

# RESUME

## Md Irfan Ahmed

Mobile: +91-8294759336, 7903433787

Email: irfannitp.ahmed@gmail.com

irfanmits.ahmed@gmail.com

ORCID Id: -<https://orcid.org/0000-0002-1173-5294>



### Objective

I want to associate myself with my knowledge, honesty and hardworking abilities to build a better society because I believe in 'A good teacher makes you think, even when you don't want to.'

### Strengths

My strengths are my strong heart and confidence. Failures do not depress me for long and I am confident that with my good teaching skills and positive attitude towards all can make knowledgeable society.

### Academic Profile

Examination	School/College	Board/University	Year of Passing	Percentage
Ph.D.	National Institute of Technology, Patna	NIT Patna	Thesis Submitted	8.76(CGPA)
M.Tech (Power System)	National Institute of Technology, Patna	NIT Patna	June 2014	8.24(CGPA)
B.Tech (EEE)	M.I.T.S, Rayagada, Orissa	Biju Patnaik University of Technology, Rourkela, Orissa	2009	6.7(CGPA)
12 <sup>th</sup>	St. Coulomb's College, Hazaribagh, Jharkhand	JAC, Ranchi	2004	60 %
10 <sup>th</sup>	St. Roberts High School Hazaribagh, Jharkhand	JSEB, Ranchi	2002	67 %

### Experience

- Worked as a **JE in Taurian resources pvt. Ltd** (from jan2010 to july 2010)
- Worked as an Assistant Teacher in Munam Public School, Hazaribag, INDIA (from 01/08/2010 to 01/07/2012)
- worked as **Head of the Department (Assistant Professor)** in Sityog Institute of Technology Aurangabad, INDIA (from 01/09/14 to 12/12/15)
- worked as Assistant Professor in Nilai Educational Trusts Group of Institutions Ranchi, INDIA (from 13/01/16 to 28/07/16)

- worked as Assistant Professor in **Career Point University KOTA**, Rajasthan, INDIA (from 30/07/16 to 30/04/19)

## Teaching Skills

- Power System - I
- Power System - II
- Power System Design
- Power System Protection
- Control System
- Electrical instrumentation and Measurement
- Basic Electrical and Electronics
- Teaching Software: - MATLAB, SCILAB, POWER WORLD SIMULATOR

## LAB Handle

- Control System
- Power System
- Basic Electrical Engineering
- Measurement
- Network Theory

## Training

- PLC Programming from IDTR Jamshedpur
- One week Short-Term Training on LASER: Principles & Applications at National Institute of Technical Teachers' Training and Research Kolkata
- Attend One week (12.06.17 to 16.06.17) short Term Course on Instructional Planning (Module-I) through ICT conducted by Education and Educational Management Department National Institute of Technical Teachers' Training and Research Chandigarh

## Workshop

- Attend 3 days' workshop cum awareness programme on Entrepreneurship Project
- Attend one day workshop on Robotics at Sityog institute of technology organized by OTS Science Centre New Delhi
- Attend three day workshop on personality development, soft skills & career guidance at Sityog institute of technology organized by Winning Virtues, Navi Mumbai
- Attend Two week workshop on Electric Power System organized by IIT kharagpur under NMEICT (MHRD, Govt. of India)
- Attend One day (15.04.17) workshop on Spy Botix at Career Point University, Kota Rajasthan organized by Techienest (Certificate of nVision, IIT Hyderabad)

- Attend Two day Event (22.09.17 to 23.09.17) on “Parikalpana- Renewable Energy Design challenge” organized by Department of Energy and Environment, Teri University, New Delhi
- Attend Two day Event (22.09.17 to 23.09.17) on “Drishtikon- Poster Presentation” organized by Department of Energy and Environment, Teri University, New Delhi
- Attend Two day Event (08.11.17 to 09.11.17) on “International conference on conservation and management of agricultural and natural resources: Strategies for food security in developing countries” organized by Career Point University, Kota, Rajasthan
- Attend One day (20.11.17) workshop on Industrial Automation at Career Point University, Kota Rajasthan organized by Vision world Tech Pvt. Ltd.
- Participated in “Founder-the B-Plan Competition” held in March 2019 by Entrepreneurship cell, JBIMS Mumbai

### MOOCs (Online Courses NPTEL/Coursera)

- Successfully completing the 8 week “**DC Microgrid**” NPTEL Course from Indian Institute of Technology, Roorkee
- Successfully completing the 4 week “**Accreditation of Post Graduate Engineering Programmes**” SWAYAM Course from NITTTR, Chennai
- Successfully completed the “**Wind Energy**” DTU course from Coursera on 14-May-2019, **Grade achieved:- 89.4%**
- Successfully completed the “**Energy: The Enterprise**” University at Buffalo course from Coursera on 15-May-2019, **Grade achieved:- 85.3%**
- Successfully completed the “**Safety in the Utility Industry**” University at Buffalo course from Coursera on 24-June-2019, **Grade achieved:- 87.5%**
- Successfully completed the “**Introduction to solar cells**” DTU course from Coursera on 03-June-2019, **Grade achieved:- 89.2%**
- Successfully completed the “**Introduction to the Internet of Things and Embedded Systems**” University of California, Irvine course from Coursera on 10-July-2019, **Grade achieved:- 92.5%**
- Successfully completed the “**Introduction to Thermodynamics: Transferring Energy from Here to There**” University of MICHIGAN course from Coursera on 13-August-2019, **Grade achieved:- 91.5%**
- Successfully completed the “**Natural Gas**” University at Buffalo course from Coursera on 23-June-2019, **Grade achieved:- 82.5%**
- Successfully completed the “**Motors and Motor Control Circuits**” University of Colorado Boulder course from Coursera on 09-June-2019, **Grade achieved:- 80.1%**
- Successfully completed the “**Electric Power Systems**” University at Buffalo course from Coursera on 06-May-2019, **Grade achieved:- 82.5%**
- Successfully completed the “**Understanding Research Methods**” University of London course from Coursera on 01-Nov-2019, **Grade achieved:- 100%**

- Successfully completed the **“Electric Industry Operations and Markets”** Duke University course from Coursera on 30-July-2019, **Grade achieved:- 91.8%**
- Successfully completed the **“Photovoltaic Solar Energy”** ECOLE POLYTECHNIQUE course from Coursera on 14-May-2019, **Grade achieved:- 91.8%**
- Successfully completed the **“Electric Utilities Fundamentals and Future”** University of Colorado Boulder course from Coursera on 14-May-2019, **Grade achieved:- 85.7%**
- Successfully completed the **“How to Write and Publish a Scientific Paper (Project-Centered Course)”** ECOLE POLYTECHNIQUE course from Coursera on 16-July-2019, **Grade achieved:- 91.0%**
- Successfully completed the **“Foundations of Teaching for Learning: Introduction to Student Assessment”** COMMONWEALTH EDUCATION TRUST course from Coursera on 27-June-2019, **Grade achieved:- 88.3%**
- Successfully completed the **“Work Smarter, Not Harder: Time Management for Personal & Professional Productivity”** University of California, Irvine course from Coursera on 22-June-2019, **Grade achieved:- 89.7%**
- Successfully completed the **“Robotica”** Universidad Nacional Autónoma de México course from Coursera on 18-June-2019, **Grade achieved:- 100%**

## Webinar

- Successfully completed the Webinar on **“Co-Simulation Based Assessment Methods”** Conducted by Erigrad Connecting European Smart grid Infrastructures on 09-April-2019
- Successfully completed the Webinar on **“Changes to IEEE 1584 Standards, 2018 Edition: How to perform Arc-Flash Hazard Calculations (0.1 CEUs)”** Conducted by Grace Engineered Products on 17-April-2019
- Successfully completed the Webinar on **“Hybrid-Electric Air-Vehicle Propulsion: Challenges, Opportunities, and Impact”** Conducted by IEEE on 23-April-2019
- Successfully completed the Webinar on **“Wide Band Gap Circuit Optimisation and Performance Comparison”** Conducted by IEEE on 03-September-2019
- Successfully completed the Webinar on **“The Cascaded Resonant Converter: A Hybrid Switched-Capacitor Topology with High Power Density and Efficiency”** Conducted by IEEE on 24-October-2019
- Successfully completed the Webinar on **“LIVE: Electrical Safety Panel Discussion (0.20 CEUs)”** Conducted by Grace Engineered Products on 29-October-2019

## Faculty Development Programme

1. Participated in the faculty development programme on Robotics & Control (RoboCon)-2020 organized by National Institute of Technology Silchar, sponsored by TEQIP III

2. Successfully completed the online international short-term course on “Microgrid Opportunity: Renewable Energy Resources and Buildings” organized by Dayalbagh Educational Institute, Dayalbagh, Agra, India, sponsored by TEQIP III
3. Participated in the online Short-Term Training Program (Sponsored by TEQIP-III) on “Power Electronics Applications to Industrial Systems” organized by Electrical Engineering Department, National Institute of Technology (NIT) silchar, Assam
4. Successfully completed the online international short-term course on “Recent trends in microgrid” organized by Electrical Engineering Department, National Institute of Technology Jamshedpur, 2020

## Computer Skills

**Operating system** : Windows7, Windows XP, DOS

**Programming Languages** : Elementary knowledge of 'C' & C++

**Packages:** Ms-Office (Word, PowerPoint, Excel)

- 3 Month Office Assistant Course from Bhartiya Vidya Bhavan Gandhi Institute of Computer Education and Information Technology

## GATE Qualified

GATE qualified in 2012 with 97 percentile and GATE Score 503

## Projects

1. Energy saving system with visitor counter (B.Tech)
2. Optimal placement of DG in deregulated power system using RBF (M.Tech)

## Research Paper

1. MD Irfan Ahmed, Ramesh Kumar, A systematic review on optimal placement of CHP, Smart Science, 2022, <https://doi.org/10.1080/23080477.2022.2063528>
2. MD Irfan Ahmed, Ramesh Kumar, Locational marginal price based optimal placement of DG using stochastic radial basis function, International Journal of Ambient Energy, 2022, <https://doi.org/10.1080/01430750.2022.2142287>
3. MD Irfan Ahmed, Ramesh Kumar, Nodal Electricity Price Based Optimal Size and Location of DGs in Electrical Distribution Networks Using ANT LION Optimization Algorithm. Distributed Generation & Alternative Energy Journal, 38(01), 111-140, 2022. <https://doi.org/10.13052/dgaej2156-3306.3816>
4. MD Irfan Ahmed, Ramesh Kumar, Nodal Electricity Price Forecasting using Exponential Smoothing and Holt's Exponential Smoothing, Distributed Generation & Alternative Energy Journal, 2022 (**Accepted**).

5. Dr. Naiyer Mumtaz, Md Irfan Ahmed, Dr. Farhad Ilahi Bakhsh, Assessment of Solar-Biomass in India: Case Study of Ranchi, India, Strategic Planning for Energy and the Environment, 2023 **(Accepted)**.
6. Md Irfan Ahmed, Saket Saurabh, 2014, DC-OPF for LMP Calculation in Wholesale Electricity Market, International Journal of Engineering Research & Technology (IJERT) Volume 03, Issue 08, August 2014.
7. Kripa Shanker, Md Irfan Ahmed, 2014, Intelligent Numerical Differential Protection of Power Transformer using DWT and ANN, International Journal of Engineering Research & Technology (IJERT) Volume 03, Issue 08, August 2014.

## Conference Paper

1. M. I. Ahmed, P. Pan, R. Kumar and R. K. Mandal, "Wind Generation Forecasting Using Python," 2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), 2020, pp. 1-5, doi: 10.1109/ICEFEET49149.2020.9186963.
2. M. I. Ahmed and R. Kumar, "A Distributed Generation Framework using SWOT Analysis," 2022 2nd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), 2022, pp. 1-5, doi: 10.1109/ICEFEET51821.2022.9847852.
3. J. Gautam, M. I. Ahmed and P. Kumar, "Optimization and Comparative Analysis of Solar-Biomass Hybrid Power Generation System Using Homer," 2018 International Conference on Intelligent Circuits and Systems (ICICS), 2018, pp. 397-400, doi: 10.1109/ICICS.2018.00087
4. Sharma, Aditya, Manyu Saini, and M. Ahmed. "Power flow analysis using NR method." International Conference on Innovative Research in Science, Technology and Management, Kota, Rajasthan, India. 2017.
5. I. Ahmed, S. Saurabh and R. Kumar, "GA Based Optimal STATCOM Placement for Improvement of Voltage Stability," 2020 International Conference on Renewable Energy Integration into Smart Grids: A Multidisciplinary Approach to Technology Modelling and Simulation (ICREISG), 2020, pp. 43-48, doi: 10.1109/ICREISG49226.2020.9174210.
6. Saurabh, S., Ahmed, M. (2018). Optimization Method for Unit Commitment in High-Level Wind Generation and Solar Power. In: Bera, R., Sarkar, S., Chakraborty, S. (eds) Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering, vol 462. Springer, Singapore. [https://doi.org/10.1007/978-981-10-7901-6\\_17](https://doi.org/10.1007/978-981-10-7901-6_17)
7. Ahmed, M.I.; Saurabh, S.; Shrivastava, L.; Gaur, A.K. Renewable energy based on deregulated electricity market. Energy 2017, 50, 15–86.

## Book Published

1. UPKAR PRAKSHAN  
Book Title – **Interview Questions with Solutions for Electrical Engineers**

## Board Member of National and International Journal

1. Board Member in International Association of Engineers (IAENG)
2. Board Member in IAENG Society of Electrical Engineering

## **Reviewer of National and International Journals**

1. Reviewer at Computer and Electrical Engineering, Elsevier Journal.
2. Reviewer at Electric Power Systems Research, Elsevier Journal.
3. Reviewer at Electric Power Systems Research, Elsevier Journal.
4. Reviewer at Sustainable Energy, Grids and Networks (SEGAN), Elsevier Journal.
5. Reviewer at Cleaner Engineering and Technology, Elsevier Journal.
6. Reviewer at International Journal of Systems Assurance Engineering and Management, Springer Nature.
7. Reviewer at Journal of The Institution of Engineers (India): Series B, Springer Nature.
8. Reviewer in International Journal of Research and Technology, India
9. Reviewer in IEEE Texas Power and Energy Conference 2020.

## **Examiner in S.B.T.E. Jharkhand**

- Examine the 5<sup>th</sup> Semester Diploma Annual Exam copy
- Examine the 3<sup>rd</sup> Semester Diploma Annual Exam copy

## **Guided B.Tech Minor And Major Project**

- Guided four students on Topic "OPTIMAL SYSTEM OPERATION USING MATLAB"
- Guided four students on Topic "Load Flow Analysis Using NR Method"
- Guided four students on Topic "Optimum Loading of Generators Using MATLAB"
- Guided four students on Topic "Optimal Power System Operation Using MATLAB"
- Guided four students on Topic "Optimal Power System Operation Using PSO Technique"
- Guided four students on Topic "UNIT Commitment In Renewable Energy Resources Using GA"
- Guided five students on Topic "D.O.L Starter"
- Guided Four students on Topic "Speed control of DC motor using single switch"
- Guided three students on Topic "ARDUINO based Automated platform using GSM and RFID"
- Guided three students on Topic "ARDUINO based underground cable fault detection"
- Guided three students on Topic "INVERTER using GTO ( MATLAB SIMULATION)"
- Guided two students on Topic "Direct On-Line and Star delta Starter for Induction Motor"
- Guided two students on Topic "Wireless Hand Gesture Based Helping Robot"
- Guided three students on Topic "Load Frequency Control and voltage control for single area and double area power system through programming on workspace and simulation model in MATLAB"
- Guided three students on topic "To Design Solar (photovoltaic) - Wind Hybrid Power Generation System"
- Guided three student on topic "Solar Tracking Robot Based on Agriculture"

## **Guided M.Tech Minor/Major Project**

- Guided one student on Topic "Wind Diesel Hybrid System"
- Guided one student on Topic "Optimization and Comparative Analysis of Solar-Biomass Hybrid system using Homer Software".

- Guided one student on Topic “Passive cooling of ventilation air for conditioning in small domestic application through earth air heat exchanger: An experimental approach”
- Guided one student on Topic “Hybrid Control of Power using Wind and Solar Power”
- “Solar (Photovoltaic)- Wind hybrid power generation system using MATLAB Simulation”

### Extra Activity

- GATE Preparation Committee member in SITYOG Institute of Technology
- Discipline Committee member in SITYOG Institute of Technology
- Robotics Club in charge in Career point university, Kota Rajasthan
- Project in charge in Career point university, Kota Rajasthan
- Expert Lecture coordinator in Career Point University, Kota Rajasthan

### Interests

- Learning Software
- Playing Cricket

### LANGUAGES KNOWN

- Hindi (Speak, read and write)
- English (Speak, read and write)
- Urdu (speak and understand)

### Personal Information

- Date of Birth : 5th Nov 1987
- Father’s Name : Md Nisar Ahmed
- Mother’s name : Shabana Khatoon
- Marital Status : Married
- Sex : Male
- Nationality : Indian

### Permanent Address :-

S/O Nisar Ahmed  
Matwari Kumhar Toli  
Ward No. 27  
Hazaribagh  
Jharkhand  
Pin no: - 825301  
Ph.No: - 8294759336

### Declaration

I hereby declare that all the statements made herein are true to best of my knowledge and belief.

Date: 05-06-2023

Place: Patna

**Md Irfan Ahmed**