
EYSIP 2020 Weekly Report

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Cycle BOT using LQR

Team 1 (LQR)

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Important Points

1. 3 Experiments were designed on following topics:
 - a. Finding out Kinetic Energy of the System and Potential Energy of the system.
Finding out Lagrangian of the System and Euler Lagrange equation.
 - b. Jacobian and Linearizing the System. Finding out the Equilibrium Points and types of equilibrium.
 - c. Equating them and finding out the Parametric State- Space Model.
Substituting Practical Values and Checking for Controllability of the system.

Relevant Links:

- Experiment 1 and 2 have been updated on the GitHub repository, WEEK_4 folder.
[Link](#)
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