



جامعة المنوفية
كلية الهندسة الإلكترونية بالمنوف
قسم هندسة الإلكترونيات الصناعية والتحكم



معمل الحاكمت القابلة للبرمجة

Programmable Logic Controllers (PLC)



أهداف المعمل

- Firstly, The objectives of the third year PLC laboratory are as follows:
- Introducing the fundamentals of electronic measurements and control.
- To explain the advantages of electronic measurements and process control.
- Learning different programming languages of process control using PLC.
- Preparation and installation of wiring diagram in industrial plants
- Secondly, The objectives of the fourth year PLC laboratory are:
- To explain the several ways of utilizing and programming an PLC with high



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efficiency and reliability.

- Having acquired a good knowledge of improving PLC applications.
- To analyze PLC units.
- Having acquired a good knowledge of programming the PLC.
- Having acquired a good knowledge of connecting PLC with computer and others PLC in LAN and industrial network.
- To analyze Embedded devices

أهم الأجهزة الموجودة بالمعمل

- Nano PLC units Tsx 37...12 & 37...28
- Micro PLC Ts x3710&3722
- LG PLC units
- SCADA software and hardware Dongle for LG PLC units
- Contactors and relays
- 3-phase motors (1&5 KW)

