

Dr. Md Rahat Mahboob

Assistant Professor

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- **Total Teaching Experience:** About 2 Years (with continuation)

EDUCATION

- **Ph.D. (Engineering)** in 2017 from Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, India.

RESEARCH

RESEARCH AREA: Instrumentation and Measurement, Chemical Sensor (Porous Alumina), Signal Processing, Wireless measurement, Wearable Devices, IoT

RESEARCH PUBLICATIONS:

Papers in International Journal: 05

Papers in International conference: 05

COURSES TAUGHT

Power System

Power System Protection

Instrumentation and Measurement

Basic Electrical Engineering

SCHOLARSHIPS RECEIVED

- MANF, UGC for Ph.D.
- MHRD GATE SCHOLARSHIP.

REVIEWER OF RESEARCH PAPERS:

1. **IEEE Sensors Journal.**
2. **IEEE Transaction on Instrumentation & Measurement.**
3. **International Journal S2IS**

INVITED TALK **1. BIT Mesra, Jharkhand**
2. Integral University, Lucknow

PATENT PUBLISHED

Wireless Tag for Capacitive Humidity Measurement (Patent published in The Patent Office Journal, India on 19/02/2016, Journal no. 08/2016) Name of inventors 1) **Md Rahat Mahboob** 2) Dr. Tarikul Islam 3) Asim Siddiqui

LIST OF PUBLICATIONS

International Journals/Transaction

- **M. R Mahboob**, M. Manas, M. N Anwar, A. Sinha, S. Sharma “A Novel approach for IoT based Wearable Health Monitoring and Messaging System” **Journal of Ambient Intelligence and Humanized Computing, Springer, (Accepted) August 2018.**
- A. Siddiqui, **M. R Mahboob**, T. Islam “A Passive Wireless Tag with Digital Readout Unit for Wide Range Humidity Measurement” **IEEE Transaction on Instrumentation and Measurement**, Vol. 66 (5), pp. 1013-1020, May 2017.
- **M. R. Mahboob**, Z. H. Zargar, T. Islam “A Sensitive and Highly Linear Capacitive Thin Film Sensor for Trace Moisture Measurement in Gases” **Sensors & Actuator B, ELSEVIER**, Vol. 264, pp. 658-664, June 2016.
- T. Islam, **M. R Mahboob**, S. A. Khan “A Simple MOX Vapor Sensor on Polyimide Substrate for Measuring Humidity in ppm Level”, **IEEE Sensors Journal**, Vol. 15 pp. 3004-3013, 2015.
- T. Islam, **M. R. Mahboob**, S. A. Khan, L. Kumar, “A Single Chip Integrated Sol-Gel Thin Film LC Sensor for Measuring Moisture in ppm Level ”, **IEEE Sensors Journal**, Vol. 14 pp. 1148-1153, 2014

International Conference

- **M. R Mahboob**, T. Islam, L. Kumar, “A low cost setup to study the temperature effect of humidity sensor, **12th Int. Conference on Sensor Technologies & Application, SENSORCPMM 2018**, Venice Italy, **Sep 2018.**
- A. Sinha, S. Sharma, **M. R Mahboob**, “An IoT based Prototype for smart appliance control” IEEE Conference, 2017, Galgotia University, New Delhi
- **M. R. Mahboob**, T. Islam and M. A. Khan, "A semi flexible integrated wireless humidity sensor," 2015 **IEEE International Conference (INDICON)**, New Delhi, India, 2015, pp.1-5.

- A. Siddiqui, **M. R Mahboob**, A. U. Khan, S. A. Khan, T. Islam, D.T. Shahani, “A Highly Sensitive Readout Circuitry for a Wide Range Thin Film Capacitive Humidity Sensors” **IEEE International Conference** on ET2ECN, pp.1-5, 26-27 Dec. 2014.
- **M. R. Mahboob**, T. Islam, Z. H Zargar, S. A. Khan “A Low Cost Polyimide based Metal Oxide Film RH Sensor”, **IEEE International Conference** on Industrial and Information Systems (ICIIS), pp.1-5, 15-17 Dec. 2014.
- **M. R. Mahboob**, Z. H. Zargar, L. Kumar, T. Islam, “Enhancing the sensitivity of thin film moisture sensor in ppm range”, International Conference, **ICAMET**, Shibpur, 2014.