# COLLEGE OF COMPUTING

College of Computing

**The College of Computing focuses on education as well as academic services in computing disciplines.**

- Established on 19 August 2017
- A merger of the Information Communication Technology (ICT) and Computer Engineering (CoE) departments
- Offering multi-disciplinary fields of study including computer engineering, software engineering, information systems, information technology and e-business
- Focussing on delivering knowledge and skills, ranging from computing and digital technology to design, development and assembly of hardware (electronic equipment) and software systems
- A faculty (the College of Computing) within PSU at PSU's Phuket Campus

400+ Students (30+ International Students) | 40+ Academic Staffs | 15+ Supporting Staffs

## Curriculum

### Bachelor of Engineering in Digital Engineering *(International Program)*

The principles of artificial intelligence and software engineering are the fundamentals upon which students' knowledge acquisition is assured. Realistic project-based and scenario-based learning, alongside a practical work placement or internship at a company or other organisation, are selected to propel student's abilities in many dimensions and lead our students to be able to develop their own automation systems and Internet of Things (IoTs) projects in conjunction with cloud computing and cybersecurity.

### Bachelor of Science in Digital Business *(International Program)*

Applying and integrating knowledge of business management and digital technology to solve business problems and to discover new knowledge applicable to digital business industries. The courses in this programme consist of Digital Marketing, Business Analytics and Visualization, Financial Technology (FinTech), Strategic Management, and Digital and Information Economy, all of which are relevant for enhancing graduates' efficiency and effectiveness for private and public organizations.

### Bachelor of Science in Computing

This curriculum aims to develop students' skills in computer technology, information technology, information systems, organization management, as well as the software engineering methodology and technology. The students will apply these principles to conduct data analysis, digital media design and creation, as well as employing computer technology in an organization. The curriculum is based on Work-Integrated Learning (WIL) to give students the job experience in a realistic setting. Students can choose one of the two tracks:

1. Artificial Intelligence and Data Science
2. Digital Media

### Bachelor of Engineering in Artificial Intelligence and System Engineering

Enhance knowledge and skills in engineering that focus on the systematic application of digital technology and artificial intelligence. Collaborate with leading private sector organizations both domestically and internationally for education. The curriculum is flexible and can be tailored to suit the learners' needs, emphasizing hands-on practical experience to increase future job opportunities. Students can earn credits through collaboration with private companies, organizations, or industries, choose projects based on their talents, or earn credits from accredited online learning platforms. This reduces the duration of the course to 3 years. Moreover, students can also earn and transfer credits with universities in the network such as PSU, CMKL, KMITL, MU, CMU and KKU.

### Master of Engineering in Artificial Intelligence and System Engineering

The program aims to develop graduates with advanced systematic knowledge in artificial intelligence and digital technology. The curriculum emphasizes research and development that addresses the needs of the industrial and private sectors, aiming to increase the number of qualified personnel in the field of artificial intelligence engineering and digital technology. This contributes to economic development and attracts technology-based investments in Thailand. Additionally, the program uses a collaborative educational approach between higher education institutions, the private sector, and industries for research topics.

### Master of Science Program in Computing

Teaching and conducting basic research, or problem-solving research and development, focussing on the use of industrial and social problems to develop and enhance problem-solving skills and apply computing technologies, body of knowledge and computer innovation to benefit and advance social and economic development.

Main Research Areas :

| | |
|---|---|
| Software Engineering | Digital Media |
| Artificial Intelligence | Data Science |
| Computer Networking | Database Systems |
| Cloud Computing | Knowledge Management |
| Blockchain | Internet of Things (IoT) |

## International Collaboration & Cooperation

- Joint degree program
- Academic staff exchange
- Student exchange
- Visiting professors
- Collaborative research and academic services in the fields of Software Engineering, Deep Learning, Image processing, Machine Learning, Computer Network, Cloud Computing, Linux-Unix System Administration, Graphic Design, Infographics Design, Creative-Design Thinking, E-commerce, Business Transformation, Operation and Management, Programming (Java, C, C++, Python, R, etc.), IoT (Internet of Things), Mobile Application Development and Blockchain

## List of Collaborations

### A: International Collaborators

- University North, Croatia
- Shibaura Institute of Technology, Japan
- Sojo University, Japan
- Musashino University, Japan
- Osaka Metropolitan University, Japan
- Gwangju Institute of Science and Technology, South Korea
- Université de Pau et des Pays de l'Adour (UPPA), France

### B: National Collaborators

- Artificial Intelligence Association of Thailand (AIAT)
- ECTI Association
- The Association of Council of IT Deans (CITT)
- Phuket Provincial Education Council
- Patong Hotel Association
- National Science and Technology Development Agency (NSTDA)

## List of Research/Collaboration Centres

- AIAT Collaboration Centre Office
- Andaman Intelligent Tourism and Service Informatics Center (AI-TaSI)
- PSU Blockchain Research Team (BLOCK)
- Artificial Intelligence Innovation Laboratory (AiiLab)
- Digital Media Lab (DML)
- INFormation for Andaman Region (iNFAR)
- System Intelligence Laboratory
- EDen Laboratory

## Internship or Training Programs

- ECE (Ecole Centrale d'Electronique de Paris) internships
- ASEAN Future Leaders Summit
- Cooperative Education


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