



Department of Freshman Engineering

Faculty Profile

Name : Mr. Md Saiful Islam
Designation : Assistant Professor (ECE)
Qualification : M. Tech (IE), Ph.D. pursuing
Total : 10 years
Experience
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Publications:

1. Rhea Patel, Md Saiful Islam, Naresh Mondal, Bidhan Pramanick, "Non-faradaic electrochemical impedance spectroscopy analysis of C-MEMS derived bio-modified glassy carbon electrode" Journal of Micromechanics and Microengineering 32 (8), 084001, <https://doi.org/10.1088/1361-6439/ac78bf>
2. Rhea Patel, Md Saiful Islam and Bidhan Pramanick, "Biosynthesized AgNP modified Glassy Carbon Electrode as a label-free non faradaic impedance sensor for bacteria detection," 2022 IEEE 22nd International Conference on Nanotechnology (NANO), Palma de Mallorca, Spain, 2022, pp. 515-518, <https://doi.org/10.1109/NANO54668.2022.9928698>

Presentations in International Conferences:

1. Rhea Patel, Naresh Mondal, Md Saiful Islam, Bidhan Pramanick, “Non-faradaic electrochemical impedance spectroscopy study of a C-MEMS derived glassy carbon bio-modified electrode” – in C-MEMS 2021, the conference held on 13th, 14th and 15th September 2021.

PROJECTS AND SEMINARS UNDERTAKEN

1. Project completed “**Study of Breakdown Strength and Partial Discharge of Hybrid Nanocomposite for High Voltage Insulators.**”
2. Mini Project completed “**Intelligent Door Locking Using Face Reorganization for Car.**”
3. Mini Project completed “**Simulation of Electrokinetic Valve for Ion Separation using COMSOL Multiphysics.**”
4. Project completed “**Developing an aptamer-based plant pathogen detection sensor by C-MEMS derived glassy carbon electrodes.**”
5. Project: going on “**Biosynthesized AgNP Modified Glassy Carbon Electrode as a label-free non-faradaic impedance sensor for bacteria detection.**”
6. Project going on “**Developing of highly sensitive low-cost glucose sensor by C-MEMS derived glassy carbon electrodes to measure blood glucose value from sweat and saliva for the diabetic patient in a non-invasive way.**”
7. Conducted seminar on “**Human Tracking Using Kalman’s Filter.**”
8. Conducted seminar on “**PC Based PID Controller for Flow Control of a Process.**”