Degree Plan

Major related courses
GEIT 1411 – Computer Science I
GEIT 1412 – Computer Science II
GEIT 2421 – Data Structures
GEIT 2291 – Professional Ethics
GEIT 2331 – Mathematical Reasoning
GEIT 3341 – Database I
GEIT 3331 – Computer Organization
GEIT 3351 – Principles of SW Engineering
GEIT 4361 – Internship
COEN 2411 – Circuits I
COEN 3323 – Digital and Logic Design
COEN 3361 – Computer Networks
COEN 3421 – Electronics I
COEN 4361 – Operating Systems
COEN 4413 – Embedded Systems
COEN 4322 – Digital Signal Processing
COEN xxxx – 4 CE Elective courses

Mathematics related courses
MATH 1422 – Calculus I
MATH 1423 – Calculus II
MATH 1424 – Calculus III
MATH 1313 – Statistical Methods
MATH 3433 – Linear Algebra and Diff. Equations
PHYS 1421 – Physics for Engineers I
PHYS 1422 – Physics for Engineers II

Program Structure

Course	No. of Courses	Credit Hours
Core	26	70
College	9	29
Major	7	24
Elective	4	12

Accreditation

ABET Engineering Accreditation Commission

The Computer Engineering program at PMU is accredited since 2017 by The ABET Engineering Accreditation Commission (EAC), USA.

Facilities

Smart classrooms with Blackboard, Smartboard and Banner.

Labs: Sun, Electronics, Circuits, Robotics, Arduino, Cloud Computing. Android, iOS.

Admission Requirements

The College of Computer Engineering & Science provides for minimum standards of academic performance from its students. Using a 4.0 scale for course grades, The College of Computer Engineering & Science requires that students maintain minimum grade point averages (GPA) for various categories of courses consisting of:

- 2.0 GPA in courses from the PMU Core Curriculum.
- 2.0 GPA in degree-specific courses (courses from the Core Curriculum that CCES students must complete beyond the minimum requirement).
- 2.25 GPA in courses required by the college (GEIT prefix).
- 2.5 GPA in courses within the academic discipline.

How To Apply

Read Admission Guide here

https://www.pmu.edu.sa/pdf/viewer?ID=203

Fill the application form online

https://www.pmu.edu.sa/admission/apply_now_ads

Prince Mohammad Bin Fahd University

College of Computer Engineering and Science

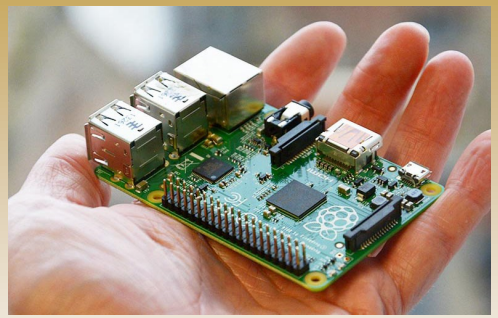
Computer Engineering

Want more info?

www.pmu.edu.sa
cces@pmu.edu.sa
+966 13 849 8835 / +966 13 849 9711
@PMU_CCES

Address:
College of Computer Engineering and Science
P.O.Box 1664 Al-Khobar, 31952
Kingdom Saudi Arabia

Introduction



Computer Engineering is one of the three departments under the College of Computer Engineering and Science at PMU. The Department started the first intake in spring 2006.
Computer Engineers are responsible for developing many of the technological advances that we take for granted. Computer engineers design, develop, and supervise the manufacturing of hardware, software, and networks in computer systems.

Why Computer Engineering?

- The program teaches design concept of computer systems with hands-on experience.
- In addition to hardware design, the program is complemented with software concepts.
- Computer Engineers discipline with its various courses is becoming independent of electrical engineers curriculum as well as computer science curriculum.
- Computer engineering is a blend of electrical engineering and computer science in which students acquire knowledge of digital hardware with the design of software needed to operate the hardware components.
- Computer engineering students can specialize for their master's degree in Communications, Networks, Embedded Systems, Computer Vision, VLSI Design and Signal Processing.
- In terms of career prospects they can opt for both software and hardware jobs, since they possess both these skills.

Program Objectives

The Department of Computer Engineering aims at:

- Graduates will be able to use their knowledge and design skills in order to solve computer engineering problems.
- Graduates will be able to communicate effectively, work in or lead multi-disciplinary teams.
- Graduates will be encouraged and motivated to pursue higher studies in the area of computer engineering or related areas.
- Graduates will be able to adapt to changing technologies, as well as the society needs.

Program Outcomes

In addition to the six PMU core competencies, the Department of Computer Engineering will satisfy the 11 program outcomes specified by the Accreditation Board for Engineering and Technology (ABET). Each of the PMU engineering programs, therefore, will demonstrate that their graduates have achieved:

- The ability to apply knowledge of mathematics, science, and engineering.
- The ability to design and conduct experiments, as well as to analyze and interpret data.
- The ability to design a system, component, or process to meet desired needs.
- The ability to function on multi-disciplinary teams.
- The ability to identify, formulate, and, solve engineering problems.
- An understanding of professional and ethical responsibility.
- The ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- Recognition of the need for and an ability to engage in lif-long learning.
- Knowledge of contemporary issues.
- The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Career Opportunities

Potential careers of the CE Graduate:

- Computer Network Engineer
- Software Design
- Digital Signal and Image Processing
- Integrated Circuit Design
- Internet Applications Development
- Robotics and Automated Manufacturing
- Wireless Communication and Telecommunication Engineer

Where some of our graduates are working

Aramco	Halliburton
Sabic	STC
Oracle	Mobily
Samba	Careem
Toshiba	Yokogawa
Rawabi Holdings	GE
Shlumberger	Accenture