

Edition 2023

IIT ALUMNUS Magazine



IIT INDORE
Indian Institute of Technology Indore

मूलांश सभागार
Moolansh Bhawan



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Message from Director

I congratulate our institute's Alumni & Corporate Relations (ACR) team on bringing out the next edition of this Alumni Magazine (IITI-Alumnus). I appreciate the vision behind this magazine, which is to provide a forum to connect, inspire each other, see the fulfilment of aspirations, and emulate the accomplishments & milestones of our alums.

The illustrious journey of our institute, which began in 2009, is because of our dynamic students, who are our valued ambassadors, spreading the spirit of learning & skills across the world and preserving our legacy.

I am sure, over the years, this magazine will be a steadfast platform for our valued alumni, industry persons, students & academicians.

In this magazine, you'll find a celebration of our shared legacy, from inspiring experiences to nostalgic anecdotes, with a tribute to the excellence of our institute's history—"a history which is shaped by each of you."

I invite you to this journey down memory lane and hope you will relive the lifetime memories you gathered here. Thank you for being a vital part of our institute's vibrant narrative.

Warm regards.

Professor Suhas S. Joshi

Ph.D., FNAE, FNASc

Director, IIT Indore



Prof. Suhas S. Joshi

Ph.D., FNAE, FNASc
Director, IIT Indore

Message from Dean



**Prof. Suman
Mukhopadhyay**

Dean, Alumni and Corporate
Relations

Dear Esteemed Alumni,

Firstly, I congratulate you all on your achievements in your professional and personal domains. You all hold a special place in our hearts as you embody our institute's success and legacy. Your achievements inspire the current students and Which serves as a testament to the quality of education and the values instilled at IIT Indore.

Further, with great pleasure, we present the next edition of the IIT Indore Alumni magazine (IITI-Alumnus- 2023) to you. This magazine reflects the journey of your alma mater, memories, milestones, success stories, and the activities undertaken by you and the current students, thereby enduring impact on our community. It is a tribute to all of you who have shaped our institute into what it is today.

Furthermore, I want to convey my sincere thanks to the Team Alumni Corporate Relations (ACR) and the Team Alumni cell, without whose efforts this magazine would not have been a reality.

“Wishing you all the very best in your future endeavors.”

Sincerely,

Prof. Suman Mukhopadhyay

Dean, Alumni and Corporate Relations

Note from Editorial Board

Dear Readers,

It is with great pleasure that we welcome you to the 2023 edition of our alumni magazine. As the members of editor, we had the immense privilege of delving into the memories and experiences of our alums who have shaped our institute into what it is currently.

We hope the stories within these pages will give you a glimpse of what your alma mater has grown into and provide a nostalgic trip memory lane.

Further, we would like to express our heartfelt gratitude to Prof. Suhas S Joshi, Director, Prof. Suman Mukhopadhyay, Dean of Alumni and Corporate Relations (ACR), Dr. P P Chattaraj, Senior Vice President, Mr. Ashok Kumar Dev, Deputy Registrar, Mr. Pankaj Kumar Sahu, Manager, Ms. Aruna Devi Misra, Manager and Mr. Shekhar Khannariya for their unending support.

We would also like to thank the entire student Alumni Cell team for all their tireless efforts in making this endeavour a success.

As our alum community is strengthening and the institute is continuing to thrive, we envisage that the future editions of the magazine will be more vibrant and dynamic with aim to define our ever-growing culture while sustaining & preserving our values and legacy.

(Editorial Board)
Students Alumni Cell
IIT Indore

A Journey of IIT Indore

DEVI AHILYA VISHWAVIDHYALAYA

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HALL OF RESIDENCE

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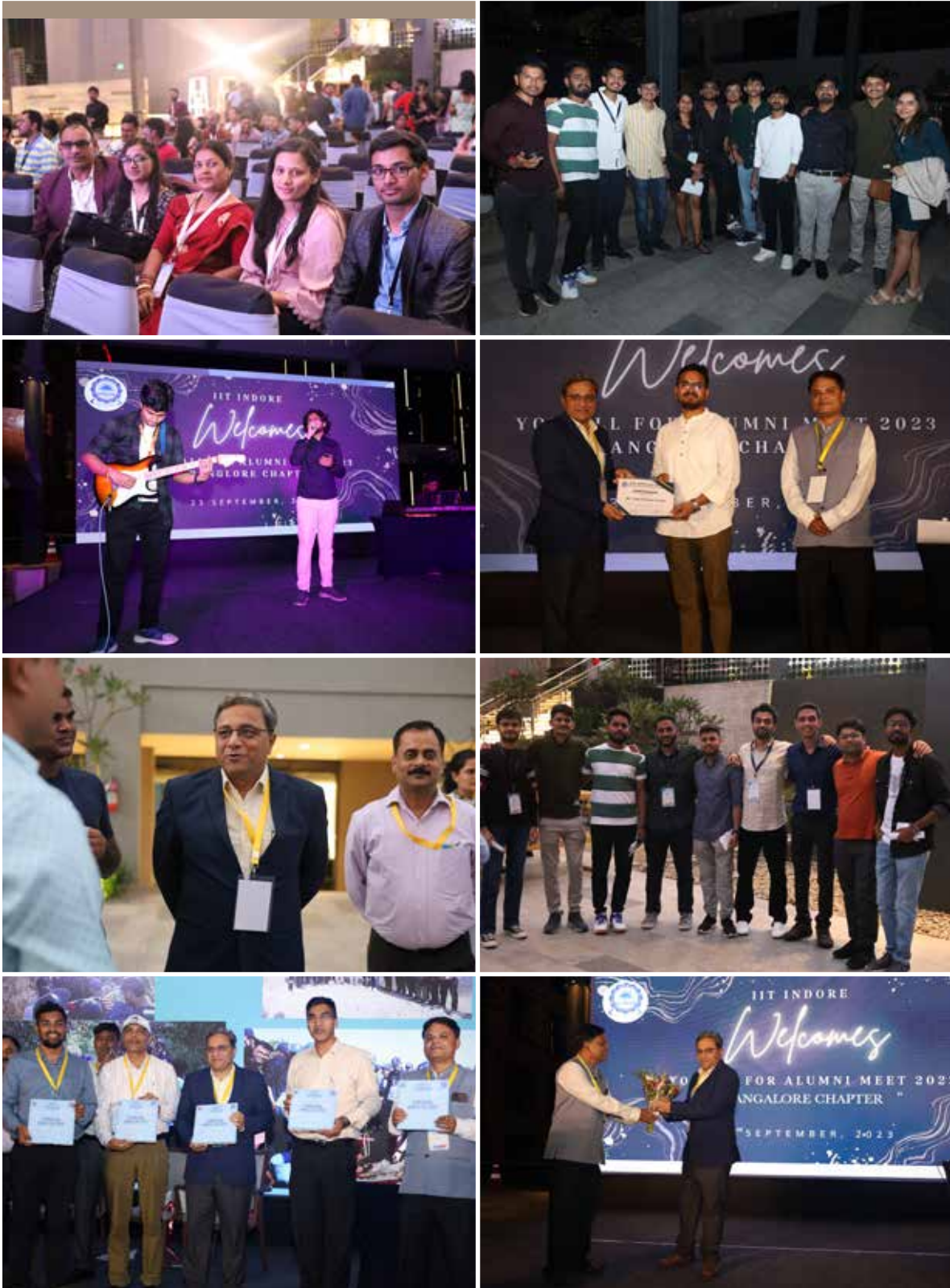
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ALUMNI MEET-2023 (BANGALORE CHAPTER)



The IIT Indore has organized its first out of campus **Alumni meet-Bangalore Chapter** on **23rd September 2023** at **The Hilton, Bangalore Embassy Manyata Business Park Bangalore**. The event was attended & witnessed by around 200 alumni (along with their family members), who are working in different domain in different companies and industries across the country and abroad.

Alumni Achievements



Mr. Gaurav Parchani

Course: B.Tech
Department: Mechanical
Engineering
Graduating Year: 2013



Gaurav Parchani's Dozee Healthtech Goes Global!

We're excited to share the achievements of our alumnus, Mr. Gaurav Parchani (BTech ME 2013), co-founder of "Dozee", India's first contactless remote patient monitoring device. Recently, Dozee raised Rs. 71 crores in funding led by Gokul Rajaram from DoorDash, along with participation from existing investors like Prime Venture Partners and 3one4 Capital.

Mr. Parchani's contributions to revolutionising contactless healthcare during the pandemic have earned him a spot in Forbes India 30 under 30. His success with Dozee is a source of pride for IIT Indore, serving as an inspiration for our students to aim for new heights in their endeavours.

Mr. Anmol Arora

Course: B. Tech
Department: Computer Science & Engineering
Graduating Year: 2016



We're proud to highlight the success of our alumnus, Mr. Anmol Arora, currently serving as the CEO of DocVita. Under his leadership, DocVita has secured funding of \$1 million from the esteemed global investors, including Y Combinator, Flat6Labs, Goodwater Capital, and notable angel investors.



Interview with



Dr. Vibhor Pandhare (Alumnus & Assistant Professor)
at IIT Indore



Introduction: Prof. Vibhor Pandhare was a 2016 Batch Graduate (BTech+ MTech) of IIT Indore. After completing his course, he pursued his PhD at the University of Cincinnati, Ohio. He has now returned to IIT Indore as an Assistant Professor.

Q 1: Tell us about your story in IIT Indore and afterwards.

A: When I came to campus, I was very active. I took part in many club activities, and I was the Fluxus OC as well. I did a few internships in college to see how I would fit in in a job market. I needed more time to decide, so I extended my degree to a dual degree at IITI. I was one of the first students to pursue a dual degree here. I did a research project I was very interested in at that time under a professor. I realised I wanted to study and research further rather than just sit for placements or get a job. I wanted to make people listen. So, I went for another year of research at IIT Bombay, after which I applied for a PhD at the University of Cincinnati. PhD was difficult, as expected. They say if you have done a PhD, there is nothing else you cannot do, and there is some truth to that. I did do a couple of jobs in the US. They paid very well, but at that point, I realised that it was not my calling. I was in the corporate world for six years, but eventually, I decided that academic research would be the best of both worlds.

Q 2: Do you have any notable experiences to share from your time at IIT Indore?

A: I was a 2016 batch graduate, so the campus and culture were still developing. I had a lot of fun. I was the Alumni Cell Secretary, Fluxus's Overall Co-ordinator back then, and the Literary Club President, among many other things. I had a lot of memorable experiences with those activities.

Q 3: What do you feel about IITI after coming back?

A: The new campus is very nice. We had to move several campuses in our batch, so we only came here during our final year. Back then, there were only a few buildings with sparse roads in between. It is nice to see the sprawling campus today.

Q 4: Since you were the Alumni Secretary, do you have any advice for the current Alumni Cell?

A: The institute is still very young, so it is a little early for us to have an alum base. But it is still essential to bind the alums together. One suggestion from me would be to register the alums' achievements with the college officially. It would be excellent for the alumnus to receive formal recognition.

Q 5: What made you come back to IIT Indore?

A: I had always wanted to come back to India. I wanted to contribute to something bigger than myself. I wanted to return to the area of research I had pursued back in college, and the IIT system provides a solid backbone for researchers. IIT professors contribute to solving many problems that the country is facing, and I am incredibly grateful for the position that I am in currently.

Q 6: Do you have any advice for students who want to pursue research?

A: If you love solving problems, you would probably love this field. Make some contributions to solving problems. They could be minor problems. Research is the next step, i.e., solving more significant problems. If I had to quote an example, there was an initiative called SWAHA created by some of my seniors for the issue of waste management. Try to do things like that. If you want to do research, developing the attitude of solving problems is important.

Q 7: What do you think about research in India vs. Abroad?

A: This is something that I have noticed; many researchers in the US were Indians. I feel that the quality of research done in India is better than anywhere abroad. However, in the US, many companies or even the government are more inclined to support research, but that is not the case in India. Except for in IITs, the environment to pursue research has not been created in the country, so the "brain-drain" phenomenon is occurring.

Q 8: Many students who want to pursue research question whether it will be financially supportive or not. How will you answer this question?

A: As students of IITs, we have cleared extremely tough entrance exams to be where we are. We know how to be strong. So, if you are interested in research, don't let anything stop you from trying. As they say, where there is a will, there is a way.

Q 9: Is there anything you would have done differently throughout your journey from IITI back to IITI?

A: I am incredibly grateful to be able to answer 'No' to that question confidently. In IITI and outside of IITI, I have always followed my mentors seriously. I was lucky to have mentors who cared genuinely for my well-being. A mentor would be someone who has seen more of the world than you and someone who you aspire to be like.

Q 10: Any general advice for your students/juniors?

A: My advice could be called PCM: Passion, Capability, and Mentorship. Passion: Find what really interests you and try pursuing that. Capability: Try to upskill and increase your capacity to do things while keeping your mental health in mind. Mentorship: As I had said earlier, find trustworthy mentors and follow their advice diligently. Other than that, look a bit further than 'you'. You have to explore before settling on what you want to do, whether it be a job or academics. So, you need to expand your horizons and let your vision be broader than yourself.



Interview with



Dr. Anjali Chaudhary (Alumnus)



Brief about the interviewee: Anjali Chaudhary, a highly regarded scholar, started her academic career at IIT Indore, where she completed her MSc from 2015 to 2017. From 2017 to 2020, she pursued a Ph.D., showing her commitment to advanced research. Anjali began her tenure as a research associate at the University of Wisconsin-Madison in 2021, where she made substantial contributions to innovative initiatives. She holds the esteemed position of assistant professor at IIT Bhilai, where she shares her extensive knowledge with other students.

Q 1: How did IIT Indore help you as an institute?

A: Having been a part of this institute from 2015 to 2020, I witnessed the various phases of its development. When I initially arrived, the institute was still in its early stages, and the experience was quite hectic. Accommodations were scattered, and classes were held in different locations. However, this period taught me a valuable lesson - that with focus and determination, one can overcome challenges. This lesson has proven beneficial not only during my postdoc but also in my current endeavors.

Q 2: What motivated you to go into Academia?

A: What motivated me was my dream to become a teacher. Furthermore, I wanted to return to India after my time in the US. A pleasant student-teacher relationship is made possible by the culture at IIT, which was absent in universities. I wanted to be a part of a community where we could have this healthy relationship.

Q 3: What can you contribute to IIT Bhilai?

A: In the very first place, I am willing to contribute to the workplace culture. The goal is to create a friendly environment by having an open conversation between professor and student. I do not wish to be addressed as Ma'am, which is generally incorporated into students.

Q 4: How was the experience in the US?

A: It was a magnificent journey, though initially painful due to the pandemic. A solid social circle always helps you to be motivated. It's a totally different feeling; there you are on your own. You need to find a place to live and stuff. The sense of independence, responsibility, and initial freedom hits differently. Professor and friend always backed me throughout my journey.

Q 5: Is there any fixed duration of Postdoc?

A: Not sure

Q 6: What can you do to promote Physics?

A: Online education has already helped in promoting physics. Bringing science culture to the school level will help set the much-needed passion. Conducting experiments showing them how things work in real life will help.

Q 7: How is IIT Indore growing?

A: Really appreciable, when I was here, all the buildings were outlined, and now I am sitting in one of them.

Q 8: What do you like more, research or academia?

A: I like teaching over research. As a professor, you have different kinds of work, like research, teaching, and administration. As a professor, you must focus on students' academics and take quizzes, which generally sacrifices research.

Q 9: What can an aspiring student who is not financially sound do?

A: You get financial support. For example, you get financial aid for doing your Ph.D. If you are passionate about research, money won't stop you. You can take up TAs if you want.

Q 10: How are labs in India different?

A: We are well equipped, but the problem is with networking. In foreign, they have no individual labs; they have centers. India supports research. Ministry has provided 2 Ph.D. students to every professor. who is paid for the work and can do research simultaneously. In Europe or the US, this culture is absent. The only problem is the need for more networking.

Q 11: What is your sector of research?

A: My field of research is Carbon Dioxide conversion and capturing. I aim to develop some products and collaborate with the industry. Someone told me that in your whole career, at least come up with one design that is helpful to people.

Q 12: What is one habit you have still followed since your preparation for JAM?

A: My teacher told me that if you are good in some subjects, that doesn't mean you should prioritize those. You should give priority to all subjects. Keep balance and try to make a list of things you will do. The other thing was to set daily and weekly goals. This helped a lot during my PhD. Plan your schedule; for example, if I have 5 days of work, I dedicate 2 days to teaching and 1.5 days to research and administration.

Q 13: When were you happiest?

A: My time during my Ph.D. In your postdoc, you invest a majority of your time in research. But hanging out with friends and enjoying life were the most cherished moments.

We are glad to have someone like Anjali, ma'am, who has accomplished so much in her life. We are proud to have a senior like her and feel lucky to have connections with her.

Alumni Spotlight

Art



- Adhip Dey



- Anushka Paul



- Rudrajit Mandal



- Ishika Buddhiraja



- Shubham Pawar



- Neelanshu



- Nitin Rajesh



- Sai Mounika



- Sai Mounika



- Sai Mounika



- Sai Mounika



- Sai Mounika



- Sai Mounika

Literature & Poem

(Alumni Spotlight, Contd.)

THE LAST DAY

I still remember that day very explicitly. Some of my friends had already left the hostel and I was all packed as well. Some part of me wanted to reach home as soon as possible, yet some part of me was disinclined to do so. I knew I was going to miss that place and the people there. That wasn't just any place anymore. It was almost a home and the people almost part of a family. I remember witnessing an unusual anxiety, the one you have when you are about to do something strenuous. You know you can do it, but there's this nervousness which makes you doubt yourself. Saying goodbye to your loved ones is something like that. It was the kind of moment when all your emotions overwhelm you at once. You're relieved of the tedious examinations, and look forward to going home, when you suddenly realize you have to leave that place and say goodbye to the people there. The place which witnessed so many weird and funny incidents, and your insane roommates who witnessed them with you. It had been your home for months. It isn't as comforting as your home but you got used to it and find a little home in there. There's an imperceptible connection which cannot be described. You just know you'll sleep soundly in there and that it's the closest place to you after your home. It was just a room before but after residing there for so long you fill it with sentiment and warmth. Even though most of the rooms are identical, you are going to be the most comfortable in your own. As I said, it's not just about the room. There's something more challenging than leaving the room though - bidding goodbye to your hostel mates and your roommates, who were your family away from home, who supported you when life had kicked you hard and helped you kick back even harder. The roommates who were your partners in all your bizarre and absurd pranks and acts. The birthdays, the laughs, the late night talks. Eating together, dancing together, studying together and sharing homemade food. All this and so much more. All this would have been impossible without them. All these memories come rushing back when you realize you are not going to see them for months. And it becomes even more arduous. I don't think anyone will ever be able to forget their last day as a fresher. And that's the situation you are in after just one year at college. I wonder what's going to happen after the college ends, the number of memories and friends you will have by then. What saddens me the most is that on that last day, I won't get to see them again after the summer.

-Gaurav Mehta, Inscription'17

पापा की परी थी वो, जब अपने घर आँगन में पली बड़ी थी वो
माँ की दुलारी, भाई-बहन की आँखों का तारा थी वो
अपनी बातों में न्यारी और सबकी प्यारी थी वो
जब अपने घर आँगन में पली बड़ी थी वो

बाहर निकली इस अतरंगी दुनिया में, अपना मुकाम बनाने
उसे कहाँ पता थे इस दुनिया के दस्तूर, ना था उसका क्रसूर
जहाँ नफ़ा मुनाफ़ा देख बदलता है, इस जहाँ का फ़ितूर
सही गलत वो कैसे पहचाने, यहाँ सब घटित होता जाने अनजाने

- Anjali Chaudhary

Womens Day Special ❤️

किसी की नींद न टूट जाए, इस ख्याल फिर आज वो सोई नहीं
हजारों ख्वाइशें मार ली उसने दूसरो की खुशी के लिए पर,
रोई नहीं
जलते कोयले में भी प्यार ढूँढ़ ले, ऐसा हुनर पाया है उसने
वो औरत है जनाब भगवान कसम, उसके जैसा और कोई नहीं !

- Abhijeet Singh

CHRYSLISM

She first arrives in a drizzle, the beautiful rain;
Her refreshing coolness, the summer's bane.

You notice her when you hear the pitter-patter,
That sounds like a toddler's excited chatter.

Her gentle breeze uplifting everyone's mood,
Bringing smiles even to those trying to brood.

As with Mother Nature, she begins to play,
Her enchanting dance takes your breath away.

Caressing the leaves, the flowers, and our skin,
Fresh colors, a dewy sparkle - everything gets clothed in.

With her enthusiasm rising, she begins gusting past,
The trees bending to her will, none can hold fast.

So infectious is her energy that none stand a chance,
Captured by her melody as if hypnotized in a trance.

As she races along she notices the piteous sight,
Because of Man, Mother Nature's plight.

Though her vision blurred by the tainted smoky air,
Still, she sees the woodland creatures screaming in despair.

Starving, defeated, gasping for breath,
Every beast awaiting their imminent death.
Concrete jungles hijacking the once luxuriant green,
Homeless innocents forced to wander unseen.

Filled with rising fury at the horrors she meets,
Her stormy passion eliciting horrific feats.

Cloaked in rage, she wreaks havoc granting no refuge,
The thunder, her warcry, her weapon - the deluge.

Laying waste to the land, all restraint gone,
Her righteous anger spurring her on.

Charismatic in her wrath like a terrible queen,
Comes forth the reckoning wiping the slate clean.

Not one to hold a grudge, she finally relents
Destruction of life as we knew, she prevents.

As her fury abates, calm steals over her impassioned heart,
And at long last, the thunder, the lightning depart.

Finally, a ray of light breaks through the sky overcast
A beacon of hope, for days of future past.

-Aparna Narayanan, Inscription'19

Campus Chronicles

Apna Culture



E-Summit

Apple Pie with Alumni



Inter-IIT Cultural

Inter-IIT Sports

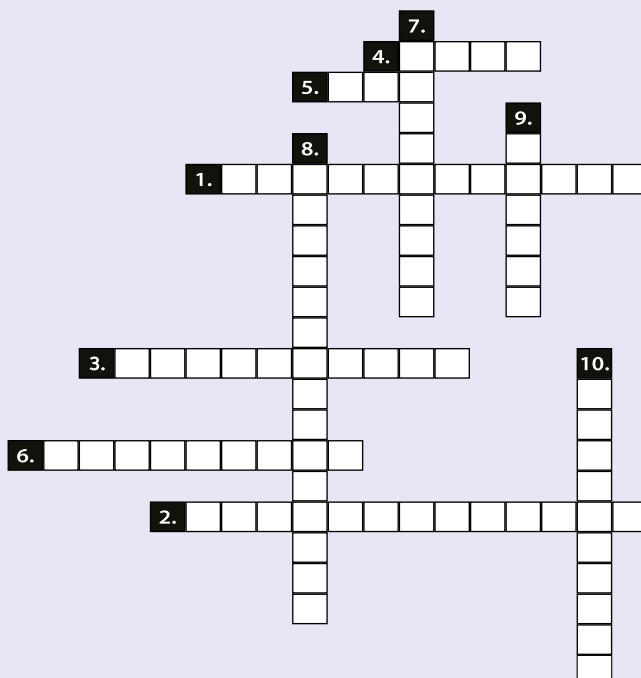


MUN

Magnum Opus



CROSSWORD



1. Name of the guest house in IIT Indore.
2. Name of building in which La Fresco is located.
3. Tallest building of the campus.
4. Total number of sports that indoor sports complex accommodates.
5. Total number of outdoor digital screens in the campus.
6. Name of shortest POD building.
7. No. of lecture halls in Taksashila lecture hall complex.
8. Name of faculty residence buildings in the campus.
9. Name of hostel in the campus for married scholars.
10. Name of laundry in IIT Indore.

ANSWERS - (1) VINDHYANCHAL, (2) SVIDHABHAVAN, (3) ABHINANDAN, (4) FOUR, (5) TWO, (6) MANGANESE, (7) FORTYFIVE, (8) NARMADAKSHIPRA, (9) JCBOSE, (10) MALAUNDRY

Fluxus'23

“The greatness of culture can be found in its festivals.”

Fluxus, the central India's biggest and most anticipated annual techno-cultural fest of IIT Indore launched its tenth edition in the year 2023. The event comprises the numerous technical competitions, multiple cultural events, and the magnificent pro nights. This year the fest was organized during 10th -12th March, 2023. The theme of fluxus'23 was “A Trip to Gamington Square” which was the center of attraction for all gaming lovers. With a total footfall of more than 10,000 attendees, the days were filled with creativity, excitement & enjoyment.



The event started with a fantabulous classical night on Day 0 of Fluxus'23, which was filled with captivating and electrifying performances by known artists making it an absolute rendition. Further, the students from other colleges also exhibited their vocal and dance skills on the stage through their extraordinary performances which ended with the lightening of sky lanterns. Day 1 started with multiple competitions including music battles, live sketching, English poetry, and events on entrepreneurship. At night everyone moved to the beats of Apricot Band.

The next day i.e. Day 2, the hype continued and everyone again assembled for amazing technical and cultural competitions and an amazing session of creators connect. The day ended with a great musical concert by Aceaxe and DJ HolyC. On Day 3 i.e. the final day of Fluxus'23, It was the finals of Glitchpop, the main event of gaming, which was one of the main attractions of Fluxus, and the moment that everyone was waiting for finally came, the concert of the Honey Singh. He rocked that eve and made everyone present waving on his every beat taking the event to a verge of end.



The days and nights in the Fluxus were filled with fun, excitement, and a diverse range of cultural and technical events with the rock back beat of the celebrities. The credit of successful completion of Fluxus goes to the entire fluxus team, volunteers, students and institute's faculties, staff members, who worked day and night in making this event a great success. The level of excitement in Fluxus is reaching new horizons every year, wherein the students from pan India comes to Indore to just attend this event.



My Experience in Inter IIT TechMeet

Held on 11-13 February, 2023 at Kanpur

- Jha Rohan

I was part of an aeromodelling problem statement (PS) by Drona Aviation, an IIT Bombay startup. Our anticipation for a hardware PS turned into surprise when it focused on software. We were tasked with building a Python wrapper for the company's nano drone, Pluto, and fine-tuning its PID values for autonomous navigation.

The drone, fragile and erratic, posed challenges. Testing revealed issues, including slow camera detection and freezing code. Limited spare propellers and hardware failures added to the struggle. Despite numerous attempts and innovations, stability remained elusive, leading to declining lab attendance. We tried to make a submission video by manually flying the drone in a rectangle to be able to make a submission before the deadline and put in the tested and fine-tuned PID values. However, our submission was rejected due to "too much deviation from the path," and we got a chance to resubmit in under 4 days.

Amid hardware failures, a rejected submission, and dwindling morale, a breakthrough came with minor adjustments. A faulty USB cable, data packet optimization, and a white chart paper improved stability. The USB cable was a surprising revelation, underscoring the importance of hardware in seemingly software-centric projects. Adjusting the time delay between contiguous packets significantly enhanced the drone's performance. Additionally, placing a white chart paper on the ground improved pose detection, a seemingly minor detail that proved crucial.

However, challenges persisted during a presentation at IIT Kanpur. A last-minute drone swap saved the day, earning us a bronze medal. Despite hurdles, the experience taught us the importance of attention to detail and perseverance. Lessons ranged from respecting small details to the unexpected role of a USB cable.

Post-event, a mix of exams and explorations ensued. The journey, while challenging, concluded with valuable insights—doubting oneself is okay, but sometimes, the issue lies in unexpected places. The enduring memory remains of late-night lab sessions, early morning classes, and the resilience that often leads to success.



Events @ IIT Indore



Inauguration of Indoor Sports Complex



Pariksha pe Charcha - 2023



MoU between IIT Indore
& RRCAT Indore



Statue unveiling of Devi Ahilya Bai Holkar
at Girl's Hostel by Director IIT Indore



International Yoga Day Celebration



Dr. K. Sivan, joined as Board of Governors of
IIT Indore.



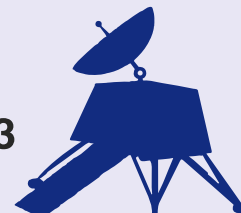
Professor Suhas S. Joshi, Director IIT Indore
participated in the Visitor's Conference 2023,
chaired by the Hon'ble President of India, at the
Rashtrapati Bhavan, Delhi



Signing of MoU's with Govt. of Madhya
Pradesh in the presence of Shri Shivraj Singh
Chouhan, Hon'ble Chief Minister of Madhya
Pradesh.



Teacher Talks on Chandrayaan-3



Prof. Narendranath Patra

Introduction: Prof. Narendranath Patra is a DAASE (Department of Astronomy, Astrophysics and Space Engineering) professor at IIT Indore. The Alumni Cell requested him to provide some insights on the recent success of the Chandrayaan-3 mission.

Q 1: What was the aim of the new Chandrayaan mission?

A: There were two main objectives. The first was to prove we could make a soft landing on the moon. This isn't very easy compared to just crashing on the surface. One has to consider several different things before landing on a planet or moon's surface, such as its gravity, atmosphere, etc, which makes landing much more complicated than orbiting. The second objective was to land on the south pole of the moon. This is also complicated compared to landing near the moon's equator. The moon's south pole essentially goes through 14 days of darkness and 14 days of light every month, making the climate very extreme. The other factor is the uneven terrain, requiring perfect course correction technology.

Q 2: What were the primary scientific objectives of the mission?

A: Human civilisation ought to expand to the cosmos, and the Moon is the most likely candidate to be our base for future exploration. But to consider the Moon in that manner, evaluating the natural resources the moon can offer is necessary. Water is one of such significant resources. The moon's south pole experiences lower temperatures than its equator, meaning that any water would evaporate and escape to space at any place other than the poles. However, the deeper we go on the surface of the moon's south pole, the more drastic the temperature drop and the higher the likelihood of finding water.

So far, we have only discovered traces of Oxygen and Sulphur, but we can remain hopeful.

Q 3: How did we succeed with Chandrayaan-3 in the fraction of the budget that other countries use?

A: You might have heard of the recent Luna mission by Russia that unfortunately failed. We succeeded at our mission even though our budget was much less than theirs. One thing to understand is that the primary factor determining the cost of the mission is not the equipment inside the payload. It is the type of rocket that we use. Costlier missions use potent rockets that can beeline to the destination, using extra fuel and more money. But what we did is a technique called the Slingshot manoeuvre. I won't go into the details, but the technique uses the gravity of the bodies surrounding the rocket, thus reducing the need for more powerful rockets. However, this technique is very complicated and needs precise calculations; our success would not have been possible without our highly talented scientists working on the missions.

Q 4: What challenges did we face and overcome during the mission?

A: I might only know some of the details of the challenges. As far as I know, the mission did not face any issues/problems. However, the most challenging part of the mission was "the last 17 minutes of terror", where the lander had to find a good spot for soft landing. During that time, the Lander had to hover and analyse spots for landing and move to the side if the spot wasn't favourable. This is a technically challenging feat and requires a lot of real-time computation.

Q 5: What were some of the lessons from Chandrayaan-2 that we made use of in Chandrayaan-3?

A: An important quality that ISRO has is that there are no failed missions that they haven't learned from. In fact, one could say that Chandrayaan-3 was built on the failures of Chandrayaan-2. The primary reason for the failure of Chandrayaan-2 was an algorithmic mistake during the landing that we could not anticipate. Chandrayaan-2 was essentially an "optimistic model," meaning that it was built with a conviction that everything would work as it was supposed to. On the other hand, Chandrayaan-3 was a "failure-based model," meaning we considered every single possibility of failure and set up preventative/recovery measures for all that we could predict.



CSR Initiatives



IIT Indore signs MOU with CNH Construction Equipment (I) Pvt. Ltd. to establish Centre of Excellence (CaseCoE) on December 22, 2023



Inauguration of Rajratan Centre of Excellence (RCoE) in IIT Indore on July 26, 2023



SBI visit for opening a Branch at IIT Indore on December 1, 2023



Plantation Drive conducted by SBI in IIT Indore on February 28, 2023



Visit to IMA PG Indore on August 17, 2023



Visit to CNH Industrial on November 24, 2023



Mrs. Stella Chieffo, Director of Global Manufacturing CNH Construction, Turin (Italy), visited IIT Indore on February 15, 2023



Visit to CG Power and Industrial Solutions (CGPIS) on September 14, 2023



Corporate and Industry Connect (CIC-II) held at IIT Indore on February 4, 2023

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