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# User interface development with programming for closed loop control of articulated robotic arm

## Abstract

### Objective and Scope of Project

An articulated robot is a planar redundant robot with rotary joints. The arm available at IPR is a 6 axis robotic arm mounted on a linear guide. The control system consists of servo drives, encoders for position feedback. The main objective of this project is to develop a user friendly control system interface including the safety interlocks for motion control of the articulated robotic arm.

The project work include

- Development of GUI,
- Programming the user interface,
- Integration with the robot servo drives,
- Implementation and testing.

Number of students - 02 (Max)

**Eligibility:** Only students of *Electronics/Electrical/Instrumentation & Control Engineering* branches can submit their application at following email addresses

Email: [naveen@ipr.res.in](mailto:naveen@ipr.res.in) [Guide e-mail address], [pramitd@ipr.res.in](mailto:pramitd@ipr.res.in) [Co-Guide e-mail address] and [project\\_ee@ipr.res.in](mailto:project_ee@ipr.res.in) [Project coordinator's e-mail address]

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