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机械工程专业课程归属

**表3：机械工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  Foreign Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  Foreign Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  Foreign Languages Ⅲ | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000041 | 体育 Ⅰ  Physical Education Ⅰ | 1 |  | 基础部 |
| 12 | 0000042 | 体育 Ⅱ  Physical Education Ⅱ | 1 |  |
| 13 | 0000043 | 体育 Ⅲ  Physical Education Ⅲ | 1 |  |

**续表3：机械工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 14 | 0000044 | 体育 Ⅳ  Physical Education Ⅳ | 1 |  | 基础部 |
| 15 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |
| 16 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 17 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 18 | 0000017 | 概率论与数理统计  Probability & Statistics | 3 |  |
| 19 | 0000010E | 大学物理 I（机械能动类）  Physics I  （Mechanical and Dynamic Class） | 2 |  |
| 20 | 0000011E | 大学物理 II（机械能动类）  Physics II  （Mechanical and Dynamic Class） | 2 |  |
| 公共基础课 | 限选 | 21 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 22 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 23 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 24 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 25 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 26 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任选 | 27 |  | 科学技术类 | 1 |  |  |
| 28 | 人文社会类 | 1 |  |  |
| 29 | 艺术教育类 | 1 |  |  |
| 30 | 特色通识类 | 1 |  |  |
| 31 | 跨文化交流类 | 1 |  |  |

**表4：机械工程专业课程归属（专业基础）**

| **课程类别** | **课程性质** | | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 专业基础 | 必修 | | 1 | 0300117 | 机械制图 Ⅰ  Mechanical DrawingⅠ | 3 | **√** |  |
| 2 | 0300118 | 机械制图 Ⅱ  Mechanical Drawing Ⅱ | 2 | **√** |  |
| 3 | 0300115B | 计算机绘图  Computer Drawing（CAD and Pro/E） | 3 | **√** |  |
| 4 | 0300B33 | 电路  Principles of Electric Circuits | 2 |  | 电信院 |
| 5 | 0300B44 | 电子技术基础  Basics of Electronic Technology | 2 |  |
| 6 | 0300002 | C语言程序设计  C Programming | 3 |  |
| 7 | 0402001 | 理论力学  Theoretical Mechanics | 4 |  | 土木院 |
| 8 | 07000B7 | 材料力学  Material Mechanics | 3 |  |
| 9 | 0300119A | 机械工程材料  Mechanical Engineering Material | 2.5 | **√** |  |
| 10 | 2104533 | 机械原理\*  Mechanical Principle | 3.5 | **√** |  |
| 11 | 0300B533 | 机械设计\*  Mechanical Design | 3 | **√** |  |
| 12 | 0300121A | 液压与气动技术  Hydraulic & Pneumatic Transmission | 1.5 | **√** |  |
| 13 | 0300122A | 互换性与测量技术  Interchangeability and Measurement Technology | 1.5 | **√** |  |
|  | |  | 14 | 0300018 | 单片机原理与应用  Principle & Application of Single Chip Microcomputer | 2 |  | 电信院 |
| 15 | 0300535 | 热工基础  Thermal Fundamentals | 2 | **√** |  |

**表5：机械工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 1 | 0300127 | 机械制造工程学\*  Engineering of  Mechanical Manufacture | 3 | **√** |  |
| 2 | 0300057B | 可编程控制器原理与应用  Principle & Application of  Programmable Controller | 1 |  | 电信院 |
| 3 | 0300128A | 机电传动与控制  Electromechanical  Transmission & Control | 1.5 |  |
| 4 | 2104129 | 数控加工技术  NC Machining Technology | 4 | **√** |  |
| 5 | 0300133A | 模具设计与制造\*  Mould Design & Manufacturing | 1.5 | **√** |  |
| 选修 | 6 | 2104130 | CAD/CAM技术  CAD/CAM Technology | 4 | **√** |  |
| 7 | 0300132 | 现代制造技术  Modern Manufacturing Technology | 2 | **√** |  |
| 8 | 2104214 | 机械优化设计  Optimal Design of  Machine | 2 | **√** |  |
| 9 | 0300605 | 管理科学基础  Management Science Foundation | 1 |  | 管理院 |
| 10 | 0300330 | 创新思维与创新方法  Innovative Thinking &Innovation method | 2 |  | 双创院 |
| 11 | 0300124B | 科技应用文写作概论  Introduction to Sci-Tech Practical Writing | 1.5 | **√** |  |
| 12 | 2104220 | 数字化网络化制造  Digitizing and Networking Manufacture | 2 | **√** |  |

**续表5：机械工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程类别** | **课程性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选修 | 13 | 2104221 | 3D 打印技术  3D Printing Technology | 1 | **√** |  |
| 14 | 0300126A | 传感器及检测技术  Sensors & Testing Technology | 1.5 |  | 电信院 |
| 15 | 2104242 | 数字资源检索与利用Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 16 | 0300542 | 机械专业英语  Mechanical  Professional English | 2 | **√** |  |
| 17 | 0300604 | 工程测试及信息处理  Engineering Testing  and Information  Processing | 1.5 | **√** |  |
| 18 | 2104250 | 计算机控制技术  Computer Controlling Technology | 2 |  | 电信院 |
| 19 | 2104213 | 机器人技术基础  Fundamentals of  Robotics Technology | 2 | **√** |  |
| 20 | 0300131 | 汽车概论  Automobile Introduction | 2 | **√** |  |
| 21 | 2104215 | 机械制造装备设计  Design of Mechanic  Manufacturing  Equipment | 2 | **√** |  |
| 22 | 2104222 | 塑料模具设计  Injection Mold Design | 2 | **√** |  |
| 23 | 2104225 | 模具特种加工技术  Non-Traditional  Machining of Mold | 2 | **√** |  |
| 24 | 2104224 | 模具CAD/CAM  CAD/CAM of Mold | 2 | **√** |  |

**表6：机械工程专业集中实践课程归属**

| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 集中实践 | 必 修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 5 | 0000012E | 物理实验(机械能动类) ※  Physics Experiments II  （Mechanical and Dynamic Class） | 1.5 |  | 基础部 |
| 6 | 04090011 | 材料力学实验  Material Mechanics Experiment | 1 |  | 土木院 |
| 7 | 0300510 | 机械工程材料实验  Mechanical Engineering Material Experiment | 0.5 | **√** |  |
| 8 | 030A534 | 机械原理实验 ※  Mechanical Principle Experiment | 0.5 | **√** |  |
| 9 | 0300512 | 液压与气动技术实验  Hydraulic & Pneumatic Transmission Experiment | 0.5 | **√** |  |
| 10 | 0300513 | 互换性与测量技术实验  Interchangeability and Measurement Technology Experiment | 0.5 | **√** |  |
| 11 | 0300515 | 机械制造工程学实验  Engineering of  Mechanical Manufacture Experiment | 1 | **√** |  |
| 12 | 0300516 | 可编程控制器原理与应用实验  Principle & Application of  Programmable Controller Experiment | 0.5 |  | 电信院 |

**续表6：机械工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程类别** | **课程性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 13 | 0300517 | 机电传动与控制实验  Electromechanical  Transmission & Control Experiment | 0.5 |  | 电信院 |
| 14 | 0300519 | 模具设计与制造实验  Mold Design & Manufacturing Experiment | 0.5 | **√** |  |
| 15 | 0300034 | 电路实验  Experiment of Electric Circuit | 1.5 |  | 电信院 |
| 16 | 0504103 | 电子技术实验  Digital Circuit Experiment | 1.5 |  |
| 17 | 2104204 | C语言课程设计  C language course design | 1 |  |
| 18 | 0300095 | 微机与单片机综合实践  General Practice of Computer | 1 |  |
| 19 | 0300134C | 金工实习  Smithcraft Practice | 4 | **√** |  |
| 20 | 0300135 | 机械设计课程设计  Course Design of Mechanical Design | 2 | **√** |  |
| 21 | 0300137 | 可编程控制器课程设计  Course Project(Programmable Controller) | 1 |  | 电信院 |
| 22 | 2104138 | 数控加工（调试）实践  Numerical Control Practice | 4 | **√** |  |
| 23 | 0300069B | 认识实习  Realizing Practice | 1 | **√** |  |
| 24 | 0300501B | 毕业实习  Graduation Practice | 2 | **√** |  |
| 25 | 030A342 | 毕业设计（论文）  Graduation Project (thesis) | 14 | **√** |  |

车辆工程专业课程归属

**表3：车辆工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  Foreign Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  Foreign Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  Foreign Languages Ⅲ | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000041 | 体育 Ⅰ  Physical Education Ⅰ | 1 |  | 基础部 |
| 12 | 0000042 | 体育 Ⅱ  Physical Education Ⅱ | 1 |  |
| 13 | 0000043 | 体育 Ⅲ  Physical Education Ⅲ | 1 |  |
| 14 | 0000044 | 体育 Ⅳ  Physical Education Ⅳ | 1 |  |

**续表3：车辆工程专业课程归属（公共基础）**

| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 15 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 16 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 17 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 18 | 0000017 | 概率论与数理统计  Probability & Statistics | 3 |  |
| 19 | 0000010E | 大学物理I (机械能动类)  Physics I (Mechanical and Dynamic Class) | 2 |  |
| 20 | 0000011E | 大学物理II (机械能动类)  Physics II (Mechanical and Dynamic Class) | 2 |  |
| 公共选修课 | 限选 | 21 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 22 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 23 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 24 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 25 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 26 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任选 | 27 |  | 科学技术类 | 1 |  |  |
| 28 | 人文社会类 | 1 |  |  |
| 29 | 艺术教育类 | 1 |  |  |
| 30 | 特色通识类 | 1 |  |  |
| 31 | 跨文化交流类 | 1 |  |  |

**表4：车辆工程专业课程归属（专业基础）**

| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 专业基础 | 必修 | 1 | 0300117A | 机械制图  Mechanical Drawing | 4 | **√** |  |
| 2 | 0300115B | 计算机绘图(CAD及Pro/E)  Computer Drawing (CAD and Pro/E) | 3 | **√** |  |
| 3 | 0300002 | C语言程序设计  C Programming | 3 |  | 电信院 |
| 4 | 0700070 | 工程力学I  Theoretical Mechanics | 4 |  | 土木院 |
| 5 | 0300B33 | 电路原理  Principles of Circuits | 2 |  | 电信院 |
| 6 | 0300532 | 汽车工程材料  Automobile Engineering Material | 3 | **√** |  |
| 7 | 0300044 | 电子技术基础  Basics of Electronic Technology | 2 |  | 电信院 |
| 8 | 0300303 | 机械设计基础  Basics of Mechanical Design | 3.5 | **√** |  |
| 9 | 0300018 | 单片机原理与应用  Principle & Application of Single Chip Microcomputer | 2 |  | 电信院 |
| 10 | 0300122 | 互换性与测量技术  Interchangeability & measurement technology | 2 | **√** |  |
| 11 | 0300121 | 液压与气动技术  Hydraulic & Pneumatic Transmission | 2 | **√** |  |

**表5：车辆工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 1 | 0300190 | 汽车构造\*  Automobile Structure | 4 | **√** |  |
| 2 | 0300191A | 汽车理论\*  Automobile Theory | 3 | **√** |  |
| 3 | 0300194 | 内燃机原理  Principle of Internal Combustion Engine | 2 | **√** |  |
| 4 | 0300192 | 汽车设计\*  Automobile Design | 2 | **√** |  |
| 5 | 030A193 | 汽车电器与电子学\*  Automobile Electric Appliances and Electronics | 3 | **√** |  |
| 6 | 0304522 | 汽车试验学  Automotive Testing | 2 | **√** |  |
| 7 | 0304525 | 汽车制造工艺学\*  Automobile Manufacturing Technology | 2 | **√** |  |
| 8 | 0300522 | 汽车覆盖件模具设计  Design of Automotive Panel Die | 3 | **√** |  |
| 选修 | 9 | 0300131 | 汽车概论  Automobile Introduction | 2 | **√** |  |
| 10 | 2104241 | 汽车电子控制技术  Automotive Electronic Control Technology | 3 | **√** |  |
| 11 | 0300525 | 汽车营销学  Automobile Marketing | 2 | **√** |  |
| 12 | 0300199 | 汽车检测与诊断技术  Automobile Monitoring and Fault Diagnosis Technique | 3 | **√** |  |
| 13 | 0300195 | 汽车CAD技术  Automobile CAD Technique | 2 | **√** |  |
| 14 | 0300526 | 汽车专业英语  Automobile Professional English | 2 | **√** |  |

**续表5-1：车辆工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选修 | 15 | 0300124 | 科技应用文写作概论  Sci-Tech Practical Writing Concept | 1.5 | **√** |  |
| 16 | 0300087 | 数字资源检索利用Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 17 | 2104264 | 电动汽车技术  Electric Vehicle Technology | 2 | **√** |  |
| 18 | 0300524A | 汽车评估学  Automobile Evaluation | 3 | **√** |  |
| 19 | 0300126 | 传感器及检测技术  Sensors & Testing Technology | 2 |  | 电信院 |
| 20 | 0300503 | 计算机控制技术  Computer Controlling Technology | 2 |  |
| 21 | 2104246 | 新能源汽车概论 Introduction of New Energy Vehicles | 2 | **√** |  |
| 22 | 2104248 | 汽车碰撞与安全  Collision and Safety of Vehicle | 2 | **√** |  |
| 23 | 2104251 | 氢能与燃料电池电动汽车  Hydrogen Energy and Fuel Cell Electric Vehicle | 3 | **√** |  |
| 24 | 2104252 | 新能源汽车动力蓄电池技术  New Energy Vehicle Power Battery Technology | 2 | **√** |  |
| 25 | 2104253 | 汽车网络与新媒体营销  Automobile Network and New Media Marketing | 2 | **√** |  |
| 26 | 2104254 | [车联网技术与应用](http://www.cmpedu.com/books/book/5604375.htm" \t "_blank)  Technology and Application of Internet of Vehicles | 2 | **√** |  |

**续表5-2：车辆工程专业课程归属排（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选修 | 27 | 2104255 | 混合动力汽车技术  Hybrid Electric Vehicle Technology | 3 | **√** |  |
| 28 | 2104256 | 智能汽车技术  Intelligent Vehicle Technology | 2 | **√** |  |
| 29 | 2104257 | 消费者行为学  Consumer Behavior | 2 | **√** |  |
| 30 | 2104258 | [汽车商务礼仪](http://www.cmpedu.com/books/book/2067108.htm" \t "_blank)  Automobile Business Etiquette | 2 | **√** |  |
| 31 | 2104259 | [现代汽车振动与噪声分析技术](http://www.cmpedu.com/books/book/5603606.htm" \t "_blank)  Modern Automobile Vibration and Noise Analysis Technology | 3 | **√** |  |
| 32 | 2104260 | 汽车节能技术与原理  Automobile Energy Saving Technology and Principle | 2 | **√** |  |
| 33 | 2104261 | 内燃机排放与控制  Emission and Control of Internal Combustion Engine | 3 | **√** |  |
| 34 | 2104262 | [二手车鉴定与评估](http://www.cmpedu.com/books/book/2062581.htm" \t "_blank)  Used Car Identification and Evaluation | 2 | **√** |  |
| 35 | 2104263 | 汽车品牌文化  Automobile Brand Culture | 2 | **√** |  |

**表6：车辆工程专业集中实践课程归属**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 集中教学实践 | 必修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 00000D3 | 信息技术应用基础实践  Practice for Application of Information Technology | 1 |  | 电信院 |
| 5 | 0000012E | 物理实验(机械能动类)  Physics Experiments | 1.5 |  | 基础部 |
| 6 | 0300034 | 电路实验  Experiment of Electric Circuit | 1.5 |  | 电信院 |
| 7 | 0504103 | 电子技术实验  Digital Circuit Experiment | 1.5 |  |
| 8 | 0300095 | 微机与单片机综合实践※  General Practice of Computer | 1 |  |
| 9 | 0300134 | 金工实习  Smithcraft Practice | 3.5 | **√** |  |
| 10 | 0300321 | 机械设计基础课程设计※  Basic Course Design of Mechanical Design | 2 | **√** |  |
| 11 | 0300201 | 汽车拆装和驾驶实习  Automobile Dismantling and Driving Practice | 2 | **√** |  |
| 12 | 030A203 | C语言课程设计※  Practice of C Programming | 1 |  | 电信院 |

**续表6：车辆工程专业集中实践课程归属**

| **课程类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 集中教学实践 | 必 修 | 13 | 2104269 | 汽车维护与检测实践  Automobile Maintenance and Testing Practice | 2 | **√** |  |
| 14 | 0300528 | 汽车电器及电控技术实习  Automobile Electric Appliances and Electronics Practice | 2 | **√** |  |
| 15 | 0300069B | 认识实习  Realizing Practice | 1 | **√** |  |
| 16 | 0300501B | 毕业实习  Graduation Practice | 2 | **√** |  |
| 17 | 0300342 | 毕业设计(论文)  Graduation Project (Thesis) | 14 | **√** |  |

新能源科学与工程专业课程归属

**表3：新能源科学与工程专业课程归属（公共基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 公共基础 | 必修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  Foreign Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  Foreign Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  Foreign Languages Ⅲ | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 12 | 0000042 | 体育II  Physical Education II | 1 |  |
| 13 | 0000043 | 体育III  Physical Education III | 1 |  |
| 14 | 0000044 | 体育IV  Physical Education IV | 1 |  |
| 15 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |

**续表3：新能源科学与工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 16 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  | 基础部 |
| 17 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 18 | 0000017 | 概率论与数理统计  Probability & Statistics | 3 |  |
| 19 | 0000010E | 大学物理I（机械能动类）  Physics I | 2 |  |
| 20 | 0000011E | 大学物理II（机械能动类）  Physics II | 2 |  |
| 公共选修课 | 选修 | 21 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 22 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 23 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 24 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 25 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 26 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 27 |  | 人文社会类 | 1 |  |  |
| 28 | 艺术教育类 | 1 |  |  |
| 29 | 劳动教育类 | 1 |  |  |
| 30 | 特色通识类 | 1 |  |  |
| 31 | 跨文化交流类 | 1 |  |  |

**表4：新能源科学与工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业基础 | 必修 | 1 | 0300117B | 机械制图  Engineering Drawing | 3.5 | **√** |  |
| 2 | 0300529 | 计算机绘图（CAD及Pro/E）  Computer Drawing（CAD&Pro/E） | 2 | **√** |  |
| 3 | 0300002 | C语言程序设计  C Language Program  Design | 3 |  | 电信院 |
| 4 | 0402A01 | 理论力学  Theoretical Mechanics | 3 |  | 土木院 |
| 5 | 07000A7 | 材料力学  Material Mechanics | 2 |  |
| 6 | 0300B33 | 电路  Electric Circuit | 2 |  | 电信院 |
| 7 | 0300B44 | 电子技术基础  Electronic Techniques of Power Engineering | 2 |  |
| 8 | 0300304 | 控制工程基础\*  Fundamentals of  Control Engineering | 3 |  |
| 9 | 0300303B | 机械设计基础  Fundamentals of  Machine Design | 3 | **√** |  |
| 10 | 0300301 | 空气动力学\*  Aerodynamics Science | 4 | **√** |  |
| 11 | 0300200B | 工程热力学  Engineering Thermodynamics Science | 3.5 | **√** |  |
| 12 | 0300302A | 传热学  Heat Transfer Science | 3.5 | **√** |  |
| 13 | 0300024A | 电机学  Electrical Engine | 2 |  | 电信院 |
| 14 | 0300A41 | 电力电子技术  Technology of Electric & Electron | 2 |  |
| 15 | 0700057A | 工程材料  Engineering Material | 2 | **√** |  |

**表5：新能源科学与工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 1 | 0300308 | 风力机\*  Wind Turbine | 2.5 | **√** |  |
| 2 | 0300309 | 风力机组控制\*  Control System of Wind Power Unit | 2 | **√** |  |
| 3 | 0300310 | 风电场规划与设计\*  Wind Farm Programming and Designing | 2 | **√** |  |
| 4 | 0300607A | 储能原理及技术  Energy Storage Principle and Technology | 2 | **√** |  |
| 5 | 0300313A | 太阳能利用技术（双语）  Solar Energy Technology | 2 | **√** |  |

**续表5：新能源科学与工程专业课程归属（专业教育）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 专业教育 | 选修 | 6 | 0300311 | 近海风电场  Offshore Wind Farm | 1.5 | **√** |  |
| 7 | 0300312 | 风力发电塔架与基础  Wind Power Tower and Basement | 1.5 | **√** |  |
| 8 | 0300314A | 风资源测量与评估  Wind Resource Measurement and Estimation | 1.5 | **√** |  |
| 9 | 0300315 | 风电场并网技术  Grid Connection of Wind farm | 2 | **√** |  |
| 10 | 0300316 | 风电场施工与管理  Wind farm Construction and Management | 2 | **√** |  |
| 11 | 0300520A | 新能源技术概论  Introduction to New Energy Technology | 2 | **√** |  |
| 12 | 0300124C | 科技应用文写作概论  Introduction to Sci-Tech Practical Writing | 1.5 | **√** |  |
| 13 | 0300606 | 新材料概述  Introduction to Advanced Materials | 1.5 | **√** |  |
| 14 | 2104242 | 数字资源检索与利用Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 15 | 0300608A | 风电场电气系统  Electrical System of  Wind Farm | 2 | **√** |  |
| 16 | 0300609A | 光电与光化学转化原理  Principle of Photoelectric and Photochemical Conversion | 1.5 | **√** |  |
| 17 | 0300317 | 电气设备  Electrical Equipment | 2 |  | 电信院 |
| 18 | 0300319A | 继电保护  Relay Protection | 1.5 |  |
| 专业教育 | 必修 | 19 | 2104021 | 分布式发电  Distribution power system | 1.5 | **√** |  |
| 20 | 0300010 | MATLAB导论  Introduction to Matlab | 1.5 | **√** |  |
| 21 | 0300018 | 单片机原理与应用  Principle and Application of Single Chip Microcomputer | 2 |  | 电信院 |
| 22 | 0300137B | 可编程控制器  Program Logic Controller | 1 | **√** |  |
| 23 | 2104025A | 流场数值模拟  Numerical Simulation of Flow Field | 1.5 | **√** |  |
| 24 | 2104026A | 风电场建模与仿真  Modeling and Simulation for Wind Farm | 1.5 | **√** |  |
| 25 | 0300614 | 能源动力测试技术  Energy Power  Measure Technology | 2 | **√** |  |
| 26 | 2104028 | 能源工程经济  Energy Engineering Economic | 1.5 | **√** |  |
| 27 | 2104029 | 专业英语  Major English | 1.5 | **√** |  |
| 28 | 2104030 | 流体机械能转化原理及技术  Principle and technology of fluid mechanical energy conversion | 1.5 | **√** |  |

**表6：新能源科学与工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中教学实践 | 必修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 00000D3 | 信息技术应用基础实践  Application and practice of information technology | 1 |  | 电信院 |
| 5 | 030A203 | C语言课程设计  Practice of C Programming | 1 |  |
| 6 | 0000012E | 物理实验(机械能动类)  Physics Experiments I | 1.5 |  | 基础部 |
| 7 | 2104034 | 电路实验  Experiment of Electric Circuit | 1.5 |  | 电信院 |
| 8 | 2104103 | 电子技术实验  Electronic Technique Experiments | 1.5 |  |
| 9 | 2104027 | 电机学实验  Electrical Engine Experiments | 0.5 |  |
| 10 | 0300134 | 金工实习  Practice of Manufacturing Process | 3.5 | **√** |  |
| 11 | 2104320 | 机械设计基础实验  Fundamentals of Machine Design Experiments | 0.5 | **√** |  |
| 12 | 0300321 | 机械设计基础课程设计  Course Project ( Mechanical Design) | 2 | **√** |  |
| 13 | 2104058 | 工程材料实验  Engineering Material Experiment | 0.5 | **√** |  |
| 14 | 2104011 | 材料力学实验  Material Mechanics Experiments | 0.5 |  | 土木院 |
| 15 | 2104109 | 工程热力学实验  Engineering Thermodynamics  Science Experiments | 0.5 | **√** |  |
| 16 | 2104110 | 传热学实验  Heat Transfer Science  Experiments | 0.5 | **√** |  |
| 17 | 2104323 | 空气动力学实验  Aerodynamic Science Experiments | 0.5 | **√** |  |

**续表6：新能源科学与工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中教学实践 | 必修 | 18 | 0300322A | 工程流体力学实验  Engineering Fluid Mechanics Experiments | 0.5 | **√** |  |
| 19 | 2104324 | 风力发电实验  Wind Power Generation Experiments | 1 | **√** |  |
| 20 | 0300325 | 风力机课程设计※  Course Project (Principle of Wind Power Generation) | 1 | **√** |  |
| 21 | 0300326 | 风电场规划与设计课程设计※  Course Project (Wind farm programming and designing ) | 1 | **√** |  |
| 22 |  | 太阳能光伏发电系统课程设计  Course Project  (Solar Photovoltaic Power Generationg System) | 1 | **√** |  |
| 23 | 0300328 | 风力机塔架与基础课程设计  Course Project (Technology of Electric & Electron) | 1 | **√** |  |
| 24 | 0300069B | 认识实习  Realizing Practice | 1 | **√** |  |
| 25 | 0300501B | 毕业实习  Graduation Practice | 2 | **√** |  |
| 26 | 0300342 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

能源与动力工程专业课程归属

**表1：能源与动力工程专业课程归属（公共基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 公共基础 | 必修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  Foreign Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  Foreign Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  Foreign Languages Ⅲ | 4 |  |

**续表1：能源与动力工程专业课程归属（公共基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 公共基础 | 必修 | 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0300002 | C语言程序设计  C Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |
| 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Statistics | 3 |  |
| 20 | 0000010E | 大学物理I(机械能动类)  Physics I | 2 |  |
| 21 | 0000011E | 大学物理II（机械能动类）  Physics II | 2 |  |

**续表1：能源与动力工程专业课程归属（公共基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 公共基础 | 限选 | 22 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  | 基础部 |
| 23 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 24 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 25 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 26 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 27 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任选 | 28 |  | 科学技术类 | 1 |  |  |
| 29 | 人文社会类 | 1 |  |  |
| 30 | 艺术教育类 | 1 |  |  |
| 31 | 特色通识类 | 1 |  |  |
| 32 | 跨文化交流类 | 1 |  |  |

**表2：能源与动力工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业基础 | 必修 | 1 | 0300117B | 机械制图  [Mechanical Drawing](app:ds:%20%20mechanical%20drawing" \t "_self) I | 3.5 | **√** |  |
| 3 | 0300529 | 计算机绘图（CAD及Pro/E）  Computer Drawing（CAD&Pro/E） | 2 | **√** |  |
| 4 | 0402A01 | 理论力学  Theoretical Mechanics | 3 |  | 土木院 |
| 5 | 07000A7 | 材料力学  Material Mechanics | 2 |  |
| 6 | 0700057A | 工程材料  Engineering Material | 2 | **√** |  |
| 7 | 0300303B | 机械设计基础  Fundamentals of Machine  Design | 3 | **√** |  |
| 8 | 2104101 | 工程流体力学  Engineering Fluid  Mechanics | 4 | **√** |  |
| 9 | 0300200B | 工程热力学  Engineering Thermodynamics Science | 3.5 | **√** |  |
| 10 | 0300302A | 传热学  Heat Transfer Science | 3.5 | **√** |  |
| 11 | 0300B33 | 电路  Electric Circuit | 2 |  | 电信院 |
| 12 | 0300B44 | 电子技术基础  Electronic Techniques of  Power Engineering | 2 |  |
| 13 | 0300339 | 电机学（2学分）  Electrical Engine | 2 |  |
| 14 | 2104612 | 燃烧学  Combustion | 2.5 | **√** |  |
| 15 | 0300613 | 自动控制原理  Automatic Control Principle | 2 |  | 电信院 |

**表3：能源与动力工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 1 | 0300504B | 水轮机与辅助设备  Hydraulic Turbine & Auxiliary Equipment | 2 | **√** |  |
| 2 | 2104331 | 泵与风机**\***  Pump & Fan | 2 | **√** |  |
| 3 | 0300332B | 锅炉与锅炉房设备**\***  Boiler & Boiler Room Equipment | 2 | **√** |  |
| 4 | 0300300 | 通风技术**\***  （双语）  Ventilation Technology | 2 | **√** |  |

**续表3：能源与动力工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选修 | 5 | 0300614 | 能源动力测试技术  Energy Power  Measure Technology | 2 | **√** |  |
| 6 | 0300317 | 电气设备  Electrical Equipment | 2 |  | 电信院 |
| 7 | 0300337A | 供热工程**\***  Heating Engineering | 1.5 | **√** |  |
| 8 | 0300338 | 制冷与空调  Refrigeration & Air Conditioning | 2 | **√** |  |
| 9 | 0300520 | 新能源发电技术  New Energy Power Generation Technology | 1.5 | **√** |  |
| 10 | 0700134A | 建筑概论  Building Engineering | 2 | **√** |  |
| 11 | 0300124A | 科技应用文写作概论  Introduction to Sci-Tech Practical Writing | 2 | **√** |  |
| 12 | 0300087 | 数字资源检索与利用  Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 13 | 0300330 | 创新思维与创新方法  Innovative thinking&Innovation method | 2 |  | 双创院 |
| 14 | 0300010 | Matlab 导论  Introduction to Matlab | 1.5 | **√** |  |
| 15 | 0300536 | 水力机组安装与检修  Hydraulic Installation Maintenance | 1.5 | **√** |  |
| 16 | 0300537 | 能源动力类专业英语  Energy Power Professional English | 2 | **√** |  |
| 17 | 2104219 | 生物质能转化原理与技术  Principles and Technology of Biomass Energy Conversion | 2 | **√** |  |
| 18 | 2140218 | 储能材料与技术  Energy Storage Materials and Technology | 2 | **√** |  |
| 19 | 2104217 | 水力发电机组辅助设备  Auxiliary Equipment for Hydroelectric Ggenerating Set | 2 | **√** |  |
| 20 | 2104216 | 流体输配管网  Fluid Distribution Pipe Network | 2 | **√** |  |

**表4：能源与动力工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程类别** | **课程**  **性质** | **序号** | **课程(组）编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业集中实践 | 必修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 00000D3 | 信息技术应用基础实践  Practice for Application of Information Technology | 1 |  | 电信院 |
| 5 | 0300115C | 计算机绘图（CAD及Pro/E）实践  Practice for Computer Drawing（CAD&Pro/E） | 1 | **√** |  |
| 6 | 030A203 | C语言课程设计  Practice of C Programming | 1 |  | 电信院 |
| 7 | 0000012E | 物理实验(机械能动类)  Physics Experiments I | 1.5 |  | 基础部 |
| 8 | 2104034 | 电路实验  Experiment of Electric Circuit | 1.5 |  | 电信院 |
| 9 | 2104103 | 电子技术实验  Electronic Technique  Experiments | 1.5 |  |
| 10 | 2104027 | 电机学实验  Electrical Engine Experiments | 0.5 |  |
| 11 | 2104320 | 机械设计基础实验  Mechanical Design Experiments | 0.5 | **√** |  |

**续表4：能源与动力工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业集中实践 | 必修 | 12 | 2104058 | 工程材料实验  Engineering Material Experiment | 0.5 | **√** |  |
| 13 | 2104322 | 工程流体力学实验  Engineering Fluid Mechanics  Experiments | 1 | **√** |  |
| 14 | 2104011 | 材料力学实验  Material Mechanics Experiments | 0.5 |  | 土木院 |
| 15 | 2104109 | 工程热力学实验  Engineering Thermodynamics  Science Experiments | 0.5 | **√** |  |
| 16 | 2104110 | 传热学实验  Heat Transfer Science  Experiments | 0.5 | **√** |  |
| 17 | 2104613 | 自动控制原理实验**※**  Experiment of Automatic Control  Principles | 0.5 |  | 电信院 |
| 18 | 2104614 | 能源动力测试技术实验**※**  Energy Power  Measure Technology  Experiments | 0.5 | **√** |  |
| 19 | 2104321 | 机械设计基础课程设计  Course Project (Fundamentals  of Machine Design) | 2 | **√** |  |
| 20 | 0300504C | 水轮机与辅助设备课程设计  Course Project( Hydraulic Turbine & Auxiliary Equipment) | 2 | **√** |  |
| 21 | 21042B1 | 锅炉与锅炉房设备课程设计  Course Project (Boiler & Boiler Room Equipment) | 1.5 | **√** |  |
| 22 | 210400A | 通风技术课程设计  Course Project(Ventilation  Technology) | 1.5 | **√** |  |
| 23 | 0300134 | 金工实习  Practice of Manufacturing  Process | 3.5 | **√** |  |
| 24 | 2104134 | 流体机械实验**※**  Hydro machinery Experiments | 0.5 | **√** |  |

**续表4：能源与动力工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业集中实践 | 必修 | 25 | 0300601 | 供热工程课程设计  Course Project(Heating  Engineering) | 1 | **√** |  |
| 26 | 0300069B | 认识实习  Realizing Practice | 1 | **√** |  |
| 27 | 0300501B | 毕业实习  Graduation Practice | 2 | **√** |  |
| 28 | 030A342 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

汽车服务工程专业课程归属

**表3：汽车服务工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  Foreign Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  Foreign Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  Foreign Languages Ⅲ | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000041 | 体育 Ⅰ  Physical Education Ⅰ | 1 |  | 基础部 |
| 12 | 0000042 | 体育 Ⅱ  Physical Education Ⅱ | 1 |  | 基础部 |
| 13 | 0000043 | 体育 Ⅲ  Physical Education Ⅲ | 1 |  |
| 14 | 0000044 | 体育 Ⅳ  Physical Education Ⅳ | 1 |  |

**续表3：汽车服务工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 公共基础 | 必修 | 15 | 0000018 | | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 16 | 0000019 | | 高等数学 II  Advanced Mathematics II | 6 |  |
| 17 | 0000048 | | 线性代数  Linear Algebra | 2 |  |
| 18 | 0000017 | | 概率论与数理统计  Probability & Statistics | 3 |  |
| 19 | 0000010E | | 大学物理I（机械能动类）  Physics I | 2 |  |
| 20 | 0000011E | | 大学物理II（机械能动类）Physics II | 2 |  |
| 公共基础课 | 限选 | 21 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | | 1 |  |
| 22 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | | 1 |  |
| 23 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | | 1 |  | 双创院 |
| 24 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | | 1 |  | 基础部 |
| 25 | GXK0119 | 军事理论  Military Theory | | 2 |  |
| 26 | GXK0159 | 劳动通论  General Theory of Labor | | 2 |  |
| 任选 | 27 |  | 科学技术类 | | 1 |  |  |
| 28 | 人文社会类 | | 1 |  |  |
| 29 | 艺术教育类 | | 1 |  |  |
| 30 | 特色通识类 | | 1 |  |  |
| 31 | 跨文化交流类 | | 1 |  |  |

**表4：汽车服务工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专  业  基  础 | 必  修 | 1 | 0300117A | 机械制图  Mechanical Drawing | 4 | **√** |  |
| 2 | 0300115B | 计算机绘图（CAD及Pro/E）  Computer Drawing （CAD and Pro/E） | 3 | **√** |  |
| 3 | 0300002 | C语言程序设计  C Programming | 3 |  | 电信院 |
| 4 | 0700070 | 工程力学  Theoretical Mechanics | 4 |  | 土木院 |
| 5 | 0300B33 | 电路原理  Principles of Circuits | 2 |  | 电信院 |
| 6 | 0300532 | 汽车工程材料  Automobile Engineering Material | 3 | **√** |  |
| 7 | 0300B44 | 电子技术基础  Basics of Electronic Technology | 2 |  | 电信院 |
| 8 | 0300303 | 机械设计基础\*  Basics of Mechanical Design | 3.5 | **√** |  |
| 9 | 0300018 | 单片机原理与应用  Principle & Application of Single Chip Microcomputer | 2 |  | 电信院 |
| 10 | 0300122 | 互换性与测量技术  Interchangeability & Measurement Technology | 2 | **√** |  |
| 11 | 0300121 | 液压与气动技术  Hydraulic & Pneumatic Transmission | 2 | **√** |  |

**表5：汽车服务工程专业（汽车产品管理与营销方向）课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专  业  教  育 | 必  修 | 1 | 0300131B | 汽车服务工程专业导论  Introduction to Automobile Service Engineering | 2 | **√** |  |
| 2 | 0300539 | 汽车保险与理赔\*  Automobile Insurance and Claims | 3 | **√** |  |
| 3 | 0300190 | 汽车构造\*  Automobile Structure | 4 | **√** |  |
| 4 | 0300191A | 汽车理论\*  Automobile Theory | 3 | **√** |  |
| 5 | 030A193 | 汽车电器与电子学\*  Automobile Electric Appliances and Electronics | 3 | **√** |  |
| 6 | 0300525 | 汽车营销学\*  Automobile Marketing | 2 | **√** |  |
| 7 | 0300199 | 汽车检测与诊断技术  Automobile Monitoring and Fault Diagnosis Technique | 3 | **√** |  |
| 专  业  教  育 | 选  修 | 8 | 0300538 | 汽车服务企业管理  Enterprise Management of Automobile Service | 2 | **√** |  |
| 9 | 2104241 | 汽车电子控制技术  Automotive Electronic Control Technology | 3 | **√** |  |
| 10 | 0300526 | 汽车专业英语  Automobile Professional English | 2 | **√** |  |
| 11 | 0300522 | 汽车覆盖件模具设计  Design of Automotive Panel Di | 3 | **√** |  |
| 12 | 0300192 | 汽车设计  Automobile Design | 2 | **√** |  |
| 13 | 0300195 | 汽车CAD技术  Automobile CAD Technique | 2 | **√** |  |
| 14 | 0300124 | 科技应用文写作概论  Sci-Tech Practical Writing Concept | 1.5 | **√** |  |
| 15 | 0300087 | 数字资源检索利用  Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 16 | 0300524A | 汽车评估学  Automobile Evaluation | 3 | **√** |  |

**续表5：汽车服务工程专业（汽车产品管理与营销方向）课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选修 | 17 | 2104244 | 汽车物流工程  Automobile Logistics Engineering | 2 | **√** |  |
| 18 | 2104245 | 国际汽车贸易理论 International trade theory | 2 | **√** |  |
| 19 | 2104246 | 新能源汽车概论Introduction of New Energy Vehicles | 2 | **√** |  |
| 20 | 2104243 | 汽车制造工艺学  Automobile Manufacture Technology | 3 | **√** |  |
| 21 | 2104247 | 汽车试验学  Automotive Testing | 3 | **√** |  |
| 22 | 2104248 | 汽车碰撞与安全  Collision and Safety of Vehicle | 2 | **√** |  |
| 23 | 0300126 | 传感器及检测技术  Sensors & Testing Technology | 2 |  | 电信院 |
| 24 | 2104250 | 计算机控制技术  Computer Controlling Technology | 2 |  |
| 25 | 2104253 | 汽车网络与新媒体营销  Automobile network and new media marketing | 2 | **√** |  |
| 26 | 2104256 | 智能汽车技术  Intelligent Vehicle Technology | 2 | **√** |  |
| 27 | 2104257 | 消费者行为学  Consumer Behavior | 2 | **√** |  |
| 28 | 2104259 | [现代汽车振动与噪声分析技术](http://www.cmpedu.com/books/book/5603606.htm" \t "_blank)  Modern Automobile Vibration And Noise Analysis Technology | 3 | **√** |  |
| 29 | 2104260 | 汽车节能技术与原理  Automobile Energy Saving Technology And Principle | 2 | **√** |  |
| 30 | 2104261 | 内燃机排放与控制  Emission And Control Of Internal Combustion Engine | 3 | **√** |  |
| 31 | 2104262 | [二手车鉴定与评估](http://www.cmpedu.com/books/book/2062581.htm" \t "_blank)  Used Car Identification And Evaluation | 2 | **√** |  |
| 32 | 2104263 | 汽车品牌文化  Automobile Brand Culture | 2 | **√** |  |

**表6：汽车服务工程专业（智能新能源汽车方向）课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专  业  教  育 | 必修 | 1 | 2104252 | 新能源汽车动力蓄电池技术  New energy vehicle power battery technology | 2 | **√** |  |
| 2 | 2104251 | 氢能与燃料电池电动汽车  Hydrogen Energy And Fuel Cell Electric Vehicle | 3 | **√** |  |
| 3 | 0300190 | 汽车构造\*  Automobile Structure | 4 | **√** |  |
| 4 | 0300191A | 汽车理论\*  Automobile Theory | 3 | **√** |  |
| 5 | 030A193 | 汽车电器与电子学\*  Automobile Electric Appliances and Electronics | 3 | **√** |  |
| 6 | 2104246 | 新能源汽车概论Introduction of New Energy Vehicles | 2 | **√** |  |
| 7 | 2104255 | 混合动力汽车技术  Hybrid electric vehicle technology | 3 | **√** |  |
| 专  业  教  育 | 选修 | 8 | 0300538 | 汽车服务企业管理  Enterprise Management of Automobile Service | 2 | **√** |  |
| 9 | 2104241 | 汽车电子控制技术  Automotive Electronic Control Technology | 3 | **√** |  |
| 10 | 0300526 | 汽车专业英语  Automobile Professional English | 2 | **√** |  |
| 11 | 0300522 | 汽车覆盖件模具设计  Design of Automotive Panel Di | 3 | **√** |  |
| 12 | 0300192 | 汽车设计  Automobile Design | 2 | **√** |  |
| 13 | 0300195 | 汽车CAD技术  Automobile CAD Technique | 2 | **√** |  |
| 14 | 0300124 | 科技应用文写作概论  Sci-Tech Practical Writing Concept | 1.5 | **√** |  |
| 15 | 2104242 | 数字资源检索利用  Retrieval and Utilization of Digital Resources | 1 | **√** |  |
| 16 | 0300524A | 汽车评估学  Automobile Evaluation | 3 | **√** |  |

**续表6：汽车服务工程专业（智能新能源汽车方向）课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专  业  教  育 | 选  修 | 17 | 2104244 | 汽车物流工程  Automobile Logistics Engineering | 2 | **√** |  |
| 18 | 2104245 | 国际汽车贸易理论 International trade theory | 2 | **√** |  |
| 19 | 2104254 | [车联网技术与应用](http://www.cmpedu.com/books/book/5604375.htm" \t "_blank)  Technology And Application Of Internet Of Vehicles | 2 | **√** |  |
| 20 | 0304525 | 汽车制造工艺学  Automobile Manufacture Technology | 2 | **√** |  |
| 21 | 0304522 | 汽车试验学  Automotive Testing | 2 | **√** |  |
| 22 | 2104248 | 汽车碰撞与安全  Collision and Safety of Vehicle | 2 | **√** |  |
| 23 | 0300126 | 传感器及检测技术  Sensors & Testing Technology | 2 |  | 电信院 |
| 24 | 0300503 | 计算机控制技术  Computer Controlling Technology | 2 |  |
| 25 | 2104253 | 汽车网络与新媒体营销  Automobile network and new media marketing | 2 | **√** |  |
| 26 | 2104256 | 智能汽车技术  Intelligent Vehicle Technology | 2 | **√** |  |
| 27 | 2104257 | 消费者行为学  Consumer Behavior | 2 | **√** |  |
| 28 | 2104259 | [现代汽车振动与噪声分析技术](http://www.cmpedu.com/books/book/5603606.htm" \t "_blank)  Modern Automobile Vibration And Noise Analysis Technology | 3 | **√** |  |
| 29 | 2104260 | 汽车节能技术与原理  Automobile Energy Saving Technology And Principle | 2 | **√** |  |
| 30 | 2104261 | 内燃机排放与控制  Emission And Control Of Internal Combustion Engine | 3 | **√** |  |
| 31 | 2104262 | [二手车鉴定与评估](http://www.cmpedu.com/books/book/2062581.htm" \t "_blank)  Used Car Identification And Evaluation | 2 | **√** |  |
| 32 | 2104263 | 汽车品牌文化  Automobile Brand Culture | 2 | **√** |  |

**表7：汽车服务工程专业集中实践课程归属**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 集中教学实践 | 必修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 00000D3 | 信息技术应用基础实践  Practice for Application of Information Technology | 1 |  | 电信院 |
| 5 | 0000012E | 物理实验(机械能动类)  Physics Experiments | 1.5 |  | 基础部 |
| 6 | 0300034 | 电路实验  Experiment of Electric Circuit | 1.5 |  | 电信院 |
| 7 | 0504103 | 电子技术实验  Digital Circuit Experiment | 1.5 |  |
| 8 | 0300095 | 微机与单片机综合实践  General Practice of Computer | 1 | **√** |  |
| 9 | 0300134 | 金工实习  Smithcraft Practice | 3.5 | **√** |  |
| 10 | 0300135 | 机械设计基础课程设计※  Course Project (Basics of Mechanical Design) | 2 | **√** |  |
| 11 | 0300201 | 汽车拆装和驾驶实习  Automobile Dismantling and Driving Practice | 2 | **√** |  |
| 12 | 030A203 | C语言课程设计  Practice of C Programming | 1 |  | 电信院 |

**续表7：汽车服务工程专业集中实践课程归属**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 集中教学实践 | 必 修 | 13 | 2104269 | 汽车维护与检测实践※  Automobile Maintenance and Testing Practice | 2 | **√** |  |
| 14 | 0300528 | 汽车电器及电控技术实习  Automobile Electric Appliances and Electronics Practice | 2 | **√** |  |
| 15 | 0300069B | 认识实习  Realizing Practice | 1 | **√** |  |
| 16 | 0300501B | 毕业实习  Graduation Practice | 2 | **√** |  |
| 17 | 0300342 | 毕业设计（论文）※  Undergraduate Paper | 14 | **√** |  |