



Department of Electrical & Electronics Engineering,
School of Technology
Maulana Azad National Urdu University (Central University)
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MD SABIR HASSAN | LECTURER

CURRENT DESIGNATION/ INVOLVEMENT

Currently working as a **Lecturer** in Department of Electrical and Electronics Engineering, Polytechnic Cuttack, School of Technology, Maulana Azad National Urdu University (Central University), Hyderabad, Telangana, India.

AREA OF SPECIALIZATION

Artificial intelligence and machine learning
Expertise in exploring artificial intelligence in renewable energy

ONGOING ACADEMIC RESEARCH/PROJECTS

Research work continues to “advancements in solar energy technologies, making them more efficient, affordable, and accessible”
Research in machine learning and deep learning focuses on developing algorithms and models that enable computers to learn from data and make accurate predictions or decisions

INNOVATION WITH FIELD OF STUDY AND COLLABORATIVE EFFORTS

Designed AI based MPPT algorithms for solar power tracking in dynamic conditions

ACADEMIC AND ADMINISTRATIVE EXPERIENCE

- 3 years of teaching experience
- Have been teaching various electrical engineering subjects and taking Labs for Diploma courses and also taken B.Tech Lab during M.Tech.
- Sports & Yoga In Charge
- Lab In Charge for Electrical Circuit Lab
- Administrative experience (various responsibilities)
- Lab Establishment at MANUU Polytechnic Cuttack-EEE Dept. / other common labs
- Member Maintenance Committee
- NAAC Coordinator
- Member Training & Placement Committee
- Mentor for students
- Polling and counting officer during MSU

EDUCATIONAL QUALIFICATION

- **MASTER OF TECHNOLOGY (M.TECH), 2018**
- Electrical Department, National Institute of Technology, NIT- Hamirpur, Himachal

Pradesh

▪ **BACHELOR OF TECHNOLOGY (B.TECH), 2014**

Electrical Engineering Department, Darbhanga College of Engineering, Bihar

TEACHING PROFICIENCY

- Good knowledge of core Electrical Engineering Subjects like Electrical Machines, Electrical Circuits, and Control systems.
- Very proficient in explaining technical aspects in simple terms.
- Making lucid use of latest teaching techniques like demonstrating videos, animations or ppt.
- Exploring laboratories for practical based learning.

RESEARCH PUBLICATION [1]
DETAILS

Hassan M.S., Mughil S.N., Jarial R.K., Sood Y.R. (2019) A Comparative Analysis of Different Maximum Power Point Tracking Algorithms of Solar Photovoltaic System, Applications Computing, Automation and Wireless Systems in Electrical Engineering. Lecture Notes in Electrical Engineering, vol 553. Singapore.pp.217-229 (Print ISBN 978-981-13-6771-7; Online ISBN 978-981-13-6772-4) [SCOPUS INDEXED]

[2] Mughal, S.N., Hassan, M.S., Sood, Y.R., Jarial, R.K. (2022). Modelling and Performance Analysis Using Fuzzy Logic MPPT Controller for a Photovoltaic System Under Various Operating Conditions. In: Tomar, A., Malik, H., Kumar, P., Iqbal, A. (eds) Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication. Lecture Notes in Electrical Engineering, vol 915. Springer, Singapore. https://doi.org/10.1007/978-981-19-2828-4_30

[3] M. S. Hassan, M. Ehtesham, A. Haq, M. Jamil (2022). Enhanced AI Based FLC MPPT Algorithm and its Comparative Analysis with P&O. ", International IEEE Conference on Recent Advances in Electrical, Electronics, and Digital Healthcare Technologies2023 (REEDCON-2023), 1-3 May, 2023, Jamia Millia Islamia, New Delhi (Under Publication)

DETAILS OF
CONFERENCE/SEMINAR
/WORKSHOP/ FDP
(ATTENDED/PRESENTED)

1. Present Paper online on topic, "Enhanced AI Based FLC MPPT Algorithm and its Comparative Analysis with P&O", International IEEE Conference on Recent Advances in Electrical, Electronics, and Digital Healthcare

Technologies2023 (REEDCON-2323), 2023, 1-3 May, Jamia Millia Islamia, New Delhi (Under Publication)

2. One week online short term course on “Recent Innovations and Technologies in Electric Vehicles” from 8/6/2020 to 12/6/2020, organized by Department of Electrical and Electronics Engineering GATES Institute of Technology, AP.
3. One week online Faculty Development Program (FDP) on “Research Orientations in Engineering with effective Outcomes”, organized by the Department of Electrical & Electronics Engineering, KIET Group of Institutions, Ghaziabad, during 26th to 30th July 2020.
4. One week online Faculty Development Program (FDP) on “Python 3.4.3 & Python DJANGO”, organized by the Department of Computer Science & Engineering, CMR Engineering College, Hyderabad in association with IIT Bombay, during 08th to 13th June 2020.
5. Online short term course on “Learn to Design your own Solar Home System” organized by Energy Swaraj Foundation in association with National Institute of Technical Teachers' Training and Research, Kolkata, on 13 Aug 2020.
6. One week online Faculty Development Program (FDP) on “Emerging Trends in Electromechanical System, and Renewable Energy”, organized by the Department of Mechanical Engineering, NIT Dehli, during 10th to 14th March 2021.
7. Present Paper on topic “A Comparative Analysis of Different Maximum Power Point Tracking Algorithms of Solar Photovoltaic System”, Applications Computing, Automation and Wireless Systems in Electrical Engineering. Lecture Notes in Electrical Engineering. vol 553. Singapore.pp.217-229 (Print ISBN 978-981-13-6771-7; Online ISBN 978-981-13-6772-4)
8. Online webinar on “Operating Modern Power System under Uncertainty” organised by PES India Chapters Council, in association with PES-IAS Chapter, IEEE Pune Section and Department of Electrical Engg., PVG’s COET & GKPIIM, Pune held on 22nd May 2021.
9. One Day Online Interaction Programme - Guftagu with Mr. Quaiser

Khalid, IPS on Creating Congenial Environment for Competitive Exams in Educational Institutions organised by School of Education & Training, Maulana Azad National Urdu University, Hyderabad on 25th September 2021.

10. One week workshop on “Real Time Simulation in Electrical Domain using Typhoon HIL and MATLAB Simulators (RTSED-2017)”, organized by the Department of Electrical Engineering, NIT Hamirpur, during 3rd-8th Oct 2017.

DETAILS OF KEYNOTE
SPEAKER/RESOURCE
PERSON/ SESSION CHAIR ETC.

1. Resource Person as speaker in Deeksharambh Student Induction Programme-2022, on topic “Society (Participation In Society)”, organized by Maulana Azad National Urdu University from 31st Oct. to 5th Nov. 2022.
2. Resource Person as speaker in Pre-Placement Programme-2021, on topic “Personality Development and Mock group Discussion”, organized by Maulana Azad National Urdu University from 12 March to 3 April 2021.
3. Resource Person as speaker in Deeksharambh Student Induction Programme-2020, on topic “Safety Management”, organized by Maulana Azad National Urdu University from 16th to 17th Nov. 2020.

ACHIVEMENTS

1. Obtained certificate of achievement in international level online quiz on “Electrical Machine and its Applications” on 6/5/20 conducted by Electrical Engineering Department, O P Jindal University with a score of 67%.
2. Cracked the GATE exam multiple times viz. 2015, 2018, 2021, 2023 with prestigious GATE score.
3. Successfully cleared 2 times the examination of Bihar Public service Commission for Assistant Professor in 2021 and 2022.
4. Successfully cleared the examination of Ghani Khan Choudhury Institute of Engineering and Technology (A CFTI under the Ministry of Education, Govt. of India) for Assistant Professor in 2021.
5. Successfully cleared the examination of Bharat Electrical Limited (BEL) in

2018.

6. Achieved first place in the Matriculation Examination at school.

DETAILS OF SUPERVISION Supervise diploma students in industrial training and their project.

PROFESSIONAL MEMBERSHIPS ▪ **IEEE MEMBERSHIP 94087071**

PERSONAL DETAILS

Father's Name : MD NAJIB HASSAN
Date of Birth : 05/12/1992
Gender : MALE
Marital Status : UNMARRIED
Nationality : INDIAN
Language Known : URDU, HINDI, ENGLISH
Etc..

Date:

Place: Cuttack

(Md Sabir Hassan)

[Last update on: 05th September 2019]