

## 2022 Curricula of the International Master's Program

First year (Sept. 2022-June 2023)

First year (Sept. 2022-June 2023)									
Fall semester					Spring semester				
Course Classification	Courses	credits	hours	Course No.	Course Classification	Courses	credits	hours	Course No.
Obligatory	Independent Study (I)	0	2		Obligatory	Independent Study (II)	0	2	
Obligatory	Spoken Chinese (1A)	2	2		Obligatory	Spoken Chinese (1B)	2	2	
Obligatory					Obligatory				
Obligatory	semester total	2	4		Obligatory	semester total	2	4	
Elective	Artificial Intelligence and Applications	3	3		Elective	Fuzzy Theory Applications	3	3	
Elective	Statistical Modeling and Applications	3	3		Elective	Cryptography and Network Security	3	3	
Elective	Advanced Graphic Monitoring	3	3		Elective	Embedded Operating System	3	3	
Elective	Advanced Servo Control	3	3		Elective	Digital Image Processing and its Applications	3	3	
Elective	Standalone Embedded System Design	3	3		Elective	IOT Technology and Applications	3	3	
Elective	Digital System Design	3	3		Elective	Digital Signal Processing and its Applications	3	3	
Elective	Analog Integrated Circuit Design	3	3		Elective	Advanced Linux Operating System	3	3	
Elective	Advanced Virtual Instrumentation	3	3		Elective	Digital Communication	3	3	
Elective	Electric Power Quality and its Applications	3	3		Elective	Digital Control Systems	3	3	

Second year (Sept. 2023-June 2024)

Second year (Sept. 2023-June 2024)									
Fall semester					Spring semester				
Course Classification	Courses	credits	hours	Course No.	Course Classification	Courses	credits	hours	Course No.
Obligatory	Independent Study (III)	0	2		Obligatory	Independent Study (IV)	0	2	
Obligatory					Obligatory				
Obligatory	semester total	0	2		Obligatory	semester total	0	2	
Elective	Neural Networks and Deep Learning	3	3		Elective	Machine Learning	3	3	
Elective	Mobile Communication and Cloud Computing	3	3		Elective	Pattern Recognition	3	3	
Elective	Intelligent Control	3	3		Elective	Network-Based Embedded Systems	3	3	
Elective	Medical Ultrasound	3	3		Elective	Computer Application in Power Systems	3	3	
Elective	Medical Instrumentation Design	3	3		Elective	Assistive Device Design	3	3	
Elective	Advanced Power Electronics	3	3		Elective	Switching Power Supply	3	3	
Elective	Spoken Chinese (2A)	1	2		Elective	Spoken Chinese (2B)			

### Notes :

1. Minimum course credits for the master's degree: 28, including 4 obligatory course credits, 24 elective course credits. 6 thesis credits are also required in addition to the aforementioned course credits.
2. Prior to graduation, a graduate student must complete 24 elective course credits from courses offered by the Department of Computer Science and Information Engineering (referred to as "this department" in the rest of the notes herein.)
3. Course credits obtained outside this department may be counted as course credits for the master's degree only if they are approved by the chair of this department.
4. Each graduate student must present the written proof of acceptance of a paper submission in a refereed conference or journal before applying for thesis defense. Such proofs will be examined by the departmental committee of academic affairs.
5. Elective courses listed here may be subject to change.
6. The grade for thesis credits is the average of grades given by the thesis defense committee members. The graduation grade is the weighted average of the grades of course credits and the grade of thesis credits.
7. Chinese course could be waived if international students who pass the "Basic Level" of Chinese Proficiency Test (TOP or HSK).