浙江科技学院电子信息工程专业培养方案

一、培养目标

本专业培养具备电子技术和信息系统的基础知识、基本理论和基本技能,能从事各类电子设备和信息系统的研究、设计、开发、制造和应用的应用型高级工程技术人才。

二、毕业要求

本专业是一个电子和信息工程方面的较宽口径专业。学生主要学习信息的获取与处理、电子设备与信息系统等方面的专业知识,受到电子与信息工程实践的基本训练,具备设计、开发、应用和集成电子设备和信息系统的基本能力。毕业生应获得以下几个方面的知识和能力:

- (1) 工程知识: 能够将数学、自然科学、工程基础和专业知识用于解决复杂工程问题。
- (2) 问题分析: 能够应用数学、自然科学和工程科学的基本原理,识别、表达、并通过文献研究分析复杂工程问题,以获得有效结论。
- (3) 设计/开发解决方案: 能够设计针对复杂工程问题的解决方案,设计满足特定需求的系统、单元(部件)或工艺流程,并能够在设计环节中体现创新意识,考虑社会、健康、安全、法律、文化以及环境等因素。
- (4) 研究: 能够基于科学原理并采用科学方法对复杂工程问题进行研究,包括设计实验、分析与解释数据、并通过信息综合得到合理有效的结论。
- (5) 使用现代工具: 能够针对复杂工程问题,开发、选择与使用恰当的技术、资源、现代工程工具和信息技术工具,包括对复杂工程问题的预测与模拟,并能够理解其局限性。
- (6) 工程与社会: 能够基于工程相关背景知识进行合理分析,评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响,并理解应承担的责任。
- (7) 环境和可持续发展: 能够理解和评价针对复杂工程问题的专业工程实践对环境、社会可持续发展的影响。
- (8) 职业规范: 具有人文社会科学素养、社会责任感,能够在工程实践中理解并遵守工程职业道德和规范,履行责任。
- (9) 个人和团队: 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色。
- (10) 沟通: 能够就复杂工程问题与业界同行及社会公众进行有效沟通和交流,包括撰写报告和设计文稿、陈述发言、清晰表达或回应指令。并具备一定的国际视野,能够在跨文化背景下进行沟通和交流。
- (11) 项目管理: 理解并掌握工程管理原理与经济决策方法,并能在多学科环境中应用。
- (12) 终身学习: 具有自主学习和终身学习的意识,有不断学习和适应发展的能力。

三、毕业要求达成矩阵

| 毕业要求 | 指标点 | 相关教学活动 | 学生考核方式 |
|--|---|---|--------------------------------|
| | 1.1 掌握从事电子信息所需的微积分、微分方程、线性代数、概率论和数理统计等数学基本知识,及大学物理等自然科学基本知识,能运用于工程相关问题。 | 高等数学、大学物理、概率论与数理 统计、复变函数与积分变换、数值分 析。 | 书面考试、实验报告 |
| 1.能够将数学、自然科学、工程基础和专业知识用于解决化学工程与技术领域复杂工程问题。 | 1.2 掌握从事电子信息所需的电工电子、 计算机、自动化和通信学科等专业基础知 识,能运用与解决电子信息问题的建模、 推理和计算。 | 电路原理、模拟电子技术、数字电子技术、程序设计语言(C,C++,Java)、数据结构、单片机原理、数据库原理及应用、数据通信与计算机网络、数字通信原理、自动控制原理。 | 书面考试、课程报告 、实验报告。 |
| | 1.3掌握从事电子信息工程所需的标识与 感知、数据传输与处理、电子控制、电子 信息应用系统集成等专业核心知识,能用 于解决复杂电子信息工程问题。 | 嵌入式系统、RFID技术基础、传感器与检测技术、数据通信与计算机网络、数字通信原理、数据采集系统、电子测量技术、数字图像处理、常用集成器件应用。 | 书面考试、课程报告 、实验报告。 |
| | 2.1.掌握真实工程环境下进行工程系统实践技能,达到对复杂实际工程问题较为准确地识别和表达。 | | |
| 2、问题分析:能够应用数学、自然科学和工程科学的基本原理、识别 | 2.2 能熟练地运用文献检索、资料查询的基本方法,具有信息分析的能力,并用于复杂工程问题的分析和推理。 第 1 页 | 科技文献检索、科技文献阅读与写作 、电子技术应用设计、电子信息工程 综合课程设计、单片机应用系统设计 、专业实习、毕业设计。 | 书面考试、课程报告 、实习报告、毕业设 计文档。 |

| ┃ 、表达、开通过又献研究分析复杂 | | | |
|---|--|--|-------------------------------------|
| 工程问题,以获得有效结论。 | 2.3 能运用数学、自然科学和工程科学的 基本原理对复杂电子信息工程问题进行提 炼、定义、建模、分析和评价。 | 高等数学、大学物理、概率论与数理统计、复变函数与积分变换、数值分析、电路原理,模拟电子技术、数字电子技术,自动控制原理、数字通信原理、数据结构、电子技术应用设计、电子信息工程综合课程设计、单片机应用系统设计、专业实习、毕业设计。 | 书面考试、课程报告 、实习报告、毕业设 计文档。 |
| 3、设计/开发解决方案:能够设计 | 3.1 了解电子信息技术的应用前景、最新进展与发展动态,掌握基本创新方法,在解决复杂电子信息工程问题中具有追求创新的态度和意识。 | 电子信息工程导论、专业英语、信息 技术案例教学、电子工程高级专题、 信息工程高级专题 | 书面考试、课程报告 、实习报告、毕业设 计文档。 |
| 针对复杂工程问题的解决方案,设计满足特定需求的系统、元件(部件)或工程流程,并能够在设计环节中体现创新意识,考虑社会、健康、安全、法律、文化以及环境因素。 | 3.2 具有系统需求分析能力以及程序设计 与实现能力,能够综合运用自然科学和工 程科学的基本原理和技术手段完成电子信 息系统的规划与设计。 | 程序设计语言(C,C++,Java)、数据结构、电子信息工程导论、嵌入式系统原理、RFID原理及应用、数字通信原理、数据结构、电子技术应用设计、电子信息工程综合课程设计、专业实习和毕业设计。 | 书面考试、课程报告 、实习报告、毕业设 计文档。 |
| | 3.3 针对复杂电子信息工程问题,能综合 考虑经济、法律、健康、环境、安全、文 化等因素。 | 电子工艺实验、专业实习、毕业设计 、第二课堂。 | 书面考试、课程报告 、实习报告、毕业设 计文档。 |
| | 4.1 能够综合运用所学科学原理,针对复 杂工程问题建立合适的抽象模型,确定相 关的技术参数。 | | |
| 4、研究:能够基于科学原理并采用 科学方法对复杂工程问题进行研究,包括设计实验、分析与解释数据、并通过信息综合得到合理有效的结论。 | 4.2 根据研究需要设计实验。按照合理步骤进行实验并获取数据。 | 电子技术应用设计、课程实验、电子 信息工程综合课程设计、专业实习和 毕业设计。 | |
| | 4.3 参照科学的理论模型对比实验数据和结果,解释实验和理论模型结果的差异。 | 电子技术应用设计、课程实验、电子 信息工程综合课程设计、专业实习和 毕业设计。 | |
| 5、使用现代工具:能够针对复杂工程问题,开发、选择与使用恰当的技术、资源、现代工程工具和信息技术工具,包括对复杂工程问题的 | 5.1掌握计算机、信息网络等现代工程工 具和信息技术工具、能针对复杂工程问题 正确选择、应用,具备运用计算机及信息 网络辅助电子信息规划、设计、计算、控 制的能力。 | 通信原理、信息技术案例教学、移动 | 书面考试、实验报告 、课程报告、实习报 告、毕业设计文档。 |
| 预测与模拟,并能够理解其局限性 。 | 5.2 能够利用现代工具对复杂工程问题进行预测与模拟,并能在实践过程中领会相 关工具的局限性。 | 程序设计语言(C,C++,Java)、数据库系统、单片机原理、嵌入式系统、数字图像处理、信息技术案例教学、移动设备开发基础、移动设备开发高级专题、信息工程高级专题、电子工程高级专题、专业实习、毕业设计。 | 书面考试、实验报告 、课程报告、实习报 告、毕业设计文档。 |
| 6、工程与社会:能够基于工程相关背景知识进行合理分析,评价专业工程设计符合,工程设计符单、工程设计符号业 | 6.1了解电子信息领域国际科学技术政策,以及知识产权、信息安全等方面的法律、法规,理解工程技术伦理的基本要求。 | 电子信息工程导论、专业英语、信息 技术案例教学、电子工程高级专题、 信息工程高级专题专、业实习、毕业 设计、第二课堂。 | 课程报告、实验报告 、实习报告、毕业设 计文档。 |
| 工程实践和复杂工程问题解决方案 对社会、健康、安全、法律以及文 化的影响,并理解应承担的责任。 | 6.2能够评价电子信息工程实践中复杂问题解决方案对社会、健康、安全、法律以及文化的影响,并理解应 第 担 的 责任。 | 电子信息工程导论、专业英语、信息 技术案例教学、电子工程高级专题、 信息工程高级专题专、业实习、毕业 设计、第二课堂。 | 课程报告、实验报告 、实习报告、毕业设 计文档。 |

| 7、环境和可持续发展:能够理解和 评价针对复杂工程问题的专业工程 | 7.1 了解专业工程实践涉及的环境保护和可持续发展等方面的方针、政策和法律、 法规。 | 电子信息工程导论、专业英语、信息 技术案例教学、电子工程高级专题、 信息工程高级专题专、业实习、毕业 设计、第二课堂。 | 课程报告。 |
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| 实践对环境、社会可持续发展的影响。 | 7.2 能正确认识复杂电子信息工程问题的 工程实践对于环境和社会可持续发展的影响,在工程实践中具有良好的质量、安全 、服务和环保意识。 | 技术案例教学、电子工程高级专题、 | 课程报告、实验报告 、实习报告、毕业设 计文档。 |
| | 8.1 具备文学、哲学、政治学、社会学等基本知识,能够运用哲学的,历史的方法 认识和分析事物。 | 通识课程、沟通与职业素质、第二课 堂。 | 课堂讨论、课程报告。 |
| 8、职业规范:具有人文社会科学素养、社会责任感,能够在工程实践中理解并遵守工程职业道德和规 | 8.2 具备良好的社会公德和职业道德,具有较强的社会责任感。 | 通识课程、专业实习、沟通与职业素 质、毕业设计、第二课堂。 | 课堂讨论、课程报告 、实习报告、毕业设 计文档。 |
| 范,履行责任。 | 8.3 了解本专业相关职业和行业的生产、 设计、研究与开发的国内外行业规范和法 律法规。 | 电子信息工程导论、专业英语、信息 技术案例教学、电子工程高级专题、 信息工程高级专题专、业实习、毕业 设计、第二课堂。 | 书面考试、读书报告 、实习报告、毕业设 计文档。 |
| | 9.1 了解电子信息工程问题的多学科技术背景和技术特点,能够在团队合作中进行分工与协作,合理处理个人与团队的关系。 | 学、电子工程高级专题、信息工程高 | 课堂讨论、课程报告 、实习报告、毕业设 计文档。 |
| 9、个人和团队:能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色。 | 9.2充分理解多学科背景下团队成员的作用,能按照明确的需求承担系统设计与开 发中的基本任务。 | 电子信息工程导论、信息技术案例教学、电子工程高级专题、信息工程高级专题专题专、业实习、毕业设计、第二课堂。 | 课程报告、实习报告 、毕业设计文档 |
| | 9.3 具备一定的组织能力,能合理制定工作计划,根据团队成员的知识和能力特征分配任务,并协调完成工作任务。 | 电子信息工程导论、信息技术案例教 学、电子工程高级专题、信息工程高 级专题专、业实习、毕业设计、第二 课堂。 | 课程报告、实习报告 、毕业设计文档 |
| 10、沟通: 能够就复杂工程问题与 业界同行及社会公众进行有效沟通 和交流,包括撰写报告和设计文稿 | 10.1 具有良好的语言表达和文字组织能力,能够通过书面报告和口头陈述清晰地表达复杂电子信息工程问题的解决方案、过程和结果,与业界同行和社会公众进行有效沟通和交流。 | 电子信息工程导论、科技文献阅读与 写作、专业英语、信息技术案例教学 、电子工程高级专题、信息工程高级 专题专、业实习、毕业设计、第二课 堂。 | 课程报告、实习报告、毕业设计文档。 |
| 、陈述发言、清晰表达或回应指令。并具备一定的国际视野,能够在 跨文化背景下进行沟通和交流。 | 10.2 具有外语听说写能力,通过阅读国内外技术文献,参加学术讲座等环节,理解不同文化、技术行为之间的差异,能够在跨文化背景下进行沟通和交流,具有一定的国际视野。 | 写作、专业英语、信息技术案例教学 、电子工程高级专题、信息工程高级 | 课程报告、实习报告 、毕业设计文档。 |
| 11、项目管理:理解并掌握工程管 | 11.1 掌握管理学中的基本概念和方法,能够理解工程活动中涉及的重要经济和管理 因素。 | | 课程报告、实习报告 、毕业设计文档。 |

| 理原理与经济决策方法,并能在多 学科环境中应用。 | 11.2 能够在多学科环境中运用现代管理知识进行技术组织和管理,具备物联网系统的实施与管理能力。 | | 课程报告、实习报告、毕业设计文档。 |
|--------------------------------------|---|--|-----------------------|
| 12、终身学习: 具有自主学习和终 身学习的意识,有不断学习和适应 | 12.1 具有时间观念和效率意识,能够针对学习任务自觉开展预习、复习和总结。 | 高等数学、大学物理、概率论与数理 统计、线性代数、复变函数与积分变 换、程序设计、数据结构、电路与电 子技术、操作系统原理、计算机网络 。 | 书面考试、实验报告 、课程报告。 |
| 发展的能力。 | 12.2 对终身学习有正确的认识,能够及时 更新知识体系,有效地选择和获取新知 识,适应技术的发展和进步。 | 电子信息工程导论、科技文献阅读与 写作、专业英语、信息技术案例教学 、电子工程高级专题、信息工程高级 专题专、业实习、毕业设计、第二课 堂。 | 课程报告、实习报告 、毕业设计文档。 |

四、主干学科

电子科学与技术、信息与通信工程、计算机科学与技术

五、专业核心课程

电路原理、模拟电子技术、数字电子技术、信号与系统基础、数字信号处理、程序设计语言、单片机原理、嵌入式系统、数据通信与计算机网络、传感器与检测技术、数字通信原理等。

六、主要实践环节

军训、社会实践、电路及电子线路实验、课程设计、金工实习、工程(技术)实习、毕业设计(论文)。

七、学制、学位及毕业学分要求

- 1、学制:实行弹性学制,本科基本学制一般为4年,可提前1年毕业,最长不超过8年。
- 2、授予学位:工学学士学位
- 3、本专业毕业最低学分要求: 178

八、学分结构要求

| 课程设置及修读类型 | | 学分及占比 | | |
|------------|-----------------|--|-----|--------|
| | 体性以且及修识的 | 10000000000000000000000000000000000000 | 学分 | 学分比例 |
| |)玄)ロ オイト →ニ ン田 | 必修 | 46 | 25. 8% |
| | 通识教育课 | 选修 | 22 | 12.4% |
| 理论教学环 | 学科专业类基础课 | 必修 | 20 | 11.2% |
| 节 | | !(必修) | 21 | 11.8% |
| | 拓展复合课 | !(选修) | 16 | 9.0% |
| | 小市 | 计 | 125 | 70. 2% |
| 实践教学环 节 | 必任 | | 53 | 29.8% |
| | 合计 | | 178 | 100.0% |

Undergraduate Program in Electronic and Information Engineering

I. Educational Objectives

The aim of the programme is to bring the students as advanced professional talents with prominent performance of pratical application ability in electronic and information engineering. Students are equiped with basic knowledge, principles and skills in electronic technology and information system, and can be engaged in researching, designing, developing, manufacturing and applying various types of electronic devices and

II. Graduation Requirements

The specialty addresses broad-based curriculum and training and to provide flexibility of career choices in electronic and information engineering. The broad-based curriculums cover the information acquisition and processing as well as the specialized knowledges in the areas of electronic equipments and information systems, etc. It strikes to provide a foundation of professional practice, the students will also be able to design, develop, apply and integrate the electronic devices and information systems. The graduates should acquire the knowledge and abilities of the following aspects:

- 1. Engineering Knowledge: an ability to apply knowledge of mathematics, science, engineering and professional to solve complex engineering problems.
- 2. Problem analysis: An ability to apply basic principles of mathematics, natural sciences and engineering sciences to identify, express and analyze complex engineering problems through literature research, in order to obtain an effective conclusion.
- 3. Design / Develop Solutions: An ability to design solutions to solve complex engineering problems, design systems, devices (components) or engineering processes that meet specific needs, and being able to embody innovation in design, with consideration of social, health, safety, legal, cultural and environmental factors.
- 4. Research: An ability to use scientific methods to study complex engineering problems based on scientific principles, including the design of experiments, analysis and interpretation of data, and obtain an reasonable and effective conclusion through information synthesis.
- 5. Using modern tools: An ability to develop, select and use appropriate technologies, resources, modern engineering tools, and information technology tools for complex engineering problems, including predictions and simulations of complex engineering problems, and understanding their limitations.
- 6. Engineering and Society: An ability to rationally analyze and evaluate the impact of professional engineering practices and complex engineering solutions on society, health, safety, legal, and cultural issues, based on engineering-related background knowledge, and understanding the responsibilities to be undertaken.
- 7. Environment and sustainable development: An ability to understand and evaluate the impact of professional engineering practices on environmental and social sustainable development for complex engineering problems.
- 8. Professional norms: with the humanities and social sciences, social responsibility, understand and comply with professional ethics and norms in engineering practice, fulfill their responsibilities.
- 9. Individuals and teams: An ability to take the role of individuals, team members and the person in charge in a multidisciplinary team.
- 10. Communication: An ability to communicate effectively with industry peers and the public on complex engineering issues, including writing reports and designing documents, presentations, clear expression or responding to instructions or. And have a certain international perspective, be able to communicate and exchange in the cross-cultural context.
- 11. Project Management: Understanding and mastering engineering management principles and economic decision-making methods, and can be applied in a multidisciplinary environment.

III. Achievement Matrix of Graduation Requirements

| Graduation Requirements | Indicators of Graduation Requirements | The Main Courses and Programs | Assess ment |
|-------------------------|--|-------------------------------|----------------|
| | | | |

| | 1.1 Mastering the basic mathematical | Advanced | Written |
|--|--|--------------------------------------|-----------------------|
| | knowledge such as calculus, differential | Mathematics, College | examinat |
| | equations, linear algebra, probability | Physics, Probability Theory | ions, |
| | theory and mathematical statistics, and | and | Experim |
| | basic knowledge of natural science such | Mathematical | ental |
| | as university physics, that is needed in | Statistics, Functions of | reports, |
| | electronic information and can be | Complex Variable and | Course |
| | applied to solve engineering-related | Integral | reports, |
| | problems. | Transforms, Numerical | Internshi |
| | r | Calculation Principles of Electrical | Written |
| | | Circuits, Analog Electronics | examinat |
| | | Technology, Digit Electronics | ions, |
| | 1.2 Mastering the basic professional | Technology, Fundamentals of | , |
| | knowledge of electrical and electronic, | Programming (C | Experim |
| | computer, automation and | Language),C++ | ental |
| 1. Engineering Knowledge: an ability to | communication discipline required in | Programming, Data | reports, Course |
| apply knowledge of mathematics, | electronic information and being able to | Structure, Principle of | |
| science, engineering and professional to | use and solve the problem of electronic | Microcontroller, Java | reports, Internshi |
| solve complex engineering problems. | information modeling, reasoning and | Programming, Principles and | |
| | calculation. | Application of | p reports, |
| | | Database, Modern | Graduate |
| | | <u> </u> | |
| | 1.2 Mandanina dha ma Cantanal ann | Embedded Systems,RFID | Written |
| | 1.3 Mastering the professional core | Technology, Sensors and | examinat |
| | knowledge required in electronic | Detection | ions, |
| | information engineering, such as | Technology, Modern | Experim |
| | identification and sensing, data | Communication | ental |
| | transmission and processing, electronic | Networks, Digtial | reports, |
| | control, electronic information | Communication | Course |
| | application system integration and so on, which can be used to solve complex | Principles, Electronic | reports, |
| | electronic information engineering | Measurement | Internshi |
| | problems. | Technology, Data Acquisition | p |
| | prootents. | Systems, Digital Image | reports, |
| | | Metalworking | Written |
| | | Practice, Application and | examinat |
| | 2.1 Grasping the practical skills of | Design of Electronic | ions, |
| | engineering system under the real | Technology, Comprehensive | Experim |
| | engineering environment, to achieve | Course Design of Electronic | ental |
| | accurately identify and express of | Information | reports, |
| | complex real engineering problems. | Engineering, Mono-Chip | Course |
| | | Computers Application | reports, |
| | | System Design, Engineering | Internshi |
| | | Scientific Documents | Written |
| | | Retrieval, Science and | examinat |
| | | Technology Literature | ions, |
| | 2.2 Being able to retrieve literatures and | Reading and | Experim |
| | documents proficiently, with the ability | Writing, Application and | ental |
| | of information analysis, and being able | Design of Electronic | reports, |
| | to analyze and reason complex | Technology, Comprehensive | Course |
| 2. Problem analysis: An ability to apply | engineering problems. | Course Design of Electronic | reports, |
| basic principles of mathematics, natural | | Information | Internshi |
| sciences and engineering sciences to | | Engineering, Mono-Chip | p |
| identify express and analyze complex | | Computers Application | reports, |
| identify express and analyze complex | | compaters rippireution | 2 0 p0165, |

| I ruchury, express and anaryze complex | | | 1 |
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| engineering problems through literature | | Advanced | |
| research, in order to obtain an effective | | Mathematics, College | |
| conclusion. | | Physics, Probability Theory | Written |
| | | and | examinat |
| | | Mathematical | ions, |
| | | Statistics, Functions of | Experim |
| | 2.2 Deine elle (c. e. de le cie mineiele) | Complex Variable and | ental |
| | 2.3 Being able to use the basic principles | Integral | reports, |
| | of mathematics, natural science and | Transforms, Numerical | Course |
| | engineering science to refine, define, model, analyze and evaluate complex | Calculation, Principles of | reports, |
| | electronic information engineering | Electrical Circuits, Analog Electronics Technology, Digit | Internshi |
| | problems. | Electronics Electronics | p |
| | proofenis. | Technology, Digtial | reports, |
| | | Communication | Graduate |
| | | Principles, Principle of | project |
| | | Automatic | docume |
| | | Control, Application and | nts. |
| | | Design of Electronic | |
| | | Technology,Comprehensive | |
| | 3.1 Understanding the application | Introduction to Electronic | Written |
| | prospects, the latest developments and | Information | examinat |
| | developments trends of electronic | Engineering, Specialty | ions, |
| | information technology, mastering the | English, Case Study Based | Experim |
| | basic innovative methods, with the | Information | ental |
| | pursuit of innovation in attitudes and | Technology, Advanced Topics | reports, |
| | awareness in solving complex | of Electronic | Course |
| | engineering problems of electronic | Engineering, Advanced Topics | reports, |
| | information | of Information Engineering Fundamentals of | Internshi |
| | | Programming (C | Written |
| | | Language),C++ | examinat |
| 3. Design / Develop Solutions: An | | Programming,Data | ions, |
| ability to design solutions to solve | | Structure, Principle of | Experim |
| complex engineering problems, design | 3.2 Have the ability of system | Microcontroller, Java | ental |
| systems, devices (components) or | requirement analysis and program design | Programming,Introduction to | reports, |
| engineering processes that meet specific | and implementation, and can complete | Electronic Information | Course |
| needs, and being able to embody | the planning and designing of electronic | Engineering,Embedded | reports, |
| innovation in design, with consideration | information system by using the basic | Systems,RFID | Internshi |
| of social, health, safety, legal, cultural | principles and technical means of natural | Technology,Digtial | р |
| and environmental factors. | science and engineering science. | Communication | reports, |
| | | Principles, Application and | Graduate |
| | | Design of Electronic | project |
| | | Technology, Comprehensive | docume |
| | | Course Design of Electronic | nts. |
| | | Information | |
| | 3.3 Comprehensively considering | | Written |
| | economic, legal, health, environment, | Experiments for Electronic | examinat |
| | safety, culture and other factors for | Technology, Extracurricular | ions, |
| | complex electronic information | Teaching, Engineering | Experim |
| | engineering problems. | Technique Practice, Graduate | ental |
| | C C1 | Project (Thesis). | reports, |
| | 4.1 Using the scientific principles to | Information Theory and | Written |
| | establish an appropriate abstract model | Coding, Extracurricular | examinat |
| | for complex engineering problems, | Teaching, Engineering | ions, |
| | determine the relevant technical | Technique Practice, Graduate | Experim ental |
| 4. Research: An ability to use scientific | parameters. | Project (Thesis). | reports, |
| methods to study complex engineering | | | Topono, |

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|---|---|--|--------------------|
| problems based on scientific principles, including the design of experiments, | 4.2 Designing the experiment according to research needs, and accomplish the | Extracurricular Teaching, Engineering | Written examinat |
| analysis and interpretation of data, and | experiment and obtain the data by | Technique Practice, Graduate | ions, |
| obtain an reasonable and effective | following the reasonable steps | Project (Thesis). | Experim ental |
| conclusion through information | following the reasonable steps | Troject (Thesis). | reports |
| synthesis. | 4.3 Comparing the experimental data | | Written |
| | and results with the reference of | Extracurricular | examinat |
| | theoretical model, explain the | Teaching, Engineering Technique Practice, Graduate | ions, |
| | differences between experimental and | Project (Thesis). | Experim |
| | theoretical results. | Ţ , , , | ental |
| | | Fundamentals of | Written |
| | | Programming (C | examinat |
| | 5.1 Mastering modern engineering tools | Language),C++ | ions, |
| | and information technology tools such as | Programming,Data | Experim |
| | computer and information network, | Structure, Java | ental |
| | being able to select and apply correctly | Programming, Case Study Based Information | reports, Course |
| | for complex engineering problems, have | Technology, Foundation of | reports, |
| | the ability to use computer and | Mobile Devices | Internshi |
| 5. Using modern tools: An ability to | information network aided electronic | Development, Advanced | р |
| develop, select and use appropriate | information for planning, design, | Topics of Mobile Devices | reports, |
| technologies, resources, modern | calculation and control. | Development, Advanced | Graduate |
| engineering tools, and information | | Topics of Information | project |
| technology tools for complex | | Engineering, Advanced Topics | docume |
| engineering problems, including | | Fundamentals of | Written |
| predictions and simulations of complex | | Programming (C | examinat |
| engineering problems, and | 5.2 Using modern tools to predict and simulate complex engineering problems, and understanding the limitations of the | Language),C++ | ions, |
| understanding their limitations. | | Programming,Data | Experim |
| | | Structure, Java | ental |
| | | Programming,,Case Study | reports, |
| | | Based Information | Course |
| | relevant tools in the practice processes. | Technology,Foundation of | reports, |
| | | Mobile Devices | Internshi |
| | | Development, Advanced | p |
| | | Topics of Mobile Devices | reports, |
| | | Development, Advanced | Graduate |
| | | Introduction to Electronic | Written |
| | 6.1 Understanding the international | Information Engineering, Specialty | examinat |
| | science and technology policy in the | English, Case Study Based | ions, Experim |
| | field of electronic information, as well as laws and regulations of intellectual | Information | ental |
| 6. Engineering and Society: An ability | property and information security, and | Technology, Advanced Topics | reports, |
| to rationally analyze and evaluate the | understand the basic requirements of | of Electronic | Course |
| impact of professional engineering | engineering and technology ethics. | Engineering, Advanced Topics | reports, |
| practices and complex engineering | engineering and teemiology earnes. | of Information | Internshi |
| solutions on society, health, safety, | | Introduction to Electronic | Written |
| legal, and cultural issues, based on | (0.0) | Information | examinat |
| engineering-related background knowledge, and understanding the | 6.2 Being able to evaluate the impact of | Engineering, Specialty | ions, |
| responsibilities to be undertaken. | complex problem solutions on social, | English, Case Study Based | Experim |
| responsionities to be undertaken. | health, safety, legal, and cultural issues | Information | ental |
| | in electronic information engineering | Technology, Advanced Topics | reports, |
| | practice, and understanding the | of Electronic | Course |
| | responsibilities to be undertaken. | Engineering, Advanced Topics | reports, |
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| 7. I Understanding the principles, policies, laws and regulations of the environmental protection and sustainable development of the impact of professional engineering practices on environmental and social sustainable development for complex engineering problems. 8. Professional norms: with the humanities and social sustainable development of problems on environmental and social sustainable development for complex engineering problems on environmental and social sustainable development of complex engineering problems on environmental and social sustainable development of regineering practice of the complex engineering problems on environmental and social sustainable development, with good quality, safety, service and environmental awareness in engineering problems on environmental awareness in engineering problems on environmental awareness in engineering problems on formation and the standard problems on environmental awareness in engineering problems on environmental awareness in engineering problems on formation and international laws and regulations and industry standards of production, design research and development in the related professional industry. 9.1 Understanding the multidisciplinary technical background and technical features of electronic information and properly deal with the relationship between individual and team. 9.1 Understanding the multidisciplinary technical background and technical features of electronic information and properly deal with the relationship between individual and team. 9.1 Understanding the multidisciplinary technical background and technical features of electronic information and properly deal with the relationship between individual and team. 9.1 Understanding the multidisciplinary technical background and technical features of electronic information and properly deal with the relationship between individual and team. 9.1 Understanding the multidisciplinary technical background and technical features of electronic information and properly deal with the relations | | | | |
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| development: An ability to understand and evaluate the impact of professional engineering protection on engineering protection engineering engineering protection engineering engineering protection engineering engineering protection engineering engineering engineering protection engineering eng | 7 Environment and sustainable | engineering practice. | of Electronic | Course |
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| I | <u>r </u> | Introduction to Planta. | White |
|---|--|---|-----------------------|
| | | Introduction to Electronic | Written |
| | 0.0 Will 1 Will 2 | Information | examinat |
| | 9.3 With an ability of a certain | Engineering, Specialty | ions, |
| | organizational skills, being able to | English, Case Study Based | Experim |
| | develop a reasonable work plan, and | Information | ental |
| | assign tasks according to the knowledge | Technology, Advanced Topics | reports, Course |
| | and ability of team members, and | of Electronic Engineering, Advanced Topics | |
| | coordinate to complete the task. | of Information | Internshi |
| | | Engineering, Engineering | |
| | | | р |
| | 10.1 Have good expressional and written | Introduction to Electronic | Written |
| | organizational skills, be able to clearly | Information | examinat |
| | express the solutions, processes and | Engineering, Specialty | ions, |
| | results of complex electronic | English, Case Study Based | Experim |
| | information engineering problems | Information | ental |
| 10. Communication: An ability to | through written reports and oral | Technology, Advanced Topics | reports, |
| communicate effectively with industry | presentations, communicate and | of Electronic | Course |
| peers and the public on complex | exchange effectively with industry peers | Engineering, Advanced Topics | reports, |
| engineering issues, including writing | and the general public. | of Information | Internshi |
| reports and designing documents, | | Engineering, Engineering | p |
| presentations, clear expression or | 10.2 Have good foreign language | Introduction to Electronic | Written |
| responding to instructions or. And have | | Information | examinat |
| a certain international perspective, be | understanding the differences between | Engineering, Specialty | ions, |
| able to communicate and exchange in | different cultural and technical | English, Case Study Based | Experim |
| the cross-cultural context. | | Information | ental |
| | and exchange with each other in a cross- | Technology, Advanced Topics of Electronic | reports, Course |
| | cultural context, and have a certain | Engineering, Advanced Topics | |
| | international perspective through reading | of Information | reports, Internshi |
| | the domestic and foreign technical | Engineering, Engineering | р |
| | literature and academic lectures and | Technique Practice, Graduate | reports, |
| | other sectors. | Project | Graduate |
| | | Introduction to Electronic | Written |
| | | | |
| | | Information | examinat |
| | 11.1 Mastering the basic concepts and | English Case Study Based | ions, |
| | methods of management, being able to | English, Case Study Based Information | Experim ental |
| | understand the important economic and | Technology, Advanced Topics | |
| | managerial factors that are involved in | of Electronic | Course |
| 11. Project Management: | engineering activities. | Engineering, Advanced Topics | |
| Understanding and mastering | | of Information | reports, Internshi |
| engineering management principles and | | p · · p · · | |
| economic decision-making methods, | | Introduction to Electronic | Written |
| and can be applied in a | 11.2 Being able to use modern | Information | examinat |
| multidisciplinary environment. | management knowledge in a | Engineering, Specialty | ions, |
| | multidisciplinary environment for | English, Case Study Based | Experim |
| | technical organization and management, | Information | ental |
| | with the ability of implementation and | Technology, Advanced Topics | reports, |
| | management capabilities of electronic | of Electronic | Course |
| | information systems. | Engineering, Advanced Topics | reports, |
| | mornation by bronis. | of Information | Internshi |
| | | Engineering Engineering | n |

| 12. Lifelong learning: Have a sense of self-learning and lifelong learning, and ability of continuous learning and adapt to the development. | 12.1 With the concept of time and efficiency awareness, being able to carry out consciously preview, review and summarize for learning task. | Electrical Circuits, Analog Electronics Technology, Digit Electronics Technology, Digital Communication Principles, Principle of Automatic Control, Application and Design of Electronic | Written examinat ions, Experim ental reports, Course reports, Internshi p reports, Graduate project docume nts. |
|--|---|---|---|
| | 12.2 Have a correct understanding of lifelong learning; be able to update the knowledge system timely, effectively select and acquire new knowledge to meet the development and progress of technology. | Technology, Comprehensive Introduction to Electronic Information Engineering, Specialty English, Case Study Based Information Technology, Advanced Topics of Electronic Engineering, Advanced Topics of Information | Course |

IV. Major Disciplines

Electronic Science and Technology, Information and Communication Engineering, Computer Science and Technology

V. Core Courses

Circuit theory, Analog Electronic Technology, Digital Electronic Technology, Fundamentals of Signals and System, Programming languages, Principle of Microcontroller, Embedded Systems, Modern Communication Networks, Digital Signal Processing, Sensing and Detection Technology, Digital Communication Principles, etc.

VI. Internship and Practice

Military training, social practice, circuit and electronic circuit experiment curriculum design, metalworking, engineering (technology) internship, graduation design (thesis).

VII. Duration of Schooling, Degree and Credits Requirements for Graduation

- 1. Duration of Schooling: The length of schooling is flexible, generally it lasts four years. The students can graduate one year in advance or within 8 years.
- 2. Degree Conferred: Bachelor's degree in Engineering.
- 3. The Minimum Graduation Credits: 178 Credits

VIII. Credits Structure and Ratio:

| The curriculum Provision | nd Course Type | Credits | Credits Ratios |
|--------------------------|----------------|---------|----------------|
| General Educat | Required on | 46 | 25.8% |

| | Courses | Optional | 22 | 12.4% |
|----------------------|--------------------------------------|----------|-----|--------|
| Theory Teaching | Discipline & Specialty Basic Courses | Required | 20 | 11.2% |
| reacting | Specialized Co (Requi | | 21 | 11.8% |
| | Expand and Recom (Optio | | 16 | 9.0% |
| | Subto | tal | 125 | 70.2% |
| Practice Teaching | Requi | red | 53 | 29.8% |
| | Total | | 178 | 100.0% |

课程设置与学时安排(表一)

专业名称: 电子信息工程

| | 止 石 彻 | N: 4 | 子信息工程 | | | | | 教学 | 学安排 | lŧ . | | | | | 各学 | :期周: | 学时を | 分配 | | | |
|------|--------------|-------------------|-----------------------|---|--------|--------|-----|----------|-----|--------|--------|--------|--------|--------|-----|--------|--------|-----------|-----|-----|------------|
| 课程 | i 利 | 果旦 | 课 程 | | 兴 | 总 | | 实 | 习 | 研 | 课 | 考试 | | 学年 | 第二 | 学年 | 第三 | 学年 | | | |
| 类 | 性 | _王 生 | 代 | 课程名称 | 学 分 | 学 时 | 理论 | 学验 时实 | 题学 | 讨 学 | 外 学 | \ 学 | 长 1 | 长 2 | 长 3 | 长 4 | 长 5 | 4 6 | 长 7 | 长 8 | 备注 |
| 别 | 厉 | | 码 | | | μΊ | 子刊 | n 头 践 | 子时 | 子时 | 子时 | 期 | 16周 | 16周 | 16周 | 16周 | 16周 | 16周 | 16周 | 16周 | |
| | | | 2615A101 | 中国近现代史纲要 Outline of Contemporary Chinese History | 3 | 48 | 32 | 16 | 2 | 4 | | 1 | 2 | | | | | | | | |
| | | | 2615A079 | 思想道德修养与法律基础 Fundamentals of Morality and Law | 3 | 48 | 36 | 2 | 4 | 6 | | 2 | | 3 | | | | | | | |
| | 思政类 | 必修 | 2615A080 | 马克思主义基本原理概 论 Introduction to Fundamental Principles of Marxism | 3 | 48 | 36 | 2 | 4 | 6 | | 3 | | | 3 | | | | | | |
| | | | 2615A102 | 毛泽东思想与中国特色 社会主义理论体系概论 Introduction to Mao Zedong's Thought and Theoretical System of Socialism with Chinese Characteristics | 3 | 48 | 32 | 16 | 4 | 8 | | 4 | | | | 4 | | | | | |
| | | | | 形势与政策 Situation and Policy | 2 | 32 | 32 | | | | | | | 长1 | 4讲座 | | | | | | |
| | 外语 | 必: | 5214A002 5214A004 | 大学英语2-3 工程师英语1-2 College English 2-3 Engineer English 1-2 | 10 | 160 | 124 | | 18 | 18 | 160 | 1-4 | 3 | 3 | 2 | 2 | | | | | 实施分 级教学 |
| | 类 | 修 | 5214A003 5214A004 | 大学英语3-4 工程师英语1-2 College English 3-4 Engineer English 1-2 | | | | | 10 | | | | | | _ | _ | | | | | 2选1 |
| | 体育类 | 必修 | 1316A007- 1316A010 | 体育1-4 Physical Education 1-4 | 4 | 144 | | | 144 | | | 1-4 | 2 | 2 | 2 | 2 | | | | | |
| 通识教 | | | 1011A120 1011A121 | 高等数学A++1-A++2 Advanced Mathematics A++1-A++2 | 12 | 192 | 136 | | 34 | 22 | 290 | 1-2 | 6 | 6 | | | | | | | |
| 教育课程 | | | 1011A107 | 线性代数B Linear Algebra B | 2 | 32 | 24 | | 4 | 4 | 32 | 2 | | 2 | | | | | | | |
| 在 | 数理 | 必 | 1011A113 | 概率论与数理统计A Probability Theory and Mathematical Statistics A | 3 | 48 | 34 | | 8 | 6 | 48 | 3 | | | 3 | | | | | | |
| | 基础类 | 修 | 1011A116 | 复变函数与积分变换 Functions of Complex Variable and Integral Transforms | 2 | 32 | 24 | | 4 | 4 | 32 | 3 | | | 2 | | | | | | |
| | | | 1012A110 1012A111 | 大学物理B1-2 College Physics B | 5 | 80 | 48 | | 20 | 12 | 80 | 2-3 | | 3 | 2 | | | | | | |
| | | | 0211A001 | 数值计算 Numerical Calculation | 2 | 32 | 28 | | 2 | 2 | | 4 | | | | 2 | | | | | |
| | 业 类 创 新 创 | 必修 | 3717A039 | 创业基础 Entrepreneurial Fundamental | 2 | 32 | 26 | | | 6 | 16 | | | 2 | | | | | | | |

| | 炭 炭 火 素 | 必修 | 5115A087 | 大学语文 College Chinese | 2 | 32 | 10 | 6 | 4 | 12 | | | 2 | | | | | | | | |
|--------|------------------|----|-----------------------|--|-----|------|-----|----|-----|-----|-----|---|----|----|----|----|---|---|---|---|----|
| | 就健 | | 2717A122 | 大学生心理健康教育 Mental Health Education for College Students | 1 | 16 | 8 | | 4 | 4 | | 1 | 1 | | | | | | | | |
| | | 必修 | 31117082- 31117083 | 大学生职业发展与就业 指导1-2 Career Planning and Guidance for College Students 1-2 | 1 | 16 | 16 | | | | | | | | 2 | | | 2 | | | |
| | 素质选 | 修 | 8个学分 必修,课 | 自然科学拓展及工程技术拓展之外的课程群至少选修6个学分 | 6 | 96 | 96 | | | | | | | 2 | 3 | 3 | | | | | |
| | 课 | | 程选修 | 自然科学拓展及工程技术拓展课程群至少选修2个学分 | 2 | 32 | 32 | | | | | | | | 3 | | | | | | |
| | | | 通识教育 | 了类课程小计 | 68 | 1168 | 774 | 42 | 256 | 114 | 658 | | 16 | 23 | 19 | 13 | 0 | 2 | 0 | 0 | |
| | | | 0222A006 | 0222A006智能信息技术 导论(Introduction to Intelligent Information Technology) | 0.5 | 8 | 8 | | | | | | 2 | | | | | | | | |
| | | • | 0223A003 | 程序设计基础(C语言) Fundamentals of Programming(C | 3 | 48 | 48 | | | | 48 | 1 | 3 | | | | | | | | |
| 学 | | • | 0222A002 | 电路分析基础 Principles of Electrical Circuits | 3 | 48 | 38 | | 6 | 4 | 48 | 2 | | 3 | | | | | | | |
| 学科专业基础 | 必修 | X. | 0222A124 | 模拟电子技术B Analog Electronics Technology B | 3.5 | 56 | 44 | | 8 | 4 | 36 | 3 | | | 4 | | | | | | |
| 基础课程 | | | 0222A125 | 数字电子技术B Digit Electronics Technology B | 3 | 48 | 38 | | 6 | 4 | 32 | 3 | | | 3 | | | | | | |
| 71-1. | | • | 0222A003 | C++程序设计 C++ Programming | 2 | 32 | 28 | | 4 | | 32 | 4 | | | | 2 | | | | | |
| | | | 0222A004 | 信号与系统基础 Fundamentas of Signals and Systems | 3 | 48 | 44 | | 4 | | 48 | 4 | | | | 3 | | | | | |
| | | | 0222A005 | 算法与数据结构 Algorithms and Data Structure | 2 | 32 | 28 | | 4 | | 32 | 5 | | | | | 2 | | | | |
| | | | 学科专业 | 基础课程小计 | 20 | 320 | 276 | 0 | 32 | 12 | 228 | | 5 | 3 | 7 | 5 | 2 | 0 | 0 | 0 | |
| | | | 0232A001 | 单片机原理 Principle of Microcontroller | 3 | 48 | 42 | | 4 | 2 | 48 | 4 | | | | 3 | | | | | |
| | | | 0232A002 | Java程序设计 Java Programming | 2 | 32 | 30 | | 2 | | 32 | 4 | | | | 2 | | | | | |
| | | ļ | 0232A003 | 嵌入式系统 Embedded Systems | 2 | 32 | 28 | | 4 | | 32 | 5 | | | | | 2 | | | | 注1 |
| 专 | | | 0232A004 | 数字信号处理 Digital Signal Processing | 2.5 | 40 | 36 | | 4 | | 40 | 5 | | | | | 3 | | | | 双语 |
| 专业核心课程 | 必 修 | | 0232A005 | 传感器与检测技术 Sensors and Detection Technology | 2 | 32 | 28 | | 4 | | 32 | 5 | | | | | 2 | | | | |
| 课程 | | | 0232A006 | 数字图像处理 Digital Image Processing | 2 | 32 | 28 | | | 4 | 32 | 6 | | | | | | 2 | | | |

| | | | 0232A007 | 数据通信与计算机网络 Modern Communication Networks | 3 | 48 | 36 | 8 | 4 | | 48 | 6 | | | | | | 3 | | | |
|-------|----------|--------------------|----------|---|-----|-----|-----|----|----|---|-----|---|---|---|---|---|---|---|---|---|----|
| | | | 0232A008 | 数字通信原理 Digtial Communication Principles | 2.5 | 40 | 36 | | 4 | | 40 | 6 | | | | | | 3 | | | 双语 |
| | | 0232A009 专业 | | RFID技术基础 RFID Technology | 2 | 32 | 28 | | 4 | | 32 | 7 | | | | | | | 4 | | |
| | | 模块 0242B001 | | 《心课小 计 | 21 | 336 | 292 | 8 | 30 | 6 | 336 | | 0 | 0 | 0 | 5 | 7 | 8 | 4 | 0 | |
| | | | | EDA-电子设计自动化技术 Electronic Design Automation | 2 | 32 | 12 | 16 | 4 | | 32 | | | | | | 2 | | | | |
| | | | | 信息技术案例教学 Case Study Based Information Technology | 2.5 | 40 | 20 | 16 | 4 | | 40 | | | | | | 3 | | | | |
| | | | | FPGA与数字系统设计 FPGA and Digital System Design | 2.5 | 40 | 28 | 8 | 4 | | 40 | 6 | | | | | | 3 | | | |
| | 专业拓 |) | 0242B004 | 电子工程高级专题 Advanced Topics of Electronic Engineering | 2.5 | 40 | 20 | 16 | 4 | | 40 | | | | | | | 3 | | | |
| .lar- | 展 | | | 小计 | 10 | 152 | 80 | 56 | 16 | | 152 | | 0 | 0 | 0 | 0 | 5 | 6 | 0 | 0 | |
| 拓展 | 按 | | 至 | 少选修学分 | 6 | 96 | 96 | | | | | | | | | | | | | | |
| 复合课 | 模块选修 | 模 | 0242B005 | 移动设备开发基础 Foundation of Mobile Devices Development | 3 | 48 | 28 | 16 | 4 | | 48 | 5 | | | | | 3 | | | | |
| | <u>)</u> | 块 2 (信 | 0242B002 | 信息技术案例教学 Case Study Based Information Technology | 2.5 | 40 | 20 | 16 | 4 | | 40 | | | | | | 3 | | | | |
| | | 息工程方向 | 0242B006 | 移动设备开发高级专题 Advanced Topics of Mobile Devices Development | 2 | 32 | 20 | 8 | 4 | | 32 | | | | | | | 2 | | | |
| | | 恒) | 0242B007 | 信息工程高级专题 Advanced Topics of Information Engineering | 2.5 | 40 | 20 | 16 | 4 | | 40 | | | | | | | 3 | | | |
| | | | | 小计 | 10 | 160 | 88 | 56 | 16 | | 160 | | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 0 | |
| | | | | 少选修学分 | 6 | 96 | 96 | | | | | | | | | | | | | | |
| | | | 专业拓展 | 至少选修学分 | 6 | 96 | 96 | | | | | | | | | | | | | | |
| | | | 0242B008 | 信息论与编码 Information Theory and Coding | 2.5 | 40 | 28 | 8 | 4 | | | 5 | | | | | 3 | | | | |
| | | 0242B00 0222B01 | | 电子测量技术 Electronic Measurement Technology | 2.5 | 40 | 28 | 8 | 4 | | | 5 | | | | | 3 | | | | |
| | | | | 数据库原理及应用 Principles and Application of Database | 2.5 | 40 | 28 | 8 | 4 | | | 5 | | | | | 3 | | | | |
| | | | 0242B012 | 工程电磁场 Electromagnetic Fields | 2.5 | 40 | 36 | | 4 | | | 5 | | | | | 3 | | | | |
| | | | 0246B029 | 专业英语 Specialty English | 2 | 32 | 32 | | | | | | | | | | 2 | | | | |
| | | | 0246B028 | 通信电子电路 Communication Electronic Circuits | 3 | 48 | 34 | 8 | 6 | | | 6 | | | | | | 3 | | | |

| 专 业 | 0246B032 | Zigbee 技术 ZigBee Technology | 2 | 32 | 20 | 8 | 2 | 2 | | 6 | | | | | | 2 | | | 注1 |
|--------|----------|--|-----|------|-----|----|----|---|---|---|---|---|---|---|----|----|----|---|----|
| 复合课 | 0242B013 | 数据采集系统 Data Acquisition Systems | 2.5 | 40 | 28 | 8 | 4 | | | | | | | | | 3 | | | |
| in the | 0246B031 | DSP及其应用 DSP and Its Applications | 3 | 48 | 28 | 16 | 2 | 2 | | | | | | | | 3 | | | |
| | 0246B027 | 科技文献阅读与写作 Science and Technology Literature Reading and Writing | 2 | 32 | 14 | 16 | | 2 | | | | | | | | 2 | | | |
| | 0246B038 | 自动控制原理 Automatic Control Principle | 2 | 32 | 22 | 8 | 2 | | | 7 | | | | | | | 4 | | |
| | 0246B036 | 人工智能导论 Introduction of Artificial Intelligence | 2 | 32 | 22 | 8 | | 2 | | | | | | | | | 4 | | |
| | 0242B014 | 沟通与职业素质 Communcation and Career Quality | 0.5 | 8 | 8 | | | | | | | | | | | | 2 | | |
| | | 小计 | 29 | 464 | 328 | 96 | 32 | 8 | 0 | | 0 | 0 | 0 | 0 | 14 | 14 | 10 | 0 | |
| | 专业 | 复合至少选修学分 | 10 | 160 | | | | | | | | | | | | | | | |
| 专 | 业拓展复合 | 至少选修学分合计 | 16 | 256 | | | | | | | | | | | | | | | |
| | 理论教学学 | 分学时合计 | 125 | 2080 | | | | | | | | | | | | | | | |

注1: 准备建设为企业(培训)引进课程。

实践教学安排(表二)

| 课 | 所 | | | 周 | | | ł | 安学其 | 月分配 | 已(周: | 或周 | 学时) | | | | |
|----------|--------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 程 | 属 | 实践教学活动名称 | 学 | 或 | 第 | 三学 | 年 | 穿 | 5二学 | :年 | 第 | 三学 | 年 | 第匹 | 学年 | 备注 |
| 代码 | 模块 | 天政权于旧幼石师 | 分 | 学 时 | 长 1 | 长 2 | 短 1 | 长 3 | 长 4 | 短 2 | 长 5 | 长 6 | 短 3 | 长 7 | 长 8 | 田红 |
| 31461014 | | 大学始业教育 Induction of University Life | 1 | 1周 | 1周 | | | | | | | | | | | |
| 13461013 | | 军事理论及训练 Military Theory and Training | 4 | 4周 | 4周 | | | | | | | | | | | |
| 13461015 | 公 共 | 体质健康训练 Health Training | 0.5 | 16 | | | | | | | | 2 | | | | |
| 31463007 | 实践 | 思政社会实践 Ideological Social Practice | 2 | 2周 | | | | | | 2 | | | | | | |
| 31467084 | | 大学生职业发展与就业指导实践 Practice of Career Planning and Guidance for College Students | 1 | 22 | | | | | | | 22 | | | | | |
| 1012A022 | | 大学物理实验B Physical Experiment of College B | 1 | 33 | | 3 | | | | | | | | | | |
| 0261A201 | | 数值计算实验 Experiments for Numerical Calculation | 0.5 | 16 | | | | | 2 | | | | | | | |
| 0267A101 | | 程序设计基础(C语言)实验 Experiments in Fundamentals of Programming(C Language) | 0.5 | 16 | 2 | | | | | | | | | | | |
| 0261A203 | 基础实验 | 电路分析基础实验 Experiments of Circuit Principles | 0.5 | 16 | | | | 2 | | | | | | | | |
| 0261A204 | | 低频电子线路实验 Experiments for Low Frequency Electric Circuit | 0.5 | 16 | | | | 2 | | | | | | | | |
| 0261A205 | | 数字逻辑实验 Experiments for Digital Logic | 0.5 | 16 | | | | 2 | | | | | | | | |
| 0261A206 | | C++程序设计实验 Experiments for C++ Programming | 0.5 | 16 | | | | | 2 | | | | | | | |
| 0261A207 | | 算法与数据结构实验 Experiments for Algorithms and Data Structure | 0.5 | 16 | | | | | | | 2 | | | | | |
| 0261A208 | | 单片机原理实验 Experiments for Principle of Microcontroller | 0.5 | 16 | | | | | 2 | | | | | | | |
| 0261A209 | | Java程序设计实验 Experiments for Java Programming | 0.5 | 16 | | | | | 2 | _ | | | | | | |
| 0261A210 | | 嵌入式系统实验 Experiments for Embedded Systems | 0.5 | 16 | | | | | | | 2 | | | | | |
| 0261A211 | 专业 | 数字信号处理实验 Experiments for Digital Signal Processing | 0.5 | 第 | 23 | 页 | | | | | 2 | | | | | |

| 0261A212 | 大实 验 | 传感器与检测技术实验 Experiments for Sensors and Detection Technology | 0.5 | 16 | | | | | 2 | | | | | |
|----------|----------|---|-----|----|--|---|---|---|---|---|---|----|----|--|
| 0261A213 | | 数字图像处理实验 Experiments for Digital Image Processing | 0.5 | 16 | | | | | | 2 | | | | |
| 0261A214 | | 数字通信原理实验 Experiments for Digtial Communication Principles | 0.5 | 16 | | | | | | 2 | | | | |
| 0261A215 | | RFID技术基础实验 Experiments for RFID Technology | 0.5 | 16 | | | | | | | | 2 | | |
| 0254A201 | | Java程序设计课程设计 Design of Java Programming | 1 | 1 | | | 1 | | | | | | | |
| 0254A202 | 专项 设计 | 单片机应用系统课程设计 Mono-Chip Computers Application System Design | 1 | 1 | | | | 1 | | | | | | |
| 0254A203 | | 模块方向综合课程设计 Comprehensive Course Design of Modules Direction | 1 | 1 | | | | | | | 1 | | | |
| 3752A019 | | 电工电子实习A Electrics and Electronic Practice A | 2 | 2 | | 2 | | | | | | | | |
| 3752A018 | 实践 | 金工实习B Metalworking Practice B | 2 | 2 | | 2 | | | | | | | | |
| 0251A201 | 专业 | 工程技术实习 Engineering Technique Practice | 10 | 10 | | | | | | | | 10 | | |
| 0257A501 | 实践 | 毕业设计(论文) Graduate Project (Thesis) | 16 | 16 | | | | | | | | | 16 | |
| 31462009 |] | 第二课堂 Extracurricular Teaching | 3 | | | | | 3 | | | | | | |
| | | 合计 | 53 | | | | | | | | | | | |

