Co-funded by the
Erasmus+ Programme
of the European Union

Master of
Cyber Physical Systems

INTERNATIONAL MASTER OF SCIENCE ON CYBER PHYSICAL SYSTEMS

Palestine Technical College (PTC)

Deir El-Balah, Palestine
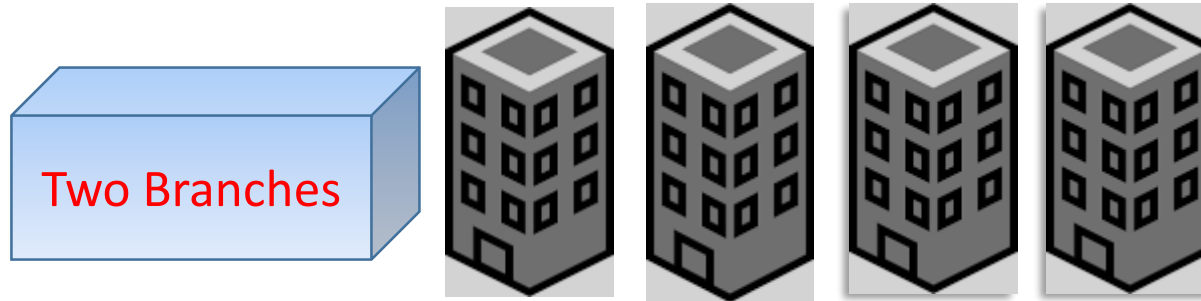
Open Info Day

26.08.2020

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Palestine Technical College (PTC)

- Governmental college established in 1993.

- Specializes in technical university education

- More than 1800 students enrolled in 2018/2019

- PTC employs around 220 full time employees
  - 130 are academic staff (85 PhD and Master)

- Two Campuses
  - Main campus city of Deir El-Balah
  - Campus in the north of Gaza
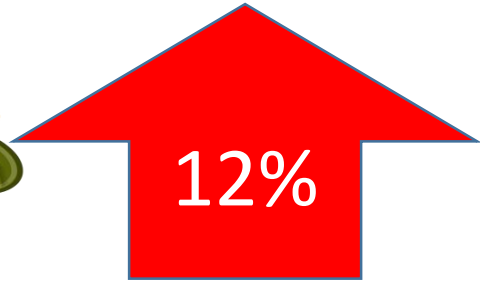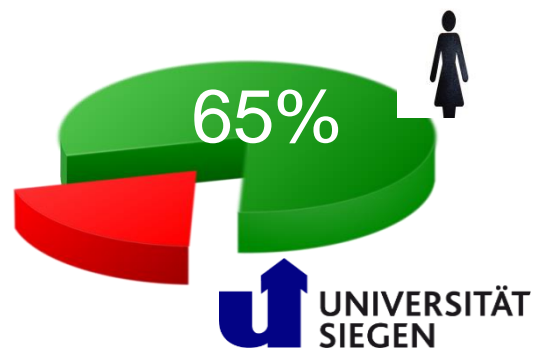
Palestine Technical College (PTC)

Master of
Cyber Physical Systems

Two Branches

35 PhD

50 Master

85 Lecturers (PhD, Master)

65%

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12%

1800 students

Palestine Technical College (PTC)

27 degrees

7   Bachelors
4-5 years

20   Diplomas
2 years

24 different technical labs

INNOVATION LAB

INNOVATION LABS

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Engineering Program Department

- Offered programs
    - Computer systems engineering (5 years B.Sc. Degree)
    - Communications engineering
    - Electrical installation technology
    - Electronic maintenance
    - Industrial automation
    - Electromechanical engineering
    - Air conditioning
- Labs
    - 12 electrical, communications, computer architecture, computer interfacing, PLC and electronics Labs
- Teaching Staff
    - 6 PhD holders
    - 20 M.Sc. Holders
    - 5 B.Sc. Technicians
- Total students around 400 in all the different programs

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Computer Science Department

- Offered programs
  - Information and Communication Technology program (4 years B.Sc. Degree)
  - Mobile and web development (2-years Program)
  - Multimedia and graphics design (2-years Program)
  - Computer programming and data base (2-years Program)

- Labs
  - 8 multimedia, digital media, graphic design
- Teaching Staff
  - 7 PhD holders
  - 13 M.Sc. Holders
  - 5 B.Sc. Technicians
- Total students around 250 in all the different programs

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Lab Equipment's

- A list of the buildings available to implement the program, and it includes the offices of the faculty members, halls, squares, technical workshops and student activity centers.

  - The number of classrooms equals (20).
  - The number of faculty member offices equals 20 offices.
  - Electricity laboratory is fully equipped to teach laboratories of electrical circuits materials and a laboratory for electrical machines and domestic and industrial installations.
  - The electronics lab and the logic circuit design lab are fully equipped to teach analog, digital and logic electronics materials labs.
  - Renewable Energy Laboratory: It contains all kinds of inverters, solar cells with different capacities, wind turbines, and training devices on different loads, and is used to train students of the professional diploma in renewable energy.
  - The laboratory also overlooks a 500-square-meter roof that is used as an open field solar cells.
  - Fully equipped electrical actuator.
  - A laboratory for designing and manufacturing printed electronic boards.
  - Others.

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Target group (students)

- Computer Engineering and Sciences.
- Electrical engineering and its branches include: communications, control and power systems.
- Mechatronics engineering.

Academic plan

- The study plan for the master's degree in computerized physical systems consists of (36) credit hours, distributed as follows:

    - First, the compulsory courses are 18
    - Secondly, Elective Courses 12
    - Third: The thesis or the project 6
    - Total credit hours 36

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Work Opportunities

- The public sector, including universities, research centers and relevant ministries.

- The private sector includes:
    - Software development companies deployed in the Gaza Strip.
    - Computer companies, both software and hardware.
    - Engineering solutions companies that require engineering solutions, including physical systems, controlling and collecting data remotely, as well as engineering consultancy.

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Accreditation of MS@CPS program

- A cooperation agreement to establish a master's program in cyber physical systems between the Palestine Technical College - Deir El Balah and Quds University is

- The agreement is approved by both institutes and EU.

- According to agreement student will study at PTC and get degrees from Al-Quds university.