

# Alumni's Diary

## Never Give-up

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PhD 2020 (Civil Engineering)

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Hi,

This is Raghu Piska. I have finished my PhD in the year 2020 from the Civil Engineering department. I am currently working as an assistant professor at the BITS Pilani Hyderabad campus. I have also recently received the DST INSPIRE faculty fellowship from the Government of India.

### What made me join IIT, Hyderabad?

IIT Hyderabad is known for its innovative curriculum, state-of-the-art infrastructure, laboratories, and highly qualified faculty. I especially enjoyed the course Finite Element Analysis given by Prof Amirtham Rajagopal. There is no course which I did not enjoy.

### Activities you were involved in?

I was part of the mess monitoring committee during the year 2018-2019. I also participated in the Inter-IIT sports meet in the table tennis category held at IIT Bhubaneswar in the year 2019. I was also a core member of volunteers who organized the International Conference on Composite Structures during the year 2017 which attracted more than 600 participants all over the world

### Specialized training have you had?

At IITH, I was fortunate to attend the GIAN course on Advanced Finite Element Analysis and a workshop on Nonlocal Mechanics given by Prof JN Reddy from Texas A&M University. I have acquired the required skillset at IITH to get a job in academics. The in-depth concepts taught in each subject, mathematical, programming skills, the competitive culture at IITH made me prepared for my current job.

### Best moment from your's life @ IIT Hyderabad?

The day when my code worked!

### The message you want to convey to the existing student folk @ IIT, Hyderabad?

Be prepared to face the challenges and never give up.

### Best about IITH and suggestion for improvement

Well-qualified faculty is something that is the best at IITH. Improvement in sports facilities will be an area where IITH should work on.

### Best way to contact you?

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## Thermoelectric Energy Harvesting: Concept, Challenges, and Technology

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### Introduction

Electrical energy plays an essential part in modern human society. The energy is generated by consuming nonrenewable resources, which on the contradictory is also responsible for releasing greenhouse gasses into the atmosphere. Greenhouse gases can hamper the ecological balance by disrupting the ecosystem through global warming and climate change.



The imbalance in demand and supply of these limited energy resources also forecasts a global energy crisis for the future generation. The solution to the above problems lies in alternative energy resources and/or new technologies with higher efficiencies of energy conversion.