

Assignment No-1 [10 Marks] (CLO-1)

THE DEADLINE FOR THE SUBMISSION OF ASSIGNMENT IS:

11PM, WEDNESDAY 22ND MARCH 2022.

The purpose of this assignment is to give students an idea of how research is carried out in a certain area and how the results are reported. The paper chosen discusses a possible solution of preventing virus from infecting the humans by using positive static charges over a metallic surface.

The assignment is to be submitted as a **Portable Document Format (PDF)** on LMS so that a Plagiarism check may be carried out. Copy/pasting screenshots of the text will result in **ZERO** marks. The acceptable similarity score is less than 19%.

- You are required to read the following paper which has been uploaded on LMS:

Title: Enhanced Design of PPE Based on Electrostatic Principle to Eliminate Viruses (SARS-CoV-2)

Authors: Uddip Kashyap, Sandip K. Saha

- Summarize the main findings of the paper in a minimum of 400 words. The summary should be written in a way that the reader can understand the issue being addressed in the paper and the solution presented. There is no limit on the maximum number of words. **[6 Marks]**
- The paper discusses different equations that are related to electrostatics. Identify the equations that we have studied during the course. **[4 Marks]**