



كلية الهندسة:

الجامعة الهاشمية 2020

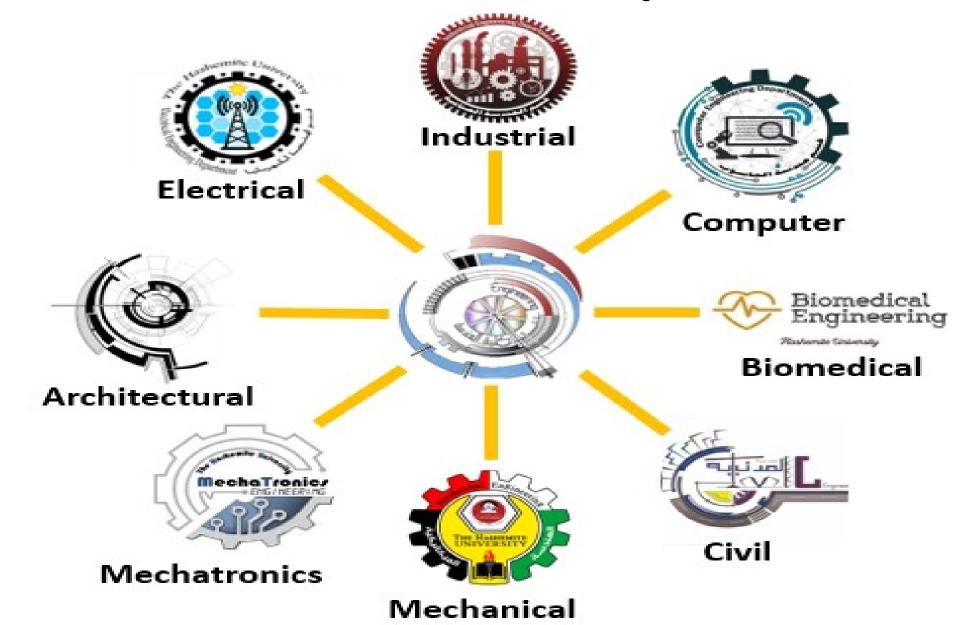
المحتوى

□ مختبرات قسم هندسة الحاسوب □ مختبرات قسم الهندسة الكهربائية □ مختبرات قسم الهندسة الصناعية □ مختبرات قسم الهندسة الطبية □ مختبرات قسم الهندسة الميكانيكية □ مختبرات قسم هندسة المدنية □ مختبرات قسم هندسة الميكاترونيكس □ مختبرات قسم هندسة العمارة

□ مختبرات قسم العلوم الهندسية المساندة

□ المشاغل الهندسية

FACULTY OF ENGINEERING: Departments



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- The Practical Labs include:
 - 1. Digital Logic Lab
 - 2. Microprocessors Lab
 - 3. DIC and Embedded Systems Lab
 - 4. Maintenance Lab
 - Networks Lab
- The Research Labs include:
 - Robot Vision Research Lab (HURVL)

Department of Computer Engineering

(CpE): Laboratories

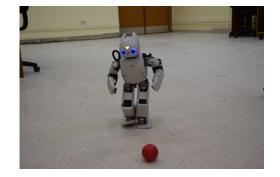






















Microprocessor Lab





Maintenance Lab









Network Lab





DIC and Embedded Systems Lab



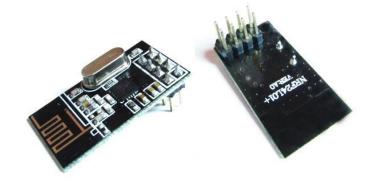




Wireless Networks Lab









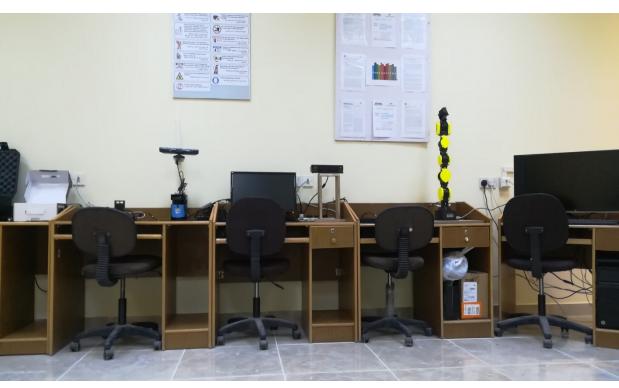


Software Lab











Robotic Platforms







Darwin OP2 Humanoid Robot



DARWIN-Mini Humanoid Robot



7DOF CYTON EPSILON 1500 Robotic Arm Manipulator



Turtlebot2 Mobile Robot Platform

Beam telepresence robot

Adept PeopleBot Research Mobile Robot Platform



- The Practical Labs include:
 - 1. Electrical Circuit Lab
 - 2. Introduction to Circuit Lab
 - 3. Communications Lab
 - 4. Electrical Machines Lab
 - 5. Electronics Lab
- The Research Labs include:
 - Renewable energy lab
 - Optical Fiber
 - Antenna
 - IoT (under preparation)

Department of Electrical Engineering

(EE): Laboratories



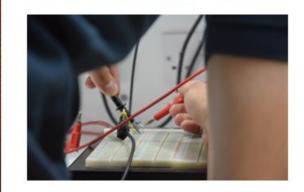




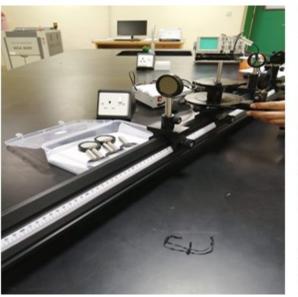






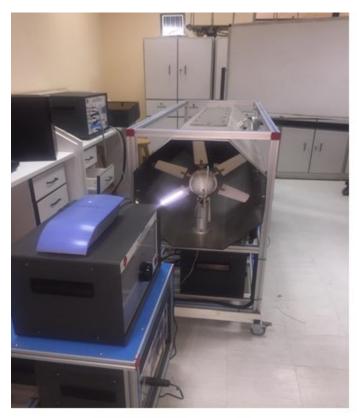






















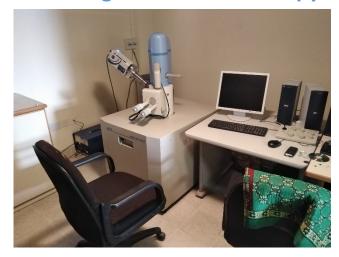
Department of Industrial Engineering (IE): Laboratories



- The Practical Labs include:
 - 1. Properties of Materials lab.
 - 2. Manufacturing processes lab.
 - 3. Human factors lab.
 - 4. CAD/CAM lab.
 - Automation lab.
 - 6. Metrology lab.
- The Research Labs include:
 - Material Processing and Characterization lab.

Department of Industrial Engineering (IE): Material Synthesis and Characterization lab

Scanning Electron Microscopy



Physical Vapor Deposition



Differential Scanning Calorimetry



Universal Testing



Stereolithography



Computer Integrated Manufacturing



Department of Industrial Engineering (IE): Engineering Materials Lab.





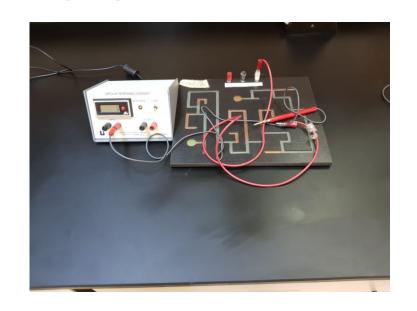




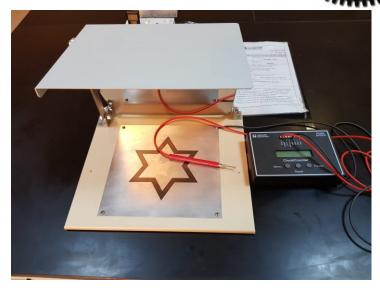


Department of Industrial Engineering (IE): Human Factors Lab.

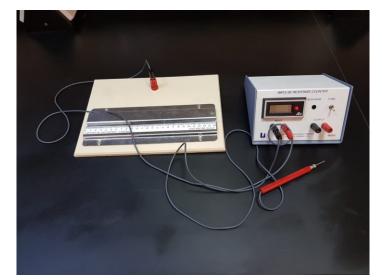






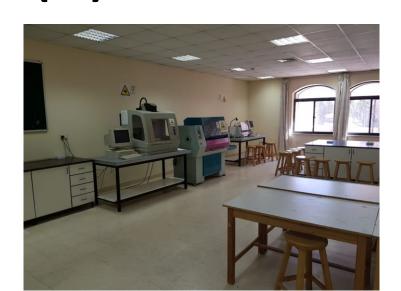








Department of Industrial Engineering (IE): Manufacturing and CNC Lab.









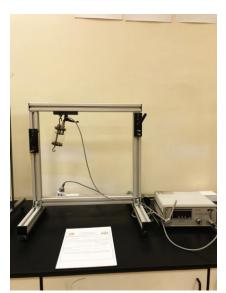




Department of Industrial Engineering (IE): Metrology Lab.











Department of Biomedical Engineering



(BE): Laboratories

- The Practical Labs include:
 - 1. Biomedical Instrumentation (1) Lab.
 - 2. Biomedical Instrumentation (2) Lab
 - 3. Digital Image Processing Lab.
 - 4. Biomechanics and Rehabilitation Engineering Lab.
 - 5. Biomedical Transducers and Telemetry Lab.
- The Research Labs include:
 - Biomedical Computer Simulation Lab

Department of Biomedical Engineering

Engineering

Hashemite University

Biomedical

(BE): Laboratories



















Department of Biomedical Engineering

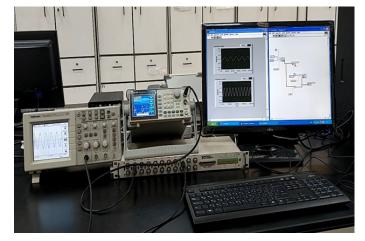


Hashemite University

(BE): Laboratories













- The Practical Labs include:
 - 1. Strength of materials Lab.
 - 2. Thermal 1 Lab.
 - Thermal 2 Lab.
 - 4. Fluid Lab.
 - 5. Vibration and Control Lab..
- The Research Labs include:
 - Renewable Energy Lab



-Automatic Control Lab.





Fluid Mechanics Lab.









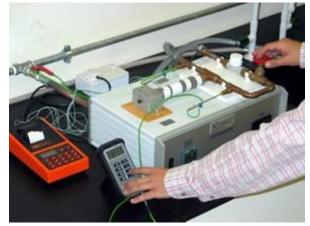


Heat Transfer Lab.











•HVAC Lab.











Internal Combustion Engines Lab.











Department of Mechanical Engineering

(ME): Laboratories

Mechanical Drawing Lab.





Mechanical Vibration Lab.





Department of Mechanical Engineering

(ME): Laboratories

Renewable Energy Lab.





Department of Mechanical Engineering

(ME): Laboratories

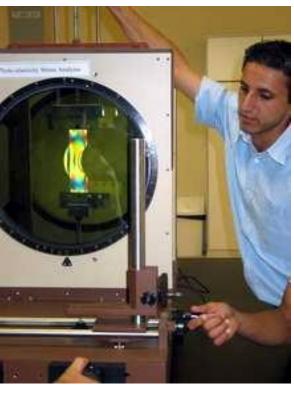
Strength of Materials Lab.











Thermodynamics Lab











- The Practical Labs include:
 - 1. Building Materials Lab
 - 2. Surveying lab
 - 3. Highway Engineering Lab
 - 4. Engineering Geology Lab
 - 5. Geotechnical Lab
 - 6. Environmental Lab
 - 7. Hydraulic Lab



Department of Civil Engineering

(CE): Laboratories



Surveying Lab







Highway Engineering Lab







Building Materials Lab







Engineering Geology Lab







Hydraulic Lab







Environmental Lab







Geotechnical Lab









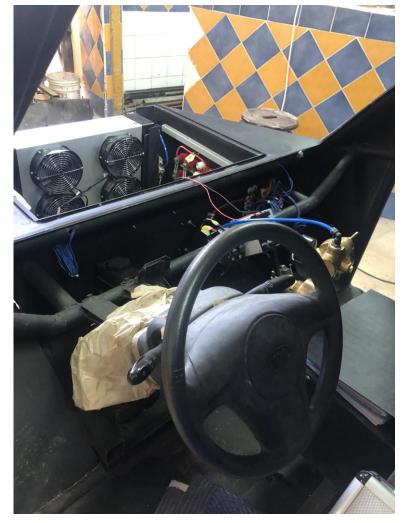
- The Practical Labs include:
 - 1. Control Systems Lab
 - 2. Electrical Machines and Drive Lab
 - Control and Transducers Lab
 - Microcontrollers Lab
 - 5. Mechatronics Systems Lab
 - 6. Process Control Lab
 - 7. Logic and Electronics Lab.
- The Research Labs include:
 - Advanced Control Applications Laboratory
 - Autonomous Research Laboratory (Drone, electric cars)

Department of Mechatronics Engineering

(MCE): Laboratories

Hybrid fuel cell battery test bench



























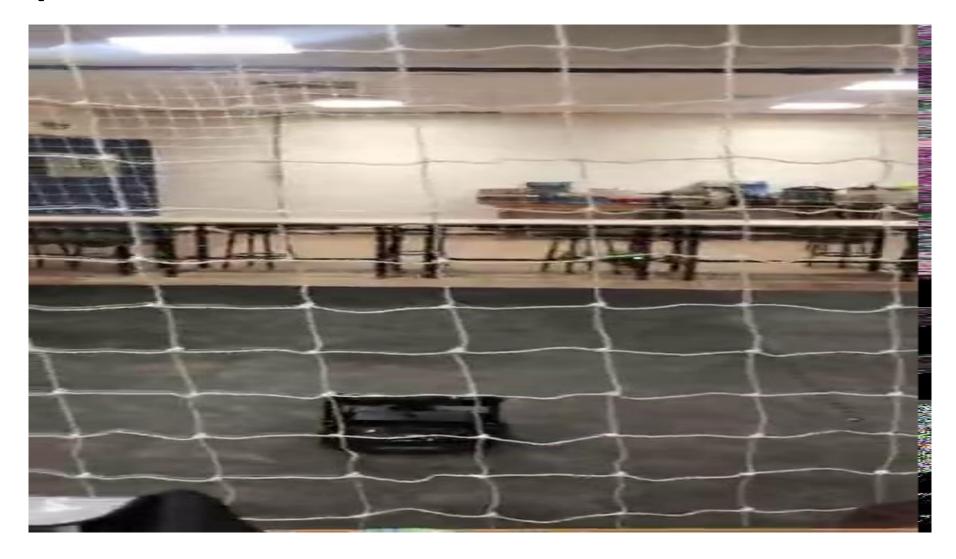






MechaTronic/





Department of Architectural Engineering (AE): Laboratories

- The Practical Labs include:
 - 1. Acoustical and Lighting Lab
 - 2. Building Materials Lab
 - 3. Digital and Computer Labs
 - 4. Energy Lab
 - 5. Engineering Workshops
 - 6. Fabrication Lab (Wood and model making workshop lab)
 - 7. Surveying Lab.

Department of Architectural Engineering

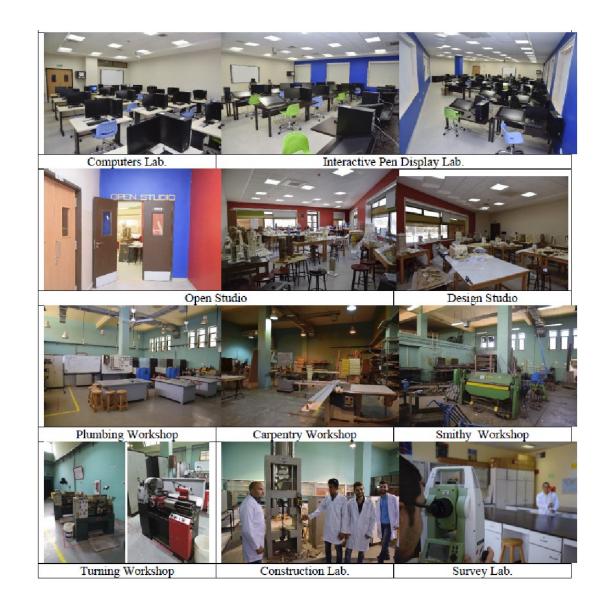
(AE): Laboratories





Department of Architectural Engineering (AE): Laboratories





Department of Architectural Engineering

(AE): Laboratories







HU FACULTY OF ENGINEERING ARCHITECTURAL DEPARTMENT

Department Of Allied Engineering Sciences:

Laboratories

- The Practical Labs include:
 - 1. Engineering manual drawing.
 - 2. AutoCAD drawing





FACULTY OF ENGINEERING

- Units Under Engineering Faculty
 - Engineering workshops
 - Innovation center
 - NDT center
 - Energy Center
 - Cisco Academy









Engineering

Welding, Carpentry, Electricity,....



























Thank you