

Full-time 4-year Undergraduate Degrees - Minor Programme

1.	Title of Minor Programme & Programme Code		Minor in Electronic and Information Engineering (42470-YEI)			
2.	Offering Department(s) in Full & in Abbreviation		Department of Electronic and Information Engineering (EIE)			
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. Relevant information is available from the 42470 Programme Booklet)			
4.	Exclusive Programme(s) & Programme Code(s)		BEng (Hons) in Electronic and Information Engineering (42470)			
5.	Effective Year		For students admitted from 2017/18 onwards			
6.	Professional Recognition		Students taking the Minor in EIE programme may not satisfy the academic requirements for Corporate Membership of the Hong Kong Institution of Engineers (HKIE).			
7.	Subject Code	Subject Title	Subject Offering Department/ Faculty	Level	Credit Value	Subject Nature (Compulsory /Elective)
	AMA2111	Mathematics I	AMA	2	3	Elective
	AMA2112	Mathematics II	AMA	2	3	Elective
	EIE2100	Basic Circuit Analysis	EIE	2	3	Elective
	EIE2102	Basic Electronics	EIE	2	3	Elective
	EIE2211	Logic Design	EIE	2	3	Elective
	ENG2002	Computer Programming	FENG	2	3	Elective
	ENG2003	Information Technology	FENG	2	3	Elective
	EIE3100	Analogue Circuit Fundamentals	EIE	3	3	Elective
	EIE3109	Mobile Systems and Application Development	EIE	3	3	Elective
	EIE3112	Database System	EIE	3	3	Elective
	EIE3123	Dynamic Electronic Systems	EIE	3	3	Elective
	EIE3305	Integrated Analogue and Digital Circuits	EIE	3	3	Elective
	EIE3311	Computer System Fundamentals	EIE	3	3	Elective
	EIE3312	Linear Systems	EIE	3	3	Elective
	EIE3320	Object-oriented Design and Programming	EIE	3	3	Elective
	EIE3331	Communication Fundamentals	EIE	3	3	Elective
	EIE3333	Data and Computer Communications	EIE	3	3	Elective
	EIE4100	Computer Vision and Pattern Recognition	EIE	4	3	Elective
	EIE4102	IP Networks	EIE	4	3	Elective
	EIE4104	Mobile Networking	EIE	4	3	Elective
	EIE4105	Multimodal Human Computer Interaction Technology	EIE	4	3	Elective
	EIE4106	Network Management and Security	EIE	4	3	Elective

EIE4108	Distributed Systems and Cloud Computing	EIE	4	3	Elective
EIE4110	Introduction to VLSI and Computer-Aided Circuit Design	EIE	4	3	Elective
EIE4113	Wireless and Mobile Systems	EIE	4	3	Elective
EIE4114	Digital Forensics for Crime Investigation	EIE	4	3	Elective
EIE4116	Surveillance Studies and Technologies	EIE	4	3	Elective
EIE4118	Intrusion Detection and Penetration Test	EIE	4	3	Elective
EIE4119	Mobile Device System Architecture	EIE	4	3	Elective
EIE4122	Deep Learning and Deep Neural Networks	EIE	4	3	Elective
EIE4402	Power Electronics	EIE	4	3	Elective
EIE4413	Digital Signal Processing	EIE	4	3	Elective
EIE4428	Multimedia Communications	EIE	4	3	Elective
EIE4432	Web Systems and Technologies	EIE	4	3	Elective
EIE4435	Image and Audio Processing	EIE	4	3	Elective
EIE4449	Optical Communication Systems and Networks	EIE	4	3	Elective

Remark:

- i. Please note that the subject pre-requisite requirements of the BEng(Hons) in Electronic and Information Engineering (42470) will also apply to this Minor in EIE programme. For details of the subject pre-requisites of the 42470 programme, please refer to the 42470 programme booklet which is available at the EIE General Office (DE614), and the departmental website at https://www.polyu.edu.hk/eie/study/undergraduate-programmes/beng_eie_42470-syl/.
- ii. For detailed syllabus and subject pre-requisite/co-requisite/exclusion requirements, please visit the following website:
eStudent (<http://www.polyu.edu.hk/student>) > Information > Subject Search
- 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.

September 2022