad has cel-ebrated its 16th Foundation Day on Thursday, Prof Ab-hay Karandikar, Secretary, Department of Science and Technology, Government of India, was the Chief Guest of the Event.

the Event.

During the event, more than 182 achievers were honoured by the dignitaries for their untiring and persistent contribations to the institu-

tion's growth. Dr BVR Mo-han Reddy, Chairman, BoG, IITH said, "As we commem-ITTH said, "As we commen-orate I6 years of triumph, we are diligently shaping our fu-ture strategies to fortify and ensure the sustainability of our institution. Various ini-itatives are in the pipeline to enhance student learning, el-evate research outcomes, and fourte autrespensyshio."

foster entrepreneurship".

Prof Abhay Karandikar,
Secretary, Department of
Science and Technology
stated India is the 3rd coun-

try globally in scientific pa-per publication, and with the recent success in space the recent success in space and medicine, the public moral for innovation has enhanced. From DST, we are enthusiastic about accelerating fundamental research and encouraging startups. I am confident that ITI Hy-derphod will play a virial releam confident that IIT Hy-derabad will play a vital role in driving innovation for the greater good of the society with its incredible research infrastructure and innova-tive minds."

the pioneer

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at, 16 Mar-24; Pioneer - Hyderabad; Size : 128 sq.cm.; Circulation:50000; Page: 3

Japanese entrepreneurs awed at tech advancement in IIT-H



THE TIMES OF INDIA

Sat, 09 Mar-24; Times Of India - Hyderabad; Size : 52 sq.cm.; Circulation:123000; Page : 4

IIT-Hyderabad cluster gets ₹60 cr central grant for cutting-edge tech

Hyderabad: The Indian In-stitute of Technology, Hyde-rabad (HTH), cluster has be-en awarded a Rs 60 cross-grant by the department of eclence and technology (BST) sunder the Sophistical Help Institutes (SATHO scheme.







The ORAN base station radio unit development led by Prof Kiran Kuchi, IITH, introduced a revolutionary ORAN technology harnessing a multitude of antennas on cell towers.

The breakthrough promises to not only enhance cell coverage but also boost capacity by an impressive 3-fold compared to existing 4G networks, thereby optimizing spectrum utilization.

Read more: https://pib.gov.in/PressReleasePa ge.aspx?PRID=2004801





24). Video: https://www.youtube.com/watch?v=9umOxnjbF38



VandeMataram-A Calligraphic Symphony by Pragya (MDes 2022- Prof Chandra Shekhar Sharma and his team from Carbon Lab, IITH are taking us one step closer to a green Earth and even paving the way for terraforming Mars! YouTube: https://youtu.be/CA3imsnLlcc



IITH at unveiling of a compendium of SATHI Clusters. Read More: <u>https://pr.iith.ac.in/pressrelease/SATHI.pdf</u>



"Nemo. care Wellness' Nemocare Raksha Featured on Shark Tank India 3: A Milestone for CfHE Startups'



Honourable Prime Minister, Shri Narendra Modi Dedicated IIT Hyderabad Campus to the Nation Read more: <u>https://pr.iith.ac.in/pressrelease/PMDN.pdf</u>



Hon'ble Governor of Telangana & Lt. Governor of Puducherry, Dr Tamilisai Soundararajan participated as the Guest of Honour in the virtual launch of 'PM-SURAJ' portal program



Second edition of R&D Innovation Fair IInvenTiv at IITH. Read more: <u>https://pr.iith.ac.in/pressrelease/IInvenTiv24.pdf</u>



Inauguration of IInvenTiv by Hon'ble Union Education Minister Shri Dharmendra Pradhan. Read more: https://pr.iith.ac.in/pressrelease/ITV24.pdf



National Science Day 2024 Celebrations with Prof Mustansir Barma, Former Director, TIFR Mumbai



BVRSCIENT & Innovation Council at IITH celebrated "Institution's Innovation Day" in honour of Dr APJ Abdul Kalam's Birth Anniversary.



16th Foundation Day Celebrations at IIT Hyderabad, with the message of "Nurturing Innovation for Developed Nation" Read more: https://pr.iith.ac.in/pressrelease/FD24.pdf



Research Scholars Day RSD2024 witnessed a conglomeration of esteemed Researchers of IITH campus



Women's Day Celebrations and releasing of IWISE (IITH Women In STEAM Empowerment) compendium.



2nd edition of "Ayaam 2024", the Annual Fest of the Department of Design



Prof Abhay Karandikar, along with NMICPS officials visited the TiHAN at IITH and witnessed Demonstrations of Autonomous multimodal transportation solutions including ground, aerial, Surface, and underwater vehicles



expand academic and research collaborations



Senior leaders from 15 US universities and IIE members visited IITH to IITH and JICA united to nourish Design Innovation JICA Chair Lecture Series



A 26-member business delegation comprising Chiefs and Members of some Japanese SMEs visited IIT Hyderabad



WiSig Networks, a startup incubated at IITH, demonstrated its homegrown 5G technologies to Prof Abhay Karandikar, Secretary of the DST



Republic Day Celebrations at IITH. Youtube: <u>https://youtu.be/gTkKthEonMEsi=2RfQcDatQmrbGWZJ</u>



Immerse yourself in the vibrant world of Mural Art by the Design Dept IITH. YouTube: <u>https://youtu.be/asZU_pJuTHk</u>





Plantation Drive for January 2024 - planted approximately 200 IITH has successfully conducted the Plantation Drive for February Golden Duronta and other varieties 2024 by planting approximately 400 Hamelia patens



and E-Spin Nanotech. Read more:

Technology Transfer agreement between IIT Hyderabad Viterbi School of Engineering, University of Southern California, USA, and IIT Hyderabad Signed an Agreement For Cooperation in the field of Research and Education





Collaboration between IIT Hyderabad and Intel India Aiming at Technological Advancements

Campus Corner Celebrations



Campus Corner Seminars



"Balancing Skepticism and Innovation: The Intersection Entrepreneurship and AI" a talk by Mr Omkar Patil



Workshop on 'Decoding Corporate Taxation: Insights for Start-ups' by Mr Srinivasan Krishnaswami



Workshop on National Science Day by Mr Samir Kumar



RYTHM, "Rendezvous with Young IITH Minds" and is a new talk series by IITH faculty about careers in academia, by the SRC Office, IITH on behalf of the Research Advisory Committee IITH.



CTBUH India Chapter in collaboration with IITH Organized a half-day seminar on Tall Buildings



IIT Hyderabad exemplified the E-Summit fair



Finance and Consulting Club (FCC) at IITH, a unique platform for students to delve into finance, consulting, and product management avenues, has successfully concluded the first edition for Horizon

OAT by IIT Hyderabad

https://www.youtube.com/hashtag/oatbyiith

ral Arts. IIT Hyde



OAT Course by Dr Amrita Deb, Department of Liberal Arts Course Title: Psychopathology and Mental Health Read more: https://shorturl.at/AINPY YouTube: https://youtu.be/6zKKmIgHxLc

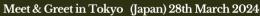


Campus Corner Alumni Highlights



Meet & Greet in Mumbai 17th March 2024







Meet & Greet in WashingTon DC

Campus Corner Moment of Pride



Prof Sai Santosh Kumar Raavi Department of Physics Elected as A Fellow of the Royal Society of Chemistry (FRSC)



Mr Kethavath Naveen
Naik
Phd Scholar,
Department of Mechanical &
Aerospace Engineering
Received The Best Paper Award at 10th
International & 50th National Conference on
Fluid Mechanics & Fluid Power, IIT Jodhpur



Mr Vineet Gairola
PhD Scholar
Department of Liberal Arts
Received The Division 36 Social
Justice Task Force, Research Grant
Award from The American
Psychological Association



Mr Kingshuk Mondal
PhD Scholar
Department of Mechanical &
Aerospace Engineering
Received The Best Paper Award at 10th
International & 50th National Conference on
Fluid Mechanics & Fluid Power, IIT Jodhpur



Dr Shiva Ji Assistant Professor Department of Design

Received an Invitation from The Japan Science and Technology Agency (JST) to join Japan-Asia Youth Exchange Program in Science hosted by Kyushu University, Japan



Mr Piyush Saklani MSc Department of Physics

Awarded Chanakya Post-graduate Fellowship from I-HUB Quantum Technology Foundation (I-HUB QTF) atIISER Pune



Dr Narayanswamy Sake PhD Scholar (2021) Department of Materials Science And Metallurgical Engineering Appointed as an Assistant Professor at IIT BHII



Mr Apan Dinda, Ms Mrinmoyee Saha & Mr Pitambar Bagui Department of Physics

Department of Physics

Awarded Chanakya Post-graduate
Fellowship from I-HUB Quantum
Technology Foundation (I-HUB QTF)
at IISER Pune



Prof C Malla Reddy
Department of Chemistry
Being appointed Co-Editors-in-Chief of
CrystEngComm Journal



Dr Prakash Chandra Mondal Associate Professor

Department of Liberal Arts
Being admitted as A Fellow of the Royal
Society of Arts (RSA) London



Dr Rahul Kumar Assistant Professor Department of Biotechnology Joined the Editorial Board of Nature Scientific Reports Journal



Dr Vandana Sharma Associate Professor

Department of Physics
Received the "Young Scientist Award"
in The National Physicist Conclave - 2024



Ms Purva Kherkar Lady PTI

Won the Gold and Silver Medal in 44th National Master's Athletics Championship 2024



Mr Sandip Das PhD Scholar, Department of Biotechnology

Received the Best Poster Presentation Award (1st prize) at the International Conference Advances in Proteomics Technologies (APT)-2024 at IIT Bombay



Ms Srishti Banerjee PhD Scholar, Department of

Biotechnology
Received the Best Oral Presentation
Award (2nd prize) at the International
Conference, Advances in Proteomics
Technologies (APT)-2024 at IIT Bombay



Dr Digvijay S Pawar Department of Civil Engineering

Received A Networking Grant Award from "The Academy of Medical Sciences" UK



Dr Althuri AvanthiAssistant Professor, Department of BioTechnology

Received the Outstanding Women Researcher in Biofuels Award at International Foundation, Chennai



Mr Kumar Shaurav PhD Scholar, Department of

Liberal Arts
Selected as an offer of Assistant Professor
Grade II at Indian Institute of
Management Ranchi



Ms Aswathi Velayathikode Anand Alumnus-PhD Scholar, Department of Liberal Arts

Selected as an Assistant Professor at NIT Raipur

Campus Corner Bank of Knowledge (BoK - Academic)



Dr Ranajit Mondal

Assistant Professor

Department of Chemical

Engineering



Dr Karthik P. N.

Assistant Professor
Department of Artificial
Intelligence

Dr Ranajit Mondal hails from the Murshidabad district in West Bengal. He earned his BTech in Chemical Engineering from West Bengal University of Technology in 2013, his MTech in Chemical Engineering from National Institute of Technology Rourkela in 2015, and his PhD in Chemical Engineering from Indian Institute of Technology Madras in 2020. Prior to joining the IITH, he worked as an Institute Post-Doctoral Fellow at the Department of Chemical Engineering, IIT Bombay. His research interests are broadly in the area of Colloidal and Interfacial science, Droplet drying, Desiccation cracks, Emulsions and foams, Rheology of complex fluids, and Porous materials.

My Life at IITH:

It feels great to be part of the IITH family, one of the fastest-growing institutes among all the second-generation IITs. I am overwhelmed by the welcoming atmosphere both at the department level and at the institute level. While interacting with the department colleagues, I found them approachable and helpful in all possible ways. I am enthusiastically looking forward to contributing to the department and the overall growth of the institute.

Dr Karthik is an Assistant Professor in the Department of Artificial Intelligence at IIT Hyderabad. Prior to this, he was a Research Fellow in the Institute of Data Science at the National University of Singapore (NUS), where he worked alongside Prof Vincent Y F Tan. Prior to joining NUS, he obtained the PhD and Master of Science (Engineering) dual degree from the Department of Electrical Communication Engineering at the Indian Institute of Science (IISc), Bengaluru, where he was advised by Prof Rajesh Sundaresan. Much earlier to joining the dual degree programme, he worked as a Project Assistant in Prof Chandra R. Murthy's lab at IISc. He holds a Bachelor of Engineering degree in Electronics and Communications from R V College of Engineering, Bengaluru.

My Life at IITH:

When I first visited the IIT Hyderabad campus for my interviews in September 2023, I had a sense of deep belongingness to the place, so much so that I did not have any hesitation in accepting the position and declining other competing offers. Ever since joining as a faculty member in February 2024, I have been welcomed with open arms. My inclusion in matters related to student admissions, curriculum design, designing of new office spaces for the core faculty members of the department, and many more have had me experience the warmth of the colleagues within the department. I have had the opportunity to offer consultancy services to Mindgraph, and help them offer a certification programme under the auspices of IIT Hyderabad and the AI department, with support from CCE. I have come to realise the immense potential students of this institution hold, and every day since my joining has been a lesson on learning how to tap into their talents. It is my dream to serve the institution selflessly, impart quality training and mentorship to our brigade of students, and see them blossom in every facet of their lives. I wish to extend my sincere gratitude to the Director and the faculty members of the department for considering me one amongst them.

Campus Corner Bank of Knowledge (BoK - Non-Academic)



Ms Suchita Sahoo

Junior Library
Information Assistant
Library

Ms Suchita Sahoo has done her Master's degree in Library and Information Science from Sambalpur University Odisha and also done MPhil in Library and Information Science from Sambalpur University Odisha. After completion of her education, she immediately joined as a Library Intern cum Library Assistant at Central University of Odisha and was later selected as Junior Library Information Assistant at IITH. She has more than 1 year of experience in the field of acquisition of books, circulation, technical processing, reference service, and library automation. Her areas of interest are library automation, digital library, user studies, and information-seeking behavior.

My Life at IITH:

I joined as a Junior Library Information Assistant on 1st January 2024. Firstly, I am delighted to be a part of the IITH Community. This is one of the best institution from where I can learn so many things in my working field. I will work proactively and support the growth of the IITH.



Dr Paramita Maiti has completed her PhD in experimental condensed matter physics from the Institute of Physics, Bhubaneswar. She has four years of postdoctoral experience. She specialized in the fields of condensed matter, material science, surface science, thin films, and nanostructures. She did her Masters and Bachelors from the University of Calcutta. Before joining IIT Hyderabad, she was a Senior Scientific Officer under the INUP I2I project at IIT Kharagpur.

My Life at IITH:

IIT Hyderabad provides a stimulating work environment with a collaborative and supportive community. The campus is equipped with excellent facilities that make it an enjoyable place to work. It's an honor to be part of such a prestigious institution where employees can grow both personally and professionally.



Mr Shri
Venkatakrishnaprasad SM
.....
Technician

Department of Biotechnology

Mr Shri Venkatakrishnaprasad SM is an Under Graduate (BSc) 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 National Institute of Nutrition, Hyderabad as a JRF and SRF for 5 years. He joined IIT Hyderabad in 2021 as Junior Technician, Biotechnology and then took a movement as Technician, Biotechnology in 2024.

My Life at IITH:

Working at IIT Hyderabad is a rewarding experience, the campus is beautiful and modern making it pleasant place to work. The work environment is friendly and collaborative, with opportunities to learn and grow professionally. I am very glad to be a part of the prestigious institute in India.



Mr Sajan C S

Junior Library Information
Assistant
Library

Mr Sajan C S has done his master's degree in library and information science from Mahatma Gandhi University, Kerala and done MPhil in Library and Information Science from Bharathidasan University Trichy. After completion of his education, he joined IIT Bombay as a library trainee in the library and later worked as Reference Assistant in Library at Kerala Veterinary and Animal Sciences University. He has more than 4 years of experience in the field of Library Science, Acquisition, Circulation, Reference Section, Electronic resource management (ERM), Collection Development, and Managing of Library. His areas of interest are Bibliometrics, ICT, and User studies.

My Life at IITH:

I feel so gratified to be part of such a wonderful organization. I am very happy to work in one of the greatest Knowledge Resource Centre (KRC) in India. I am delighted to contribute to the esteemed institution IITH.

Campus Corner Bank of Knowledge (BoK - Non-Academic)



Mr Rajashekhar Soudhari is a Postgraduate in Master of Computer Applications from Kakatiya University, Warangal. He is a topper of the batch in 2011 from Kakatiya University. He has developed a mini project on student personal details during post graduation. He has 10+ years of academic administration experience at IITH.

My Life at IITH:

My experience working in the Academic Office at IIT Hyderabad, where I was responsible for handling AIMS/ERP and PG programs....etc., was incredibly fulfilling. From the moment I joined, I was welcomed into a friendly and collaborative environment that made my time there both enjoyable and productive. IIT Hyderabad is not just an institute of academic excellence but also a place where growth is encouraged in every facet. The opportunities for professional and personal development are abundant, and the supportive nature of the faculty, staff, and students creates a nurturing environment that fosters learning. Working in such a dynamic setting allowed me to significantly enhance my skills, particularly in managing complex AIMS/ERP systems. The experience also provided me with invaluable insights and knowledge, which I believe will be instrumental in my future endeavours. Overall, till date my journey with IIT Hyderabad has been remarkable in sense of learning, growth, and skill enhancement, and I am grateful for being associated with such a wonderful & prestigious institution.



Mr Shri Laxman Srigiri possesses a distinguished educational background, holding a Master's degree in Personnel Management and a Master's in Business Administration from Osmania University, complemented by an Advanced PGD in Labour Laws from Nalsar University. Prior to joining IIT Hyderabad in 2012, he had a illustrious 15-year tenure in the Indian Navy as a Marine Commando, participating in numerous national and international counter-insurgency and rescue operations, including the notable 26/11 Taj operation (Mumbai). With over 11 years of dedicated service to IIT Hyderabad, he was recently promoted to the post of Senior Assistant Registrar in January 2024.

My Life at IITH:

My journey at IIT Hyderabad has been an incredible experience. After spending a decade in this esteemed institution, I can confidently say that it's one of the best places to work. The people here are amazing - friendly, professional, and welcoming, making it feel like a second family. The work culture and ethics are truly commendable, fostering a collaborative environment that encourages growth. The campus is a serene oasis, with its lush greenery and natural beauty. I'm grateful to be part of this wonderful community and thank the entire IITH fraternity for making this place so special. I feel fortunate to be associated with this institution, which I consider a true gem.



Mr Praveen Kumar G

Junior Technician

Department of Computer
Science and Engineering

Mr Praveen Kumar G from Sangareddy. He graduated with a degree in Computer Science and Engineering from RRS College of Engineering and Technology, affiliated with JNTU. He has 11 months of experience as a System/Network Administrator at TiHAN, IITH. Additionally , he served as a System Administrator and tutor at Acharya Degree College, Zaheerabad, for 10 years, where he worked as an NSS Program Officer for 7 years. He hold a CCNA certification. Presently he was working in the CSE Department, IITH as a Junior Technician.

My Life at IITH

My experience at IIT Hyderabad has been incredibly fortunate. It has always been my dream to work at such a prestigious educational institution, and I am grateful to have the opportunity to be here. The positive work environment, along with the strong support from the department, colleagues, and faculty members, has been invaluable. In this young and dynamic institute, there is ample scope to learn new skills and contribute to the growth of both the department and the institute as a whole. I am committed to working smart and hard to achieve the goals set by the department and the institute, while also growing personally and professionally.

Campus Corner Bank of Knowledge (BoK - Non-Academic)



Mr Venkatesh Betha

Junior Assistant

Human Resource Section

Mr Venkatesh Betha has done MCA from Andhra University. After completion of his education, he joined the Department of Posts and was later selected as a Junior Assistant in the Human Resource Section at IITH. He has extensive experience working within various roles in the Department of Posts under the Government of India. With over 8.5 years of experience, he likely has gained valuable insights and skills in various aspects of postal operations, including mail handling, counter operations involving cash transactions, treasurer responsibilities, and serving as a subpostmaster.

My Life at IITH:

I'm truly honored to be part of IIT Hyderabad, one of the premier educational institutions in India. The innovative environment, cutting-edge research, and brilliant minds here inspire me daily. Being part of this vibrant community fills me with pride and motivation. It's a privilege to contribute to the future of technology and education.



Mr Nagaraju

Executive Assistant
Human Resource Section

Mr Nagaraju joined IITH as an Executive Assistant. He has done B.Tech in Information Technology from CVR College of Engineering. After graduation, he has worked at United India Insurance Company Limited (A Govt of India Undertaking) for 10 years in the field of Accounts, HR, Establishment and Administration.

My Life at IITH:

I am delighted to be a part of the IITH family. IITH provides an incredible opportunity for any individual to work and explore their potential. I really enjoy working at IITH



Mr Naresh Kandrathi

Section Officer
Human Resource Section

Mr Naresh Kandrathi holds a dual Masters degree in Computer Applications and Business Administration in Finance from Osmania University. He achieved distinction in MBA Finance. Prior to join IITH, he worked as a GDA at IIM Indore for 6 years. Before joining in regular position at IIM Indore, he served as Data Processing Officer at WALAMTARI under Irrigation and CAD department, Government of Andhra Pradesh in 2012-2013.

My Life at IITH:

It is a great opportunity to work with IITH community. The new role gives me more responsibility and enthusiasm. I believe Good workplace motivates towards good career growth. These 5 years of experience @ IIT Hyderabad truly enjoyed and learnt so many new things. I would like to continue my part to contribute to Institute growth.



Mr Marepally Shivakumar Reddy

Junior Technician Computer Science and Engineering Before joining IITH, Mr Marepally Shivakumar Reddy has done Diploma in Computer Engineering from Jaya Prakash Narayan College of Engineering and also B.Tech in Computer Science Engineering from Mahatma Gandhi Institute of Technology. After completion of his education, he immediately joined Spoors Technology Solutions India Private Limited as an Application Developer later joined with Cognizant Technologies as an Associate Projects later Joined with TabSquare Pte Ltd as a Senior Full Stack Engineer. He has overall more than 6 years of experience in IT Industry in that 3 years of experience in the field of Java Full Stack Development and remaining 3 years in the field of MERN Stack Development and has good knowledge on Next JS and Typescript too.

My Life at IITH:

My experience at IIT Hyderabad has been incredibly fortunate. I am grateful to have the opportunity to be here. The positive work environment, along with the strong support from the department, colleagues, and faculty members, has been invaluable. In this young and dynamic institute, there is ample scope to learn new skills and contribute to the growth of both the department and the institute as a whole. I am committed to working smart and hard to achieve the goals set by the department and the institute, while also growing personally and professionally.



Mr Archith Chandra

Junior Assistant Department of Entrepreneurship and Management & Heritage Science and Technology Mr Archith Chandra has done BTech in Civil Engineering from VNR Vignan Jyothi Institute of Engineering and Technology Hyderabad in 2018. After completion of his education, he joined Nephroplus Health services as Executive- Supply chain management and later worked as a Planning Analyst in Flipkart. He has more than 2 years of experience in the field of Supply chain and Data processing.

My Life at IITH:

At the Indian Institute of Technology Hyderabad (IITH), I can experience a state-of-the-art infrastructure designed to support a dynamic and innovative academic environment. The campus boasts modern facilities and physical resources. As a Junior Assistant, I play a pivotal role in managing two newly created departments. My responsibilities include serving as a liaison between these departments and other administrative sections, ensuring smooth communication and coordination. My role requires precise and timely execution of tasks, which honed my leadership abilities and multitasking skills. I am looking forward enhancing my skills and contribute my part in development of our institute.



Mr Jeebanbandhu Mahanta

Junior Technical Superintendent Central workshop Mr Jeebanbandhu Mahanta has done BTech in Mechanical Engineering from Centurion University of Technology and Management, Odisha and done diploma in Manufacturing Technology from NTTF Gopalpur, Odisha and also done certificate course in Master of CAD/CAM from Central Tool Room & Training Centre Bhubaneswar. After completion of his education, he has worked as "Graduate Engineer cum Trainer" in Central Tool Room & Training Centre Bhubaneswar for 4 years. he also worked in IIT Kanpur as Junior Technician in Department of Mechanical Engineering for 4 years 9 months. He has more than 9 years of experience in the field of CAD and CAM, Conventional machining, CNC programming and machining, additive manufacturing and machine maintenance. His areas of interest are Design, process planning and manufacturing.

My Life at IITH:

Since joining at IITH, my experience has been both enriching and insightful. This is a great place for me to enhance my skills and upgrade my knowledge. Overall, I am excited about the opportunities ahead and look forward to contributing further to the institute's success.



Mr Ramavath Ashok

Junior Technician Computer Centre Mr Ramavath Ashok graduated in Computer Science and Engineering from Gokaraju Rangaraju College of Engineering, Hyderabad, affiliated with JNTUH. He is an experienced Network & SIEM Administrator as well as a Hadoop Administrator. He began his professional journey at BHARAT ELECTRONICS LIMITED and subsequently joined the NATIONAL TECHNICAL RESEARCH ORGANISATION.

My Life at IITH:

IITH has provided me with a very good experience. The people are friendly and supportive, and the campus environment promotes a strong sense of community. I feel delighted to be associated with IITH



Mr Parimisetty Harinadha

Junior Technical Superintendent Department of Artificial Intelligence Mr Parimisetty Harinadha has done BTech in Computer Science and Engineering from Annamacharya Institute of Technology and sciences and also done MTech in Information Technology from University of Hyderabad. After completion of his education, he immediately joined Rajiv Gandhi University of Knowledge Technologies RK Valley in the department of Computer Science and Engg as Assistant Professor. He has 9.5 years of teaching experience and also currently pursuing PhD under the guidance of Prof C Krishna Mohan in the department of Computer Science and Engg at IIT Hyderabad. His area of research interest is Deep Learning for computer vision(Diffusion Models for Plant Disease Detection).

My Life at IITH:

I am very happy to have an opportunity to work with people having nice research cum friendly nature, and also I am feeling that this institute is the most optimistic institute to grow myself in the direction of research and technical skills. Finally, I will continue my efforts for the growth of the institute.



Mr Ajay Kumar Kar Junior Technician Central Workshop

Mr Ajay Kumar Kar has a Diploma in Mechanical Engineering from SCTE & VT, Odisha. After completing his education, he immediately joined at Central Tool Room and Training Centre, Bhubaneswar as a "Consultant" in CNC Section of the Training Department on a Contractual basis. He has more than 9 years of experience in the field of CNC Programming, and manufacturing of various high precision Aerospace components via using CAD/CAM software. His areas of interest are CNC Machining and programming, Conventional Machining, Designing, Process planning, Geometric Modeling and Drafting. He has participated in 43rd World Skills competition in CNC MILLING, which is held at Sao Paulo, Brazil.

My Life at IITH:

I feel that at IITH a very good work environment. The work culture and support from colleagues are quite impressive. This is a great place for me to improve my knowledge and learn new innovation ideas. Being part of an IITH always engage with my work and challenge myself to improve our organization.



Mr Kuntla Reddy Sekhar Junior Technician Department of Physics

Mr Kuntla Reddy Sekhar has done his Integrated MSc Physics from Pondicherry University, Puducherry. After the completion of his master's, he joined Indira Gandhi Centre for Atomic Research (IGCAR) Kalpakkam as a Research Fellow. He worked in Dr Ramaseshan's Lab of Material Science Group from 2017 to 2021. During this tenure he worked on a project involving thin film deposition and characterization for optical and mechanical applications. His computer skills include Linux Server Operating system, networking, python scientific programming modules such as NumPy, SciPy, matplotlib. He enjoys playing badminton, trekking and cycling.

My Life at IITH:

I am delighted to be a part and to contribute to the development of the IITH community. The colleagues from diverse technical backgrounds present us with the opportunities to learn and grow professionally. I am grateful for this opportunity and looking forward to a fruitful career.



Mr Moganraj M Technical Superintendent Department of Civil **Engineering**

Mr Moganraj M joined IIT Hyderabad as a Technical Superintendent in the Department of Civil Engineering on 07.03.2024. He has done B.Tech., in Civil Engineering from Pondicherry Engineering College and also done M.E., in Soil Mechanics and Foundation Engineering from College of Engineering Guindy, Anna University Chennai. After completion of his education, he joined SRM group of Institution Chennai for teaching and consultancy works. Following this he got selected in IIT Delhi as Junior Engineer (civil) and served for two years after which he has been selected as Technical Superintendent in Department of Civil Engineering at IITH. He has more than 11 years of experience in the field of construction material testing, estimation and tendering, soil stabilization, and Geo-synthetics. His areas of interest are Soil Exploration, Foundation Design, Ground Improvement, Rock Mechanics and Geo-synthetic Material.

My Life at IITH:

IITH prioritizes the well-being of employees, offers support at all levels within the organization, and has policies in place that encourage respect, trust, empathy, and support. I feel privileged to work in such renowned Institute.



Mr Manne Prahaseeth Junior Technical

..... Superintendent Department of Electrical Engineering

Mr Manne Prahaseeth holds an MTech degree from Osmania University, Hyderabad. He began his career as a Research Fellow at the Defence Electronics Research Laboratory and later served as a Technical Assistant at NIT Warangal. With over five years of experience in integration and testing, purchasing and procurement, and conducting laboratory operations, he has developed a strong technical foundation.

My Life at IITH:

I feel privileged to be part of IIT Hyderabad, one of India's premier institutes. My journey in the Electrical Engineering department has been incredibly fulfilling, marked by a professional and ethical work environment. Engaging in stimulating technical discussions with students, faculty, and colleagues has significantly enriched my knowledge and fostered innovative thinking. I am genuinely excited about the opportunity to contribute to the growth of IITH while advancing my technical career. I extend my heartfelt appreciation to the HoD, faculty, and my colleagues in the Electrical Engineering department for their unwavering support and encouragement.



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్ भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad

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