



Announcement

Electives semester 2/2019

(For juniors ID 60 and seniors ID 59)

Computer Science programme will offer 5 CSC Major elective courses for semester 2/2019.

Important note: The elective course selection process will use **a balloting system.**
This following are the steps.

1. Seniors reserve courses on **Monday 25 November, 2019** at SIT web site (CS News) **Start at 9.00 am. – 12.00 pm. (noon)** Available seats for each elective will be posted during the reservation process.
2. Name list of successful reservation will be posted by 5.00 pm.
3. Seniors and juniors reserve courses on **Tuesday 26 November, 2019** at SIT web site (CS News) **Start at 9.00 am. – 12.00 pm. (noon)** Available seats for each elective will be posted during the reservation process.
4. Name list of successful reservation will be posted on **Wednesday 27 November, 2019.**

*However, juniors who can reserve a major elective must have the minimum GPAX more than ≥ 2.00

***Students who would like to change courses after reservation must submit the request form for change course to Chairperson of Computer Science for approval.

(Use username and password from SIT student account.)

Major Elective : 18 credits are required for graduation

Each course not less than **10 students**

1. CSC 344 Decision Support Systems (25 seat)
2. CSC 491 Special Topic I : Data Science (20 seat)
3. CSC 492 Special Topic II : Cloud Infrastructure (25 seat)
4. CSC 494 Special Topic IV: Business Process Management (20 seat)
5. CSC 532 Machine Learning (25 seat)

Junior Year courses/semester 2/2019 (CS ID 60)

| Code | Subjects | Credits |
|--------------|--|-----------------------------|
| LNG 411 | English for Employment | 3 |
| CSC 498 | Computer Science Project I | 3 |
| CSC xxx | Computer Science Elective 3 | 3 |
| MTH 102 | Mathematics 2 | 3 |
| GEN xxx | GEN Elective 1 | 3 |
| CSC 395 | Career Training (Career Training) | 3 |
| Total | | 18 (Career Training) |

- Students who register more than 19 credits must submit the request form for registering more than required credits at Registrar's office with advisor's approval.
- Industrial Training will be done during the summer session between junior and senior year, but student must register for the three credits during semester 2 of their junior year.

Senior Year courses /semester 2/2019 (CS ID 59)

| Code | Subjects | Credits |
|--------------|-----------------------------|----------|
| CSC xxx | Computer Science Elective 5 | 3 |
| CSC xxx | Computer Science Elective 6 | 3 |
| Total | | 6 |

- Students who register more than 19 credits must submit the request form for registering more than required credits at Registrar's office with advisor's approval.

Computer Science Electives

1. CSC 344 Decision Support Systems

Credits: 3(3-0-6)

Prerequisites: CSC 340 Artificial Intelligence

Lecturer: Assoc.Prof.Dr.Bunthit Watanapa

This course covers the following topics: overview of information systems, DSS vs. other IS, human decision making processes, systems and models, types of DSS, implementation of DSS, hardware and supporting OS and platforms, representation models, optimization, mathematical models, AI and simulation.

2. CSC 491 Special Topic I: Data Science

Credits: 3(3-0-6)

Prerequisites: CSC 210 Analysis and Design of Algorithms

Lecturer: Asst.Prof.Dr.Chakarida Nukoolkit

The course covers all aspects involved with applying data mining or predictive analytics for competitive advantage. The subtopics include how to apply data science in an organization. How to treat data as a business asset that requires careful investment in order to gain real value. How to approach business problems data-analytically, using the data-mining process to gather good data in the most appropriate way. How to learn general concepts for actually extracting knowledge from data. Data-analytics thinking. Business problems and data science solutions. Predictive modeling. Decision analytics thinking. Visualizing model performance. Case studies of applying data science principles.

3. 3. CSC 492 Special Topic II : Cloud Infrastructure

Credits: 3(3-0-6)

Prerequisite: -

Lecturer: Dr. Anuchart

Course description will be announced on 18 November, 2019.

4. CSC 494 Special Topic IV: Business Process Management

Credits: 3(3-0-6)

Prerequisite: -

Lecturer: Dr. Worarat Krathu

Introduction to BPM, BPM lifecycle including process identification, process modeling (modeling language and tools), process redesign, process execution, process analysis, simulation and monitoring (with process mining). The course is designed to emphasize in the phase of process modeling, process execution as well as process analysis, simulation and monitoring that are relevant to the aspects of computer science.

5. CSC 532 Machine Learning

Credits: 3(3-0-6)

Prerequisite: CSC 261 Statistics for Scientist and CSC 105 Computer Programming II

Lecturer: Assoc.Prof. Dr. Jonathan H. Chan

This course covers the following topics: introduction to machine learning, probability review, linear regression models, classification, Bayesian learning, decision tree learning, artificial neural networks, clustering, genetic algorithm, and principal component analysis. The course project will cover practical case studies on application of machine learning.
