

Dr. Md. Shameem HossainEngineering and Polymer ScienceAssociate ProfessorSylhet, Bangladesh in 2009. MResearch AreaPh.D. Reseach EnergyClean Energy, Structured cataTechnology Chemical Engineering & Polymerto Energy, Biomass to energy.Science

### **Biography**

Welcome to my official webpage! I am Dr. Md. Shameem Hossain, currently working as an Associate Professor in the Department of Energy Science and Engineering at Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh. I have received my Ph.D. degree in Department and Environment and Energy Systems (Chemical Engineering lab) from Shizuoka University, Hamamatsu, Japan in 2023. I obtained my M.Sc. Eng. in Energy Technology from Khulna University of Engineering & Technology (KUET),Khulna in 2015. I completed my B.Sc. in Chemical Engineering and Polymer Science from Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh in 2009. My research interests include Energy Conversion, Alternative Energy, Clean Energy, Structured catalyst, Methanation, Applied catalyst, Utilization of CO2,Biofuels,Waste to Energy. Biomass to energy.

# **Education**

#### Ph.D. in Engineering

Shizuoka University, Hamamatsu, Japan (2019-2023)

Thesis Title: A study on CO2 methanation performance with co-feeding oxygen using structured catalyst system

M.Sc. Eng.

 $Khulna\ University\ of\ Engineering\ \&\ Technology\ (KUET), Bangladesh ((July, 2012-2015)$ 

Thesis Title: Extraction of Liquid Fuel from Pyrolysis of Waste Tyres with Catalyst.

B.Sc. Eng.

Shahjalal University of Science & Technology(SUST), Bangladesh(2003-2009)

HSC

Kustia Govt. College, (2002) Group: Science,

SSC

Dhal Gram High School, (2000) Group: Science,

#### **Service Records**

• Assistant Professor

Department/Section: Department of Energy Science and Engineering

Khulna University of Engineering & Technology (KUET) From to

Working Area: Energy Conversion, Alternative Energy, Clean Energy, Structured Catalyst, Methanation, Applied Catalyst, Utilization of CO2, Biogas, Biofuels, Waste to Energy, CCU

Lecturer

**Department/Section:** Department of Energy Science and Engineering **Khulna University of Engineering & Technology (KUET)** From to

Sr. Engineer (Shift in Charge)
Department/Section: Operation
Petromax Rfinery Ltd. From to
Working Area:Operation

Sr. Engineer

**Department/Section:** Production and Quality Controller

Dae Dong Chemical Industries Ltd. From to

Responsibility:1. Manage & Supervision of overall production process. 2. Producing high quality textile auxiliary chemicals (e.g. Soaping agents, sequestering agents, leveling agents, peroxide killer, anti-crease and dispersing agents) 3. Checking and controlling the quality of products (Brix, pH, TDS, Conductivity, Acidity, Appearance) 4. Handling all kinds of process & laboratory equipments and production problems (IR Dyeing machine, Reactor, Boiler, Motor, Refractometer meter, Water bath shaker, Forced Convection Oven, , pH meter, Conductivity meter, TDS meter etc.) 5. Performing all types of lab testing, physical testing, chemical testing, routine and specialized chemistry analysis, managing laboratory resources, maintaining instrumentation integrity and all lab equipment properly.

• : Production Engineer (Research & Development)

Zaber & Zubair Fabrics Ltd, Noman Group From to

Working Area: Home Textile (Weaving) Dyeing processing.

Responsibility: "¶Ensure of all physical & chemical testing in dyeing processing department "¶Control cost of chemical & fabrics wastage by proper parameter setting. "¶Set up actual chemical dosages system &check up manually if any trouble that shoot up eventually. "¶Ensure compliance of operation with ISO 9000 standard and company policy. "¶Train up employee about Health, safety& hazard weekly. "¶Assess & ensure Quality of incoming raw materials, intermediate and finished products as per standard

: Trainee Engineer

 $\textbf{Department/Section:} \; (\text{Lab \& QC})$ 

RFL Plastic Itd From to

### **Research Interest**

#### Ph.D. Reseach

Utilization of CO2, Clean Energy, Structured catalyst, Methanation, Applied catalyst

## **Energy Technology**

Waste Mangement, Process Control, Petrochemical, Pyrolysis, Solar energy, Bio- energy,

"Extraction of Liquid Fuel from Pyrolysis of Waste Tyres with Catalyst.(M.Sc Engg.)

**Chemical Engineering & Polymer Science**Biofuel, Polymer , Fuel cell, Non- Conventional Energy

Bio Gas from Municiple Solid Waste (B.Sc Engg.)