九、教学进程计划表

表 2 软件工程专业 教学进程计划总表

| | | | | 表 2 软件工程专业 | 秋丁 | 从中 | VI ZUV | 四 40 | | | | | | | |
|--------|---------|--------------|----------|--|----|----------|---------|-------------|---------|-----|--------|----|----|----------|----|
| | | | | | | | | | | 其 中 | 1 | 1 | 考 | | |
| | 呈类 別 | 课程性质 | 课程编号 | 课程名称 | 学分 | 课内 学分 | 总学 时 | 讲授 | 面 实验 | | 实践 | 线上 | | 开课 学期 | |
| | | 必修 | MC006001 | 思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law | 3 | 3 | 48 | 48 | | | | | 考试 | 1 | |
| | | 必修 | MC006002 | 中国近现代史纲要 Outline of Modern Chinese History | 3 | 3 | 48 | 48 | | | | | 考试 | 2 | |
| | | 必修 | MC006003 | 马克思主义基本原理 Theory of Marxism | 3 | 3 | 48 | 48 | | | | | 考试 | 3 | |
| | | 必修 | MC006004 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thought and The theory of socialism with Chinese characteristics | 3 | 3 | 48 | 48 | | | | | 考试 | 4 | |
| | | 必修 | MC006005 | 形势与政策 Situation and Policy Education | 2 | 1 | 64 | 32 | | | 32 | | 考查 | 1~8 | |
| | | 必修 | MC006007 | 思想政治理论实践课 Practical Course of Ideological And Political | 2 | | 32 | | | | 32 | | 考查 | 1~4 | |
| | | 必修 | AM006001 | 军事理论 Military Theory | 2 | 1.5 | 32 | 24 | | | 8 | | 考试 | 1 | |
| 通识教育课程 | 通识教育基础课 | 必修 | AM006002 | 军事训练 Military Training | 1 | | 2周 | | | | 2 周 | | 考查 | 1 | 57 |
| 课程 | 基础课 | 必修 | MC006006 | 大学生心理健康教育 The Psychological Health education of College Students | 1 | 0.5 | 16 | 8 | | | 8 | | 考查 | 2 | |
| | | 必修 | TS006001 | 新生研讨课 Freshman Seminar Course | 1 | 1 | 16 | 16 | | | | | 考查 | 1 | |
| | | 必修 | FL006001 | 大学英语(I)College English(I) | 2 | 2 | 32 | 32 | | | | | 考试 | 1 | |
| | | 必修 | FL006002 | 大学英语(II)College English(II) | 2 | 1.5 | 32 | 24 | | | | 8 | 考试 | 2 | |
| | | 必修 | FL006003 | 大学英语中级 (I)Intermediate English(I) | 2 | 1.5 | 32 | 24 | | | | 8 | 考试 | 3 | |
| | | 选修 (二选 一) | FL006004 | 大学英语中级 (II)Intermediate English (II) (未通过国家英语四级修读) 高级英语选修系列课程 (通过国家英语四级后修读)Elective Courses of Advanced English | 2 | 1.5 | 32 | 24 | | | | 8 | 考试 | 4 | |
| | | 必修 | HE006001 | 大学体育(I)Physical Education(I) | 1 | | 30 | | | | | | 考试 | 1 | |

| | 必修 | HE006002 | 大学体育(II)Physical Education(II) | 1 | | 30 | | | | | | 考试 | 2 | |
|---------|----|----------|---|-----|-----|------|-----|----|------------|----|------|----|------------------------|----|
| | 必修 | HE006003 | 大学体育(III)Physical Education(III) | 1 | | 30 | | | | | | 考试 | 3 | |
| | 必修 | HE006004 | 大学体育(IV)Physical Education(IV) | 1 | | 30 | | | | | | 考试 | 4 | |
| | 必修 | MS006001 | 高等数学 A(I)Advanced Mathematics A(I) | 5 | 5 | 80 | 80 | | | | | 考试 | 1 | |
| | 必修 | MS006002 | 高等数学 A(II)Advanced Mathematics A(II) | 5 | 4.5 | 80 | 72 | | | | 8 | 考试 | 2 | |
| | 必修 | MS006007 | 线性代数 Linear Algebra | 2.5 | 2.5 | 40 | 38 | | | 4 | | 考试 | 2 | |
| | 必修 | MS006008 | 概率论与数理统计 Probability Theory and Mathematical Statistics | 2.5 | 2.5 | 40 | 40 | | | | | 考试 | 3 | |
| | 必修 | PY006001 | 大学物理(I)Physics(I) | 3.5 | 6.5 | 58 | 54 | | | | 4 | 考试 | 2 | |
| | 必修 | PY006002 | 大学物理(II)Physics(II) | 3.5 | 0.5 | 54 | 50 | | | | 4 | 考试 | 3 | |
| | 必修 | PY006003 | 物理实验(I)Physical Experiment(I) | 1 | 1 | 13.5 | | 27 | | | | 考查 | 2 | |
| | 必修 | PY006004 | 物理实验(II)Physical Experiment(II) | 1 | 1 | 13.5 | | 27 | | | | 考查 | 3 | |
| | | 小i | i l | 59 | | 1011 | 742 | 54 | 0 | 84 | 40 | | | 57 |
| | 必修 | TS001001 | 工程概论(I)Introduction to Engineering(I) | 1 | 1 | 16 | 16 | | | | | 考查 | 2 | |
| | 必修 | TS001002 | 工程概论(II)Introduction to Engineering(II) | 1 | 1 | 16 | 16 | | | | | 考查 | 3 | |
| | 必修 | TS001003 | 工程概论(III)Introduction to Engineering(III) | 1 | 1 | 16 | 16 | | | | | 考查 | 5 | |
| 通识教育 | 必修 | TS001004 | 工程概论(IV)Introduction to Engineering (IV) | 1 | 1 | 16 | 16 | | | | | 考查 | 7 | 8 |
| 通识教育核心课 | 必修 | | 交流强化课程 | 1 | | 根据等 | | | 交流 1 学 | | 二课程3 | 列表 | 1~4 | |
| | 必修 | CS001001 | 学科导论(各专业大类自 定) | 1 | 1 | 16 | 16 | | | | | 考查 | 2 | |
| | 必修 | EM001001 | 创业基础 Entrepreneurial Base | 2 | 0.5 | 32 | 8 | | | | 24 | 考查 | 3 或 4 或 5 或 6 | |
| | | 小i | it | 8 | 5.5 | 112 | 88 | 0 | 0 | 0 | 24 | | | 8 |

| | | 选修 | | 人文社科 | | | - | | | | | | | | | | |
|-------|--------|----|-----------|--|-----|-----|-----|-----|---|----|------------------------|-----|----|---|------|--|--|
| | 通 | 选修 | | 自然科学 | | | | | | | | 每个* | | | | | |
| | 识教育选 | 选修 | | MOOC 课程 | 8 | 8 | | | | | \sim 2 $\frac{1}{2}$ | 学分国 | | | 8 | | |
| | 修课 | 选修 | | 国际发展 | | | | | | | | | | | | | |
| | | | 小i | it | 8 | 8 | | | | | | | | | 8 | | |
| | I | 必修 | CS006001 | 计算机导论与程序设计 Introduction of Computer and Program Design | 4 | | 64 | 44 | | 40 | | | 考试 | 1 | | | |
| | | 必修 | CS203013 | 离散数学(I)Discrete Mathematics(I) | 3 | | 52 | 52 | | | | | 考试 | 3 | | | |
| | | 必修 | CS263006 | 软件工程概论 Introduction to Software Engineering | 2 | | 32 | 32 | | | | | 考试 | 4 | | | |
| | | 必修 | CS263004 | 数据结构 Data Structures | 4 | | 68 | 54 | | 28 | | | 考试 | 3 | | | |
| ナヺ | 大类 | 必修 | CS263001 | 电路与电子技术基础 Fundamentals of Circuits and Electronic Techniques | 3.5 | | 56 | 56 | | | | | 考试 | 3 | 28 | | |
| 基 研证 | 大类基出果 | 必修 | CS263003 | 数字电路与系统设计 Digital Circuits and System Design | 3 | | 52 | 52 | | | | | 考试 | 4 | | | |
| | | 必修 | CS262007 | 面向对象程序设计 Object-Oriented Programming | 3.5 | | 56 | 44 | | 24 | | | 考试 | 4 | | | |
| | | 必修 | CS263008 | 计算机组成与结构(I) Computer Organization and Architecture(I) | 2.5 | | 44 | 44 | | | | | 考试 | 4 | | | |
| | | 必修 | CS263009 | 计算机组成与结构(II) Computer Organization and Architecture(II) | 2.5 | | 44 | 44 | | | | | 考试 | 5 | | | |
| | | | 小 i | it | 28 | 0 | 468 | 422 | 0 | 92 | 0 | | | | 28 | | |
| | | 必修 | CS265001 | 操作系统 Operating Systems | 3.5 | | 56 | 56 | | | | | 考试 | 4 | | | |
| | | 必修 | CS265002 | 编译原理 Compiler Principles | 3.5 | 3 | 56 | 34 | | 20 | | 12 | 考试 | 5 | | | |
| 专业教育课 | 专业 | 必修 | CS265003 | 数据库系统 Database Systems | 4 | 3.5 | 64 | 42 | | 32 | | 6 | 考试 | 5 | | | |
| 教育课程 | 专业教育课程 | 必修 | CS203008X | 计算机通信与网络 Computer Communication and Network | 4 | 3 | 68 | 44 | | 24 | | 12 | 考试 | 5 | 22.5 | | |
| | | 必修 | CS265004 | 算法分析与设计 Design and Analysis of Algorithms | 2.5 | 2 | 44 | 30 | | 16 | | 6 | 考试 | 6 | | | |
| | | 必修 | CS265006 | 软件体系结构 Software Architecture | 2.5 | 2 | 40 | 26 | | 16 | | 6 | 考试 | 6 | | | |

| - | 必修 | CS265007 | 软件过程与项目管理 Software Process and Project Management | 2.5 | 2.5 | 40 | 30 | | 20 | | | 考试 | 6 | |
|-------|-----|----------------------|---|------------------------|------------------|-----------|-----------------|---|-------|---|----|--------------|---|----------------------------------|
| | | 小 | 计 | 22.5 | 16 | 368 | 262 | 0 | 128 | 0 | 42 | | | 22.5 |
| | | | Web 工程与信 | 息系统 | 充方向 | J | | | | | | | | |
| | 限选 | CS265025 | 数据管理技术 Data Management Technology | 2 | 2 | 32 | 20 | | 16 | | 4 | 考查 | 5 | |
| | 限选 | CS265028 | 构件与中间件技术 Component and Middleware Technology | 2.5 | 2.5 | 40 | 28 | | 16 | | 4 | 考查 | 6 | 专业 选修 四个 |
| | 限选 | CS265014 | 系统分析与设计 ASystem Analysis and Design | 3 | 2.5 | 48 | 28 | | 24 | | 8 | 考试 | 6 | 方向 必选 一组 |
| - | 限选 | CS265015 | Web 工程 Web Engineering | 2.5 | 2.5 | 40 | 26 | | 16 | | 6 | 考查 | 6 | 最低 12 学分 |
| - | 限选 | CS265016 | 信息安全概论 Fundamentals of Information Security | 2 | 2 | 32 | 18 | | 16 | | 6 | 考查 | 7 | |
| - | 小 计 | | | | 11.5 | 192 | 120 | 0 | 88 | 0 | 28 | | | 12 |
| - | | | 统软件 | 牛方向 | | | | | | | | | , | |
| 专业 | 限选 | CS265011 | 通信技术基础 Fundamentals of Communication Technology | 2.5 | 2.5 | 40 | 30 | | 12 | | 4 | 考查 | 5 | |
| 专业选修课 | 限选 | CS265021 | 协议工程 Protocol Engineering | 2.5 | 2 | 40 | 26 | | 16 | | 6 | 考试 | 6 | 专业 选修 四个 |
| | | | | | | 40 | 32 | | 16 | | | 考 | 6 | 方向必选 |
| - | 限选 | CS265045 | 物联网技术 Internet of Things Technology | 2.5 | 2.5 | 40 | | | 10 | | | 查 | | 一组 |
| | 限选 | CS265045 CS265024 | | 2.5 | 2.5 | 44 | 32 | | 24 | | | 当 考 查 | 6 | 一组 最低 12 学分 |
| | | | Things Technology 基于 FPGA 的数字系统设计 Design of Digital | | | | | | | | 6 | 考 | 6 | 最低 12 |
| | 限选 | CS265024 | 基于 FPGA 的数字系统设计 Design of Digital Systems based on FPGA 信息安全概论 Fundamentals of Information Security | 2.5 | 2.5 | 44 | 32 | 0 | 24 | 0 | 6 | 考查考 | | 最低 12 |
| | 限选 | CS265024 CS265016 | 基于 FPGA 的数字系统设计 Design of Digital Systems based on FPGA 信息安全概论 Fundamentals of Information Security | 2.5 | 2.5 | 32 | 32 | 0 | 24 | 0 | | 考查考 | | 最低 12 学分 |
| | 限选 | CS265024 CS265016 | Things Technology 基于 FPGA 的数字系统设计 Design of Digital Systems based on FPGA 信息安全概论 Fundamentals of Information Security 计 | 2.5 | 2.5 | 32 | 32 | 0 | 24 | 0 | | 考查考 | | 最低 12 学分 12 专业 选修 |
| | 限选 | CS265024 CS265016 | Things Technology 基于 FPGA 的数字系统设计 Design of Digital Systems based on FPGA 信息安全概论 Fundamentals of Information Security 计 嵌入式系统基础 Fundamentals of Embedded | 2.5 2 12 (软件) | 2.5 2 11.5 | 32 196 | 32 18 138 | 0 | 16 84 | 0 | 16 | 考查考查 | 7 | 最低 12 学分 12 |

| 限选 | CS265024 | 基于 FPGA 的数字系统设计 Design of Digital Systems based on FPGA | 2.5 | 2.5 | 44 | 32 | | 24 | | | 考查 | 6 | |
|--------------------|----------------------------------|---|-------|------------------------|----------------------|----------------------|---|-----|---|----|-----------------|------------------|----------------|
| 限选 | CS265043 | 无线传感网络技术 Wireless Sensor Network Technology | 2 | 2 | 32 | 20 | | 16 | | 4 | 考查 | 7 | |
| | 小 | it | 12 | 11 | 196 | 120 | 0 | 104 | 0 | 24 | | | 12 |
| | | 云计算与大 | 数据に | 方向 | | | | | | | | | |
| 限选 | CS265038 | 海量数据管理 Management of Massive Datasets | 2.5 | 2.5 | 40 | 28 | | 16 | | 4 | 考查 | 5 | |
| 限选 | CS265035 | 云计算技术 Cloud Computing Technology | 2.5 | 2 | 40 | 26 | | 16 | | 6 | 考查 | 6 | 专业 选修 四个 |
| 限选 | CS265036 | 机器学习与数据挖掘 Introduction to Machine Learning and Data Mining | 3 | 2.5 | 48 | 32 | | 16 | | 8 | 考试 | 6 | 方向 必选 一组 |
| 限选 | CS265040 | 信息检索 Information Retrieval | 2 | 2 | 32 | 18 | | 16 | | 6 | 考查 | 6 | 最低 12 学分 |
| 限选 | CS265016 | 信息安全概论 Fundamentals of Information Security | 2 | 2 | 32 | 18 | | 16 | | 6 | 考查 | 7 | |
| | 小 | ìt | 12 | 11 | 192 | 122 | 0 | 80 | 0 | 30 | | | 12 |
| | | 院公共选修 | 多课 | | | | | | | | | | |
| 选修 | IB006002 | 信号与系统 Signals and Systems | 3.5 | | | | | | | | | | |
| | | | | 3.5 | 56 | 56 | | | | | 考试 | 4 | |
| 选修 | CS205302 | 离散数学(II)Discrete Mathematics(II) | 2 | 1.5 | 32 | 26 | | | | 6 | | 5 | - |
| | CS205302 CS205501 | | 2 | | | | | 28 | | 6 | 试考 | | |
| | | Mathematics(II) JAVA 程序设计 Java | | 1.5 | 32 | 26 | | 28 | | 6 | 试 考试 考 | 5 | 公共 |
| 选修(二选 | CS205501 | Mathematics(II) JAVA 程序设计 Java Programming Python 程序设计 Python | 3 | 3 | 32 | 26 | | | | 8 | 试 考试 考试 考 | 5 | 选修 课最 低应 |
| 选修 (二选 一) | CS205501 CS205502 | Mathematics (II) JAVA 程序设计 Java Programming Python 程序设计 Python Programming 软件工程经济学 Software | 3 | 3 3 | 48 | 26 34 34 | | | | | 试 考试 考试 考试 考 | 2 | 选修 课最 |
| 选修 (二选 一) 选修 | CS205501 CS205502 CS265013 | Mathematics (II) JAVA 程序设计 Java Programming Python 程序设计 Python Programming 软件工程经济学 Software Engineering Economics 软件建模技术 A Software | 3 2 3 | 3 3 1.5 | 32 48 48 | 26 34 34 24 | | 28 | | 8 | 试 考试 考试 考查 考 | 5 2 2 5 | 选课低 修8 |
| 选修 (二选一) 选修 选修 | CS205501 CS205502 CS265013 | Mathematics (II) JAVA 程序设计 Java Programming Python 程序设计 Python Programming 软件工程经济学 Software Engineering Economics 软件建模技术 A Software Modeling Technology A | 3 2 3 | 1.5 3 1.5 2.5 | 32 48 32 48 | 26 34 34 24 | | 28 | | 8 | 试 考试 考试 考查 考查 考 | 5 2 2 5 | 选课低 修8 |

| 选修 | CS265601 | 数值分析 Numerical Analysis | 2.5 | 2.5 | 40 | 32 | | 16 | | | 考试 | 3 |
|----|----------|--|-----|------|------|-----|---|-----|---|-----|----|---|
| 选修 | CS265604 | .NET 程序设计 .NET Programming | 2 | 2 | 32 | 18 | | 16 | | 6 | 考查 | 6 |
| 选修 | CS265605 | 人工智能概论 Introduction to Artificial Intelligence | 2.5 | 2 | 40 | 24 | | 16 | | 8 | 考查 | 6 |
| 选修 | CS265607 | 电子商务基础 Fundamentals of Electronic Commerce | 2 | 2 | 32 | 24 | | 16 | | | 考查 | 7 |
| 选修 | CS265609 | IT 职业资格培训 IT Occupation Qualification Training | 2 | 2 | 32 | | | 64 | | | 考查 | 6 |
| 选修 | CS265610 | 应用创造学 Creativity Methodology | 1 | 1 | 16 | 16 | | | | | 考查 | 1 |
| 选修 | CS265611 | 知识产权与软件保护 Intellectual Property and Software Protection | 1.5 | 1.5 | 24 | 24 | | | | | 考查 | 2 |
| 选修 | CS265615 | 基于 Windows 8 的新一代 应用开发 Windows 8-based Application Development | 2 | 2 | 32 | 12 | | 36 | | 2 | 考查 | 5 |
| 选修 | CS265616 | Android 应用开发 Android Application Development | 2 | 2 | 32 | 14 | | 36 | | | 考查 | 5 |
| 选修 | CS265617 | 机器学习导论 Introduction of Machine Learning | 2.5 | 2 | 40 | 24 | | 16 | | 8 | 考查 | 5 |
| 选修 | MS001010 | 数学分析选讲 Selected Topics in Mathematical Analysis | 2 | 2 | 32 | 32 | | | | | 考查 | 3 |
| 选修 | ME006002 | 图学基础与计算机绘图 Graphics Basics and Computer Drawing | 2 | 2 | 32 | 28 | | 8 | | | 考试 | 3 |
| 选修 | CS205518 | 大数据安全与隐私 Security and privacy on big data | 1 | 2 | 40 | 24 | | 16 | | 8 | 考查 | 6 |
| 选修 | CS225605 | 信息物理系统 Cyber- Physical Systems | 2 | 1.5 | 32 | 16 | | 16 | | 8 | 考查 | 6 |
| 选修 | CS205519 | 智能软件概论 Introduction to Intelligent Software | 2 | 1.5 | 32 | 24 | | | | 8 | 考查 | 5 |
| 选修 | CS205520 | 量子信息与量子计算 quantum information and computing | 2 | 2 | 32 | 20 | | 8 | 8 | 4 | 考查 | 6 |
| 选修 | CS205521 | 计算智能导论 Introduction to Computational Intelligence | 2 | 1.5 | 32 | 24 | | | | 8 | 考查 | 6 |
| 选修 | CS205522 | 生物信息学算法 Algorithm for Bioinformatics | 1 | 1 | 16 | 6 | | 12 | | 4 | 考查 | 6 |
| 选修 | CS205523 | 大数据优化建模与算法 Optimization Modeling and Algorithms for Big Data Problems | 2 | 2 | 32 | 24 | | 8 | | 4 | 考查 | 5 |
| 选修 | CS205524 | 数据可视化 Data Visualization | 2 | 2 | 32 | 16 | | 24 | | 4 | 考查 | 5 |
| | 小 | ····································· | 61 | 57.5 | 1000 | 672 | 0 | 420 | 8 | 114 | | |

| | j , | | T | 1 | I | j i | 1 1 | 1 | Ī | ' | | ļ i |
|----------|----------------|----------|--|-----|-----|-------|-----|---------|----|----|-----|-----|
| | 必修 | CS204016 | 计算机系统组装实习 Computer system assembly practice | 1 | 1 | 1周 | | 1 周 | | 考查 | 1 | |
| | 选修(二选 | CS265961 | 程序设计基础实训 AProgramming Training A | 1 | | 40 | 40 | | | 考查 | 3 | |
| | -) | CS265962 | 程序设计基础实训 BProgramming Training B | 1 | | 40 | 40 | | | 考查 | 3 | |
| | 选修(二选 | CS265905 | 电子技术综合实验 A Electronic Technology Synthetic Experiments A | 1 | 1 | 1周 | | 1 周 | | 考查 | 4 | |
| | -) | CS265906 | 电子技术综合实验 B Electronic Technology Synthetic Experiments B | 1 | 1 | 1周 | | 1 周 | | 考查 | 4 | |
| | 必修 | CS265902 | 计算机组成与结构课程设 计(I) Computer Organization and Architecture Course Design(I) | 0.5 | 0.5 | 0.5 周 | | 0.5 | | 考查 | 4 | |
| | 必修 | CS265903 | 计算机组成与结构课程设计(II) Computer Organization and Architecture Course Design(II) | 0.5 | 0.5 | 0.5 周 | | 0.5 | | 考查 | 5 | |
| 集中 实践 | 必修 | CS265921 | 操作系统课程设计 Operating Systems Course Design | 1 | 1 | 1周 | | 1 周 | | 考查 | 4 | 26 |
| | 选修 (二选 一) | CS265963 | 程序设计综合实训 A Comprehensive Programming Practice A | 1 | 1 | 1周 | | 1 周 | | 考查 | 5 | |
| | | CS265964 | 程序设计综合实训 B Comprehensive Programming Practice B | 1 | 1 | 1周 | | 1 周 | | 考查 | 5 | |
| | | CS265928 | Web 工程与信息系统方向 工程设计(实训) Engineering Design (training) | 4 | 4 | 4周 | | 4 周 | | | | |
| | 选修 (四选 一) | CS265929 | 网络与通信系统软件方向 工程设计(实训) Engineering Design (training | 4 | 4 | 4周 | | 4 周 | | 考查 | 7 | |
| | , | CS265930 | 嵌入式系统软件方向工程 设计(实训)Engineering Design (training | 4 | 4 | 4周 | | 4 周 | | 피 | | |
| | | CS265931 | 云计算与大数据方向工程 设计(实训)Engineering Design (training | 4 | 4 | 4周 | | 4 周 | | | | |
| | 必修 | CS265932 | 毕业设计 the Graduation Design | 16 | 16 | 16 周 | | 16 | | 考查 | 8 | |
| | | 小 | 计 | 41 | 41 | 41 周 | | 41 周 | | | | 26 |
| 拓展提 | 必修 | TS006010 | 新生网上前置教育 Pre- enrollment Online Education | 1 | | 16 | | | 16 | 考查 | 1 | |
| 高 | 必修 | | 素质能力拓展 Quality and Capability Development | 8 | | | | | | 考查 | 1~8 | |

| 必修 | | 实验实践能力达标测试 Experiment AndPractise Ability Test | 1 | | | | 考查 | 2, 4, 6, 8 | |
|----|----|--|----|--|--|--|----|------------------|----|
| | 小计 | | 10 | | | | | | 10 |

注:大学英语系列课程采用分级教学,分普通班、中级班和高级班,具体实施以英语分级方案为准。