

# *National Institute of Technology, Srinagar (J & K)*

## **Assignment No-1**

**Subject: Design of Tribosystems (MSD-301)**

**Sep., 2020 to Dec., 2020**

**Unit: 1 Introduction to Design of Tribosystems**

**Date of Submission: 31-10-2020**

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1. Describe the concept for the design of tribo-system with the help of suitable example.
2. Explain the role of various tribo-processes in mechanical system.
3. Discuss the various new challenges w.r.t. the design of tribo-system.
4. Explain the following: (i) Contamination Layer, (ii) Absorbed gas layer, (iii) Oxide layer and (iv) Work hardened layer.
5. Discuss the influence of wear behavior w.r.t. the types of relative motions.

\*\*\*\*\***END**\*\*\*\*\*

***Note:** 1. Students are advised to submit the assignment online by scanning the handwritten assignment on or before the date of submission at*

*[mukund.sharma@nitsri.net](mailto:mukund.sharma@nitsri.net)*

*2. Please ensure that the Roll No along with name should be written in the front page of Assignment*