



**SurTech**

## **TOPIC - Friction**

**Title:**The Invisible Force that Shapes our Daily Lives

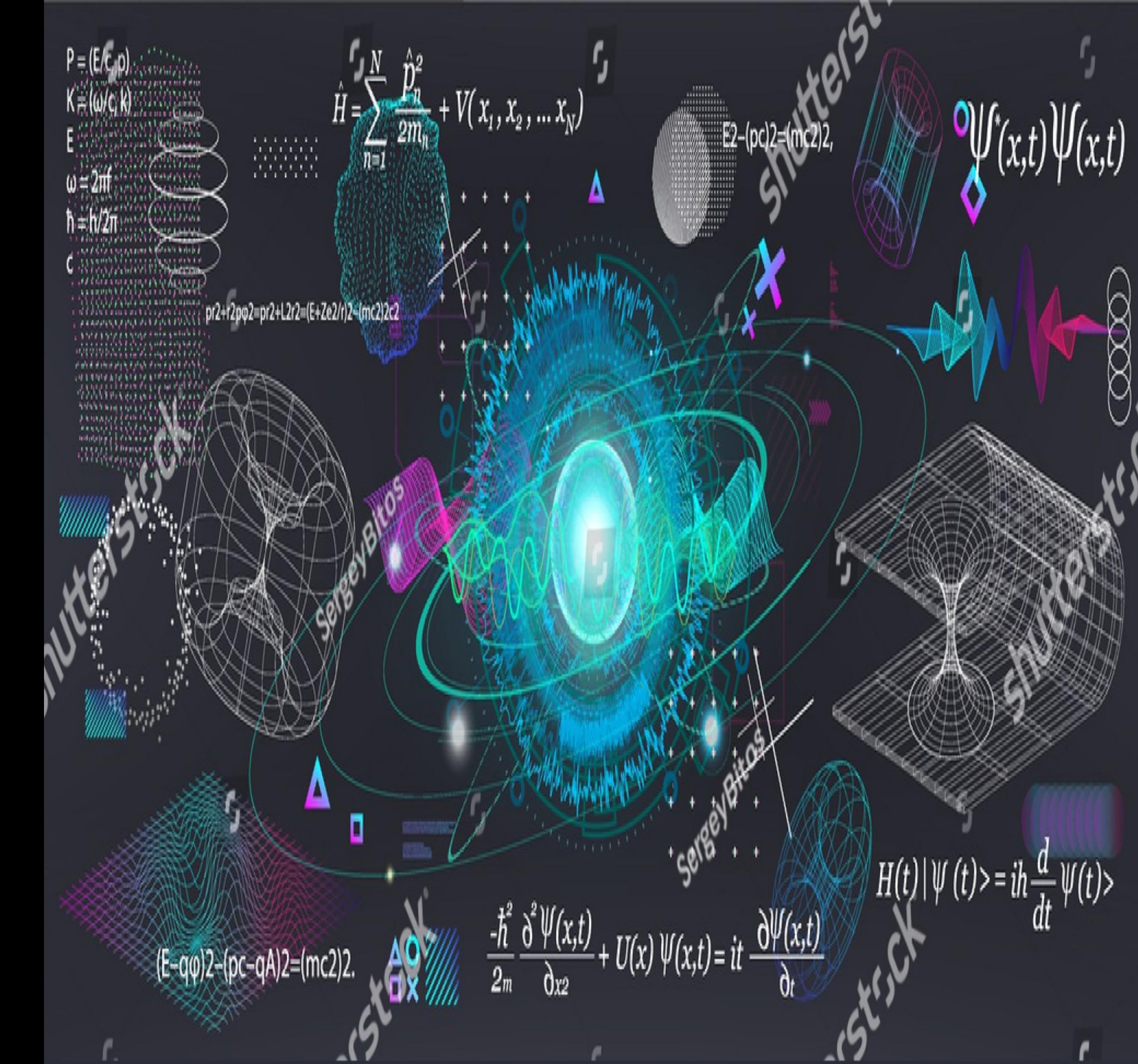
**Roll:** 031 **Sec:** Sec A **Name:** Arijit Bera **Stream:** CSE

# Introduction to Friction

- Definition of Friction
- Importance in our Daily Lives
- Types of Friction: Static, Kinetic, Rolling

## Types of Friction

- **Static Friction:** Objects at rest.
- **Kinetic Friction:** Objects in motion.
- **Rolling Friction:** Occurs when a round object rolls over a surface.



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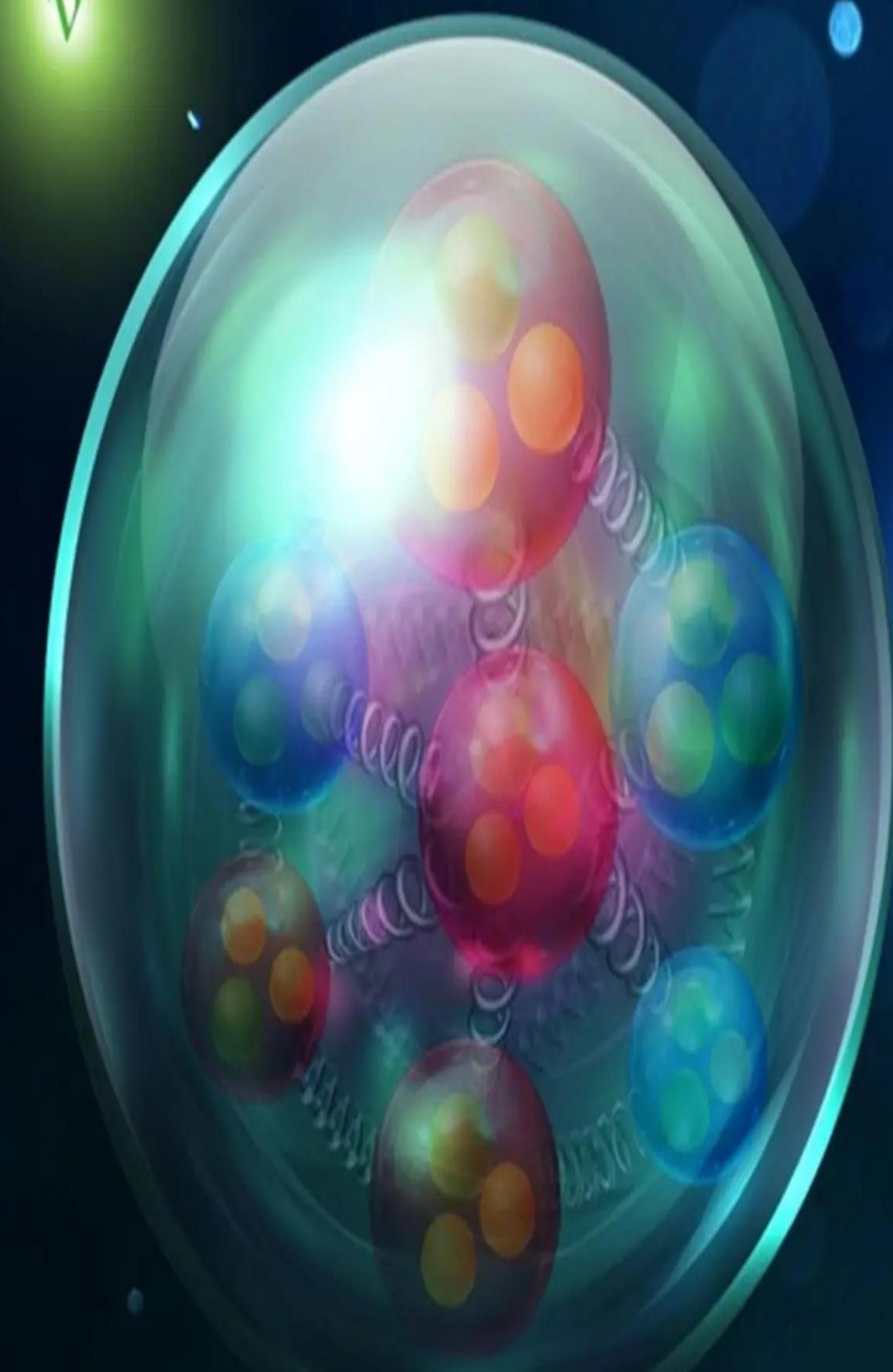
## Causes of Friction

Surface Roughness  
Interlocking of Surface Asperities  
Adhesion between Molecules



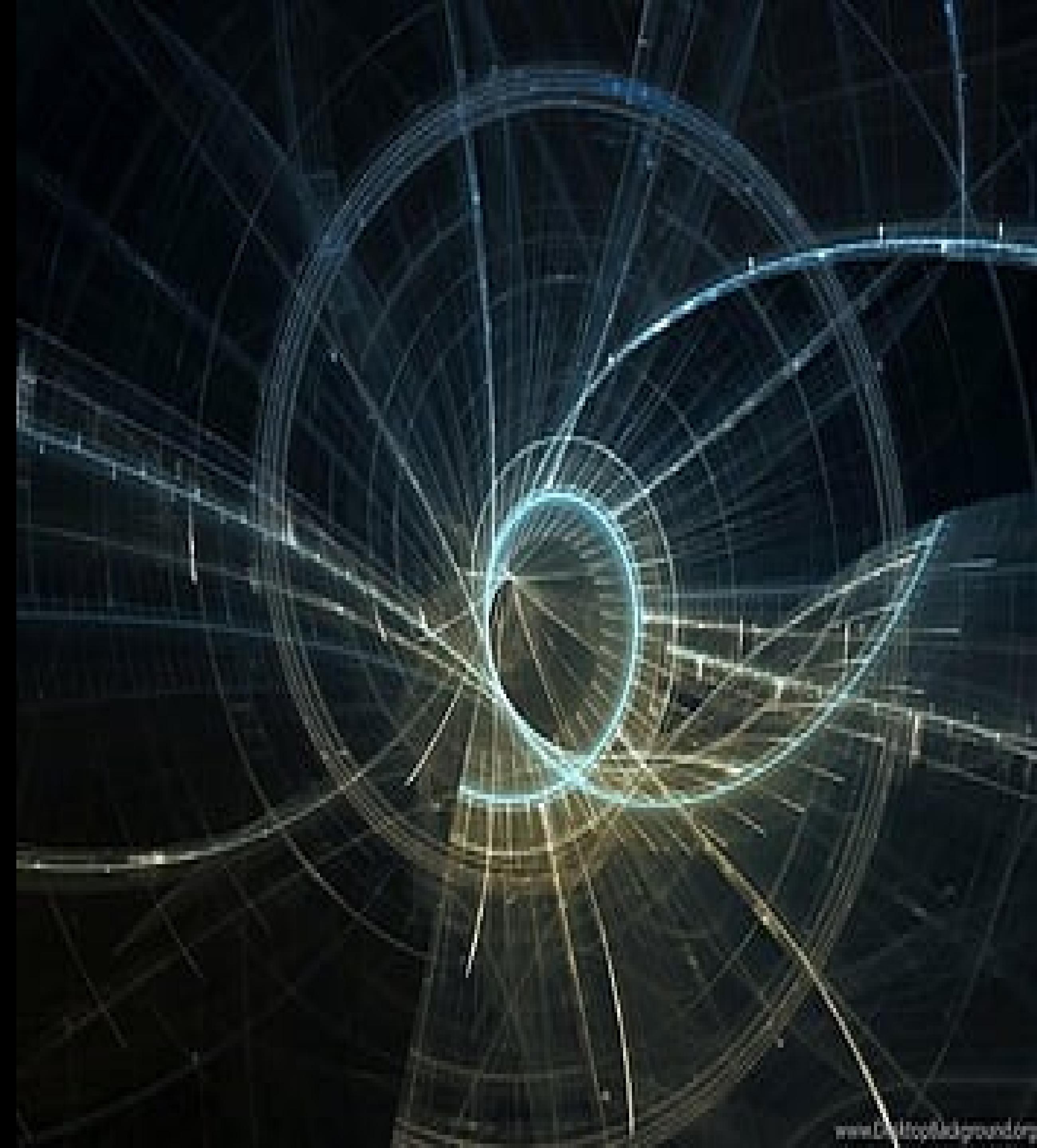
# Factors Affecting Friction

- Normal Force
- Surface Area
- Types of Surfaces
- Temperature



## The Role of Friction in Everyday Life

- Walking and Running
- Braking in Vehicles
- Writing with a Pen or Pencil
- Opening and Closing Doors



## Benefits of Friction

- Traction in Vehicles
- Writing and Drawing
- Gripping Objects

