

NAMRATA KATAKI

Designation: Assistant Professor, Department of Electronics and Communication Engineering

Institution: Girijananda Chowdhury University / GIMT

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Career Objective

Experienced academician with 13+ years of teaching experience in Electronics and Communication Engineering, specializing in IOT & embedded systems, digital system design, image processing, and Communication systems. Passionate about teaching, research, innovation, and academic development with a strong commitment to engineering education and technological advancement..

Academic Qualifications

Degree	Specialization	Institution / University	Year
Ph.D. (Pursuing)	Electronics & Communication Engineering	Gauhati University	Pursuing
M.Tech	Electronics Design and Technology (ELDT)	Tezpur University	2012
B.E	Electronics & Telecommunication Engineering (ETE)	GIMT, Gauhati University	2010

Professional Experience

Designation	Institution	Duration	Experience
Assistant Professor	GIMT / Girijananda Chowdhury University	Sept 2012 – Present	13 Years

Area of Specialization

- Digital System Design VHDL/VERILOG
 - IOT & Embedded Systems
 - Image Processing
 - Communications
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Research Interests

- Communication
- Digital System Design
- IOT & Embedded Systems
- Image Processing
- Machine Learning Applications

Technical Skills

- VERILOG
- VHDL
- Arduino Programming/Assembly
- MATLAB
- LABVIEW
- C/C++

Professional Memberships

- Life Member – ISTE (Indian Society for Technical Education)

Research Publications

1. “Automated Flood Detection and Rapid SMS Alert System”, Dipankar Kalita, Namrata Kataki, GIS Science Journal (UGC care II), ISSN NO : 1869-9391, Vol. 12, Issue 6, 2025, pp. 793–798, DOI: <https://doi.org/10.5281/zenodo.15795816>
2. CoalMine Sentinel: A Wireless Air Quality Monitoring and Alarming Device for Coal Mining Industry – Dipankar Kalita, Namrata Kataki, GIS Science Journal (UGC CARE II, ISSN: 1869-9391), Girijananda Chowdhury University, Vol. 12, Issue 6, 2025, pp. 799–805, DOI: <https://doi.org/10.5281/zenodo.15795874>
3. Namrata Kataki, Jintu Kakati, Dibyani Darsha Borah, “ **Disease identification of tomato plant using deep convolutional neural network (CNN)**”, GIS Science Journal (UGC care II), ISSN NO : 1869-9391, **volume 10, issue 7, 2023**, Page no: 1218-1224 **DOI:20.18001.GSJ.2022.V1017.23.411469**
4. Namrata Kataki , Abhirup paul, “ **Webcam Based Drowsiness Detection And Alert System For Vehicles Using Convolutional Neural Network (CNN)**”, : 1234-1239. **DOI:20.18001.GSJ.2022.V1017.23.411471**
5. Namrata kataki, Dr. Amrita Ganguly, ” *Application of edge detection technique on dental images to find human identity*”, in International Journal for Modern Trends in Science and Technology, Volume 8, Issue 06, June 2022, pg no 154-15, ISSN: 2455-3778 IMPACT FACTOR
6. Taskin Hayat , Namrata Kataki, “ **IOT Based Solar Grid Monitoring and Performance Analysis System**”, International Journal for Research in Engineering Application & Management (IJREAM) *ISSN: 2454-9150* Vol-08, Issue-02, MAY 2022 pg 226-233.
7. Namrata Kataki, Sanjana Dutta Choudhury, Hrishikesh Gogoi, Swaraj Bora, Pratyosh Pawan Bora, “**Implementation of Machine Learning in Early Detection of Breast Cancer**”, International Journal of Emerging Technologies and Innovative Research (JETIR) ISSN:2349-5162, Vol.9, Issue 5, page no.c261-c267, May-2022,
8. Namrata Kataki, Dibyani Darsha Borah, “**Design and implementation of a Smart Stick for visually impaired person using Arduino**”, International Journal for Modern Trends in Science and Technology, Volume 8, Issue 04, April 2022 ISSN: 2455-3778 , pg 162-165.
9. N. Kataki, P. Das, M. Chetry, N. Sharma, D. Pathak, “ **IOT based solar powered automatic irrigation system**” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.177. Volume 7 Issue VII, July 2019

10. N. Katak, N.Gogoi, S. Nawaz, J. P. Talukder, A. Konwar, “*Design and Development of Arduino Based Electronic Harp Using LASER*”, JETIR, Volume 5, Issue-7, July 2018
 11. N. Katak, A. Nath, M. Das, A. Goswami, “*Portable Medicine Reminder and Automatic Monitoring System*”, IJREAM, Vol-04, Issue-03, June 2018
 12. N. Katak, R. Chutia, “*Design And Development Of A Portable E-Nose for Gas Identification*”, IJRCEE, Vol.4, Issue 6, June 2016.
 13. S. Choudhury, N. Katak, “*An Innovative Way for Computerized Smith Chart Generation and Transmission Line Problem Solving*”, IJRET, Vol. 3, Issue 09, Sep 2014
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Administrative Responsibilities

- Institute Coordinator for NIRF
- Coordinator Digital and social media cell, GCU
- Co-coordinator of Robotics, electrical hub, innovation club, GCU
- Member of career development cell, GCU
- Coordinator of Training and Placement Cell, ECE
- AISHE Data Collection & Submission Committee Member
- NBA Module Coordinator, ECE
- Semester Coordinator, ECE
- Project Coordinator, ECE
- Member of UGC 2F and 12B Working Committee
- Member of Anti-Ragging Committee (ECE)
- Coordinator – Hackathon Working Committee

Awards and Achievements

1. Governor’s Award for Service to Humanity as Member of Junior Red Cross.
 2. NEC Scholarship from Government of India during M.Tech.
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