

Screening Task for P(11-2) - Project Research Associate

Remember that your submission will be graded on the quality of your work and validity of the results.

Task 1: We expect you to make the circuits using <https://www.tinkercad.com> platform. You have to share the circuits with us and change their accessibility to "public" in order for us to see them. Please name them accordingly (if there are multiple attempts).

Design a circuit to switch ON and OFF a 12 V "load" using Arduino with the following requirements:

- a) Use a switch to turn ON and OFF the load via Arduino
- b) Use **MOSFET**(s) for driving the 12 V load
- c) The load must remain **ON** in case if the arduino is disconnected from MOSFET (use a slide switch to disconnect signal from arduino to MOSFET. Note, this switch is different from the one used in point 1)
- d) If this circuit cannot be made, mention reasons and demonstrate failures

PS: In case of any doubt, please assume suitable information and finish the task.

Submission procedure:

- Mail your project URL to info@fossee.in.
- You may attach a README file to describe your submission.

Make sure to put the mail subject-line as "job-code-YourName without quotes. For example, "P(11-2)-satish" No extension in the deadline will be considered for submission of screening task
