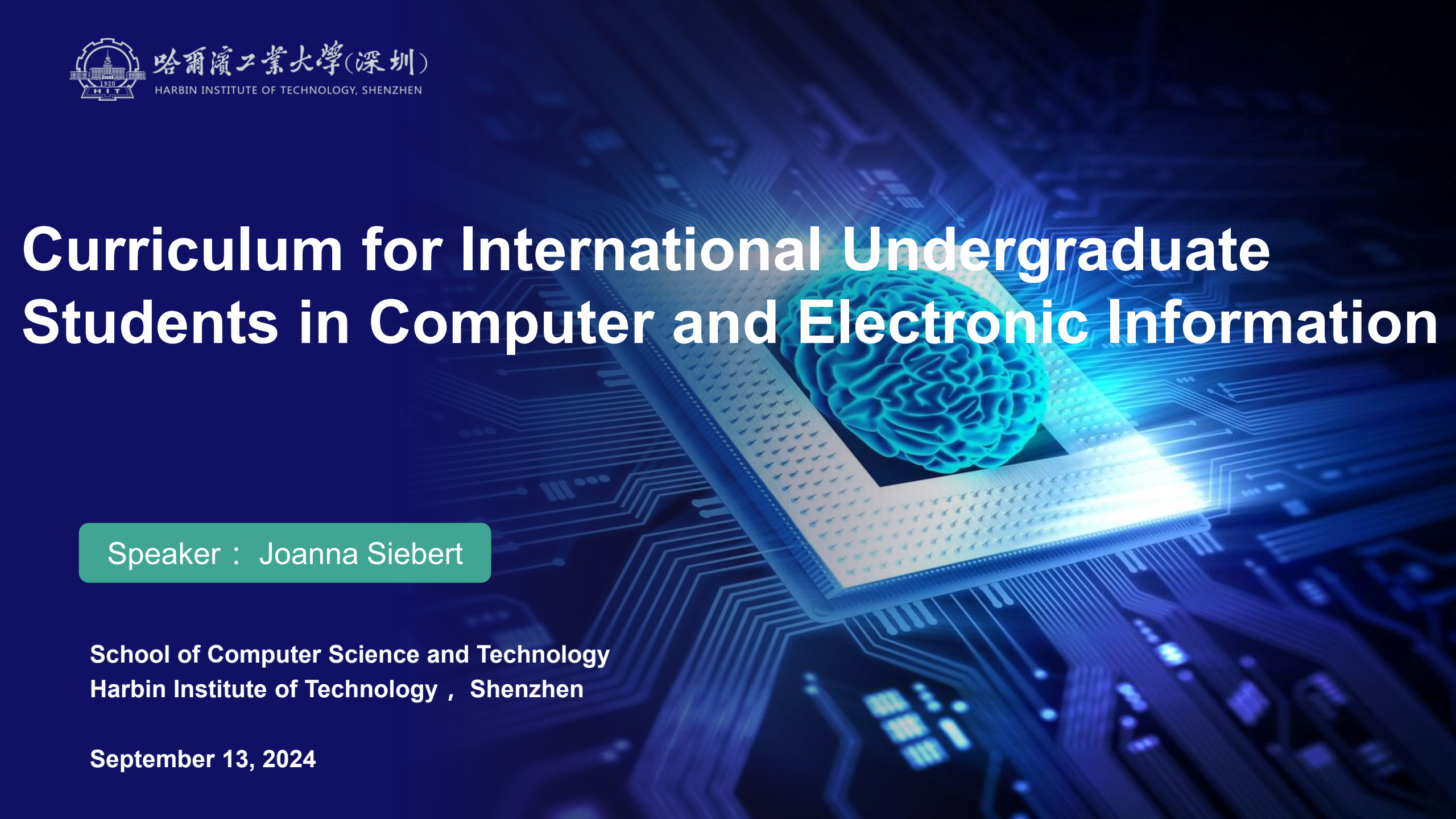


哈爾濱工業大學(深圳)
HARBIN INSTITUTE OF TECHNOLOGY, SHENZHEN

Curriculum for International Undergraduate Students in Computer and Electronic Information

Speaker： Joanna Siebert

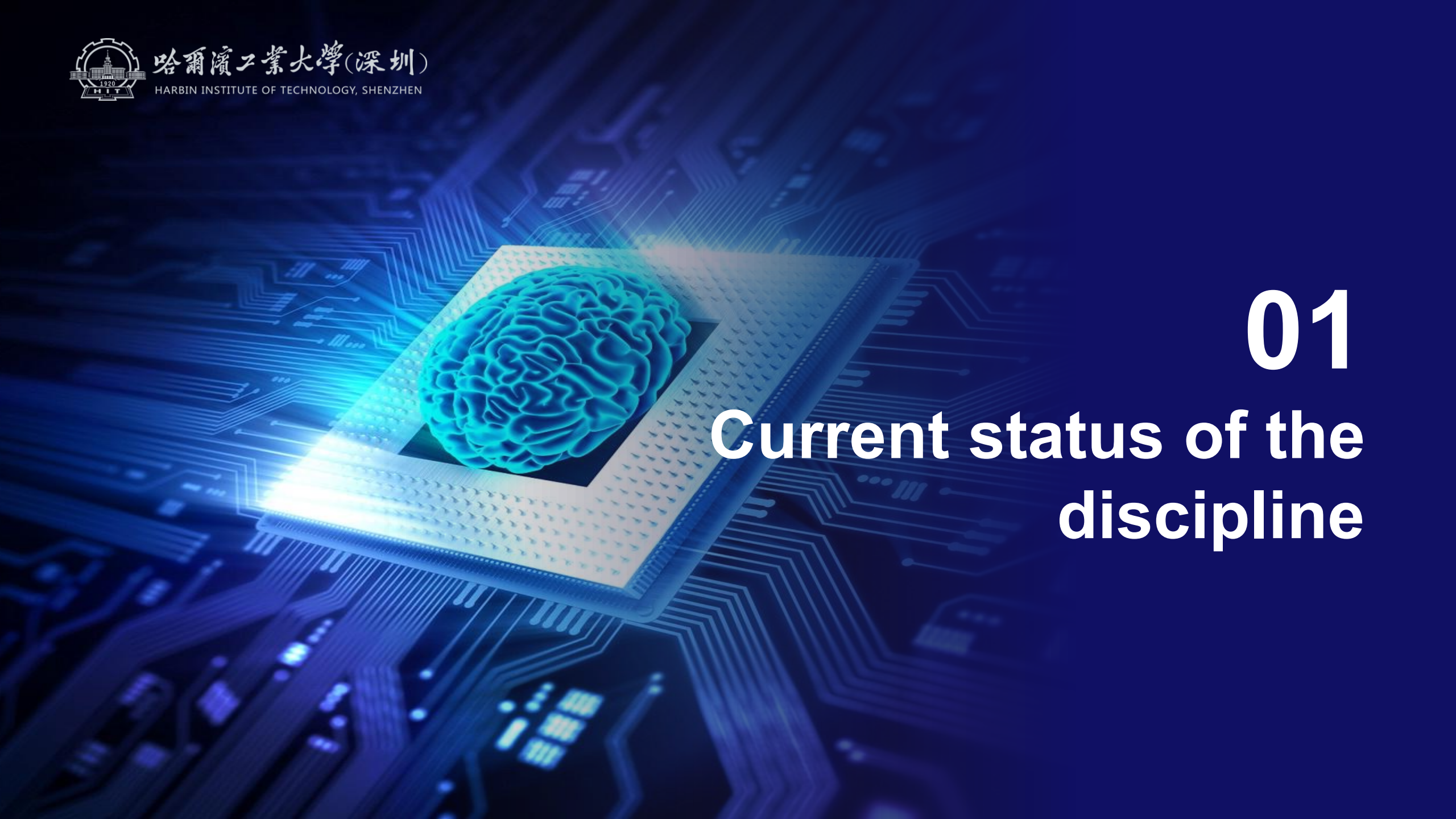
School of Computer Science and Technology
Harbin Institute of Technology， Shenzhen

September 13, 2024

Contents

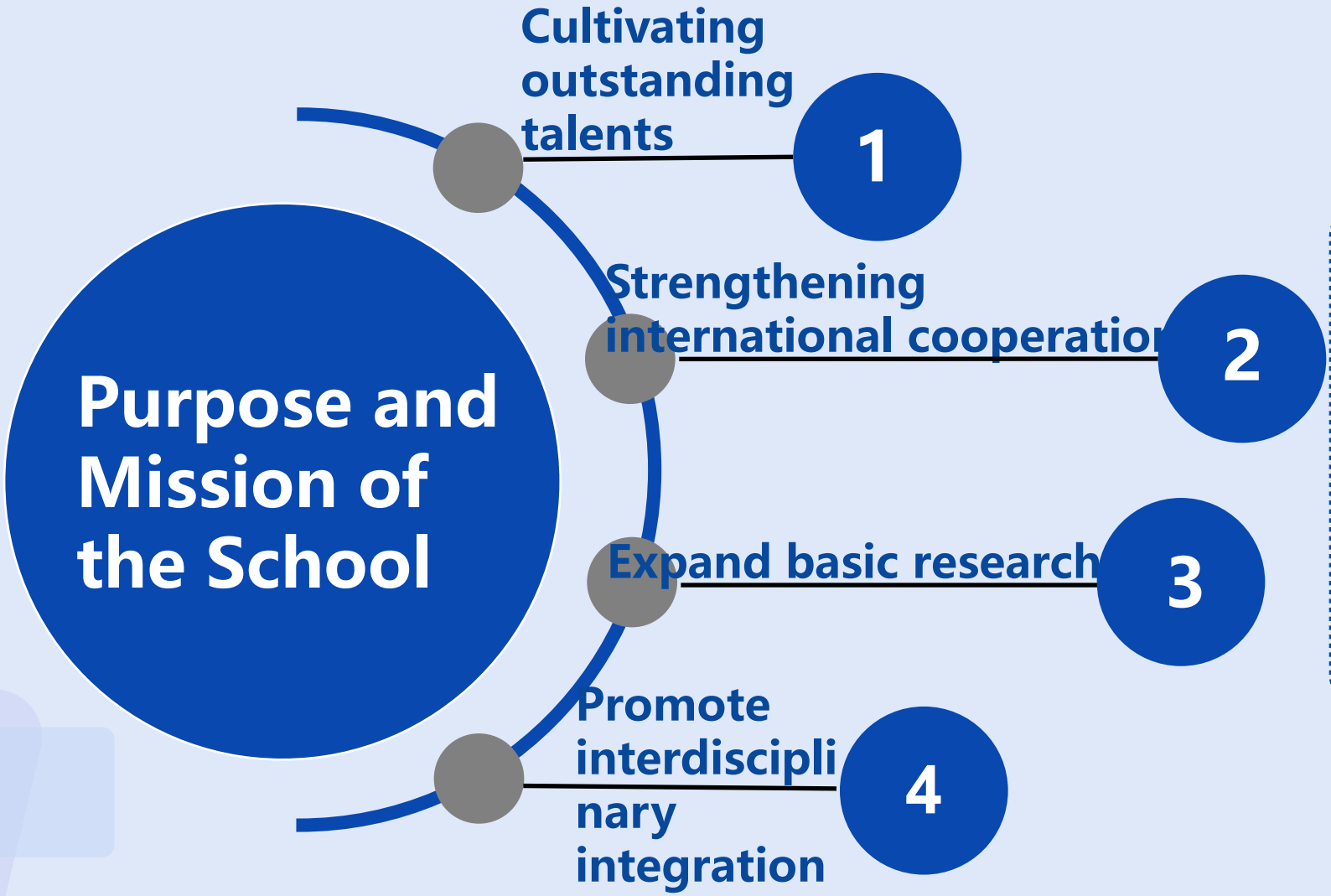
01 Current status of the discipline

02 Training Plan



01
Current status of the discipline

School of Computer Science
School of Electronic and Information Engineering



Strategic needs for the country, Assist in the integrated development of the Greater Bay Area, Construction of Service First Demonstration Zone, Highlighting the Aerospace Characteristics of Harbin Institute of Technology

Computer Science

Subject evaluation of the Ministry of Education in 2016

评估结果	学校代码及名称	
A+	10001	北京大学
	10003	清华大学
	10335	浙江大学
	91002	国防科技大学
A	10006	北京航空航天大学
	10013	北京邮电大学
	10213	哈尔滨工业大学
	10248	上海交通大学
	10284	南京大学
	10487	华中科技大学
	10614	电子科技大学

Top 5% of computer science disciplines

评估结果	学校代码及名称	
A+	10006	北京航空航天大学
	10335	浙江大学
	91002	国防科技大学
A	10001	北京大学
	10003	清华大学
	10269	华东师范大学
	10284	南京大学
	10486	武汉大学
A-	10056	天津大学
	10145	东北大学
	10213	哈尔滨工业大学
	10247	同济大学
	10248	上海交通大学
	10285	苏州大学
	10358	中国科学技术大学
	10610	四川大学

Top 10% of software engineering disciplines

CS+SE: THU, NUDT, PKU, BUAA, ZJU, NJU, HIT/SJTU (7th)

Current international discipline ranking

US News International academic ranking 22nd

ESI International academic ranking 33rd

ARWU World University academic ranking 21st

#21 武汉大学 Wuhan University 中国 亚洲

#22 哈尔滨工业大学 Harbin Institute Of Technology 中国 亚洲

#23 伊利诺伊大学厄巴纳-香槟分校 University Of Illinois At Urbana-champaign 美国 北美洲

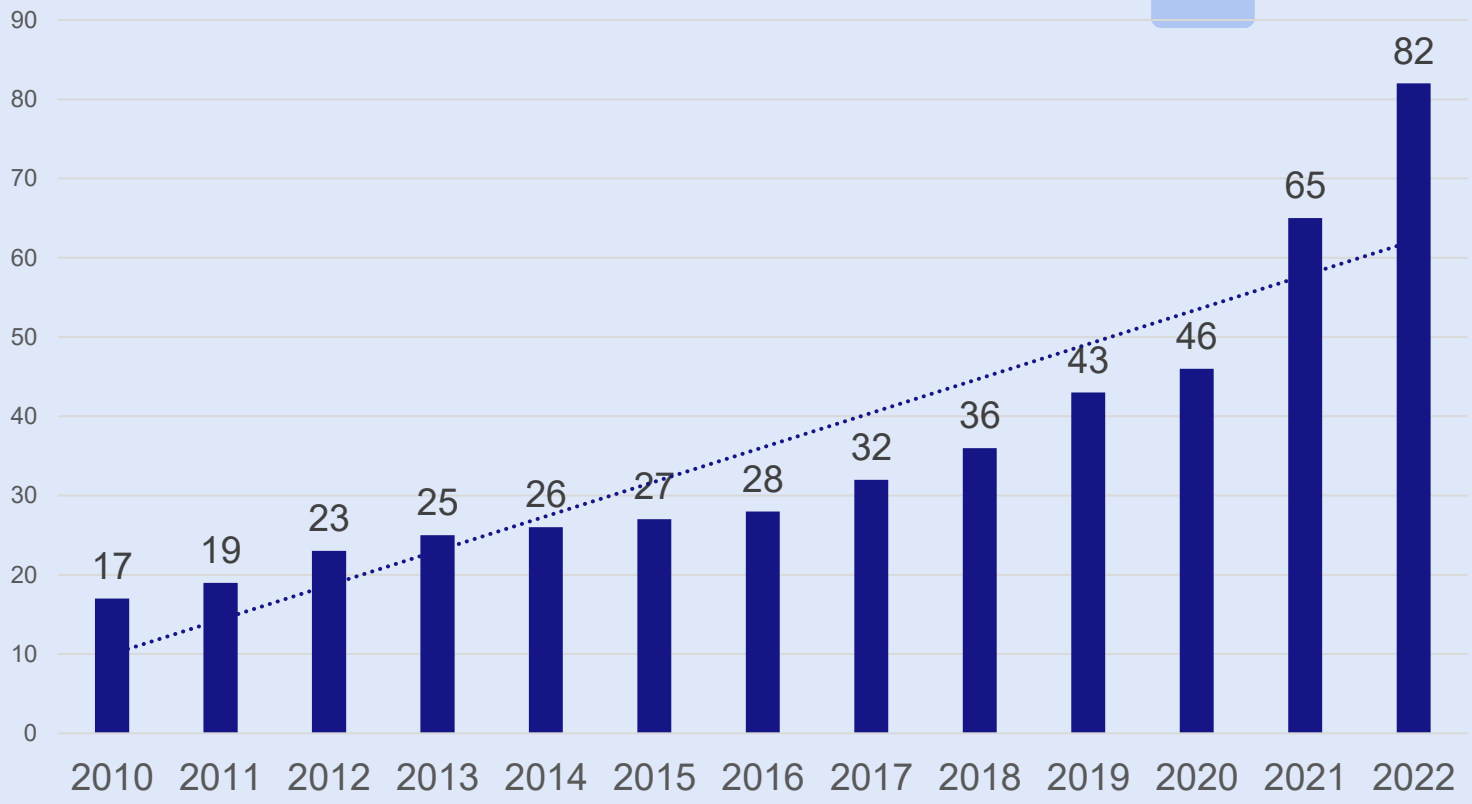
#21 哈尔滨工业大学 Harbin Institute Of Technology 中国 亚洲

#22 北京大学 Peking University 中国 亚洲

Total: 594	Institutions	Countries/Regions	Web of Science Documents	Cites	Cites/Paper
33	HARBIN INSTITUTE OF TECHNOLOGY	CHINA MAINLAND	3,137	36,924	11.77

Computer Science: Faculty

- Currently, the institution has 82 full-time teachers, and 78% of them have an overseas academic background.
- There are also 10 bi-base teachers.
- The male-to-female teacher ratio is 65:17.
- The average age is 39.2 years.



Growth trend of the number of full-time teaching and research posts from 2010 to 2022

02

Training Plan

Training Objective

This program aims to cultivate engineering and technical talents in the field of computer and electronic information who master the basic theoretical knowledge and skills of modern computer and electronic information, possess humanities and social science literacy, international perspective, professional ethics, and are familiar with China's national conditions and culture.

In the first two years, we will conduct extensive and specialized training, while in the second two years, we will delve into specialized learning in the fields of computer and electronic information.

We aim to cultivate students who can apply basic knowledge of natural sciences, computer and electronic information theory, and professional knowledge to solve engineering problems, possess good system analysis, development, and project organization and management abilities, as well as innovative and continuous learning abilities.

Training Requirements

Graduates of this program should have a systematic grasp of the basic theories and technologies of computer and electronic information, as well as good humanistic and artistic cultivation and Chinese cultural knowledge.

They should receive basic training in the development, design, and application of software and hardware systems, scientific research, and engineering practice in the field of computer and electronic information, and have the ability to engage in research, design, development, debugging, and engineering applications in computer and optoelectronic information, and has good ability to analyze and solve practical problems.

Years of Education, Degree Awarded, and Graduation Requirements

Computer Science and Technology

Length of study: three to six years (standard duration: four years)

Degree awarding: Bachelor of Engineering

Graduation requirements: Students in this program should meet the requirements set by the school for undergraduate graduates, complete all course learning and practical training as stipulated in the training plan, pass the defense of their graduation thesis (design), and complete 115 credits before graduation can be granted.

Curriculum system

Curriculum system and credit distribution

Course Level	Course Category	Credit	Amount	Percentage
Public Basic Course	Courses for National Conditions	10	44	38.2%
	Chinese Course	10		
	Basic Courses in Mathematics and Natural Sciences	24		
Broad Platform Course	Professional Basic Course	26	26	22.7%
Professional Course	Professional Core Course	15	33	28.7%
	Professional Elective Course	8		
	Graduation Thesis (Design)	10		
Self-Development Course	Liberal Arts, General Studies, Interdisciplinary Courses, etc.	12	12	10.4%
Total		115	115	100%

Curriculum system and credit distribution

Course Level	Course Category	Credit	Amount	Percentage
Public Basic Course	Courses for National Conditions	10	44	38.2%
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Total		115	115	100%

Curriculum system：Public Basic Courses

Course Chinese name	Course English name	Credits	Credit hour
中国概况	Survey of China	2	32
中国式现代化：研究与探索	Chinese path to modernization: Research and Exploration	2	32
中国碳达峰、碳中和目标的实现路径	The Way toward China's Carbon Peaking and Carbon Neutrality Targets	2	32
中国文化	Chinese Culture	2	32
中国传统饮食文化	Chinese Traditional Food Culture	1	16
知“微”见“箸”—微生物与中国传统饮食	Understanding Microorganisms from Chopsticks——Microorganisms and traditional diets	1	16
中国传统服饰与印染	Traditional Costume and Dyeing	1	16
考古与中华文明	Archaeology and Chinese Civilisation	1	16
中国文学	Chinese Literature	1	16

Course Chinese name	Course English name	Credits	Credit hour
初级汉语I	Elementary Chinese I	3	48
初级汉语II	Elementary Chinese II	3	48
中级汉语I	Intermediate Chinese I	2	32
中级汉语II	Intermediate Chinese II	2	32
微积分进阶	Calculus XXX	5	80
代数与几何	Linear Algebra and Analytic Geometry	4	64
概率论与数理统计	Probability Theory and Mathematical Statistics	3	48
大学物理IA	College Physics IA	4	64
大学物理IB	College Physics IB	4	64
大学物理实验IA	Physics Lab IA	1	24
大学物理实验IB	Physics Lab IA	1	24
生命科学基础	Foundation of life science	2	32

Curriculum system and credit distribution

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	Graduation Thesis (Design)	10		
Self-Development Course	Liberal Arts, General Studies, Interdisciplinary Courses, etc.	12	12	10.4%
Total		115	115	100%

Curriculum system：Broad Platform Course

Course Chinese name	Course English name	Credits	Credit hour
电路II	Electric Circuit II	4	64
电路实验II	Electric Circuit Experiment Ⅱ	0.5	12
认知实习	Cognition Practice	1.5	24
高级语言程序设计	High-level Language Programming	2	32
电子技术基础	Fundamentals of Electronic Technology	3	48
电子技术基础实验	Fundamentals of Electronic Technology: Experiment	1	16
计算机与电子信息导论	Introduction to Computer Science and Electrical Information	2	32
信号与系统	Signals and systems	3	48
信号与系统实验	Signals and systems: Experiment	1	24
计算机网络	Computer Networks	4	64
数据结构	Data Structures	4	64
电子技术基础	Fundamentals of Electronic Technology	3	48

Curriculum system and credit distribution

Course Level	Course Category	Credit	Amount	Percentage
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Self-Development Course	Liberal Arts, General Studies, Interdisciplinary Courses, etc.	12	12	10.4%
Total		115	115	100%

Curriculum system：Computer Science and Technology

Professional Core Course

Course Chinese name	Course English name	Credits	Credit hour
面向对象的软件构造导论	Introduction to Object-oriented Software Construction	4	64
数据库系统	Database Systems	4	64
机器学习	Machine Learning	3	48
软件体系结构	Software Architecture	2	32
人工智能	Artificial Intelligence	2	32

Professional Elective Course

Course Chinese name	Course English name	Credits	Credit hour
博弈论	Game Theory	2	32
分布式系统	Distributed system	2	32
管理信息系统	Management Information Systems	2	32
科研写作交流技巧	Research Communication Skills	2	32
IT创新与创业	IT Entrepreneurship and Innovation	2	32
图像处理	Image Processing	2	32
服务计算	Services and Cloud Computing	2	32

Thank You

Academic Guide for 2024 International Undergraduate Students

Department of Academic Affairs

- The course for 2024 Fall will start on September 13, please attend classes on time according to the class schedule.
- The learning journey is about to begin! Are you looking forward to your first class?
- Please check out this Academic guide!

Academic Guide

01
- Academic Programme

02
- How to select undergraduate courses online?

03
- Update of school registration information

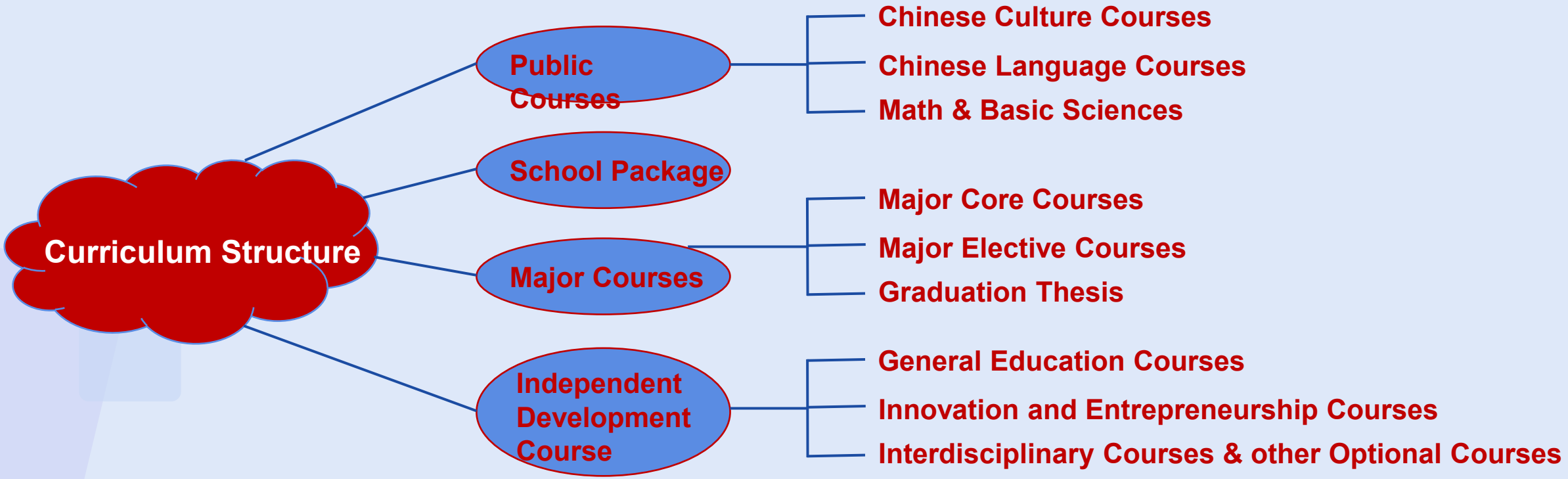
04
- Exam and Grade Related

05
- Textbook and Calendar

01 Undergraduate Programme

The undergraduate programme is a guide for the cultivation of students, which introduces Objectives, Learning Outcomes, Study Length, Degree, Graduation Requirements, etc. According to the requirements of the latest undergraduate programme, the credit requirement for graduation is 110-115.

The curriculum structure for international undergraduate students includes: Public Courses , School Package, Major Courses and Independent Development Courses.



02 How to select undergraduate courses online?

The time for course selection is
September 13th 16:30 - September 14th 23:00

The Link of Course Selection: *https://jw.hitsz.edu.cn*

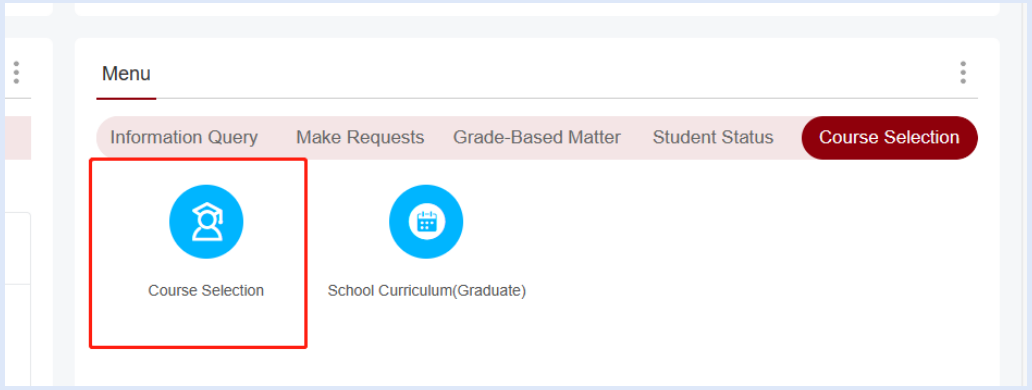
Username （用户名）： Student ID

Initial Password of Unified ID （密码）： Student ID. The first login will be forced to change it, please remember

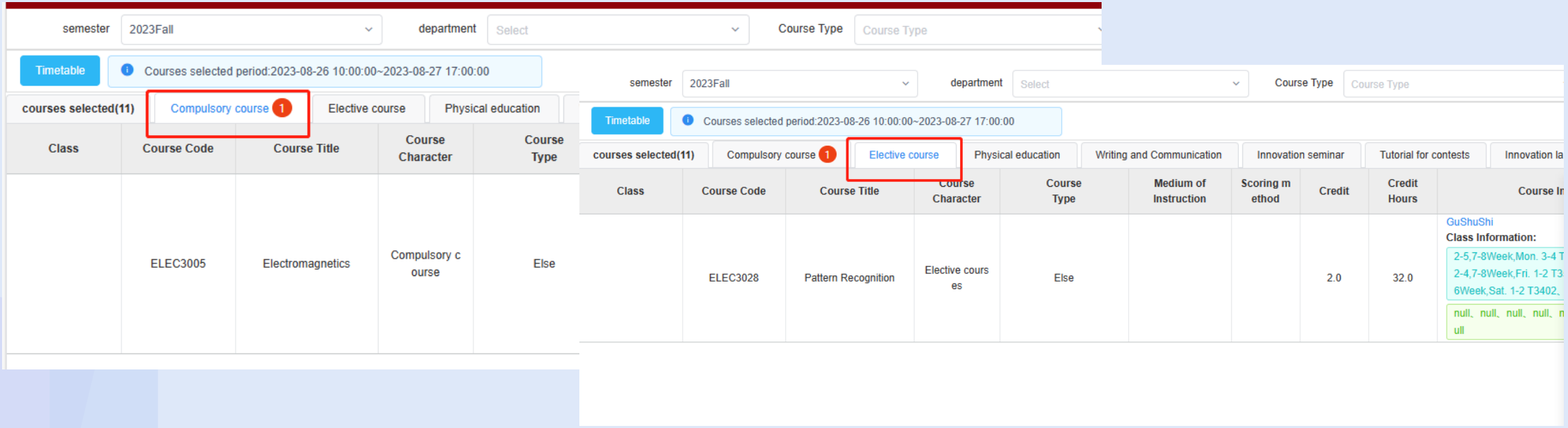
Click 登录 to log into the system.

#For details about how to use Unified ID, please visit http://en.hitsz.edu.cn/info/1143/1426.htm

02 How to select undergraduate courses online?

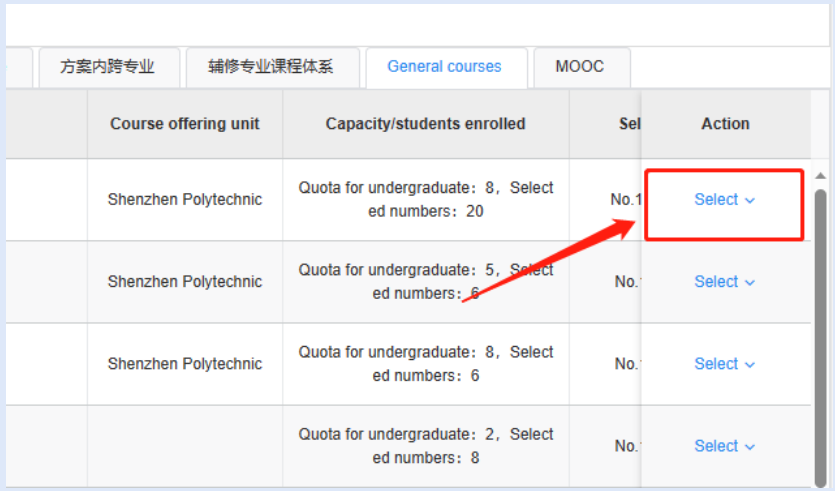


click the button of “Course Selection” under the menu of "Course Selection "on the homepage

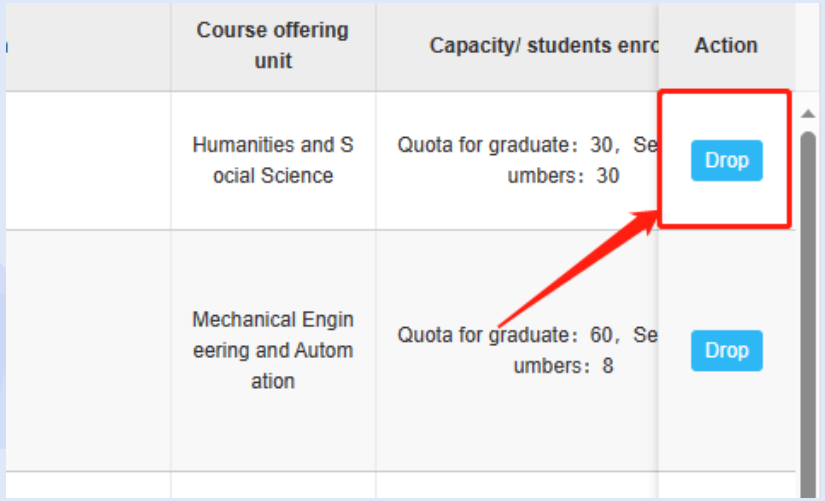


Click the button of "Compulsory Course" and “Elective Course”, you can check all the Courses in 2024 Fall.

02 How to select undergraduate courses online?



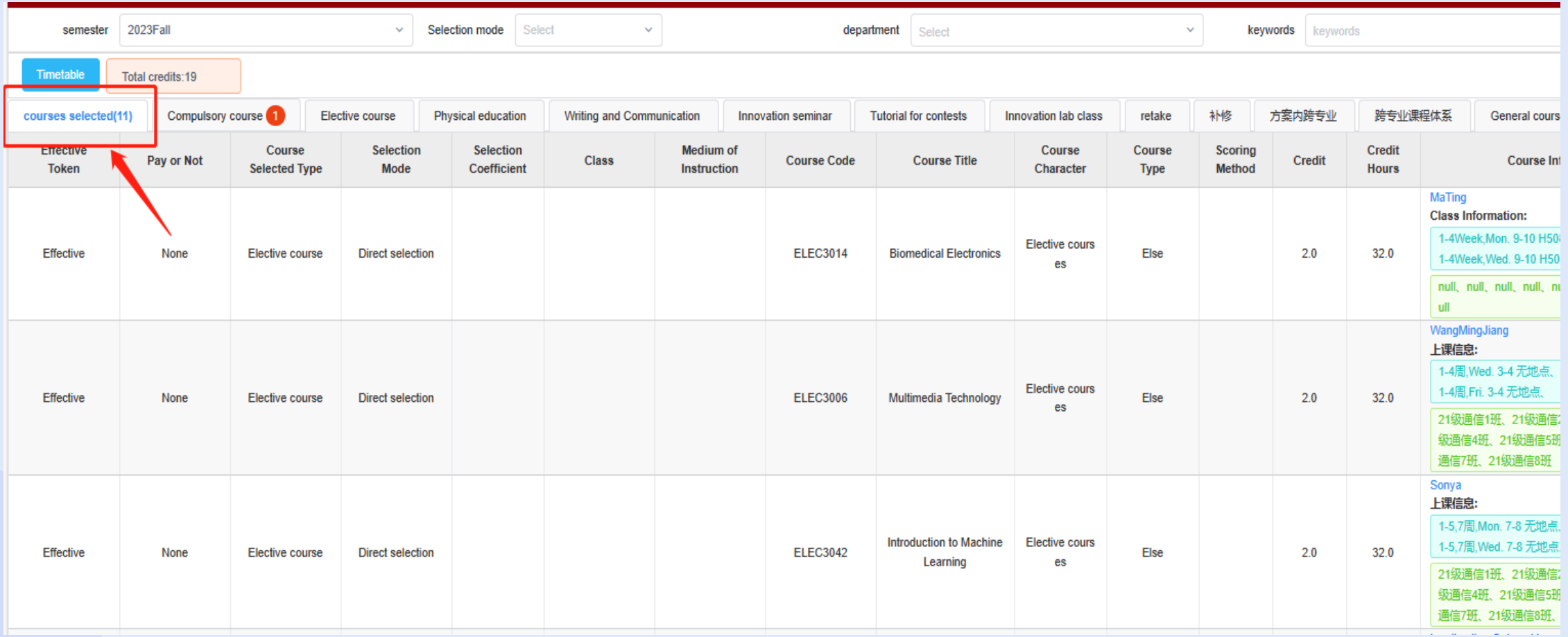
Select the course you want to take，click “Select”



If you want to cancel the course you have selected, click “Drop”

02 How to select undergraduate courses online?

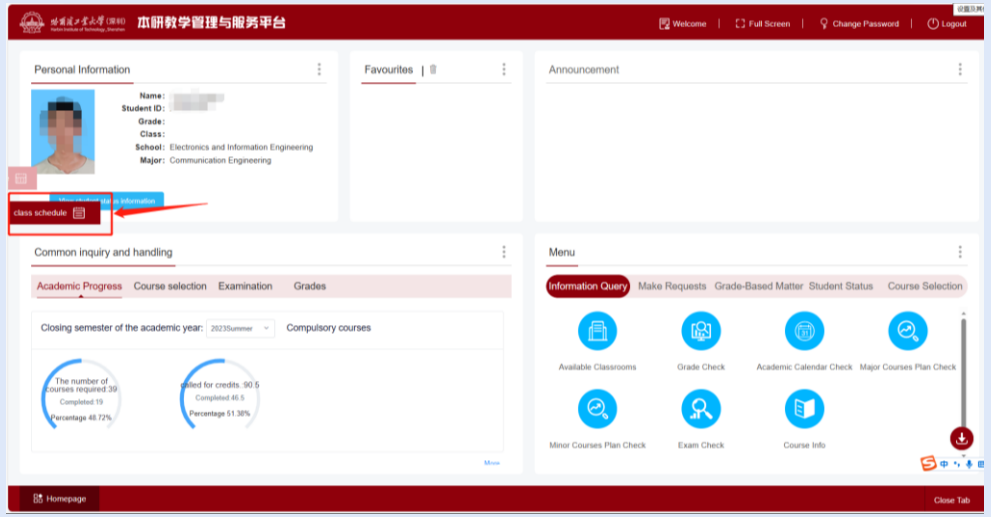
you may check all the courses you have selected by clicking the button of “Courses Selected”.



Effective Token	Pay or Not	Course Selected Type	Selection Mode	Selection Coefficient	Class	Medium of Instruction	Course Code	Course Title	Course Character	Course Type	Scoring Method	Credit	Credit Hours	Course Int
Effective	None	Elective course	Direct selection				ELEC3014	Biomedical Electronics	Elective courses	Else		2.0	32.0	MaTing Class Information: 1-4Week,Mon. 9-10 H50 1-4Week,Wed. 9-10 H50 null、null、null、null、null
Effective	None	Elective course	Direct selection				ELEC3006	Multimedia Technology	Elective courses	Else		2.0	32.0	WangMingJiang 上课信息: 1-4周,Wed. 3-4 无地点、 1-4周,Fri. 3-4 无地点、 21级通信1班、21级通信2级通信4班、21级通信5班通信7班、21级通信8班
Effective	None	Elective course	Direct selection				ELEC3042	Introduction to Machine Learning	Elective courses	Else		2.0	32.0	Sonya 上课信息: 1-5,7周,Mon. 7-8 无地点 1-5,7周,Wed. 7-8 无地点 21级通信1班、21级通信2级通信4班、21级通信5班通信7班、21级通信8班、

02 How to select undergraduate courses online?

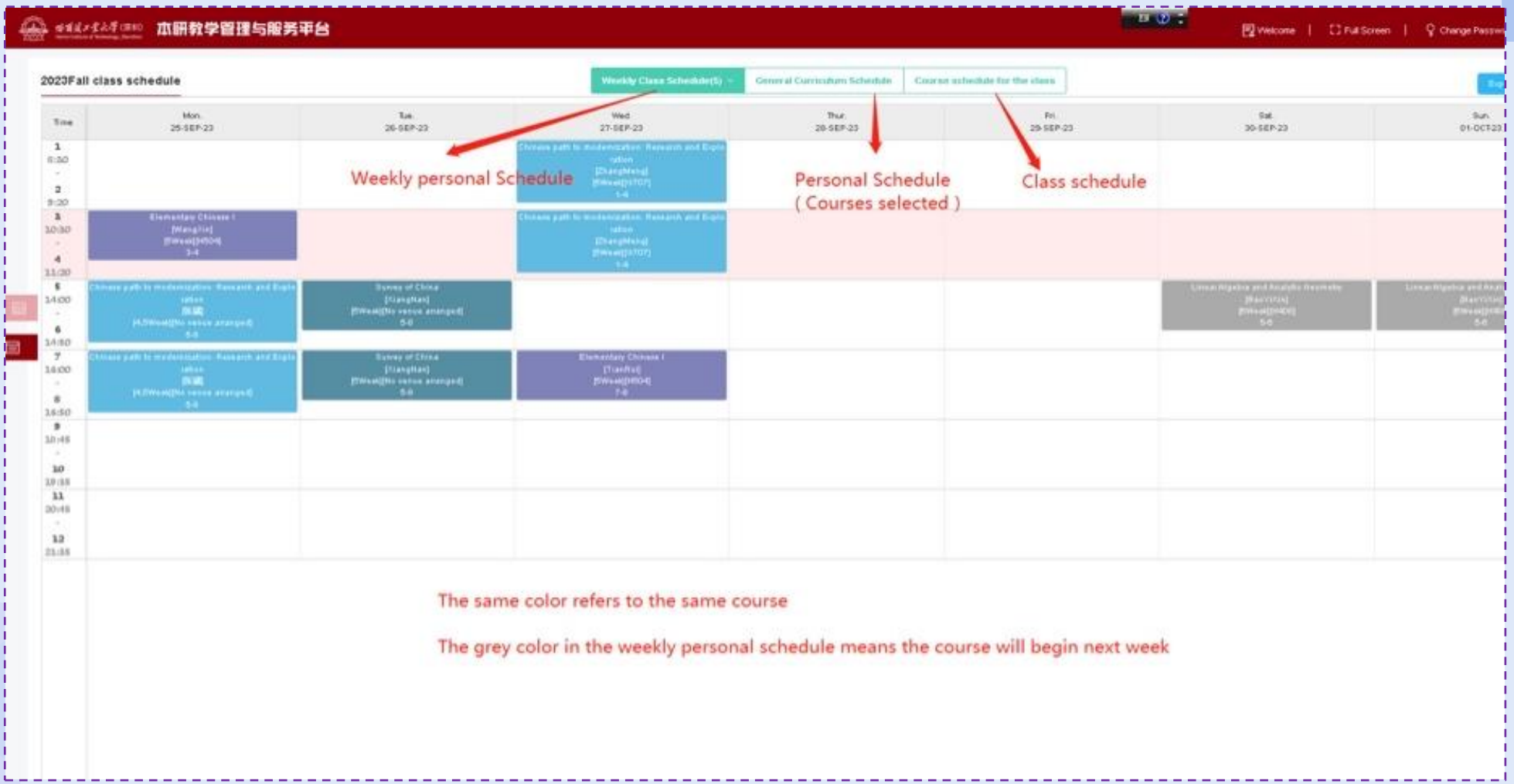
View class schedule: click the button of “class schedule” on the homepage



- Please attend the class on time according to the class schedule.
- Students who do not attend classes on time or accumulate unauthorized absence of more than 1/3 of the total class hours will be canceled the examination qualification and make-up examination qualification, and the transcript will be marked as "cancel the exam qualification."

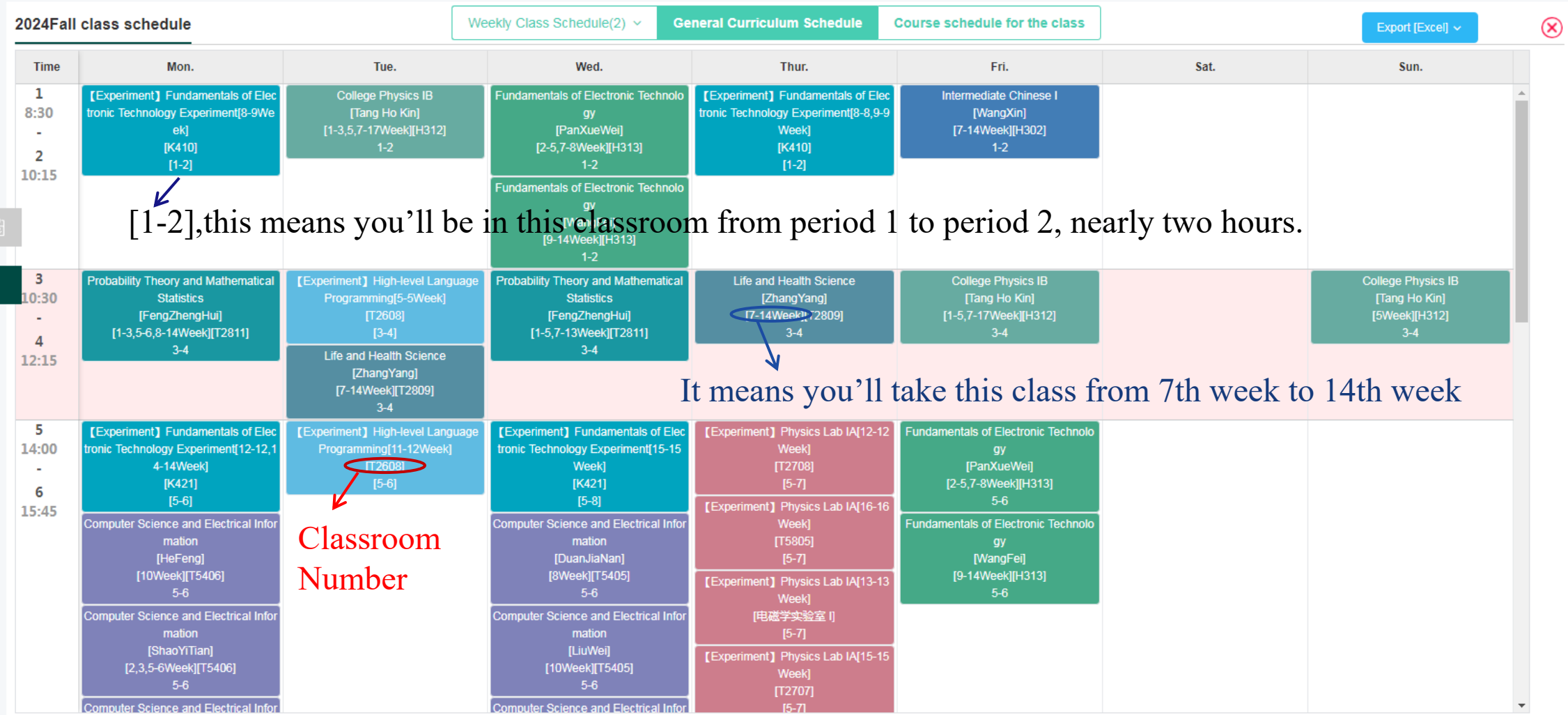
02 How to select undergraduate courses online?

Some details explanation for the timetable.



02 How to select graduate courses online?

Some details explanation for the timetable.



02 How to check your schedule with the APP ?

Step 1: Download the APP

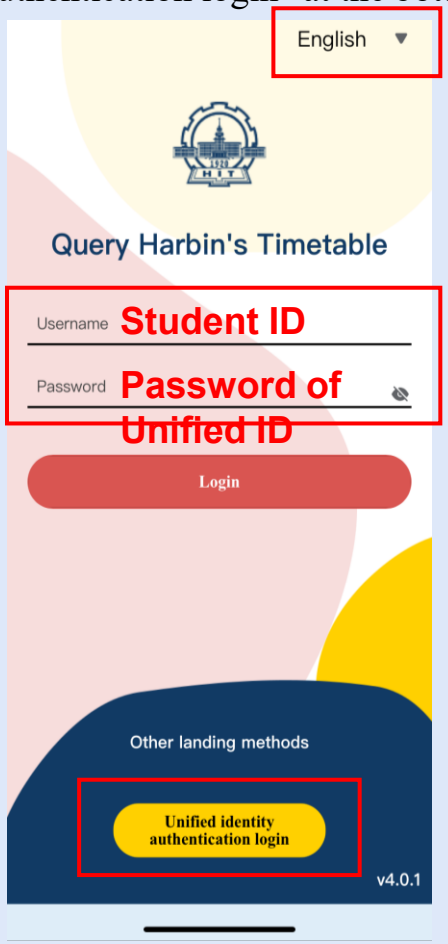
For iPhone user:Download from the APP store

For Android user:

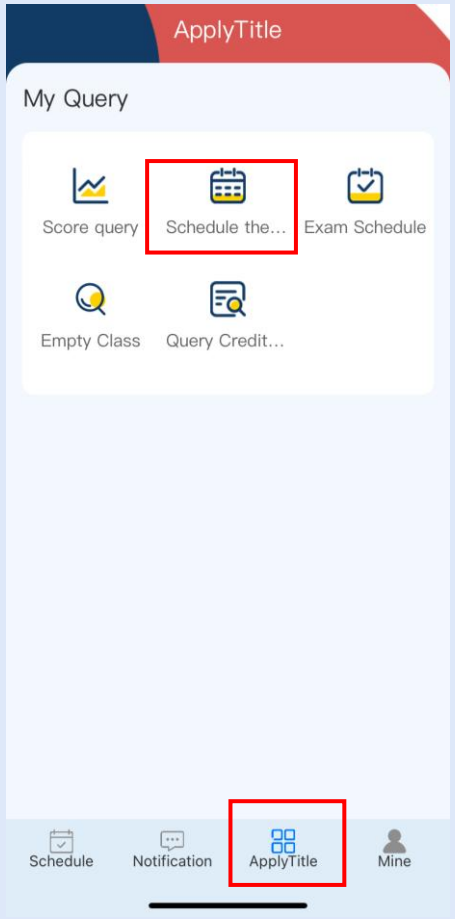
Input the following address in your phone's browser to download

https://mjw.hitsz.edu.cn/byyfile/byjw_v4.0.0.apk

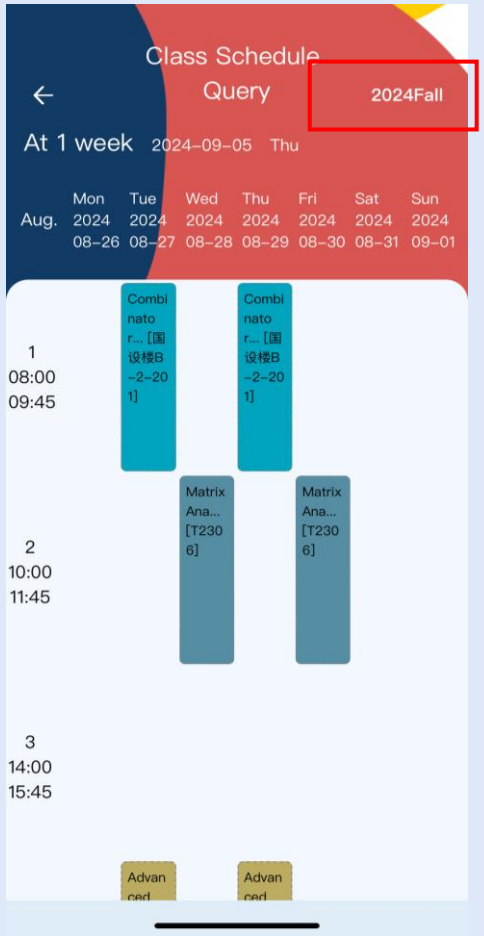
Step 2: Change the language to English and click "Unified identity authentication login" at the bottom



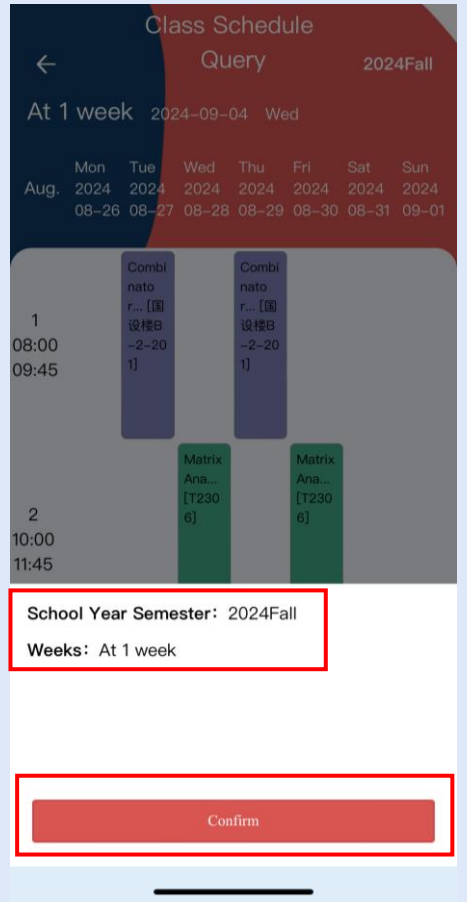
Step 3: Click "ApplyTitle" at the buttom and click "Schedule"



Step 4: Click "2024Fall " to change the Semester and Weeks



Step 5: Chose the semester and weeks you need,and click confirm at the buttom



03 Update of school registration information

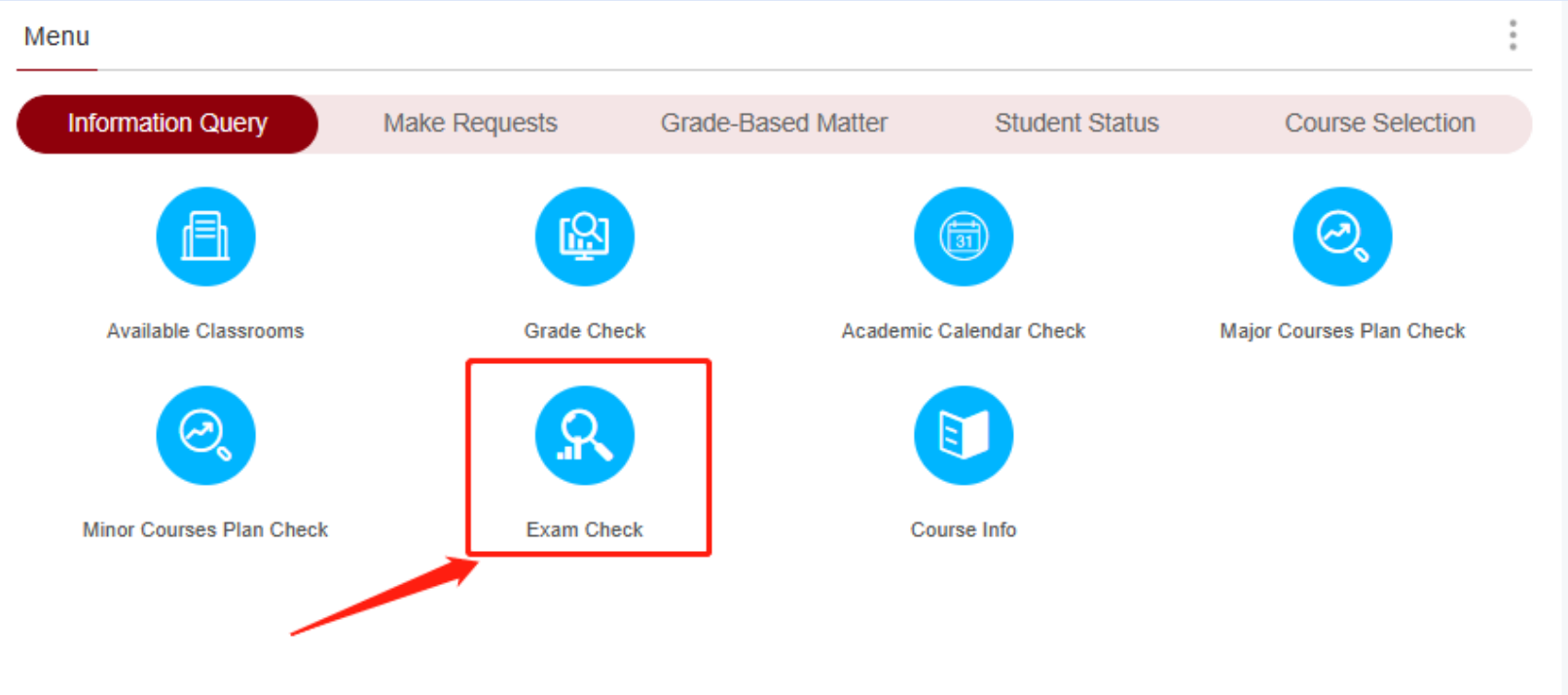
From September 15th to September 30th, please log in the management and service platform (http://jw.hitsz.edu.cn) , and click on "check the student registration information", check and modify personal information.

1. Check the student registration information: name, gender, nationality, ID number, date of birth, school, major and other such fields can not be edited by yourself, if you find any errors, please send an e-mail (must be accompanied by relevant proof) to zouyueli@hit.edu.cn, Contact Tel: 0755-86716144.

2. Modify personal information: please check the enrollment photo and add personal information such as religion, telephone number, Email, and Current Address. (If there is any error with the enrollment photo, please contact Ms. Zhang from the Department of Academic Affairs, Email: zhangping@hit.edu.cn)

04 Exam and Grade Related

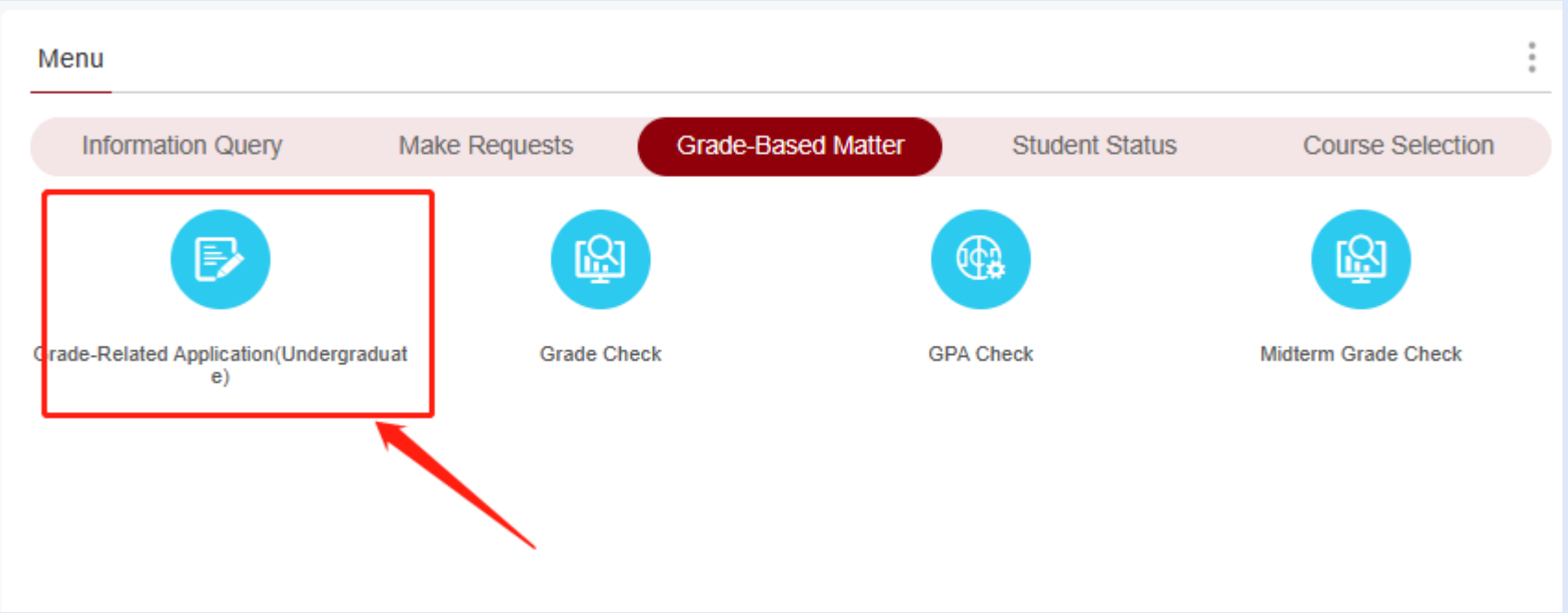
view exam information: click the button of “Exam Check” under the menu of "Information Query "on the homepage



- Please attend the test on time according to the test schedule.
- If students are absent from the examination, the transcript will be marked "absence," and the make-up examination qualification will be canceled.

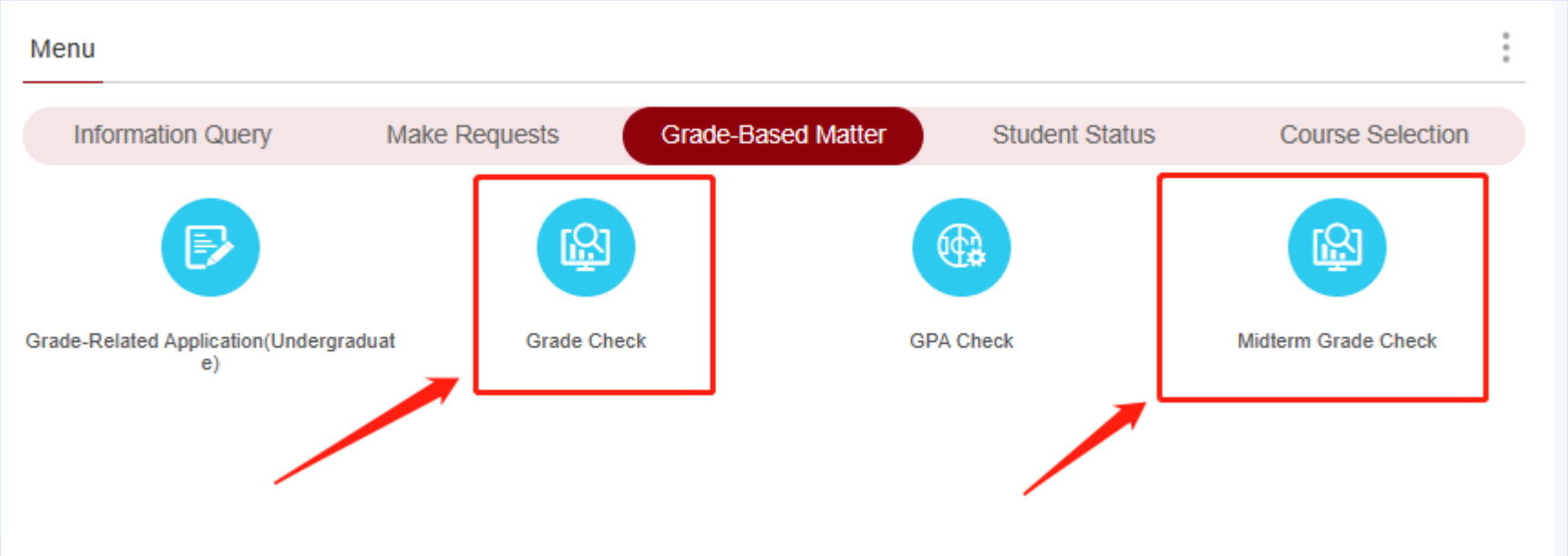
04 Exam and Grade Related

- Students who fail to attend the exam due to illness or a particular case can apply for a delayed examination.
- If a student has questions about the results of a specific course, he/she can apply for review of the examination papers within 5 working days after the results are announced.
- the way for application: click the button of "grade-Related Application" under the menu of "Grade-Based Matter " on the homepage, and query the review progress in the process of "student grade review application progress."



04 Exam and Grade Related

view grade: click the button of “Grade Check” under the menu of "Grade-Based Matter "on the homepage



05 Textbook and Calendar

Students who fail the exam are required to take “Pre-calculus” in the first semester.

Here is the textbook of “Pre-calculus” ,you can purchase it by yourself at the following website.

course title	website
Pre-calculus	https://item.m.jd.com/product/12760328.html?utm_term=CopyURL&gx=RnAoxWNdYD3Yy5gVwNk7DK-t&utm_source=iosapp&utm_campaign=t_335139774&utm_medium=appshare&ad_od=share&gxd=RnAowjFfYTbfnssQqIRwDiCJfcsG3R62Vi52GOCq7yejd47DTnfxGGqjDrlVWVA

05 Calendar

Calendar of Fall Semester, 2024

周次 Week	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th
月份 Month	八月 August	九月 September				十月 October					十一月 November				十二月 December				一月 January
周一 Monday	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30
周二 Tuesday	27	3	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24	31
周三 Wednesday	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1
周四 Thursday	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26	2
周五 Friday	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3
周六 Saturday	31	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
周日 Sunday	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5

05 Calendar

		time for undergraduate	time for graduate
morning	Period 1	8:30- 9:20	8:00- 8:50
	Period 2	9:25- 10:15	8:55- 9:45
	Period 3	10:30- 11:20	10:00- 10:50
	Period 4	11:25- 12:15	10:55- 11:45
afternoon	Period 5	14:00- 14:50	
	Period 6	14:55- 15:45	
	Period 7	16:00- 16:50	
	Period 8	16:55- 17:45	
night	Period 9	18:45- 19:35	
	Period 10	19:40- 20:30	
	Period 11	20:45- 21:35	
	Period 12	21:40- 22:30	

class timetable

Wish you study happy and have a happy life!

哈爾濱工業大學(深圳)

HARBIN INSTITUTE OF TECHNOLOGY, SHENZHEN