

Name Mrs. MONISHA PATHAK.

Designation Assistant Professor (Stage3).

Department Instrumentation Engineering, Jorhat Engineering College, Jorhat-785007, Assam

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Area of Specialization: Instrumentation and Control

Educational Qualification:

1. PhD Pursuing(Thesis Submitted), Department of Electrical Engineering, Dibrugarh University.
2. MTech (2015) Specialization: Power and Control, Department of Electronics & Electrical Engineering, IIT Guwahati .
3. BE (2000) Instrumentation Engineering, Jorhat Engineering College, Dibrugarh University.

Professional Experience:

From 02/03/ 2007 - till date: Faculty, Jorhat Engineering College.

Courses Taught:

Transducers, Industrial Instrumentation, Process Control, Modern Analytical instruments.

Projects guided: UG: More than 45, PG: 02.

Membership:

- Life Member of Instrument Society of India
- Life Member of Biomedical Society of India

Sponsored Research Project:

Project Title	Funding Agency	Amount	Duration	Current Status
Robust Control of Uncertain Robotic Manipulator	TEQIP-III of Assam Science &Technology University.	2.25 Lakh	1.5 years	Completed

Publications ;

Title of the paper	Publication	Date/Year of Publication	National or International Journal/Conference
1. T. Rasul ¹ , M. Pathak ² ,	<i>Control of nonlinear chemical process using sliding mode control</i> ,	2016	1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016), 4-6 July' 2016, Delhi Technological University, Delhi.
2. M. Pathak ¹ ,	Mrinal Buragohain, " <i>Finite Time Continuous Terminal Sliding Mode Control for Trajectory Tracking of Robotic Manipulator</i> ",		International Conference on Innovative Research In Applied Physics, Material Sciences, Instrumentation, Electronics, Communication, Electrical, Power Control, Computer Science and Information Technology (TECHNOVA-2016), 22nd and 23rd December, 2016 , USIC, Gauhati University, Gauhati , Assam, India.
3. T Rasul ¹ , M. Pathak ² ,	<i>Robust Control of Thermal Mixing Process using Sliding Mode Control</i> ,		Advanced Research in Electrical and Electronic Engineering (AREEE), Vol 3, Issue 5, 2016, pp. 349-353, Krishi Sanskriti Publications.
4. M. Pathak ¹ ,	A. Saikia, Dr. M. Buragohain, “ Trajectory Tracking of Robotic Manipulator using Terminal Sliding Mode Control,”		International Conference On “Electronics Communication, Robotics, Data Mining, Information Sciences and Electrical Engineering”(ERDIE-2019), 27th April 2019, Jawaharlal Nehru University, New Delhi.
5. A. Saikia, M. Pathak ² ,	<i>Integrated Control of Active Front Steer Angle and Direct Yaw Moment Using Nonsingular Terminal Sliding Mode Technique</i> .		The National Conference on ETEES-19, 29-30 th March, 2019, AEC, Guwahati, Assam.
6. A. Saikia, M. Pathak ² ,	<i>Vehicle stability enhancement based on unified chassis control with electronic stability control and active front steering</i> .		Advanced Research in Electrical & Electronics Engg , KrishiSanskriti Publications. Jan- March 2019
7. A. Saikia, M. Pathak ² ,	<i>Second Order Sliding Mode based Vehicle's Lateral Stability Enhancement by Integrating Active Front Steer angle and Direct Yaw Moment Control</i> .		National Conference on Recent Advances in Science and Technology, NCRASST 2020, 17-19 th August, 2020, ASTU, Guwahati, Assam.
8. M. Pathak ¹ ,	M. Buragohain ² ,. <i>Sliding Mode with Adaptive Control of Robot Manipulator Trajectory Tracking using Neural Network Approximation</i> ”,		International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-10 Issue-6, August2021
9. . M. Pathak ¹ ,	M. Buragohain ² , “ <i>A New Neural Network Based Sliding Mode Adaptive Controller for Tracking Control of Robot Manipulator</i> ”,		International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-11 Issue-2, December 2021.
10. M. Pathak ¹ ,	M. Buragohain ² , “ <i>Adaptive Sliding Mode Controller for Robotic Manipulator Tracking Control with Fuzzy Design</i> ”,		International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-11 Issue-6, August 2022.

FDP/ Workshop attended:

Sl No.	Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
1	Lasers: Fundamentals and Applications	NITTTR, Chandigarh	18/07/2022 to 22/07/2022 (One Week)	MHRD, Govt of India
2	Fiber Optic Testing and Measurements	NITTTR, Chandigarh	from 21/03/2022 to 25/03/2022 (one Week)	MHRD, Govt of India
3	Nanotechnology for electronic and photonic devices	NITTTR, Chandigarh	06/06/2022 to 10/06/2022 (One Week)	MHRD, Govt of India
4	Analytical Techniques for Material Characterization	NITTTR, Chandigarh	07/03/2022 to 11/03/2022 (one Week)	MHRD, Govt of India
5	Industry 4.0	NITTTR, Chandigarh	10/01/2022 to 14/01/2022 (one Week)	MHRD, Govt of India
6	Refresher Course in Nanoscience and Nanotechnology	NITTTR, Chandigarh	13/06/2022 to 24/06/2022 (Two Weeks)	MHRD, Govt of India
7	Nanosensors & Devices	NITTTR, Chandigarh	22/08/2022 to 26/08/2022 (One Week)	MHRD, Govt of India
8	Smart Materials Processing and Applications	NITTTR, Chandigarh	25/07/2022 to 29/07/2022 (One Week)	MHRD, Govt of India