
MEE210 ELECTRICAL MACHINES – Experiment #5

LABORATORY CONTENT: DC motor control using relay, switch and buttons

EQUIPMENT REQUIRED: (students should bring electronic components)

Qty	Description
1	Voltage supply (will be ready at lab.)
1	Breadboard
-	DC motor
-	Switches
-	Buttons
1	5V relay
1	Transistor
1	100 ohm resistor
-	Wiring equipments (jumper cables, crocodiles, etc.)

PRELIMINARY QUESTIONS:

- 1) These preliminary steps consist of the methods that will be used in the experiment. These methods are expected to be searched by you and not be given to you directly.
- 2) Using a relay, build up a circuit to control the motor. To drive the relay, use a transistor-based circuit with a button/switch.
- 3) Using just switches and buttons, build up another circuit to control the motor in both rotating directions.

EXERCISE STEPS:

- 1) Show the working circuits.

POSTLIMINARY QUESTIONS:

- 1) Give examples about the methods learned in this experiment with the industrial applications.

IMPORTANT NOTE:

- 1) The postliminary part should be demonstrated in the next laboratory week.
- 2) For the next experiment, you need to build up some contents. So, the ones who are not prepared for the experiment will not be allowed to participate.