

BIODATA

1. Name: **Dr. ISRAFIL HUSSAIN**
2. Father's Name: MD SAKUR HUSSAIN
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9. Date of Birth: 28/02/1987
10. Educational Qualifications:



	Matriculation/HS LC	HSSLC/10+2	UG Degree	PG Degree	Ph.D.
Degree & Specialization		SCIENCE	ELECTRICAL & ELECTRONICS ENGINEERING	POWER & ENERGY SYSTEM	POWER & ENERGY SYSTEM
Year of Passing	2003	2005	2009	2011	2018
School/College	HZ. MOTHER AYESHA ENGLISH HIGH SCHOOL	SWADESHI ACADEMY	IACR ENGG. COLLEGE	NIT SILCHAR	NIT SILCHAR
University/Board	SEBA	AHSEC	BPUT	NIT SILCHAR	NIT SILCHAR

11. Area of Specialization: Power System Optimization & Control, Renewable Energy Systems, Autonomous Hybrid Power System & Smart Grid,
12. Work Experience

	Teaching	Research	Industry
No. of years	10+	4+	
Institution/Company	ROYAL GLOBAL UNIVERSITY		
Total No. of years	10+	4+	

13. **Project:** "Energy Auditing of Tea Estates of Assam (McLeod Russel-Monabarie Tea Estate and Amchong Tea Estate) followed by technical advice and training on energy saving audit data analysis and report generation " has been selected under **Collaborative Research Scheme of ASTU under TEQUIP-III program of MHRD funded by World Bank .**

14. Patent Published

- a. Title of the invention: “A hybrid approach for analyzing of early-stage detection and prevention of lung cancer using advanced machine learning and deep learning algorithms” PATENT APPLICATION PUBLICATION, Application No. 202331082502 INDIA.
<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

- b. Title of the invention: “PLANT LEAF DISEASE DETECTION USING COMPUTER VISION AND MACHINE LEARNING ALGORITHMS” PATENT APPLICATION PUBLICATION, Application No. 202431001745 INDIA.
<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

- c. Title of the invention: “NANOPARTICLES BASED CANCER MEDICATION DEVICE” PATENT APPLICATION PUBLICATION, Application No. 202331085356 INDIA.
<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

15. Number of Papers published in International Journal: **11**

S.No	Title with page number	Journal	ISSN/ ISBN No.	Whether peer reviewed. Impact factor, if any	Date and Year of Publication
1	Reactive power performance analysis of dish Stirling solar thermal diesel hybrid energy system Page No. 750-762	IET Renewable Power Generation	1752-1424	2.635	2017
2	Performance Analysis of Flower Pollination Algorithm Optimized PID Controller for Wind-PV- SMES-BESS 643-651	INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH	1309-0127	3.06	2017
3	Frequency Control Of An Isolated Hybrid Power System Using Particle Swarm Optimization Optimized PID 72-76	PJ. Biotechnol.	1812-1837	0.204	2017
4	Integrated Demand Side Management And Generation Control For Frequency Control Of A Microgrid Using PSO And FA Based Controller	INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH	1309-0127	0.898	2018
5	Plug in hybrid vehicle wind diesel autonomous hybrid power system frequency control using FA and CSA optimized controller	International Journal of System Assurance Engineering and Management	0975-6809		2018
6	FPA Optimized Controller for Frequency Control of Dish Stirling/Diesel/Fuel Cell/Energy Storage Based Autonomous Hybrid System	Springer Journal Learning and Analytics in Intelligent Systems	2662-3447		2020
7	Performance Evaluation of On-Grid Rooftop Solar PV System in GMCH, Guwahati, Assam	Springer Journal Electronic Systems and Intelligent	1876-1100	0.34	2020

		Computing			
8	Performance Assessment of Islanded Hybrid Power System with Different Storage Combinations using FPA Tuned Two Degree of Freedom (2DOF) Controller	Energies	1996-1073	2.7	2020
9	Effective Lighting and Load Management of Asia's Biggest Tea Estate— Monabarie pp 1055–1062	Springer Lecture Notes in Electrical Engineering book series (LNEE, Volume 711)	1876-1119		2021
10	Active power control of autonomous hybrid power system using two degree of freedom PID controller Pages 973-981	Science Direct Energy Reports	ISSN 2352-4847	6.8	2022
11	A Non-Classical Approach in Analyzing Student's Performance in Academics Using Fuzzy Logic Pages 3542-3549	Tuijin Jishu/Journal of Propulsion Technology	ISSN 1001-4055		2023

1. Number of papers presented/contributed in the Conferences/Seminars/Workshops at national level: **1**

Sl. No	Title of paper	Co-author(s), if any	Name of the Conference	Date & Year
1	Optimal Size and Location of Distributed Generations using Differential Evolution (DE) PAGE-57-61	Prof (Dr.) ANJAN KUMAR ROY	IEEE Conference Publication	2rd & 3rd March 2012

2. Number of papers presented/contributed in the Conference at international level: **02**

Sl. No	Title of paper	Co-author(s), if any	Name of the Conference	Date & Year
1.	Optimal Distributed Generation Allocation in Distribution Systems Employing Modified Artificial Bee Colony	Prof (Dr.) ANJAN KUMAR ROY	IEEE Conference Publication	30th & 31st March 2012

	Algorithm to Reduce Losses and Improve Voltage			
2.	A New Heuristic approach for Optimal Reconfiguration of distribution systems for improvement of power delivery efficiency through Loss Reduction PAGE - 571-576	Prof (Dr.) ANJAN KUMAR ROY	IEEE Conference Publication	30th & 31st March 2012

3. Awards, Profession membership, achievements in sports etc.

- Nominated for **Best Faculty** in Engineering Department at Royal Group of Institutes in 2012
- Won Council of Scientific and Industrial Research (CSIR) Award (1st prize) for Model Presentation
- Recognized for winning 2nd prize at VIT, Vellore for Model Presentation
- Attained 2nd prize for model Presentation at JITM, Paralekhamundi
- Achieved 2nd prize for Group Discussion (GD) in JITM, Paralekhamundi

Profession membership

- IAENG Member, Number: 123394
- ISTE Life Member, Number: 83194
- ISRD Life Member
- Institution of Engineers (I), Associate Member

Serapic Hussain

Date: 08-02-2024