

# SARJANA KESELAMATAN SIBER (KAEDAH MODULAR)

## MASTER OF CYBER SECURITY(MODULAR MODE)

### Pengenalan Program / *Introduction*

The Master of Cyber Security program is an advanced degree program designed to equip students with the knowledge and skills necessary to protect digital information systems from cyber threats. In today's interconnected world, where technology plays a critical role in almost every aspect of our lives, the need for cyber security professionals has never been greater.

The program focuses on developing expertise in areas such as network security, cryptography, incident response, ethical hacking, and risk management. Students learn about the latest techniques used by hackers and how to counteract them effectively. They also gain a deep understanding of the legal and ethical considerations in the field of cyber security.

One of the key objectives of the program is to train students to think like hackers. By understanding the mindset and techniques of cyber criminals, students can better anticipate and respond to threats. They learn to identify vulnerabilities in systems and develop strategies to protect against attacks.

The curriculum of the Master of Cyber Security program typically includes a combination of theoretical coursework and hands-on practical exercises. Students may have the opportunity to work on real-world projects, simulate cyber attacks, and analyze security breaches. This experiential learning approach ensures that graduates are well-prepared to handle the challenges of the rapidly evolving cyber security landscape.

Upon completion of the program, graduates are equipped with the knowledge and skills to pursue various career paths in cyber security. They can work as security analysts, ethical hackers, information security managers, or consultants for government agencies, corporations, or non-profit organizations. The demand for cyber security professionals is high, and job prospects in this field are expected to continue growing in the coming years.

### Durasi / *Duration*

- Full time : 2-4 semester
- Part time : 4-8 semester

### Hasil Pembelajaran Kursus / *Course Learning Outcome*

#### PROGRAMME LEARNING OUTCOME

- Employ basic and advanced knowledge in principles, theories, and scientific methods for effective solutions to cyber security problems

- Protect the organizational cyber assets as well as to plan, strategize and launch cyber counter-attack
- Implement a cyber security management standard for organization
- Supervise, communicate and work in team and have entrepreneur standard
- Embrace cyber ethics value and continuously explore knowledge through lifelong learning

## Yuran / Fees

RM24,000 for LOCAL candidate.

Complete program fee is RM24,000 which will be paid in THREE (3) installments (FULL-TIME) on per semester basis (1st Sem:RM9,000, 2nd Sem:RM7,500 and 3rd Sem: RM7,500),  
OR

FOUR (4) installments (PART-TIME) on per semester basis (1st Sem:RM7,200, 2nd Sem:RM5,600, 3rd Sem:RM5,600 and 4th Sem: RM5,600)

RM32,000 for INTERNATIONAL candidate.

Complete program fee is RM32,000 which will be paid in THREE (3) installments (FULL-TIME/PART-TIME) on per semester basis (1st Sem:RM12,000, 2nd Sem:RM10,000 and 3rd Sem: RM10,000)

## Struktur Kursus / Course Structure

Structure	Course Credit	Course
Compulsory	20 credits (equivalent to 5 courses)	<ul style="list-style-type: none"> <li>» TX6114 Computer Security</li> <li>» TX6124 Network Security</li> <li>» TX6134 Cyber Law and Ethics</li> <li>» TX6144 Information Security Management</li> <li>» TM6112 Research Method in Computing (AUDIT)</li> </ul>
Electives	8 credits (equivalent to 2 courses)	<p>Choose two (2) modules from the following list:</p> <p><b>Platform Security Track</b></p> <ul style="list-style-type: none"> <li>» TX6224 Intrusion Detection and Prevention</li> <li>» TX6244 Ethical Hacking and Penetration Testing</li> <li>» TX6254 Security Audit and Assessment</li> </ul> <p><b>Digital Forensics Track</b></p> <ul style="list-style-type: none"> <li>» TD6104 Fundamental of Digital Forensics</li> <li>» TD6314 Digital Media Forensic Analysis</li> <li>» TD6214 Data Recovery and Analysis</li> </ul> <p><b>Financial Technology Security Track (endorsed by Standard Chartered)</b></p> <ul style="list-style-type: none"> <li>» TX6334 Digital Banking and Financial Services</li> <li>» TX6344 Financial Technology and Risk</li> </ul>
Project	12 credits	<ul style="list-style-type: none"> <li>» TX609C Project</li> </ul>
Total	40 Credits	

## Kelebihan Program / *Advantages of Program*

CSM certification examination + Financial Technology Security track endorsed by Standard Chartered

## Syarat Kemasukan / *Entry Requirements*

A Bachelor Degree in Computing with minimum CGPA of 2.75 from Universiti Kebangsaan Malaysia or other universities recognised by the UKM Senate,

or

Other relevant professional/vocational qualifications which is recognised as equivalent to an honours degree by the Senate with relevant working computing experience

TOEFL/IELTS/MUETS/CEFR

For international candidates, requirements for English Language is:

minimum 550 (PBT) / 46-59 (iBT) score for the Test of English as a Foreign Language (TOEFL) or 5.5 for the International English Language Testing System (IELTS) or Band 3 for Malaysian University English Test (MUET) or level B2 for the Common European Framework of Reference for Languages (CEFR/CEFR) as a prerequisite for entry into graduate programmes at FTSM.

Language Requirement

Bahasa Malaysia Courses (4 units)

All international students are required to follow two (2) Malay language courses equivalent to 4 units offered by the Citra Centre. Exemptions can be given to candidates who have taken and passed Malay language courses organized by other bodies recognized by the UKM Senate.

## Mod Program / *Mode of Program*

Modular Mode

## Cara Memohon / *How to Apply*

Pendaftaran secara online melalui <https://join.ukm.my/> setahun dua pengambilan (pengambilan Mac dan September). Yuran permohonan sebanyak RM50.00 (untuk pemohon tempatan) dan USD30.00 atau RM100.00 (untuk permohonan antarabangsa) dibuat ke akaun CIMB Bank Berhad atas nama Pusat Kembangan Pendidikan (8002233817).

*Online registration via <https://join.ukm.my/> (Mac and September Intake). Application fee of RM50.00 (for Malaysian application), USD30.00, or MYR100.00 (for International applicants) has been paid to Pusat Kembangan Pendidikan, CIMB account number (8002233817).*

## Hubungi / *Contact*

En. Syahir Hazmi bin Samsudin  
Pengurus Projek 2 Eks/PBJJ  
UKMShape  
017 2502034  
[syahirhazmi@ukm.edu.my](mailto:syahirhazmi@ukm.edu.my)

Dr. Wandeep Kaur a/p Ratan Singh  
Masters by Module Coordinator  
Faculty of Information Science & Technology  
Universiti Kebangsaan Malaysia  
43600 Bangi, Selangor, Malaysia  
+6 03 - 8921 6176  
+6 03 - 8921 6184  
[sarjanakhas.ftsm@ukm.edu.my](mailto:sarjanakhas.ftsm@ukm.edu.my)