

**FACULTY COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
UNIVERSITI PUTRA MALAYSIA**



**POSTGRADUATE PROGRAMME BY COURSEWORK
MASTER OF INFORMATION SECURITY**

Master of Information Security programme is designed to educate students with adequate knowledge and abilities to succeed in the field of information security. Learners will be able to build the professional skills required for a senior position in the Information Technology (IT) industry through this programme.

Student enrolment:

Full-time – 3 Semester (40 Credit hour)

Part-time – 4 Semester (40 Credit hour)

A. ENTRY REQUIREMENTS:

- i. A Bachelor's degree in computing or related fields with a minimum CGPA of 2.75; OR
- ii. A Bachelor's degree in computing or related fields with a CGPA of 2.500 – 2.749 can be accepted based on a minimum of 1 year of work experience in the related field; OR
- iii. A Bachelor's degree in computing and related fields with a CGPA of 2.000 – 2.499 can be accepted based on a minimum of 5 year of working experience in the related field and subject to passing a thorough rigorous assessment; OR
- iv. A Bachelor's degree in Non-Computing field with a minimum CGPA of 2.75 can be accepted subject to passing a thorough rigorous assessment to identify the appropriate prerequisite courses that equivalent to their working experience (minimum 3 years) in Computing or related fields; OR
- v. A Bachelor's degree in Non-Computing field with a minimum CGPA of 2.75 can be accepted subject to passing appropriate prerequisite courses; OR
- vi. Other qualifications equivalent to a Bachelor's degree in Computing or related fields recognised by the Government of Malaysia must fulfil the requirement on item (i), (ii) or (iii).

English language entry requirement for international applicants:

A minimum score of 550 for the TOEFL Paper-based Test (Academic Version) or Band 6.0 for IELTS (Academic Training), or 79 – 80 for TOEFL Internet-based Test (Academic Version) or level 109 for CIEP at ELS Language Centre.

B. PROGRAMME MODULE:

Core Course	Elective Course – Choose 3 courses
CCS5090 - Research Methods in Computer Science	CCS5502 - Penetration Testing
CCS5207 - Cyber Ethics and Law	CCS5509 – Trusted Computing
CCS5500 - Security in Computing	CCS5511 - Software Security
CCS5503 - Cryptography and Security Protocol	CCS5512 - Steganography
CCS5505 - Internet and Cloud Computing Security	CCS5514 - Intrusion Detection System
CCS5506 - Information Security Management	CCS5517 - Advanced Cryptography
CCS5508 - Computer Forensics and Investigations	CCS5529 - Cryptanalysis
CCS5991 - Project	CCS5537 – Blockchain Technology
	CCS5800 – Special Topics in Information Security

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C. TUITION FEES

The fee structure for this programme consists of basic fee and credit-based fee

a) Basic Fee

Semester	Local	International
First Semester	RM1,425	RM2,475
Second and Subsequent Semesters	RM1,175	RM2,225

b) Credit-based Fee

Student	Amount	Credit	Total Amount
Local	RM250 per credit	40	RM10,000
International	RM400 per credit		RM16,000

NOTE: The fee amount is subject to change from time to time WITHOUT prior notice by the University. Prospective and current students are advised to check the SGS website for any fee changes not earlier than one (1) month before the start of each semester/new students' registration. All fees must be paid upon registration.

D. STUDY SCHEME FOR FULL-TIME PROGRAMME

(Max. 15 credits per semester; YW = Compulsory, EL = Elective)

YEAR 1					
SEMESTER 1			SEMESTER 2		
CODE	COURSE	CREDIT/ STATUS	CODE	COURSE	CREDIT/ STATUS
CCS5090	Research Methods in Computer Science	3 YW	CCS5506	Information Security Management	3 YW
CCS5500	Security in Computing	3 YW	CCS5503	Cryptography and Security Protocol	3 YW
CCS5207	Cyber Ethics and Law	3 YW	CCS5991	Project**	2 YW
CCS5505	Internet and Cloud Computing Security	3 YW	CCSXXXX	Elective 1	3 EL
CCS5508	Computer Forensics and Investigations	3 EL	CCSXXXX	Elective 2	3 EL
TOTAL CREDIT		15	TOTAL CREDIT		12

Note: **Course CCS5991 Project Paper for 2 credit hours in the 2nd semester is for registration purposes only and does not count towards total credits.

YEAR 2		
SEMESTER 3		
CODE	COURSE NAME	CREDIT/ STATUS
CCS5991	Project	8 YW
CCSXXXX	Elective 3	3 EL
TOTAL CREDIT		13

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E. STUDY SCHEME FOR PART TIME PROGRAMME

(Max. 15 credits per semester; YW = Compulsory, EL = Elective)

YEAR 1					
SEMESTER 1			SEMESTER 2		
CODE	COURSE	CREDIT/ STATUS	CODE	COURSE	CREDIT/ STATUS
CCS5207	Cyber Ethics and Law	3 YW	CCS5090	Research Methods in Computer Science	3 YW
CCS5508	Computer Forensics and Investigations	3 YW	CCS5506	Information Security Management	3 YW
CCS5500	Security in Computing	3 YW	CCS5503	Cryptography and Security Protocol	3 YW
			CCSXXXX	Elective 1	3 EL
TOTAL CREDIT		9	TOTAL CREDIT		12

YEAR 2					
SEMESTER 3			SEMESTER 4		
CODE	COURSE	CREDIT/ STATUS	CODE	COURSE	CREDIT/ STATUS
CCS5505	Internet and Cloud Computing Security	3 YW	CCS5991	Project	8 YW
CCS5991	Project**	2 YW	CCSXXXX	Elective 3	3 EL
CCSXXXX	Elective 2	3 EL			
TOTAL CREDIT		6	TOTAL CREDIT		13

*Note: SSK5500, SSK5090 and SSK5991 will be offered every semester and other courses will be offered in alternate semesters. SSK5090 course should be taken before you take SSK5991. **SSK5991 Project for 2 credit hours in the 2nd semester is for registration purposes only and is not counted in the total credits.*

For further information on academic programmes, please contact:

Application for Admission: School of Graduate Studies Zone 4, Off Jalan Stadium Universiti Putra Malaysia, 43400 Serdang, Selangor MALAYSIA Tel: (603) 9769 4218/ 4223 / 4165 / 4169 / 4225	Programme Coordinator Master of Information Security (by coursework) Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, 43400 Serdang, Selangor MALAYSIA Tel: (603) 9769 3071 Email: ifah@upm.edu.my Website: http://www.fsktm.upm.edu.my
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For online application refer: https://sgs.upm.edu.my/prospective_students-2964