



Nitish Sinha

Electronics and Communication Engineering

- ▶ M.No.: 8415022833
- ▶ Tripura University
- ▶ India
- ▶ Unmarried

Skills

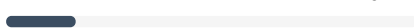
Mathlab 5+ yrs.



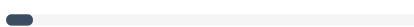
Python 3+ yrs.



HTML,CSS 1+ yrs.



NECBH(AI) 0.5 yrs



Education

2018 - 2020

Electronics and Communication (M.Tech)

Tripura University
Optical Communication, DSP
 Master's thesis: „increasing Channel Efficiency of an Optical Communication System of a Transmitter and Receiver“
Percentage :82.4%

2014 - 2018

Electronics and Telecommunication (B.E)

Biography

M.Tech in Electronics and Communication Engineering, Tripura University (2020)
 B.E in Electronics and TeleCommunication Engineering,TIT, (2018)
 Area of Interest: Optical Communication, Photonics, DSP, Communication,ML,Deep learning

Work experience

Gust Faculty | PhD student

Department of Electronics and Communication Engineering, Tripura University.

today

NECBH Project

Under North East Centre for Biological Sciences and Healthcare Engineering (NECBH) Twinning Outreach Programme hosted by Indian Institute of Technology Guwahati (IITG)

2021

Workshop

5 Day National Workshop on Data Science and Data Mining Department of IT, Tripura University

2020

Workshop

5 Day National Workshop on Machine Learning and Artificial Intelligence, Department of IT, Tripura University

2020

Workshop

Boot camp on Machine Learning Using Python

20 January 2021

CONFERENCE

INTERNATIONAL CONFERENCE ON COMPUTER AND COMMUNICATION SYSTEMS, NEHU

10-11 August 2020

CONFERENCE

ML-based Constellation-rotation Correction of QPSK Signal in Optical Fiber Communication
 35th Indian Engineering Congress
 The Institution of Engineers(India)

18-20 December 2020

CONFERENCE

Visual Representation of COVID-19 Outbreak in India
 NCECC-2020

5-6 September 2020

Tripura Institute Of Technology
Bachelor's thesis: „QUAD-
COPTER “

Percentage :64.4%

Interests

- ▶ Travelling
- ▶ Coding
- ▶ Learning
- ▶ Cooking
- ▶ Listening songs

Contact

- Kailashahar
Unakoti Tripura
Pin : 799280
- +91 8415022833
- nitish.ece@tripurauniv.ac.in

Publications

- **Nitish Sinha**, et al. "Realization of 2-bit multiplier based on Vedic mathematics using electroabsorption microring modulator" Society of Photo-Optical Instrumentation Engineers, Optical Engineering, 2024
- **Nitish Sinha**, et al. "Deep Learning based noise identification in the Optical fiber communication using Variational Mode Decomposition." 2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC). IEEE, 2021.
- **Nitish Sinha** & Satyabrata Singha & Mohua Chakraborty, and Bishanka Brata Bhowmik. . (2020). "rotation correction of QPSK signal in optical fiber communication". In: *35th Indian Engineering Congress (IEI)*
- **Nitish Sinha** & Sanjukta Bhowmik & Satyabrata Singha & Bishanka Brata Bhowmik. . (2020). "Dual Modulation of QPSK And OOK Using silicon Microring modulator". In: *International Conference on Computing and Communication Systems (I3CS)*
- Satyabrata Singha & Bishanka Brata Bhowmik & **Nitish Sinha**. (2019). "Error probability analysis of Hexagonal". In: *International Conference on Computers and Devices for Communication (CODEC)*,
- Satyabrata Singha & Bishanka Brata Bhowmik & **Nitish Sinha**. (2020). "Performance evaluation of microring modulator based two-circular 16QAM modulator under amplitude spontaneous emission noise.". In: *Optical Engineering 59.3 (2020): 036102*.
- Debnath, Suman, **Nitish Sinha**, and Bishanka Brata Bhowmik. "ML based modulation format identifier using K-NN algorithm." *Materials Today: Proceedings (2022)*.
- Das, Srikanta, **Nitish Sinha**, et al. "An electro-optic reconfigurable OR to EX-OR gate based on microring resonator loaded on Mach-Zehnder interferometric structure." *Results in Optics 9 (2022): 100299*.
- Singha, Satyabrata, **Nitish Sinha**, et al. "Optical 8-ary phase shift keying modulation format generator based on three microring modulators." *Microwave and Optical Technology Letters 64.4 (2022): 821-826*.
- Debnath, Tanmoy, **Nitish Sinha**, et al. "Proposal of micro-ring resonator based PAM-4 modulator with variable ER." *Materials Today: Proceedings 65 (2022): 2851-2854*.
- Sinha, Nitish, et al. "Visual Representation of COVID-19 Outbreak in India." (2021).

Nitish Sinha, 17th February 2026