**VISHWAKARMA INSTITUTE OF TECHNOLOGY**

**Department of Engineering, Sciences and Humanities**

**FY – 2022-2023 -SEM 1**

**ES1035: Robot Mechanics and Electronics**

**---------------------------------------------------------------------------------------**

**HOME ASSIGNMENT NO 1**

**Resultant force and Equilibrium**

1. What do you mean by the term ROBOT? Give its standard Definition. Mention the fundamental Laws of Robotics.
2. What is the difference between Automation and Robotics?
3. Explain the anatomy of Robot with neat diagram.
4. What are different Joints types and Robot Configurations and their Work Space.
5. Explain the following terms.
6. Forward Kinematics
7. Inverse Kinematics
8. Dynamics
9. Trajectory
10. Degrees of Freedom

**Important Note**: Last date of assignment submission is 09th Jan 2023.