PROFORMA FOR BIO-DATA

1.   Name and full correspondence address: **Dr. B. Shakila**

                       Assistant Professor (Grade I)

                       Department of Electrical and Electronics Engineering

                       National Institute of Technology Nagaland

2.   Email(s) and contact number(s): shakila@nitnagaland.ac.in

3.   Institution: National Institute of Technology Nagaland

4.   Date of Birth: 22/04/1988

5.   Gender (M/F/T): Female

6.   Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% / CGPA of marks
1.	B.E	2009	Electrical and Electronics Engineering	Anna University, Chennai.	74.0%
2.	M.Tech	2012	Power System Engineering	Kalasalingam University, Krishnankoil, Tamilnadu	9.40 CGPA
3.	Ph.D	2018	Electrical and Electronics Engineering	National Institute of Technology Nagaland	9.50 CGPA

7.   Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

     Thesis title: Implementation and Analysis of Light Weight Security Framework for Advanced Metering Infrastructure in Smart Grid.

     Institute: National Institute of Technology Nagaland.

     Year of Award: 2018.

8.   Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	Assistant Professor (Grade I)	National Institute of Technology Nagaland.	21.06.2022	Till date	Level 12 AGP 8000/-
2.	Assistant Professor (Grade II)	National Institute of Technology Nagaland.	06.08.2013	20.06.2022	Level 10 AGP 6000/-
3.	Assistant Professor	Kamaraj College of Engineering and Technology, Tamilnadu.	22.11.2012	01.03.2013	Pay Band 14600/-
4.	Assistant Professor	PVP college of Engineering and Technology for Women, Tamilnadu.	01.05.2012	15.10.2012	Consolidated Rs. 18,000/-
5.	Systems Engineer	Infosys Technologies Limited.	25.01.2010	23.04.2010	Gross Rs.23,551/-

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1.	PG University Rank Holder	Kalasalingam University	2012

10. Books/Reports/Chapters/General articles etc.

S.No	Author's Name	Title	Publisher	Year of Publication
1.	Rakesh Kumar Verma, Prakash Marimuthu and **Shakila Baskaran**	Wind Power Forecasting with Machine Learning Approach in the book titled "AI for Climate Change and Environmental Sustainability"	CRC Press	2024 *(ISBN 9781032589060)*
2.	Anirudha Kumar Verma, Prakash Marimuthu and **Shakila Baskaran**	Optimal Dispatch of Distributed Renewable Energy Sources in Isolated Microgrid System Exploiting Metaheuristic Optimization Algorithms in the book titled "AI for Climate Change and Environmental Sustainability"	CRC Press	2024 *(ISBN 9781032589060)*
3.	Ansar Shaik Satuluru, **Shakila Baskaran** and Prakash Marimuthu	Effective Planning of Renewable Energy System: Solar Radiation Prediction Case Study in Telangana State, India using Machine Learning Approach	IGI Global	2024 *(DOI: 10.4018/979-8-3693-0492-1)*
4.	Sampatirao Nanibabu, **Shakila Baskaran** and Prakash Marimuthu	Realization of Demand Side Management in Smart Grid: Day ahead load-shifting strategy using meta-heuristic optimization algorithm	IGI Global	2024 *(DOI: 10.4018/979-8-3693-0492-1)*

11. Publications *(List of papers published in SCI Journals, in year wise descending order).*

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Sampatirao Nanibabu, **Shakila Baskaran** and Prakash Marimuthu	Demand Side Management in Residential Smart grid using Osprey Optimization Algorithm *(DOI: 10.1109/MysuruCon59703.2023.10396870)*	*Conference 2023 IEEE 3rd Mysore Sub Section International Conference (MysuruCon)*	-	1-6	January 2024
2.	Rakesh Kumar, M Prakash and **B Shakila**	A Comparative Analysis of Time Series and Machine Learning Models for Wind Speed Prediction *(DOI: 10.1109/MysuruCon59703.2023.10396852)*	*Conference 2023 IEEE 3rd Mysore Sub Section International Conference (MysuruCon)*	-	1-6	January 2024

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
3.	V Manohar Chand Naik M Prakash and **B Shakila**	Diabetes Prediction Using Supervised Machine Learning Models *(DOI: 10.1109/INDISCON58 499.2023.10270102)*	***Conference** 2023 IEEE 4th Annual Flagship India Council International Subsections Conference (INDISCON)*	-	1-7	October 2023
4.	**B Shakila,** G NaliniPriya, A Adithyan, R Keerthivasan, M Ranjeet Kumar and Vishal M Shekhar	IoT based Dynamic Vehicle Tracking System *(DOI: 10.1109/ICAECA5283 8.2021.9675562)*	***Conference** 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)*	-	1-5	January 2022
5.	Sampatirao Nanibabu, **B Shakila** and M Prakash	Reactive Power Compensation using Shunt Compensation Technique in the Smart Distribution Grid *(DOI: 10.1109/ICCCS51487. 2021.9776327)*	***Conference** 2021 6th International Conference on Computing, Communication and Security (ICCCS)*	-	1-6	May 2022
6.	**B Shakila,** T Tuithung	Security enhancement in smart distribution grid with light-weight dynamic key encryption *http://nopr.niscpr.res.i n/handle/123456789/5 2217*	*Journal of Scientific and Industrial Research, NISCAIR-CSIR*	78(12)	847-851	December 2019
7.	**Shakila Baskaran** and Themrichon Tuithung	Performance Metrics Evaluation of Secured Zigbee Communication Networks in Smart Distribution Grid *(DOI:*	***Conference** 2018 International Conference on Advances in Computing and Communication*	-	41-44	August 2018

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
		10.1109/ICACCE.2018.8441726)	*Engineering (ICACCE)*			
8.	**Shakila Baskaran and** Themrichon Tuithung	Remote monitoring and control of smart distribution grid using Xbee communication *(DOI: 10.1109/ICCTCT.2018.8550890)*	***Conference** 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)*	-	1-4	November 2018
9.	**Shakila Baskaran,** N Karpagam and D Devaraj	Optimization of UPFC controllable parameters for stability enhancement with real-coded genetic algorithm *(https://ieeexplore.ieee.org/abstract/document/6216125)*	***Conference** IEEE-International Conference On Advances In Engineering, Science And Management (ICAESM-2012)*	-	250-255	June 2012

12. Detail of Projects undertaken:

S.No	Name of PI and Co-PI	Title of the Project	Funding Agency	Status
1.	**Dr. B. Shakila (PI)** Dr. M. Prakash (Co-PI)	Development of Framework for Analysing Residential Load Pattern and Automatic Power Factor Correction Using Advanced Metering Infrastructure (AMI)	*TEQIP III (SEED GRANT PROJECT)* Sanction Amount Rs. 3 Lakhs	*Completed*
2.	Dr. M. Prakash (PI) **Dr. B. Shakila (Co-PI)**	Performance Evaluation of Different Routing Protocols for Wireless Sensor Networks in Smart Electric Grid Neighbourhood Area Network	*TEQIP III (SEED GRANT PROJECT)* Sanction Amount Rs. 3 Lakhs	*Completed*

13. Details of Ph.d Student Guided:

S.No	Name Scholar	Title of the Thesis	Status
1.	Ansar Shaik Satuluru	Renewable Energy based Micro-Grid System.	*Ongoing (2020 Registration)*
2.	Khwairakpam Chaoba Singh	Optimal sizing and Dispatch of Distributed Renewable Resources in Smart Grid.	*Ongoing (2021 Registration)*
3.	Suresh Kumar Mandala	Wireless Sensor Networks	*Ongoing (2021 Registration)*
4.	Pooja Bora	Energy Demand Forecasting	*Ongoing (2022 Registration)*

S.No	Name Scholar	Title of the Thesis	Status
5.	Sampatirao Nanibabu	Demand Side Management in Residential Smart grid.	*Ongoing (2022 Registration)*
6.	Papaiya Samanta	Machine Learning Algorithms for Health Care Applications.	*Ongoing (2022 Registration)*
7.	Rakesh Kumar	Integration of Distributed Renewable Resources in Smart Distribution Grid.	*Ongoing (2023 Registration)*

14. Details of PG Student Guided:

S.No.	Name of the Student with Registration No.	Title of the Project	Degree	Year of Passing
1.	Prodduturi Sesha Varun (2021331063)	Dynamic Economic Load Dispatch using Optimization Algorithm	M.Tech	2023
2.	Boda Kameswari (2020331053)	Energy Demand Prediction using Machine Learning Approaches	M.Tech	2022
3.	Sampatirao Nanibabu (2019331050)	A study on Impact of Renewable Energy Sources in the Power System Using Load Flow Studies	M.Tech	2021
4.	Sayed Afzal Ali (2018331044)	Incentive Based Demand Response Strategy for Operational Cost Minimization in Microgrid	M.Tech	2020
5.	Kaushik Saikia (2018331047)	Optimal Scheduling of Wind-Photovoltaic-Fuel Cell-Battery Based Micro-Grid System	M.Tech	2020
6.	Singh Ankit Brijpal (2017331037)	Combined Voltage and Frequency Regulation using PEV in Smart Distribution Grid	M.Tech	2019
7.	J Madhu (2016331027)	Peak Demand Reduction in Smart Grid Using Renewable Energy Sources	M.Tech	2018
8.	Maddikari Jagadeshwar (2015335018)	Automatic Power Factor Controller(APFC) in LABVIEW Environment	M.Tech	2017
9.	Suraj Kumar Khatkar (2014335010)	Smart Grid Simulation & Diversification of Demand Side Power Management	M.Tech	2016

15. Details of UG Student Guided:

S.No.	Name of the Student	Title of the Project	Degree	Year of Passing
1.	Maddiboina Sai Nikhil (2019103233)	Heart Disease Prediction using Machine Learning with Python	B.Tech	2023
2.	Abhishek Singh (2019103220)	Sign Language Recognition	B.Tech	2023
3.	Mayank Patel (2019103234)	Air Pollution Monitoring System	B.Tech	2023

S.No.	Name of the Student	Title of the Project	Degree	Year of Passing
4.	Iloto K Achumi (2019103229) Vikhedokho Sileo (2019103247)	Smart Blind Walking Assistance System	B.Tech	2023
5.	Vendra Sharone Rosy (2019103246)	Detection of Alzheimer's Disease using neural networks	B.Tech	2023
6.	Harshit Singh (2018103196)	Energy Trading and Risk Management using Ornstein-Uhlenbeck model	B.Tech	2022
7.	Himanshu Mishra Badal (2018103198)	Energy Forecasting using HWV and ARIMA model considering economtrics	B.Tech	2022
8.	Khekatoli Chishi (2018103203)	Study and Analysis of simple microgrid	B.Tech	2022
9.	M Chingshom (2018103207)	Maximum Power Point Tracking using Perturb and Observe Method	B.Tech	2022
10.	Chetan Anand (2017103168)	Multi area Load Frequency Control with PSO	B.Tech	2021
11.	Imtiwapang Jamir (2017103171)	Load Forecasting	B.Tech	2021
12.	Hokito Sumi (2017103169) Vigwe Nisa (2017103187)	Economic Load Dispatch	B.Tech	2021
13.	Saurabh Singh (2016103156) Medozhatou Kense (2016103152) Y Manphen Phom (2016103162)	Navigation of Mobile Robot using Fuzzy Logic Control	B.Tech	2020
14.	Febin John Sam (2015103135)	Optimization of Face Detection and Recognition System	B.Tech	2019
15.	Ahukato Chishi (2015103129) Gyanish Kumar (2015103136)	Wireless Sensor Network for Environmental Monitoring	B.Tech	2019
16.	Ekta Sharma (2015103134) Chandan Kumar (2015103131)	Solar Power Monitoring Using IoT	B.Tech	2019
17.	Radhe Shyam (2014103117) Nitish Kumar (2014103113)	Smart Home Automation	B.Tech	2018
18.	Prabhat Mishra (2013103099)	Home Automation	B.Tech	2017
19.	Manish Kumar Sharma (2011103040) H Yithule Krichena (2011103036)	Remote Monitoring of DC Motor Using SIM Module	B.Tech	2015
20.	Anubhaw Akhil (2010103003) Ram Swaroop (2010103018)	Power Generation by Installing Turbine Model in the River Bed	B.Tech	2014

16. Details workshop organized:

S.No.	Event Name with title	Duration	
		From	**To**
1.	AICTE sponsored Five Days Short Term Training Program on "Opportunities and Challenges of Collaborative Research in Higher Educational Institutions in India" - *Co-ordinator*	15th March 2021	19th March 2021
2.	TEQIP-III sponsored Five Days Workshop on "Recent Trends In Smart Grids" - *Co-ordinator*	24th February 2020	28thFebruary 2020
3.	Workshop on "Modern Power System Analysis And Its Simulation With ETAP" – *Co-ordinator*	19th August 2019	23rd August 2019
4.	TEQIP-III sponsored Five Days Workshop on "Optimization Techniques and Data Analytics Tools for Engineering Solutions" - *Co-ordinator*	09th April 2018	13th April 2018
5.	Workshop on "Industrial Automation Practical Exercises With PLC" - *Co-ordinator*	27th March 2018	31th March 2018

17. Any other Information (maximum 500 words)

IEEE Membership : 92196264

IIM Membership : 58117 (Lifetime Member)

IEI Membership : M 1774395 (Lifetime Member)

DECLARATION

I hereby declare that the information given above are true to the best of my knowledge and belief.

Place: Chumukedima
Date: 17/02/2024

Dr. B. Shakila