



# Mahidol University

*Wisdom of the Land*



Faculty of  
Information and Communication Technology

## Master of Science in Cyber Security and Information Assurance

The Master of Science in Cyber Security and Information Assurance program is designed to support rapid development of Thai Digital LifeStyle under the settings of ASEAN Economic Community by training students with both theoretical and practical knowledge and skills in cyber security and information assurance which are key to the development of Thai Digital Economy industry.

This one-year program is aimed for two types of students: those who would like to be hands-on in securing network software and equipment and those who would like to manage how information is stored and distributed in an organization. The "cyber security" track will target the former type of students and the "information assurance" track will target the latter type of students. The program is developed based inputs from experts in both academic and industry.



# Master of Science in Cyber Security and Information Assurance

## Courses

| Module 1 (Aug - Dec)  | Module 2 (Jan - May)   |
|---|--|
| <ul style="list-style-type: none"> <li>• Computer and Network Security</li> <li>• Digital Forensics Technologies and Techniques</li> <li>• Cyber Ethics and Law</li> <li>• Information Security Management</li> </ul> | <ul style="list-style-type: none"> <li>• Fraud Analysis and Detection</li> <li>• Information Assurance and Risk Analysis</li> <li>• Thesis (thesis track)</li> <li>• Elective course</li> <li>• Elective course (project track)</li> </ul> |
| Module 3 (June - Aug)   |  |
| <ul style="list-style-type: none"> <li>• Thesis (thesis track)</li> <li>• Research project (project track)</li> <li>• Elective course</li> <li>• Elective course (project track)</li> </ul>                           |  |

## Elective courses

| Cyber Security   | Information Assurance  |
|--|--|
| <ul style="list-style-type: none"> <li>• System Hardening and Penetration Testing</li> <li>• Reverse Engineering and Vulnerability Analysis</li> <li>• Network Forensics</li> <li>• Mobile Security</li> <li>• Cloud Security</li> <li>• Ethical Hacking</li> <li>• Software Lab for Cyber Security</li> <li>• Special Topics in Cyber Security and Forensics</li> </ul> | <ul style="list-style-type: none"> <li>• Application of Cryptography</li> <li>• Authentication Technology Management</li> <li>• Secure Software Design</li> <li>• Information and Social Networks Security</li> <li>• E-Services Security Management</li> <li>• Incident Response Management</li> <li>• Special Topics in Information Assurance</li> </ul> |



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## Program information

**Length of program:** 1 year

**Class hours:** Weekday evening and weekends

**Language of Instructions:** English

### Scholarships:

- **Type 1:** available for students with good academic qualification. Students with excellent CGPA after first semester of study are eligible for scholarship.
- **Type 2:** Available for university partners

### Tuition fees:

- 270,000 baht (local Thai student rate)
- 480,000 baht (International student rate)

**Qualification:** Bachelor degree in computer related area with GPA > 2.5.



