Report Format

Cover page:
-Title and Course number
-Names and Student numbers
-Lab date
-Submission Date

Note:
-Only one report per group,
-Both hand-written and typed reports are acceptable,
-Please don’t use a lab book for the report,
-The lab report is due 2 weeks after your lab session.

-Introduction and a brief explanation of the lab purpose.

1- DC Motor Calibration

Numerical Values:

DC-MOTOR Number	G_{pot}	O_{pot}	K_0	K_3

Potentiometer Characteristic
Voltage v.s. Shaft-Angle
(Angle=-360 …. +360 degrees)
Note: The voltage range of the potentiometer output is (-5v…+5v)

2- DC Motor Model Identification

O.S.%=(formula) t_{peak}=(formula)

δ=(in terms of O.S.% and t_{peak}) ω_n=(in terms of O.S.% and t_{peak})

K_p=(in terms of δ and ω_n and K) T=(in terms of δ and ω_n and K)

Numerical Values:

K	O.S.%	t_{peak}	δ	ω_n	K_p	T

Numerical Values:

Open Loop Poles	Closed Loop Poles
,	,

Closed loop step response graph.
(Real data and Simulated)

Questions:

1-

2-

Summary or Conclusion: