



جامعة المنوفية  
كلية الهندسة الإلكترونية بالمنوف  
قسم هندسة الإلكترونيات الصناعية والتحكم



## معمل تحكم ألي (1)

### Automatic Control Lab(1)



### أهداف المعمل

- This lab covers aspects of continuous automatic control systems.
- The theory of open and closed-loop, speed and positional control systems using modular units, both mechanical and electronic, that can be configured to demonstrate the various methods of control techniques.
- Different simulated plants to facilitate a mean for testing and discussing different control techniques and theories such as P, PI, PD, and PID controllers.



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## أهم الأجهزة الموجودة بالمعمل

### Control Function Simulator Kits

- Reference variable generator
- P controller, I controller, D controller, and PID controller
- Summing point with 2 inputs/5 inputs
- Simulated controlled system
- Transfer Element of the 2nd Order
- Motor generator set
- Temperature controlled system
- Power amplifier
- Load switch
- Test function generator



### Complete Modular Servo System (MS 150)

The MS150 comprises modular units for individual study and construction of speed and position controls using dc error signals. The MS150 system is extendible to cover: AC servo systems, Hybrid servo systems, Digitally controlled servo systems, Relay (on/off) servo systems, Sampled data systems, Three-term control.

