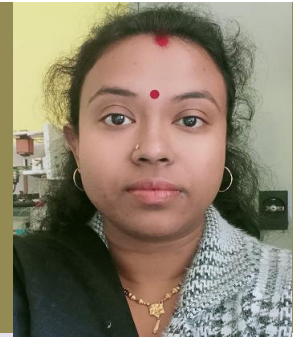


# BIODATA

**Dr. UPAMA DAS**



**Father's Name: Amal Chandra Das**

**Mother's Name: Gita Das**

**Date of birth: 26/10/1985**

**Marital Status: Married**

**Gender: Female**

**Husband's Name: Dr. Sukanta Debnath**

**Permanent address:**

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**PhoneNo. +919774384585 / +917005824908 E-mailID upama.phd.2021@gmail.com/  
upama@sitcoe.org.in**

**Nationality: Indian**

**Category: UR**

## DETAILS OF EDUCATIONAL QUALIFICATION

Exam. Passed	Specialization	Board/University	Passing Year	Class/Div <sup>n</sup>	%/CGP Amarks
10 <sup>th</sup>	All	TBSE	2002	1 <sup>ST</sup>	63.00
Diploma	Electrical Engineering	WBSCTE	2006	1 <sup>ST</sup> (Distinction)	75.60
B.Tech	Electrical Engineering	WBUT	2009	1 <sup>ST</sup>	7.24
M.Tech	Instrumentation	NIT AGARTALA	2012	1 <sup>ST</sup> (Distinction)	8.41
P.hd	Power Electronics And Drives	NIT MIZORAM	2021	1 <sup>ST</sup>	8.50

## DOCTORAL DEGREE DETAILS

<b>Thesis Title :</b>	<b>MODIFIED CONTROL STRATEGIES OF A BRUSHLESS DC MOTOR DRIVE</b>
<b>Research area :</b>	Power Electronics and Machine Drives
<b>Date of Thesis Submission :</b>	11-Jul-2020
<b>Date of Viva-Voce :</b>	28-Mar-2021
<b>Degree Awarded Date :</b>	28-Mar-2021
<b>Name of Supervisor &amp; Address :</b>	Dr. Pabitra Kumar Biswas Associate Professor, NIT Mizoram

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## M.TECH DEGREE DETAILS

<b>Dissertation Title :</b>	<b>Broadband Frequency Conversion Using TIR-QPM on Isotropic Semiconductor Slab with Parabolic Upper Surface Configuration</b>
<b>Area of Dissertation work :</b>	Instrumentation
<b>Name of Supervisor &amp; Address :</b>	Dr. Sumita Deb, Assistant Professor, NIT Agartala

## DETAILS OF EMPLOYMENTS

Name of Employer	Designation	From	To
<b>Sharad Institute of Technology College of Engineering, Yadrav</b>	Assistant Professor in AI & DS Dept.	08/01/2024	TILL DATE
<b>NIT Mizoram</b>	Temporary Faculty in EEE Dept.	21/02/2023	31/12/2023
<b>NIT Mizoram</b>	Assistant Professor (Adhoc) in EEE Dept.	07/02/2014	12/02/2023
<b>The Assam Kaziranga University</b>	Assistant Professor in EE Dept.	29/08/2012	03/02/2014
<b>NIT Agartala</b>	Taking Laboratory Classes	July, 2011	Dec, 2011
<b>The AMCS</b>	Regular Faculty in EE Dept.	26/10/2009	23/06/2010

## COURSES TAUGHT

Instrumentation, Control System, Electrical and Electronics Measurements, Circuit Theory, Basic Electrical Engineering, Industrial Instrumentation and Control, Signals and Systems, Energy Management and Audit, Data Communication and Networking.

## LABORATORY CLASSES CONDUCTED TILL DATE

Basic Electrical Engineering, Electrical and Electronic Measurement, Instrumentation, Control Systems, Circuit Theory, Power Electronics, Data Communication and Networking.

## JOURNAL PAPERS

1. Sukanta Debnath, **Upama Das**, Pabitra Kumar Biswas, “Comparative Analysis of Single Coil and Double Coil Active Magnetic Bearings for High Speed Application”, Electrical Engineering, 2023. (ACCEPTED).
2. **Upama Das**, Sukanta Debnath, Suraj Gupta, Pabitra Kumar Biswas, Thanikanti Sudhakar Babu, Nnamdi I. Nwulu, “Active Magnetic Bearing System Using I-Type and U-Type Actuator”, IEEE Access, 2023, doi:10.1109/ACCESS.2023.3276324.
3. **Upama Das**, P.K. Biswas, “Relative study of Classical and fuzzy logic Controllers in Closed Loop BLDC Motor Drive with GA and PSO optimization techniques”, Journal of applied research and technology, vol. 19, no. 4, pp. 379-402, August. 2021.

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4. Sukanta Debnath, **Upama Das**, Pabitra Kumar Biswas, Belqasem Aljafari, Sudhakar Babu Thanikanti, "Design and Control of Multicoil Active Magnetic Bearing System for High-Speed Application", *Energies* 2023, 16, 4447, <https://doi.org/10.3390/en16114447>
5. Jonathan Laldingliana, Sukanta Debnath, P.K. Biswas, **Upama Das**, "Design and Speed Control of U-Type 3-Coils Active Magnetic Bearing", *Electrical Engineering*, 2023, <https://doi.org/10.1007/s00202-023-01838-y>.
6. **Upama Das**, P.K. Biswas, Sanjeev Parek, "Performance analysis for Open Loop Brushless DC Motor Drives", *IJEAT*, vol. 8, no. 6, pp. 1220-1228, August. 2019.
7. Smita Banik, **Upama Das**, Sumita Deb, Ardhendu Saha, "Numerical analysis of broadband second harmonic generation using TIR-QPM in a parabolic profiled isotropic semiconductor slab", *Optics Communications*, vol. 295, pp. 180-187, May. 2013.
8. **Upama Das**, P. K. Biswas, "Closed Loop Speed Control of BLDC Motor Drive by using classical controllers with Genetic Algorithm", *Journal of Power Technologies*, vol. 100, no. 2, pp. 161-170, June. 2020.
9. **Upama Das**, P.K. Biswas, Sukanta Debnath, "A Comparative Study between Load and No-Load condition of Brushless DC Motor Drives by Using MATLAB", *Journal of Power Technologies*, vol. 98, no. 3, pp. 281-286, June. 2017.
10. **Upama Das**, P. K. Biswas, "Variation of Speed and Torque Response of Closed-Loop Classical Controlled Different Rated BLDC Motor", *International Journal of Recent Technology and Engineering*, vol. 8, no. 6, pp. 230-235, March. 2020.
11. **Upama Das**, P. K. Biswas, "Speed Response Optimisation of A BLDC Motor Drive with GA-Based Classical Controller Tuning", *International Journal of Innovative Technology and Exploring Engineering*, vol. 9, no. 3, pp. 2167-2172, January. 2020.
12. Sukanta Debnath, P.K. Biswas, **Upama Das**, "Analysis and Simulation of Different type of Power Amplifiers Used in Electromagnetic Levitation System", *Journal of Power Technologies*, vol. 98, no. 2, pp. 220-227, August. 2018.
13. **Upama Das**, P.K. Biswas, Sukanta Debnath, "Modeling and Simulation of Open Loop Model of Brush Less DC Motor by Using MATLAB Based Software", *International Journal of Electronics, Electrical and Computational System*, Volume 6, Issue 6, pp.520-526, June 2017.
14. Sumita Deb, Ardhendu Saha, Smita Banik, **Upama Das**, "Determination of Phase Matching Angle for Non-Resonant Total Internal Reflection Quasi-Phase Matching in a Parallel slab using MATLAB/SIMULINK Software", *UACEE International Journal of Advancements in Electronics and Electrical Engineering*, vol. 1, no. 2, pp. 118-121, 2012.
15. Sumita Deb, Ardhendu Saha, Smita Banik, **Upama Das**, "Quasi-Phase Matched Second-Harmonic Generation in Telluride Compounds Using Total Internal Reflection", *UACEE International Journal of Advancements in Electronics and Electrical Engineering*, vol. 1, no. 2, pp. 122-125, 2012.

## CONFERENCE PAPERS

1. **Upama Das**, P. K. Biswas, "Performance analysis of BLDC motor drive by varying the sensor angle for no load condition," 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 2019, pp. 983-987.
2. S. Jana, P. K. Biswas and **U. Das**, "A comparative study of two-level and five-level inverter to convert super capacitive energy for PMSM load," 2017 IEEE Calcutta Conference (CALCON), Kolkata, India, 2017, pp. 352-356.
3. S. Jana, P. K. Biswas and **U. Das**, "Numerical Computational Analysis of Lightning Energy Storage System Using Single Stage Two Level Impulse Generator," 2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, 2018, pp. 1-6.
4. Venkatesh Tadivalasa, P.K. Biswas, **Upama Das**, "Numerical Computational Analysis of

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Lightning Energy Storage System Using Single Stage Two Level Impulse Generator,"International conference on Futuristic Technologies (INCOFT), 2022.

### BOOK CHAPTER PUBLISHED

1. **Upama Das**, P. K. Biswas, Chiranjit Sain "A Noble Control Approach for Brushless Direct Current Motor Drive Using Artificial Intelligence for Optimum Operation of The Electric Vehicle," Artificial Intelligent Techniques for Electric and Hybrid Electric Vehicles, Willey, pp. 17-48, July, 2020.

### DEPARTMENTAL ACTIVITIES

SL. NO	Activity	Period	
		From	To
1	<b>B.Tech coordinator (NIT Mizoram)</b>	28-08-2019	31/12/2023
2	<b>Faculty Advisor (NIT Mizoram)</b>	18-01-2021	31/12/2023
3	<b>Lab in charge (NIT Mizoram)</b>	28-08-2017	31/12/2023
4	<b>Warden (NIT Mizoram)</b>	01-09-2022	12/02/2023
5	<b>Institute Innovation Council Department Coordinator (SITCOE)</b>	08-01-2024	Till Date
6	<b>Idea Lab Coordinator (SITCOE)</b>	08-01-2024	Till Date

### ESTABLISHMENT OF NEW LAB

SL. NO	Name of Lab	Year of Establishment	Department/Institute
1	<b>INSTRUMENTATION</b>	<b>2015</b>	<b>EEE/NIT MIZORAM</b>

### NAME AND ADDRESS OF TWO REFERENCES

	1 <sup>st</sup> reference		2 <sup>nd</sup> reference
<b>Name</b>	Dr. Pabitra Kumar Biswas	<b>Name</b>	Dr. Subir Datta
<b>Position</b>	Associate Professor	<b>Position</b>	Associate Professor
<b>Address</b>	NIT Mizoram Chaltlang, Dawrkawn Aizawl - 796012	<b>Address</b>	Mizoram University Aizawl, Mizoram
<b>E-Mail</b>	pabitra.eee@mitmz.ac.in	<b>E-Mail</b>	mzut168@mzu.edu.in
<b>PhoneNo.</b>	9749148157	<b>PhoneNo.</b>	9433887966

### DECLARATION

"I hereby declare that the statements made by me are true, complete and correct to the best of

## BIODATA

my knowledge and belief.”

Place: Ichalkaranji

Date:

Name: UPAMA DAS

*Upama Das*  
Signature of Applicant