

Wuxi University



无锡学院
WUXI UNIVERSITY

Cultivation Plan of Electronic Information Engineering

Department of Electronic Information Engineering

School of Electronic Information Engineering

2025

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Cultivation Plan of Electronic Information Engineering

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I Objectives of the Programme

The major in Electronic Information Engineering is oriented towards local economic development, cultivating individuals with moral and cultural literacy and a sense of social responsibility. It aims for comprehensive development in intellectual, physical, aesthetic, and labor aspects. Students are equipped with fundamental knowledge in electronics and information technology, and basic skills in designing, developing, integrating, testing, and applying electronic information devices and systems. Graduates are innovative and application-oriented talents capable of engaging in technical research and development, engineering design, production maintenance, and management within the field of electronic information engineering.

After four years of study, graduates should possess solid knowledge in mathematics, natural sciences, and specialized subjects, particularly in analog electronic circuits, digital logic circuits, microcomputer principle and single-chip microcomputer technology, digital signal processing, communication principles, intelligent information processing, and electronic system synthetic design. They should be capable of proposing solutions to complex engineering problems in the field of electronic information engineering. Graduates should have the ability to learn independently and engage in lifelong learning, continuously keeping up with cutting-edge technologies. They should possess humanistic literacy and a sense of social responsibility, basic foreign language skills in listening, speaking, reading, and writing, and a certain international perspective, enabling them to communicate and interact in a cross-cultural context. They should be able to work independently or collaboratively in teams, and organize and coordinate team members to achieve goals.

II Programme Learning Outcomes

1. Engineering Knowledge: Be able to apply mathematics, natural sciences, computing, engineering fundamentals and professional knowledge to solve complex engineering problems in the field of electronic information engineering.

- 1.1: Be able to master the basic knowledge of mathematics, natural sciences, computing and engineering sciences, and be able to use the language tools of mathematics, natural sciences, computing and engineering sciences to describe engineering and technical problems.
- 1.2: Be able to use the basic concepts, basic theories and basic methods of

mathematics, natural sciences, computing and engineering sciences to conduct mathematical modeling and solution of practical problems.

- 1.3: Be able to comprehensively apply professional basic knowledge, mathematics, natural sciences and computational analysis methods to the deduction and analysis of professional engineering problems in the electronic information field.

- 1.4: Be able to use professional basic knowledge, mathematics, natural sciences and computational analysis methods to compare and synthesize solutions to engineering problems in the electronic information field, and reflect advanced technologies in the electronic information field.

2. Problem Analysis: Be able to apply the basic principles of mathematics, natural sciences and engineering sciences to identify, express, and analyze complex engineering problems in the field of electronic information engineering through literature research to obtain effective conclusions.

- 2.1: Be able to use the basic principles of mathematics, natural sciences and engineering sciences to recognize and judge the key links in complex engineering problems in the electronic information field.

- 2.2: Be able to use professional knowledge of electronic information and mathematical modeling methods to explain and describe complex engineering problems.

- 2.3: Be able to use the basic principles and methods of the electronic information field, comprehensively consider various influencing factors, analyze complex engineering problems in the electronic information field, and select and optimize solutions to the problems.

- 2.4: Be able to use the basic principles and methods of the electronic information field, combined with literature research, to analyze the influencing factors of the engineering activity process in the electronic information field and obtain effective conclusions.

3. Design/Development of Solutions: Be able to design solutions for complex engineering problems in the field of electronic information engineering, design systems, units (components) or technological processes that meet the needs of information acquisition, transmission, processing and application, and be able to reflect innovative awareness in the design link, considering factors such as society, health, safety, law, culture and environment.

- 3.1: Be able to master the full-cycle and full-process design/development methods and technologies of engineering design in the electronic information field, and determine appropriate technical solutions according to design objectives.

- 3.2: Be able to complete the scheme design of equipment and system units (components) according to the specific needs of electronic information equipment and systems, including information collection, storage and processing.

- 3.3: Be able to complete the design of electronic information equipment and

systems, and reflect innovative awareness in the design.

- 3.4: Be able to consider restrictive factors such as society, health, safety, law, culture and environment in the design link.

4. Research: Be able to conduct research on complex engineering problems in the field of electronic information engineering based on scientific principles and using scientific methods, including designing experiments, analyzing and interpreting data, and obtaining reasonable and effective conclusions through information synthesis.

- 4.1: Be able to analyze solutions to complex engineering problems in the electronic information field through literature research, theoretical analysis, numerical simulation and other means according to the needs of electronic information equipment and systems.

- 4.2: Be able to select research routes and design experimental schemes according to the characteristics of electronic information equipment and systems and their application needs.

- 4.3: Be able to construct experimental systems using professional knowledge of electronic information, carry out experiments safely and reliably, and effectively obtain experimental data.

- 4.4: Be able to analyze and interpret the experimental results of electronic information equipment and systems, and obtain reasonable and effective conclusions through information synthesis.

5. Use of Modern Tools: Be able to develop, select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex engineering problems in the field of electronic information engineering, including predicting and simulating complex engineering problems, and be able to understand their limitations.

- 5.1: Be able to master the principles and methods of using common modern instruments, engineering tools, information technology tools and simulation software in the electronic information field, and understand their limitations.

- 5.2: Be able to reasonably select and use the instrument tools, simulation software and information resources required for electronic information equipment and systems to analyze, calculate and design complex engineering problems.

- 5.3: Be able to use electronic information equipment and professional simulation software to predict and simulate complex engineering problems, and be able to explain their limitations.

6. Engineering and Society: Be able to conduct reasonable analysis based on the background knowledge of electronic information engineering, evaluate the impact of professional engineering practice and solutions to complex engineering problems on society, health, safety, law and culture, and understand the responsibilities to be borne.

- 6.1: Be able to master the relevant national and industry standard systems,

intellectual property rights, industrial policies and laws and regulations in the electronic information field, and be able to explain the impact of different social cultures on electronic information engineering activities.

- 6.2: Be able to reasonably analyze and evaluate the impact of electronic information engineering practice on society, health, safety, law and culture, and be able to explain the responsibilities to be borne.

7. Environment and Sustainable Development: Be able to understand and evaluate the impact of engineering practice for complex engineering problems in the field of electronic information engineering on the environment and social sustainable development.

- 7.1: Be able to implement scientific development, abide by relevant policies and regulations on environmental protection, and adhere to the concept of social sustainable development.

- 7.2: Be able to reasonably analyze and evaluate the impact of electronic information engineering practice on the environment and social sustainable development.

8. Professional Ethics: Have the literacy of humanities and social sciences and a sense of social responsibility, be able to understand and abide by engineering professional ethics and norms in electronic information engineering practice, and fulfill responsibilities.

- 8.1: Have a correct outlook on life, values and the world, be able to understand the relationship between individuals and society, understand China's national conditions, and have the literacy of humanities and social sciences and a sense of social responsibility.

- 8.2: Be able to understand and abide by the engineering professional ethics and norms of honesty, fairness and integrity in electronic information engineering practice.

- 8.3: Be able to describe the social responsibility of electronic information engineering personnel to the safety, health and well-being of the public, as well as environmental protection, and be able to consciously fulfill their responsibilities in engineering practice.

9. Individual and Team: Be able to assume the roles of individual, team member and leader in a team with a multidisciplinary background.

- 9.1: Be able to explain the composition of a team with a multidisciplinary background, as well as the roles and responsibilities of different members, and be able to effectively communicate and cooperate with members of other disciplines.

- 9.2: Be able to carry out relevant work in the electronic information field independently or cooperatively in a team.

- 9.3: Be able to act as a team leader to organize, coordinate and direct the team to carry out work.

10. Communication: Be able to effectively communicate and exchange with peers in the industry and the public on complex engineering problems in the field of electronic information engineering, including writing reports and design documents, making presentations, clearly expressing or responding to instructions, and having a certain international perspective to communicate and exchange in a cross-cultural context.

- 10.1: Be able to accurately express views and respond to questions in various ways such as oral, written and graphical forms on professional issues in the electronic information field, and be able to effectively communicate and exchange with peers in the industry and the public.

- 10.2: Be able to understand the international development trends and new research hotspots in the electronic information field, and be able to explain and respect the differences and diversity of different cultures in the world.

- 10.3: Be able to communicate and exchange well on complex engineering problems, be able to write design schemes and reports in the electronic information field, be able to clearly present and answer questions, and be able to communicate and exchange in a cross-cultural context.

11. Project Management: Understand and master the principles of engineering project management and economic decision-making methods in the field of electronic information engineering, and be able to apply them in a multidisciplinary environment.

- 11.1: Be able to master the engineering management principles and economic decision-making methods involved in the electronic information related fields.

- 11.2: Be able to recognize the cost composition of the full cycle and full process of electronic information engineering and products, and be able to understand and describe the engineering management and economic decision-making issues involved.

- 11.3: Be able to apply engineering management principles or economic decision-making methods and tools to engineering design and practice in a multidisciplinary environment.

12. Lifelong Learning: Have the awareness of independent learning and lifelong learning, and have the ability to continuously learn and adapt to development.

- 12.1: Be able to recognize the necessity of continuous exploration and learning, and have the awareness of independent learning, lifelong learning and self-improvement.

- 12.2: Be able to understand the corresponding technical problems according to personal or career development needs, and have the ability to summarize and put forward problems.

III Models

Module 1: Mathematics and Physics

- **Learning Objectives:** To master relevant knowledge in mathematics, physics, and related disciplines, laying a solid foundation for subsequent courses. Able to apply fundamental knowledge to analyze and solve practical problems.

- **Learning Outcomes:** Ability to understand and appropriately express technical problems using mathematics and physics; ability to establish basic models to analyze and solve practical engineering problems; ability to observe, analyze, and solve practical engineering problems using mathematical methods; ability to analyze, compute, and synthesize phenomena in engineering sciences based on mathematics and physics.

- **Relevant Courses:** Advanced Mathematics I (1), Advanced Mathematics I (2), Linear Algebra, Probability Theory and Statistics, Complex Functions and Integral Transformations II, College Physics II (1), College Physics II (2), College Physics Experiment II.

Module 2: Engineering Fundamentals

Learning Objectives: To master the fundamental principles and knowledge in the field of electronic information engineering, including circuit analysis, digital and analog circuits, signal processing, and computer programming, laying a solid foundation for subsequent specialized courses and the resolution of practical engineering problems.

- **Learning Outcomes:** Master the basic principles and knowledge in the field of electronic information engineering, including circuit analysis, digital and analog circuits, signal processing, high-frequency electronic circuits, engineering drawing, and computer programming; able to analyze and solve practical engineering problems in simple circuits and complex electronic systems.

- **Relevant Courses:** Introduction to Electronic Information Engineering, Fundamentals of Circuit Analysis, Fundamentals of Digital Electronic Technology, Experiment for Fundamentals of Digital Electronic Technology, Fundamentals of Analog Electronics Technology, Experiment for Fundamentals of Analog Electronics Technology, Signals and Systems I, Electromagnetic Fields and Waves, High Frequency Electronic Circuits, Digital Signal Processing, Engineering Cartography, C Language Programming.

Module 3: Engineering Applications

- **Learning Objectives:** To master solid professional knowledge and key application technologies in the field of electronic information engineering, with a strong ability to apply specialized knowledge.

- **Learning Outcomes:** Master the general methods and skills required to solve practical engineering problems; able to comprehensively apply learned knowledge to

design and optimize systems in the field of electronic information engineering, and continuously analyze, summarize, verify, and solve phenomena in engineering.

- **Relevant Courses:** Electronic Design Automation, Microcomputer Principles and Single-Chip Microcomputer Technology, Experiments for Microcomputer Principles and Single-Chip Microcomputer, Information Theory and Coding, Modern Sensor Technology, Principles of Communication II, Principle and Application of CPLD/FPGA, Intelligent Information Processing.

Module 4: Professional Electives

- **Learning Objectives:** To meet individualized learning needs based on students' course interests and career development, further expanding their professional knowledge and improving the application of their knowledge.

- **Learning Outcomes:** Master cutting-edge knowledge and skills in the field of electronic information engineering, and comprehending the roles played by other disciplines therein; understand and follow the professional ethics in engineering, and understand that compliance with laws and regulations is a fundamental criterion in engineering practice.

- **Relevant Courses:** Engineering Ethics, Engineering Project Management and Economic Decision Making, Engineering Creativity, Artificial Intelligence and Information Technology, C Language Programming II, Digital Image Processing, Embedded System Design, Pattern Recognition and Machine Learning, Deep learning, Big Data Technology and Applications.

Module 5: Foreign Languages

- **Learning Objectives:** To possess cross-cultural communication abilities and international cooperation skills.

- **Learning Outcomes:** Master the knowledge required for passing the College English Test Band 4; able to search for and read professional English literature and communicate in English about professional issues; possess cross-cultural communication skills required for career development.

- **Relevant Courses:** English for General Purpose(1), English for General Purpose(2), English for General Purpose(3), English for General Purpose(4).

Module 6: General Education

- **Learning Objectives:** To understand the social model and norms of China; to develop good character, team spirit, and humanistic values; and to achieve comprehensive development in moral, intellectual, physical, aesthetic, and labor aspects.

- **Learning Outcomes:** Master knowledge of modern Chinese history, humanistic spirit, sports, and military training; understand social phenomena; stay informed about and adapt to social development; communicate and collaborate effectively

with others; foster team spirit; promote physical and mental health and self-improvement; develop sound character and psychological qualities; hold correct views on life, values, morality, and law; possess humanistic qualities and a sense of social responsibility.

- **Relevant Courses:** Situation & Policy, Ideology, Morality and the Rule of Law, Modern Chinese History, Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, Marxism Basic Theory, Introduction to Mao Zedong Thought and Theory of Socialism with Chinese Characteristics, Introduction to Modern Chinese History, Introduction to Mao Zedong Thought and Theory of Socialism with Chinese Characteristics Practice, Military Theory, Career Development, Psychological Health Education, Employment Guidance, Physical Education(1), Physical Education(2), Physical Education(3), Physical Education(4).

Module 7: Practical Courses

- **Learning Objectives:** To consolidate theoretical knowledge, enhance understanding of applied knowledge, and develop the ability to analyze and evaluate complex engineering problems and propose solutions.

- **Learning Outcomes:** Master the ability to analyze and solve practical problems in the field of electronic information engineering; be capable of designing solutions for complex engineering problems in this field, designing systems, components, or processes that meet the needs of information acquisition, transmission, processing, and application. Able to apply engineering knowledge to analyze and evaluate problems and understand their limitations; capable of innovative design and finding valuable solutions.

- **Relevant Courses:** Understanding Practice, Use of Electronic Measuring Instruments, Metalworking Practice II, PCB and SMT Process Practice, Electronic Systems Synthetic Design, Innovation Practice(1), Electronic Technology Course Design, Virtual Course Design, Intelligent Information Processing Synthetic Design, Innovation Practice(2), Graduation Practice, Social Practice, Labor Practice, Innovation and Entrepreneurship Training.

Module 8: Graduation Dissertation(Design)

- **Learning Objectives:** To propose solutions based on the analysis of practical problems and complete real-world projects.

- **Learning Outcomes:** Be able to complete the writing of the bachelor's thesis with the help of a supervisor and pass the graduation defense.

- **Relevant Course:** Graduation Dissertation(Design).

IV Curriculum structure system

The duration of study for the Electronic Information Engineering program is four years. According to the teaching program, the curriculum is divided into eight

competency modules. Courses in different competency modules are linked chronologically.

The Mathematics and Physics modules are offered in semesters 1-3 to prepare students for subsequent specialized courses.

Courses in the Engineering Fundamentals module are offered in semesters 1-5 to prepare students for the Applied Engineering courses.

Courses in the Engineering Application Module are offered in the 3rd-6th semesters to enable students to acquire solid professional knowledge and a strong ability to apply professional knowledge.

Elective module courses are offered in semesters 1-6, mainly concentrated in semesters 4-6, to meet individualized learning needs, further expand students' professional knowledge and improve their application of knowledge according to their curricular interests and career development needs.

General Education modules are offered in semesters 1-6 to enable students to develop a correct outlook on life, values, ethics and law, humanistic qualities and a sense of social responsibility.

Foreign language modules are offered in semesters 1-4 to enable students to communicate in English about professional issues and to develop the intercultural communication skills needed for career development.

Practical modules are offered in all semesters.

The Bachelor's Dissertation is completed in the final semester. The topics of the bachelor's thesis are mainly from the supervisor's scientific research projects and the actual technical problems of the cooperative enterprises.

According to the teaching plan, after 8 semesters of study, students will obtain at least 221 ECTS credits.

V Bachelor's degree

Students who complete all courses specified in the program and earn the required number of credits can earn a bachelor's degree in engineering.

VI Curriculum of the Programme

| Curriculum of Mechanical Design, Manufacturing and Automation | | | | | | | | |
|---|---------------------------|------|------------|---------|---------------|------------------|---|--------|
| (Note: CP-Credit Point, S-Semester, L-Lecture, P-Practice) | | Type | Chinese CP | ECTS CP | Work Load | | S | Remark |
| Competence fields | Module | | | | Contact Hours | Self-Study Hours | | |
| Mathematics and Physics | Advanced Mathematics I(1) | L | 6 | 6 | 96 | 84 | 1 | |
| | Advanced Mathematics I(2) | L | 6 | 6 | 96 | 84 | 2 | |

| | | | | | | | | |
|--------------------------|--|-----|-----|---|----|----|---|--|
| | Linear Algebra | L | 3 | 3 | 48 | 42 | 2 | |
| | Probability Theory and Statistics | L | 3 | 3 | 48 | 42 | 3 | |
| | Complex Function and Integral Transformation II | L | 2 | 2 | 32 | 28 | 3 | |
| | College Physics II(1) | L | 3 | 3 | 48 | 42 | 2 | |
| | College Physics II(2) | L | 3 | 3 | 48 | 42 | 3 | |
| | College Physics Experiment II | P | 1.5 | 3 | 48 | 42 | 3 | |
| Engineering Fundamentals | Introduction to Electronic Information Engineering | L | 0.5 | 1 | 8 | 22 | 1 | |
| | Fundamentals of Circuit Analysis | L&P | 4 | 4 | 64 | 56 | 2 | |
| | Fundamentals of Digital Electronic Technology | L | 3 | 3 | 48 | 42 | 2 | |
| | Experiments for Fundamentals of Digital Electronic Technology | P | 1 | 2 | 16 | 44 | 2 | |
| | Fundamentals of Analog Electronic Technology | L | 4 | 4 | 64 | 56 | 3 | |
| | Experiments for Fundamentals of Analogy Electronics Technology | P | 1 | 2 | 16 | 44 | 3 | |
| | Signals & Systems I | L&P | 5 | 5 | 80 | 70 | 4 | |
| | Electromagnetic Fields and Waves | L&P | 3 | 3 | 48 | 42 | 4 | |
| | Digital signal processing | L&P | 3 | 3 | 48 | 42 | 5 | |
| | High Frequency Electronic Circuits | L&P | 3 | 3 | 48 | 42 | 4 | |
| | Engineering Cartography | L&P | 2 | 2 | 32 | 28 | 1 | |
| | C Language Programming | L&P | 4 | 4 | 64 | 56 | 1 | |
| Engineering | Electronic Design | L&P | 2 | 2 | 32 | 28 | 3 | |

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|-----------------------|--|-----|-----|-----|----|----|---|-------------------------------|
| Applications | Automation | | | | | | | |
| | Microcomputer Principles and Single-Chip Microcomputer Technology | L | 3 | 3 | 48 | 42 | 3 | |
| | Experiments for Microcomputer Principles and Single-Chip Microcomputer | P | 1 | 2 | 16 | 44 | 3 | |
| | Information Theory and Coding | L | 2 | 2 | 32 | 28 | 4 | |
| | Modern Sensor Technology | L&P | 2 | 2 | 32 | 28 | 5 | |
| | Principles of Communication II | L&P | 2.5 | 2.5 | 40 | 35 | 6 | |
| | Principle and Application of CPLD/FPGA | L&P | 2 | 2 | 32 | 28 | 5 | |
| | Intelligent Information Processing | L&P | 2.5 | 2.5 | 40 | 35 | 6 | |
| Professional Elective | Engineering Ethics | L | 1 | 1 | 16 | 14 | 1 | Take at least 14 ECTS credits |
| | Engineering Project Management and Economic Decision Making | L | 1 | 1 | 16 | 14 | 5 | |
| | Engineering Creativity | L | 1 | 1 | 16 | 14 | 2 | |
| | Artificial Intelligence and Information Technology | L&P | 2 | 2 | 32 | 28 | 4 | |
| | C Language Programming II | L&P | 2 | 2 | 32 | 28 | 4 | |
| | Digital Image Processing | L&P | 2 | 2 | 32 | 28 | 4 | |
| | Embedded System Design | L&P | 2 | 2 | 32 | 28 | 6 | |
| | Pattern Recognition and Machine Learning | L&P | 2 | 2 | 32 | 28 | 4 | |
| | Deep learning | L&P | 2 | 2 | 32 | 28 | 5 | |
| | Big Data Technology | L&P | 2 | 2 | 32 | 28 | 6 | |

| | | | | | | | | |
|-------------------|--|-----|---|---|----|----|-----|--|
| | and Applications | | | | | | | |
| Foreign Language | English for General Purpose(1) | L | 3 | 3 | 48 | 42 | 1 | |
| | English for General Purpose(2) | L | 2 | 2 | 32 | 28 | 2 | |
| | English for General Purpose(3) | L | 2 | 2 | 32 | 28 | 3 | |
| | English for General Purpose(4) | L | 2 | 2 | 32 | 28 | 4 | |
| General Education | Situation & Policy | L | 2 | 2 | 32 | 28 | 1-8 | Additional 8 ECTS credits in other general studies courses |
| | Ideology, Morality and the Rule of Law | L | 3 | 3 | 48 | 42 | 1 | |
| | Modern Chinese History | L | 2 | 2 | 32 | 28 | 2 | |
| | Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | L | 3 | 3 | 48 | 42 | 4 | |
| | Marxism Basic Theory | L | 3 | 3 | 48 | 42 | 5 | |
| | Introduction to Mao Zedong Thought and Theory of Socialism with Chinese Characteristics | L | 2 | 2 | 32 | 28 | 6 | |
| | Military Theory | L | 2 | 2 | 36 | 24 | 1 | |
| | Career Development | L | 1 | 1 | 16 | 14 | 1 | |
| | Psychological Health Education | L | 2 | 2 | 32 | 28 | 2 | |
| | Employment Guidance | L | 1 | 1 | 16 | 14 | 6 | |
| | Physical Education(1) | L&P | 1 | 1 | 36 | 0 | 1 | |
| | Physical Education(2) | L&P | 1 | 1 | 36 | 0 | 2 | |
| | Physical Education(3) | L&P | 1 | 1 | 36 | 0 | 3 | |
| | Physical Education(4) | L&P | 1 | 1 | 36 | 0 | 4 | |
| Practice Courses | Understanding Practice | P | 1 | 2 | 16 | 44 | 1 | |
| | Use of Electronic Measuring Instruments | P | 1 | 2 | 16 | 44 | 1 | |
| | Metalworking | P | 1 | 2 | 16 | 44 | 3 | |

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|---|---|---|---|----|-----|-----|-----|---------|
| | Practice II | | | | | | | |
| | PCB and SMT Process Practice | P | 2 | 4 | 32 | 88 | 3 | |
| | Electronic Systems Synthetic Design | P | 2 | 4 | 32 | 88 | 6 | |
| | Innovation Practice(1) | P | 2 | 4 | 32 | 88 | 6 | |
| | Electronic Technology Course Design | P | 2 | 4 | 32 | 88 | 5 | |
| | Virtual Course Design | P | 2 | 4 | 32 | 88 | 5 | |
| | Intelligent Information Processing Synthetic Design | P | 2 | 4 | 32 | 88 | 6 | |
| | Innovation Practice(2) | P | 2 | 4 | 32 | 88 | 7 | |
| | Graduation Practice | P | 2 | 8 | 64 | 176 | 8 | |
| | Social Practice | P | 2 | 4 | 96 | 24 | 1-8 | |
| | Labor Practice | P | 1 | 2 | 8 | 52 | 1-8 | 1,3,5,7 |
| | Innovation and Entrepreneurship Training | P | 2 | 6 | 32 | 148 | 1-8 | |
| Graduation Dissertation(Design) | Graduation Dissertation(Design) | P | 7 | 28 | 240 | 600 | 7,8 | |
| Total ECTS: 221 ECTS / semester: 27.625 | | | | | | | | |