

Materials Processing and Controlling Engineering

(Grade 2022)

Course code: 080203

I. Cultivation Objectives

1. general cultivation objective

This program is oriented towards the development needs of the material forming process analysis and equipment manufacturing industry in the Yangtze River Delta region, and is committed to cultivating qualified builders and reliable successors of socialism with comprehensive development of moral, intellectual, physical, and aesthetic skills, and to cultivating senior application-oriented engineering and technical talents who have solid basic theories of natural science and professional knowledge of mechanical engineering and material processing engineering, with international perspectives, social responsibility, good communication and teamwork skills, and are able to engage in product and process technology development, design and manufacture of molding equipment, product quality control and production management in the advanced manufacturing industry, etc.

2. Objective of value guidance

Following the school motto of "Great life, Great Morality, great technology " and the educational philosophy of " Student-oriented and Driven by the effectiveness of student learning and development ", and through the talent cultivation mode of core value shaping, comprehensive ability cultivation and multi-dimensional knowledge exploration, this program integrates general knowledge education with professional knowledge education in depth and focuses on cultivating application-oriented engineering and technical talents who have national sentiment, persistent belief, excellent moral character, enriched knowledge and excellent skills.

3. Five years after graduation, students in this program should achieve the following objectives:

- (1) Be able to apply professional knowledge and engineering skills in materials processing and controlling engineering to identify, research and solve complex engineering projects in practice.
- (2) Be able to engage in the design, development, research and application of processes and equipment in the field of materials processing and controlling engineering.
- (3) Have good knowledge of social sciences and management skills to play an effective role in cross-functional team work.
- (4) Be able to establish and practise the core values of socialist, have good humanistic qualities, professional ethics and international perspective, have social responsibility, Career ambition and consciousness of safety and environmental in their work, and can actively serve the country and society.
- (5) Be able to update their knowledge and enhance their abilities through continuing education or other lifelong learning ways, and to further enhance their spirit of innovation and pioneering.

II. Graduation requirements

1. Engineering knowledge: The ability to apply mathematical, natural science, engineering fundamentals and professional knowledge to complex engineering problems in the field of metal/polymer forming process analysis and equipment manufacturing.

1-1 Modelling for solutions: Master the basic knowledge of the natural sciences relevant to this program, such as mathematics physics, chemistry, etc., and be able to apply them to engineering modelling, reasoning and

calculations.

1-2 Comparison and optimization: Master the basic principles and professional knowledge in the field of materials forming and be able to apply the relevant knowledge and mathematical modelling methods to the analysis of professional engineering problems and to the comparison and optimization of solutions to professional engineering problems.

2. Analyse problems: Be able to apply basic principles of mathematics, natural and engineering sciences to identify, express, and through literature research analyse engineering problems in the field of metal/polymer forming process analysis and equipment manufacturing in order to reach valid conclusions.

2-1 Identify and express: Be able to apply basic principles of mathematics, natural sciences and mathematical modelling methods to identify, evaluate and correctly express complex engineering problems and their key aspects in materials processing and controlling engineering.

2-2 Literature Research and Summarisation: Be able to use literature research to synthesize the information obtained and compare and analyse multiple solutions to complex engineering problems in the field of materials forming and be able to analyse the influencing factors of the process using fundamental principles and analyse and summarise valid conclusions.

3. Design/develop of solutions: Be able to design solutions to complex engineering problems such as material forming process development, mould design and manufacture, be able to design processes of component and mould and manufacture processes that meet specific requirements, and be able to demonstrate the spirit of innovation, while taking into account social, health, safety, legal, cultural and environmental factors.

3-1 Determination of needs: Based on the full cycle of metal/polymer materials, forming processes, equipment manufacturing, and using basic methods and techniques of material forming processes, be able to analyse the multiple factors affecting product design to meet design needs.

3-2 Process design and innovation: Be able to reasonably design product forming techniques and processes of metal/polymer material based on basic professional knowledge and be able to demonstrate the spirit of innovation in the design process.

3-3 System solutions: Be able to propose solutions to object-specific system problems in process design and equipment manufacture of metal/polymer material, which take into account social, health, safety, legal, cultural and environmental factors.

4. Research: Be able to adopt suitable methods to investigate and evaluate complex engineering problems related to metal and polymer material forming process analysis, mould design and mould manufacturing in the field of material forming process analysis and equipment manufacturing based on basic knowledge of metal/polymer material forming process and mould design, including the selection of experimental systems and experimental scheme design, experimental testing, analysis and interpretation of data, and be able to obtain reasonable and effective conclusions through comprehensive information processing.

4-1 Research and analysis: Master the impact of material properties, condition and process selection on the quality of product moulding, mould design and manufacture, and master the current state of domestic and international research.

4-2 Design of the experiment and construction of the system: Be able to construct experimental systems and choose reasonable experimental materials and equipment to construct experimental systems.

4-3 Data Analysis and Synthesis: Be able to analyse and interpret experimental data and to draw reasonable and valid conclusions from the synthesis and evaluation of information.

5. Use of modern tools: Be able to understand, select and use appropriate techniques, resources, modern engineering tools and information technology tools to simulate, predict and validate complex engineering problems in metal/polymer forming processes and equipment manufacturing, and to understand their limitations.

5-1 Understanding of tools: Be able to understand the Principles and methods of application of common modern instruments, IT tools, engineering tools and simulation software in the field of metal and polymer material forming processes and equipment manufacturing and understand their limitations.

5-2 Analysis of design and calculations: Be able to select and use appropriate instruments, engineering tools and simulation software to analyse, design and calculate complex engineering problems in the field of material forming process analysis and equipment manufacturing.

5-3 Simulation, prediction and validation: For specific objects, be able to develop or select modern tools that meet specific needs, be able to simulate and predict professional problems and validate them, and be able to analyse their limitations.

6. Engineering and Society: Be able to perform reasonable analyses based on background knowledge of materials processing and controlling engineering in order to evaluate the impacts on society, health, safety, law and culture of engineering practices and solutions to complex engineering problems in the field of materials forming process analysis and equipment manufacturing, and to understand the responsibilities involved.

6-1 Understanding of engineering: Understand the history, cultural background, technical standards, industrial policies and laws and regulations related to the production and application of engineering.

6-2 Evaluation and Responsibility: Be able to evaluate the impacts on society, health, safety, law and culture of solutions to complex engineering problems in materials forming and understand the responsibilities involved.

7. Environment and Sustainable Development: Be able to understand and evaluate the impacts on the environment and social sustainability of engineering practices in the field of material forming process analysis and equipment manufacturing.

7-1 Understanding of environmental concepts: Understand the meaning and significance of the concept of environmental protection and sustainable social development and the impact of the implementation and operation of engineering projects on the ecological environment.

7-2 Evaluation of impacts on the environment: Be able to comprehensively evaluate the impact of professional engineering practice on environmental and social sustainability based on the concept of green manufacturing.

8. Professional Codes: Be able to establish and carry out core values of socialist, have humanities and social science qualities, social responsibility, be able to understand and abide by engineering professional ethics and codes and fulfill responsibilities in the field of material forming process analysis and equipment manufacturing engineering practice.

8-1 Vision and belief: Have proper world perspective, philosophy and values, professional ethics and codes of conduct, be honest, fair and impartial, and be able to practise the core socialist values.

8-2 Social Responsibility: Have the humanities and social responsibility as an engineer, and be able to consider the impact and responsibilities of the engineering practice on society, safety and other factors.

8-3 Professional Ethics: Be able to understand the social value of the application of metal materials in engineering practice and the nature of the engineer's profession, be able to comply with engineering ethics and codes of practice and be able to fulfil the responsibilities of an engineer.

9. Individual and team: Be able to assume the role of individual, team member and leader of a team in a multidisciplinary context.

9-1 Communication: Be able to take on an individual role in a multidisciplinary project covering materials processing and controlling engineering, and be able to use professional strengths and complete assigned tasks on time.

9-2 Teamwork: Be able to take on the role of a team member in a multidisciplinary team covering materials processing and controlling engineering, be able to take the initiative to learn the disciplinary knowledge of other team members, communicate effectively with team members and work together to complete team tasks.

10. Communication: Be able to communicate effectively with industry peers and the public on complex engineering issues in the field of material forming process analysis and equipment manufacturing, including writing feasibility reports, designing technical routes for processes, making presentations using professional knowledge, clearly expressing or responding to instructions, and having an international perspective, and be able to communicate and interact in a cross-cultural context.

10-1 Expression and Response: Be able to communicate effectively with industry peers and the public by using reports, documents design, presentation speeches, and by expressing clearly or responding to instructions.

10-2 International Perspective and Intercultural Communication: Be able to read, translate and summarize English literature and technical documents related to materials processing and controlling engineering, and have an international perspective to communicate and interact on complex engineering issues in a cross-cultural context.

11. Project Management: Understand and master the principles of engineering management and economic decision-making methods and apply them to the practice of materials forming engineering, taking into account material costs, process and manufacturing feasibility and the practical conditions of application.

11-1 Mastery of principles: Master the basic principles of engineering management and the basic methods of economic analysis and decision-making.

11-2 Application and Practice: Be able to apply engineering management principles and economic decision-making methods to the practice of materials forming engineering, taking into account material costs, process and manufacturing feasibility and the practical conditions of application.

12. Lifelong learning: Have the spirit of independent and lifelong learning, have the ability to continuously learn and to adapt to technological advances and social development.

12-1 Consciousness and quality: Be able to understand the need for continuous exploration and learning, have the spirit of independent and lifelong learning, and have a good perspective on career development.

12-2 Ability to transfer and apply knowledge: Have a knowledge base for lifelong learning, the ability to transfer and apply knowledge to continuously identify, research and solve problems, and the ability to continuously learn advanced technology in material forming and adapt to technological developments in society.

III. Schooling System

Four years.

IV. Length of Study

Flexible study period, generally four years, the minimum length of flexibility is not less than three years, the

longest not more than six years.

V. Requirements for Graduation and Degree Conferring

Students of this program must complete the minimum credits required for each category of courses and complete all the content specified in Students of this program must complete the minimum credits required for each category of courses and complete all the content specified in extracurricular class according to the requirements of the instructional training plan, and the total credits must reach 165 credits for graduation; Those who meet the requirements for bachelor's degree can be conferred bachelor degree in Intelligent Manufacturing Engineering.

VI. Discipline

Mechanical Engineering, Materials Processing Engineering

VII. Core Courses

Principles of plastic forming, stamping process and mould design, injection moulding process and mould design, modern mould manufacturing technology, material analysis methods, computer-aided design, numerical simulation of sheet forming, numerical simulation of injection moulding , production practice, comprehensive practice for material forming, etc.

VIII. Course Structure and Course Hours (excluding Extracurricular Class)

Course Type	Total Credits	%	Total Course Hours	Theory Learning	Practical Training
Public Fundamental Course	55.5	34	1024	940	84
General Education	10	6	160	160	0
Engineering Fundamental Course	21	13	336	292	44
Professional Fundamental Course	18	11	288	236	52
Professional Course	26	16	416	309	107
Professional Practice	33.5	20	952	0	952
Total	164	100	3176	1937	1239
Theory: Practical(%)	61:39				

IX. Teaching schedule (1)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hours	Theory Learning	Practical Training	Recommended semester
Public Fundamental Course	required	School of Marxism	b1080006	Outline of Modern Chinese History	non-test	3	48	42	6	Autumn 1
	required	School of Marxism	b1080001	Basic Principles of Marxism	test	3	48	42	6	Spring 1
	required	School of Marxism	b1080009	Ethics and the Rule of Law	non-test	3	48	42	6	Spring 1
	required	School of Marxism	b1080004	Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics I	test	3	48	42	6	Autumn 2
	required	School of Marxism	b1080007	Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics II	test	2	32	28	4	Spring 2
	required	School of Marxism	----	Situation and Policy (Modules 1 to 4)	non-test	2	32	28	4	Autumn 1 to Spring 2
	required	School of Marxism	b1080008	Labour Education A	non-test	0.5	16	16		Autumn 2
	required	College of Arts and Sciences	b1020080	Advanced Mathematics A1	test	4	64	64		Autumn 1
	required	College of Arts and Sciences	b1020081	Advanced Mathematics A2	test	4	64	64		Spring 1
	required	College of Arts and Sciences	b1020012	Linear Algebra	test	2	32	32		Spring 1
	required	College of Arts and Sciences	b1020013	Probability Theory and Mathematical Statistics	test	2	32	32		Autumn 2
	required	College of Arts and Sciences	b1020018	Academic Chinese	non-test	2	32	32		Autumn 1
	required	College of Resources and Environment	b1013001	Academic Chemistry	test	2	32	28	4	Spring 1
	required	College of Arts and Sciences	b1020062	Academic Physics A (Module 1)	test	3	48	48		Spring 1
	required	College of Arts and Sciences	b1020065	Academic Physics B	test	2	32	32		Autumn 2
	required	College of Arts and Sciences	b1020111	Academic Physics C	non-test	2	32		32	Spring 1
	required	College of Physical Education	----	Physical Education I to VI	non-test	3	160	160		Autumn 1 to Autumn 4
	required	Others	b1110004	Mental Health Education for University Students	non-test	2	32	16	16	Autumn 1
	required	Others	b1110003	Military Skills	non-test	0.5	2W			Autumn 1
	required	College of Arts and Sciences	b1110002	Military Theory	non-test	0.5	32	32		Autumn 2
	★ Academic English (Select 1 module for 10 credits)	Module A	b1020003	General English III	test	3	48	48		Autumn 1
			b1020004	General English IV	test	3	48	48		Spring 1
			b1020005	General Academic English A	test	2	32	32		Autumn 2
			---	English Knowledge Expansion	non-test	2	32	32		Spring 2
		Module B	b1020002	General English II	test	3	48	48		Autumn 1
			b1020003	General English III	test	3	48	48		Spring 1
			b1020006	General Academic English B	test	2	32	32		Autumn 2
---			English Knowledge Expansion	non-test	2	32	32		Spring 2	
Module C		b1020001	General English I	test	4	64	64		Autumn 1	
		b1020002	General English II	test	3	48	48		Spring 1	
		b1020003	General English III	test	3	48	48		Autumn 2	
★ Academic German		College of Arts and Sciences	b1020040	Academic German I	test	3	48	48		Autumn 1
		College of Arts and Sciences	b1020041	Academic German II	test	3	48	48		Spring 1
		College of Arts and Sciences	b1020042	Academic German III	test	4	64	64		Autumn 2
★ Academic Japanese		College of Arts and Sciences	b1020077	Academic Japanese I	test	3	48	48		Autumn 1
	College of Arts and Sciences	b1020078	Academic Japanese II	test	3	48	48		Spring 1	
	College of Arts and Sciences	b1020079	Academic Japanese III	test	4	64	64		Autumn 2	
Subtotal (Public Fundamental Course)						55.5	1024	940	84	
General Education	Selective	Art Education Center	b0-----	Aesthetic Education	non-test	2	32	32		Autumn, Spring
	Selective	Each Colleges	b0-----	Social Sciences and Humanistic Qualities	non-test	4	64	64		Autumn, Spring
				Natural Sciences and Technology Innovation	non-test	4	64	64		Autumn, Spring
Subtotal (General Education)						10	160	160		

★Note: A total of 10 credits for the first foreign language, including three languages: Academic English, Academic German and Academic Japanese. Please choose the appropriate language as required; for those who choose Academic English, please choose the appropriate module from Module ABC.

IX. Teaching schedule (2)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hours	Theory Learning	Practical Training	Recommended semester		
Engineering Fundamental Course	required	School of Intelligent Manufacturing and Control Engineering	b2011137	Modern Engineering Drawing I	test	3	48	40	8	Autumn 1		
	required	School of Intelligent Manufacturing and Control Engineering	b2011138	Modern Engineering Drawing II	non-test	3	48	32	16	Spring 1		
	required	School of Intelligent Manufacturing and Control Engineering	b2011049	Engineering Mechanics I	test	3	48	48	0	Autumn 2		
	required	Engineering Training	b2090001	Electrical and Electronic Engineering	test	3	48	42	6	Autumn 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011523	Fundamentals of Materials Science (Bilingual)	test	3	48	42	6	Spring 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011050	Engineering Mechanics II	test	3	48	44	4	Spring 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011521	Fundamentals of Thermal Engineering and Fluid Mechanics	test	3	48	44	4	Spring 2		
Subtotal (Engineering Fundamental Course)							21	336	292	44		
Professional Fundamental Course	required	School of Intelligent Manufacturing and Control Engineering	b2011241	Introduction to Materials Processing and Controlling Engineering	non-test	1	16	14	2	Autumn 1		
	required	School of Intelligent Manufacturing and Control Engineering	b2011080	Fundamentals of Mechanical Manufacturing	test	3	48	42	6	Autumn 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011345	Fundamentals of Mechanical Design	test	4	64	60	4	Spring 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011152	Hydraulic and Pneumatic Transmission	test	2	32	28	4	Spring 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011496	Numerical Calculation Methods	non-test	2	32	10	22	Spring 2		
	required	Engineering Training	b2090012	Fundamentals of Programming C++	test	2	32	26	6	Spring 2		
	required	School of Intelligent Manufacturing and Control Engineering	b2011126	Principle of Plastic Forming	test	2	32	30	2	Spring 2		
required	School of Intelligent Manufacturing and Control Engineering	b2011143	Project Management	non-test	2	32	26	6	Spring 3			
Subtotal (Professional Fundamental Course)							18	288	236	52		
Professional Course	required	School of Intelligent Manufacturing and Control Engineering	b2011468	Material Forming Equipment and Automation	non-test	2	32	30	2	Autumn 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011499	Injection Moulding Process and Mould Design	test	3	48	45	3	Spring 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011500	Numerical Simulation of Injection Moulding	non-test	2	32	4	28	Spring 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011520	Scientific and Technical Paper Writing and Literature Search	non-test	1	16	16	0	Autumn 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011055	Industrial Robots and Applications	non-test	2	32	24	8	Autumn 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011501	Stamping Process and Mould Design	test	3	48	42	6	Autumn 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011502	Numerical Simulation of Sheet Forming	test	2	32	4	28	Autumn 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011524	Modern Mould Manufacturing Technology	non-test	3	48	44	4	Spring 3		
	required	School of Intelligent Manufacturing and Control Engineering	b2011525	Methods of Material Analysis	non-test	2	32	28	4	Spring 3		
	Subtotal (Required Professional Course)							20	320	237	83	
	Selective 6 credits		School of Intelligent Manufacturing and Control Engineering	b2011251	Introduction to Smart Manufacturing	non-test	2	32	28	4	Spring 2	
			School of Intelligent Manufacturing and Control Engineering	b2011330	Electrical Control and PLC Applications	test	2	32	26	6	Spring 2	
			School of Intelligent Manufacturing and Control Engineering	b2011476	Additive Manufacturing Technology	non-test	2	32	24	8	Spring 2	
			School of Intelligent Manufacturing and Control Engineering	b2011295	Reverse Engineering Technology	non-test	2	32	24	8	Spring 2	
			School of Intelligent Manufacturing and Control Engineering	b2011433	Production Management of Intelligent Manufacturing (MES/ERP)	test	2	32	24	8	Autumn 3	
			School of Intelligent Manufacturing and Control Engineering	b2011477	Materials Surface Engineering	non-test	2	32	24	8	Autumn 3	
			School of Intelligent Manufacturing and Control Engineering	b2011526	Materials Properties and Testing Technology	non-test	2	32	24	8	Autumn 3	
		School of Intelligent Manufacturing and Control Engineering	b2011474	Material Forming and Light-weighting Technology	non-test	2	32	24	8	Autumn 3		
		School of Intelligent Manufacturing and Control Engineering	b2011527	Green Manufacturing and Recycling of Materials	non-test	2	32	24	8	Autumn 3		
	School of Intelligent Manufacturing and Control Engineering	b2011475	Forming Technology of Automobile Panels	non-test	2	32	24	8	Autumn 3			
Subtotal (Selective Professional Course)							6	96	72	24		
Subtotal (Professional Course)							26	416	309	107		

IX. Teaching schedule (3)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hours	Theory Learning	Practical Training	Recommended semester
Professional Practice	required	School of Intelligent Manufacturing and Control Engineering	b4011332	Internship for Understanding	non-test	1	24		24	Summer 1
	required	School of Intelligent Manufacturing and Control Engineering	b4011340	Comprehensive practice for mould drafting	non-test	2	48		48	Summer 1
	required	School of Intelligent Manufacturing and Control Engineering	b4011151	Computer-aided design	non-test	2	48		48	Summer 1
	required	Engineering Training	b4090001	Basic Engineering Training A	non-test	3	72		72	Autumn 2
	required	School of Intelligent Manufacturing and Control Engineering	b4011043	Practice for Interchangeability and measurement	non-test	2	48		48	Summer 2
	required	School of Intelligent Manufacturing and Control Engineering	b4011056	Course Design of Mechanical Design	non-test	2	48		48	Summer 2
	required	School of Intelligent Manufacturing and Control Engineering	b4000001	Practice for Innovation and Entrepreneurship in Material Forming and Control Engineering	non-test	2	48		48	Autumn 3
	required	School of Intelligent Manufacturing and Control Engineering	b4011339	Labour Education B	non-test	0.5	16		16	Autumn 3
	required	School of Intelligent Manufacturing and Control Engineering	b4011334	Course Design of Stamping Die	non-test	3	72		72	Spring 3
	required	School of Intelligent Manufacturing and Control Engineering	b4011333	Course Design of Injection Moulding	non-test	3	72		72	Summer 3
	required	School of Intelligent Manufacturing and Control Engineering	b4011217	Production internships	non-test	2	48		48	Summer 3
	required	School of Intelligent Manufacturing and Control Engineering	b4011348	Comprehensive practice for Materials Forming	non-test	5	120		120	Autumn 4
required	School of Intelligent Manufacturing and Control Engineering	b4011250	Material Forming and Control Engineering Graduation Internship and Graduation Design (Thesis)	non-test	6	288		288	Spring 4	
Subtotal (Professional Practice)						33.5	952		952	
Extracurricular Class	required	Others	b5110001	Extracurricular Class	non-test	1				Autumn, Spring, Summer
Total						165	3176	1937	1239	

X.Prerequisite for Course Study

No.	Course Name	Prerequisite Course	No.	Course Name	Prerequisite Course
1	Engineering Mechanics	Advanced Mathematics A1	6	Principle of Plastic Forming	Advanced Mathematics
		Advanced Mathematics A2			Linear Algebra
		Academic Physics			Engineering Mechanics
2	Fundamentals of Mechanical Design	Advanced Mathematics A1	7	Computer-aided Design	Modern Engineering Drawing I
		Advanced Mathematics A2			Modern Engineering Drawing II
		Engineering Mechanics I	8	Stamping Process and Mould Design	Principle of Plastic Forming
		Engineering Mechanics II			Fundamentals of Materials Science
Modern Engineering Drawing		Fundamentals of Mechanical Manufacturing			
3	Electrical and Electronic Engineering	Advanced Mathematics A1	9	Injection Moulding Process and Mould Design	Fundamentals of Materials Science
		Advanced Mathematics A2			Fundamentals of Mechanical Manufacturing
		Academic Physics			Computer-aided Design
4	Fundamentals of Mechanical Manufacturing	Modern Engineering Drawing	10	Modern Mould Manufacturing Technology	Basic Engineering Training
		Basic Engineering Training			Fundamentals of Materials Science
		Engineering Mechanics			Fundamentals of mechanical manufacturing
5	Hydraulic and Pneumatic Transmission	Advanced Mathematics	11	Integrated Materials Forming Practice	Practice for Interchangeability and measurement
		Engineering Mechanics			Course Design of Injection Moulding
		Modern Engineering Drawing			Course Design of Stamping Die
					Production internships

XI.Credit of Extracurricular Class

Through taking extracurricular classes, students are encouraged to take part in academic lectures, social practice activities, campus cultural and Through taking extracurricular classes, students are encouraged to take part in academic lectures, social practice activities, campus cultural and sports activities, innovative and entrepreneurial activities, voluntary activities, etc. to improve their social adaptability and enhance the Details are specified in Students' Manual.