

**Name: Tawsif Hossain Chowdhury**

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**Academic Qualifications:**

Sl #	Name of Degree	Institution	Board	Major	Passing Year	Result/CGPA
1.	M.Sc. Engg.*	University of South Wales, UK	N/A	Renewable Energy & Resource Management	2017	N/A
2.	B.Sc. Engg.	American International University-Bangladesh (AIUB), Bangladesh	N/A	EEE	2012	3.83/4.00

\* Received **Commonwealth Shared Scholarship** for the M.Sc. program.

**Tenure of Teaching/ Industrial Job:**

**Full-Time Experiences:**

Sl #	Position	Department	University/Institute	Start	End	Length of Service
1.	Lecturer	Electrical & Electronics Engineering (EEE)	Southeast University, Bangladesh	10.09.2018	continuing	-
2.	Project coordinator	Transmission	Robi Axiata Ltd.	01.02.2016	10.09.2016	8 month
3.	Assistant Manager	Operations	Sheba ICX, Bangladesh	1.09.2012	1.2.2016	3 yr 4 month

**Research Publications:**

**(a) Thesis:**

- M.Sc. Engg. Thesis: **Performance Analysis of DVB-T2 using MIMO-OFDM Technique.**
- B.Sc. Engg. Thesis: **Enhancing methane yield and biodegradability of thermally hydrolysed sewage sludge using recovered nutrients from thermally hydrolysed & sanicated digestates**

**(b) Journal Papers:**

- [1] **Chowdhury, T.H.**, 2021. Technical-Economical Analysis of Anaerobic Digestion Process to Produce Clean Energy. *Energy Reports-Elsevier*, 7, pp.247-253.  
DOI: <https://doi.org/10.1016/j.egy.2020.12.024>

- [2] **Chowdhury, T.H.**, “Overview of Pumped Hydroelectricity Storage System to Produce Clean Energy”, *Southeast University Journal of Electrical and Electronic Engineering*, ISSN: 2710-2130, Vol.1, No. 1, 2021.
- [3] Islam, M, Rahmam H., Ahmed S., **Chowdhury T.H.\***. “Analyzing and Optimizing the Orientation of Solar Cells Using Helioscope Technology”. *International Journal of Advanced Research and Review*, ISSN: 2455-7277, Vol. 5, No. 5, 2020.
- [4] Mamun A. A., Rashid M., **Chowdhury T.H.\***, “A Thorough Analysis of PV Solar Based Microgrid System for Rural Electrification Using HOMER Pro”. *Southeast University Journal of Science and Engineering*, ISSN: 1999-1630, Vol. 13, No. 2. 2019.
- [5] **Chowdhury, T.H.**, “Performance Evaluation of Three Stage Integrated Anaerobic Process for Waste Treatment to Produce Biogas”. *Southeast University Journal of Science and Engineering*, ISSN: 1999-1630, Vol. 13, No. 1, 2019.
- [6] **Chowdhury, T.H.**, Amin, R., Khoshnaw, S., “Technical Analysis of Hydrogen Energy Production”, *American Journal of Renewable and Sustainable Energy*, ISSN: 2381-7445, Vol.4, No.3, 2018.
- [7] **Chowdhury, T.H.\***, Razzaque S. E., Sultana, A., ‘Performance Analysis of DVB- T2 using MIMO-OFDM Technique’, *International Journal of Computer Applications*, ISSN: 0975-8887, Vol. 69, No. 20, 2013. DOI: [10.5120/12086-8050](https://doi.org/10.5120/12086-8050)

#### **Teaching Competences:**

- 1) Expert in cognitive teaching
- 2) Expert in laboratory experimental works
- 3) Expert in numerical computation

#### **Teaching Interests:**

- 1) Renewable Energy
- 2) Energy Conversion
- 3) Power System
- 4) Electronics

#### **Research Areas:**

- 1) Renewable Energy (Solar Cell)
- 2) Waste Management (Waste to Energy)
- 3) Power system and operation (Micro Grid)

#### **Funded Project/Development Works:**

1. Received GBP 1,000 fund from Commonwealth Commission, UK for research work.

#### **Training Received:**

- [1] Received a 5 days’ training on “**Teaching-Learning, Curriculum & Quality Assurance**” from 23<sup>th</sup> Sept, 2018 to 27<sup>th</sup> Sept, 2018, organized by the IQAC of Southeast University.
- [2] Participated in an International Workshop on the “**ABET Assessment Process of Capstone Design Project**” organized by the EEE Department of Southeast University on 12 September 2020 through the Zoom Platform. The resource person was Dr. Kala Meah, Associate Professor of York College of Pennsylvania, USA.

**Extra-Curricular Activities:**

- [1] Member of promotion and branding committee for EEE dept.
- [2] Working as a member of Exam Committee of EEE Department of SEU from 2018.
- [3] Working as an advisor of two student groups.
- [4] Working as a member in a renewable energy research cell at SEU (EEE- dept) from 2018.

**Industry Visits:**

- [1] Visited the **‘Wales Water-Water treatment plant, Wales’** with the renewable energy department of University of South Wales, UK in 2016.
- [2] Visited the **‘Ashuganj Power Station Company Limited, Bangladesh’** in 2010.