



السيد الأستاذ الدكتور/ مدير وحدة الجودة

تحية طيبة وبعد،،،

مرسل لسيداتكم الصيغة النهائية للجدارات الخاصة بقسم هندسة الإلكترونيات الصناعية والتحكم

## Program Competences

In addition to the competences for all Engineering Programs (A-Level) and the competencies for the Electrical Engineering Discipline (B-Level), the Industrial Electronics and Control Engineering Program graduate must be able to (C-Level):

- C1. Select and apply suitable mathematical tools, computing methods and software for modeling, analyzing and controlling of industrial automation systems e.g., Power system, Robotics and Mechatronics, and Biomedical system.
- C2. Carry out design, development, testing, debugging, operation and maintenance of industrial systems .
- C3. Select suitable technical options for control systems design while optimizing cost and quality.
- C4. Estimate and measure the performance of the automated systems under specific input excitation and evaluate its suitability for a specific application.
- C5. Undertake research and support new solutions to provide for concepts, ideas, product/service improvement.
- C6. Develop and innovate designs to solve problems containing a range of commercial and industrial constrains.
- C7. Demonstrate additional abilities related to the field of the discipline within Industrial Electronics and Control Engineering as follows:

Concentration	Graduate attributes
Industrial electronics	7.a Demonstrate abilities to model, analyze, design and verify industrial electronics systems.
Process control systems	7.b Demonstrate abilities to model, design and integrate process control systems including analog, digital and intelligent systems.



Mechatronics and robotics	7.c Demonstrate abilities to model, analyze, design and verify mechatronics and robotics system.
Medical systems	7.d Demonstrate abilities to test and maintain medical electronic devices.

رئيس مجلس القسم

H. AWAT

(اد/ حمدي علي احمد عوض)

