

# Gourab Fouzder

Doctoral Research Scholar

Electrical Engineering

Indian Institute of Technology Delhi

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## EXPERIENCE

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- **Assistant Professor at Pratap Institute of Technology & Science, Sikar** Dec 2019 - Jun 2022  
*Teaching in the department of Electronics & Communication Engineering* Rajasthan, India
- **GATE Faculty at The Gate Coach** Aug 2018 - Nov 2019  
*Teaching experience of more than 250 hours in Electronics & Comm Engg. subjects at NIT Nagaland and Jorhat Institute of Science & Technology.* Guwahati, India
- **Teaching Assistant at IIT Guwahati** Aug 2016 - July 2018  
*Basic Electronics Lab, Communication Sys Simulation Lab, Comm Sys Design Lab.* Guwahati, India

## EDUCATION

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- **Indian Institute of Technology Delhi** Aug 2022 - Present  
*PhD in Communication Engineering (Channel Coding for FSO Communication)* New Delhi, India
- **Indian Institute of Technology Guwahati** Aug 2016 - July 2018  
*Master of Technology in Communication Engineering* Guwahati, India
- **North-Eastern Hill University** July 2011 - Aug 2015  
*Bachelor of Technology in Electronics & Communication Engineering* Shillong, India

## PROJECTS

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- **Optimal Locally Repairable Codes over small fields for DSS** July 2017 - July 2018  
*Supervisor: Dr. Smarajit Das, Assistant Professor, Dept. of EEE, IIT Guwahati*  
*Dr. Brijesh Kr Rai, Assistant Professor, Dept. of EEE, IIT Guwahati*
  - Designed an algorithm to find out the locality and availability property of an LRC.
  - Found out the locality and availability property of Near-MDS and Almost-MDS codes.
  - Constructed Optimal LRCs over small fields using Near-MDS and Almost-MDS codes.
- **Railway Track Security System** Mar 2015 - June 2015  
*Supervisor: Dr. L. Joyprakash Singh, Associate Professor, Dept. of ECE, NEHU, Shillong*
  - Designed a system model to detect a crack in the railway track and alert the nearby railway station via SMS using GSM communication protocols.

## TECHNICAL SKILLS

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- **Programming:** C/C++
- **Software and Tools:** Matlab, LATEX, Wireshark \*
- **Operating Systems:** Windows, Linux\* \* Elementary proficiency

## KEY COURSES TAKEN

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- Information & Coding Theory, Network Coding, Linear Algebra & Optimization, Communication Sys, MIMO, Wireless Comm., Detection & Estimation, Signals & Systems, Data Comm. Networks, Digital Electronics

## POSITIONS OF RESPONSIBILITY

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- Maintenance Secretary, Brahmaputra Hostel, IIT Guwahati *May 2017 - June 2018*
- Innovative Secretary, Electrophoenix, Dept. of ECE, NEHU, Shillong *Mar 2015 - June 2015*

## ACHIEVEMENTS

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- **Anundoram Borooah Award:** Awarded a desktop PC and certificate by the Govt. of Assam for securing first division in class X board exam.
- **GATE 2016:** Secured 98.06 percentile among 0.15 million candidates appeared for Electronics & Communication Engineering branch.

## EXTRA CURRICULAR ACTIVITIES

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- Undergone two weeks training program at Airport Authority of India, Agartala, India.
  - Organized Flood Relief Campaign for the people of Assam affected by Brahmaputra Flood in Mayong Region. By inspiring IITG junta for generous contribution, we could provide food for more than 500 families for a week. We also provided clothes to these families.
  - Coordinator of Brahmaputra Champions League, 2017, Inter Hostel Cricket Tournament of IITG.
  - Organized Hostel Day 2018 at Brahmaputra Hostel, IITG.
  - Participated in 8 days Faculty Development Program organized by All India Council for Technical Education (AICTE).
  - Participated in 8 days National Workshop on Universal Human Values and Professional Ethics.
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