Full-time 4-year Undergraduate Degrees - Minor Programme

1.	Title of Minor Programme & Programme Code	Minor in Information Security (46409-YIS)
2.	Offering Department(s) in Full & in Abbreviation	Department of Electrical and Electronic Engineering (EEE)
3.	Requirement for Claiming the Minor Award	Attained 18 credits from the subjects listed under section 7, of which at least 9 credits are at level 3 or above. (Note: Students should observe the pre-requisites requirement when choosing the subjects. Such information is available from the BEng (Hons)/BSc (Hons) Scheme in Information and Artificial Intelligence Engineering (46409) Scheme Programme Booklet)
4.	Exclusive Programme(s) & Programme Code(s)	BSc (Hons) in Artificial Intelligence and Information Engineering (46409-AIE) BEng (Hons) in Electronic Systems and Internet-of-Things (46409-ESI) BSc (Hons) in Information Security (46409-INS) BEng (Hons) in Internet-of-Things with a Secondary Major in Artificial Intelligence and Data Analytics (46409-XAI)
5.	Effective Year	For students admitted from 2023-24 onwards
6.	Professional Recognition	N/A

7.	Subject Code	Subject Title	Subject Offering Department/ Faculty	Level	Credit Value	Subject Nature (Compulsory /Elective)
	AMA1110	Basic Mathematics I – Calculus and Probability & Statistics	AMA	1	3	Elective
	AMA1120	Basic Mathematics II –Calculus and Linear algebra	AMA	1	3	Elective
	EIE1003	Foundations of Data Science	EEE	1	3	Elective
	EIE1004	Introduction to Information and Artificial Intelligence Engineering	EEE	1	3	Elective
	COMP2012	Discrete Mathematics	COMP	2	3	Elective
	COMP2013/ DSAI2201	Data Structures and Algorithms	COMP/ DSAI	2	3	Elective
	COMP2432	Operating Systems	COMP	2	3	Elective
	EIE2105	Digital and Computer Systems	EEE	2	3	Elective
	ENG2002	Computer Programming	FENG	2	3	Elective
	ENG2003	Information Technology	FENG	2	3	Elective
	COMP3311	Applied Cryptography	COMP	3	3	Elective
	COMP3334	Computer Systems Security	COMP	3	3	Elective
	COMP3335	Database Security	COMP	3	3	Elective
	COMP3512	Legal Aspects, Professionalism and Ethics of Computing	COMP	3	3	Elective
	EIE3112	Database System	EEE	3	3	Elective

EIE3117	Integrated Project	EEE	3	3	Elective
EIE3129	IoT Security	EEE	3	3	Elective
EIE3130	Network Security	EEE	3	3	Elective
EIE3320	Object-Oriented Design and Programming	EEE	3	3	Elective
EIE3333	Data and Computer Communications	EEE	3	3	Elective
EIE3343	Computer Systems Principles	EEE	3	3	Elective
COMP4127	Information Systems Audit and Control	COMP	4	3	Elective
COMP4334	Principles and Practice of Internet Security	COMP	4	3	Elective
COMP4442	Service and Cloud Computing	COMP	4	3	Elective
COMP4512	Intellectual Property Protection and Management	COMP	4	3	Elective
DSAI4201	Data Protection and Security	DSAI	4	3	Elective
DSAI4202	E-payment and Cryptocurrency	DSAI	4	3	Elective
DSAI4204	Data Mining and Data Warehousing	DSAI	4	3	Elective
EIE4113	Wireless and Mobile Systems	EEE	4	3	Elective
EIE4114	Digital Forensics for Crime Investigation	EEE	4	3	Elective
EIE4116	Surveillance Studies and Technologies	EEE	4	3	Elective
EIE4118	Intrusion Detection and Penetration Test	EEE	4	3	Elective
EIE4121	Machine Learning in Cyber-Security	EEE	4	3	Elective
EIE4432	Web Systems and Technologies	EEE	3	3	Elective

Remark:

i.   Please note that the subject pre-requisite requirements of the BSc (Hons) in Information Security (46409-INS) will also apply to this Minor in IS programme. For details of the subject pre-requisites of the 46409-INS programme, please refer to the 46409-INS programme booklet which is available at the departmental website at https://www.polyu.edu.hk/eee/study/information-for-current-students/programme-documents/.

ii. For detailed syllabus and subject pre-requisite/co-requisite/exclusion requirement, please visit the following AR subject registration website:

http://www.polyu.edu.hk/student > Subject Registration > Subject Information

iii. The above requirements and list of subjects are subject to review and changes which the Department can decide to make from time to time. Students will be informed of the changes as and when appropriate.

October 2024