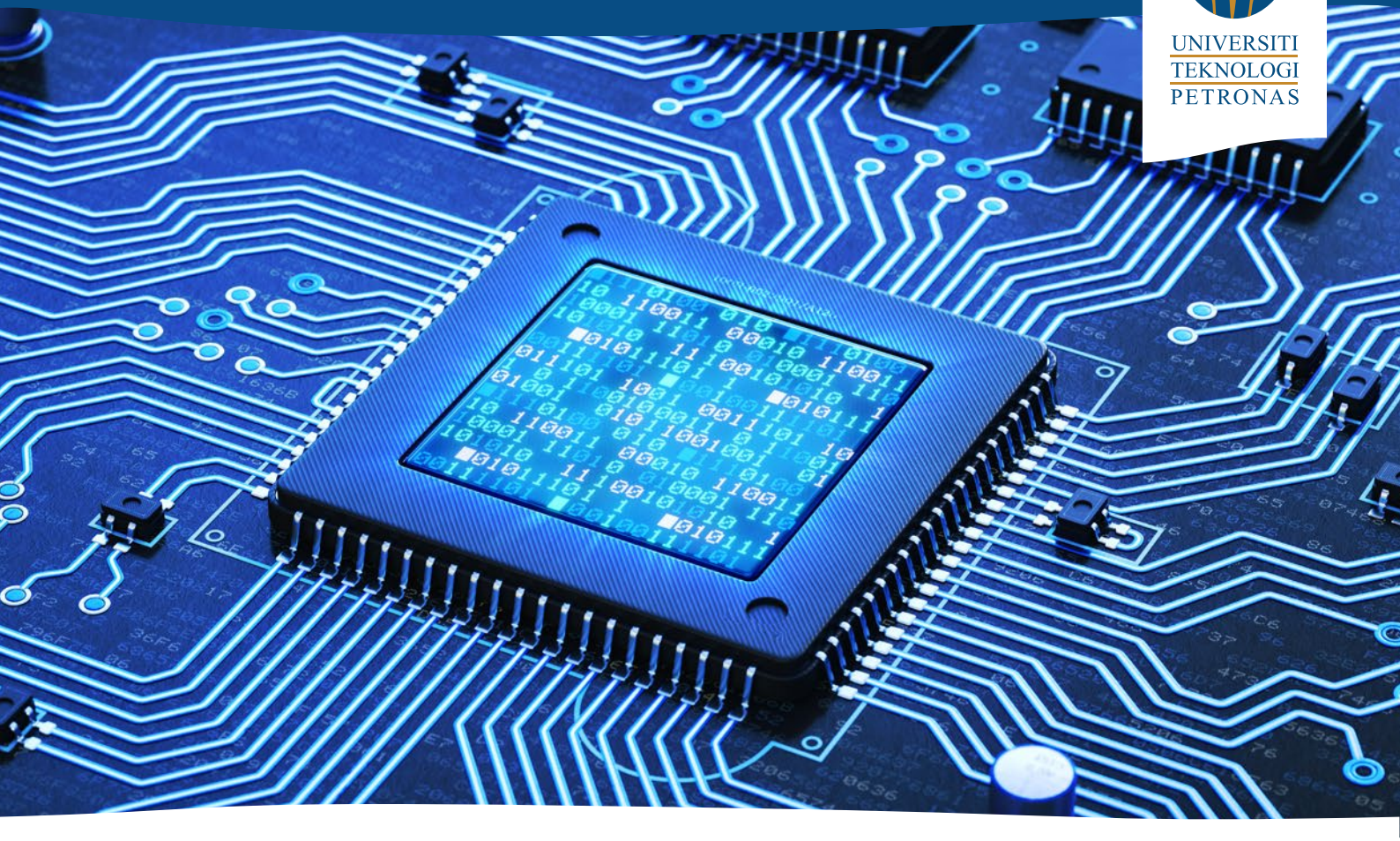
UNDERGRADUATE PROGRAMME

COMPUTER ENGINEERING

JPT/BPP(N/523/6/0274)12/20

UNIVERSITI TEKNOLOGI PETRONAS



What is Computer Engineering?

Computer engineering is a field that involves designing, building and programming of computer and computer-based systems ranging from mobile computers to high-end computers. This discipline draws heavily from the areas of electronics engineering and computer science.

The training received in computer engineering enables the engineer to be proficient in hardware and software integration of computer-based systems.

What does a Computer Engineer do?

Computer engineers make a difference in people's lives. Their contributions are not only limited to telecommunications and computer systems, but also found in manufacturing, medicine, banking systems, online transactions, gaming platforms, embedded systems, energy and transportation systems.

A peek into a Computer Engineer's day

Why study Computer Engineering at UTP?

1. Comprehensively designed programme with strong input from industry experts
2. Students can choose specialisations that are in demand by the industry during their final year of study
3. World-class teaching and learning, research capabilities as well as state-of-the-art labs and facilities
4. Graduates in this field are sought after by potential employers such as Intel, Microsoft, Symantec, Seagate, Cisco, Electronic Arts, PETRONAS, etc
5. The industry-driven programme is developed with inputs and support from various industry players namely Intel, ViTrox, CREST, Mimos, Motorola, Altera, Lifelabs, Salutica, Carsem and AESTE
6. This unique programme prepares students for careers in various areas such as Computer Hardware and Software Engineering, Software Verification, Embedded Systems, Human Computer Interaction and Data Networks
7. The academic staff are highly qualified and experienced, and a high percentage of them are chartered and professional engineers. Thus, undergraduate students can benefit greatly from their knowledge and expertise

What am I going to learn?

National / University

- Management, Social Sciences and Humanities
- Introduction to Oil and Gas
- Scientific Inquiry
- Co-Curriculum

Specialisation

- Scalable Computing
- Wireless Communication

Common Engineering

- Engineering Mathematics
- Engineering Economics
- Health, Safety and Environment
- Data Analytics
- Engineers in Society

Project Based

- Engineering Team Project
- 7 months Structured Industrial Internship Programme
- Community Engagement Project
- Final Year Research Project
- System Integration Design Project

Core Discipline by Programme

- Programming
- Introduction to Computer Science
- Micro Processor Systems
- Embedded Systems
- Computer Architectures
- Electronics
- Internet of Things

Minor (Optional)

- Entrepreneurship
- International Relations
- Project Management
- Big Data Analytics

Contact

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