附表

表1：

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| 序号 | 课程名称 | 毕业要求1 | 毕业要求2 | 毕业要求3 | 毕业要求4 | 毕业要求5 | 毕业要求6 | 毕业要求7 | 毕业要求8 | 毕业要求9 | 毕业要求10 | 毕业要求11 | 毕业要求12 |
| 1 | 高等数学 | H |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 线性代数 | H |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 概率论与数理统计 | H |  |  | H |  |  |  |  |  |  |  |  |
| 4 | 复变函数与积分变  换 | H | H |  |  |  |  |  |  |  |  |  |  |
| 5 | 工程计算方法 | M |  |  |  | H |  |  |  |  |  |  |  |
| 6 | 大学物理 | H | H |  | H |  |  |  |  |  |  |  |  |
| 7 | 工程化学 | H |  |  |  |  |  | H |  |  |  |  |  |
| 8 | 理论力学Ⅱ | H | H |  |  |  |  |  |  |  |  |  |  |
| 9 | 材料力学Ⅱ | H | H |  |  |  |  |  |  |  |  |  |  |
| 10 | 工程制图基础 |  |  |  |  | M |  |  |  |  | H |  |  |
| 11 | 机械制图Ⅰ |  |  |  |  | H |  |  |  |  | M |  |  |
| 12 | 机械测绘 |  |  |  |  | H |  |  |  |  |  |  |  |
| 13 | 信息检索与利用 |  |  |  |  | H |  |  |  |  | M |  |  |
| 14 | 军事训练 |  |  |  |  |  |  |  |  | M |  |  |  |
| 15 | 电工电子技术 | H | H |  |  |  |  |  |  |  |  |  |  |
| 16 | 工程热力学 | H | H |  |  |  |  |  |  |  |  |  |  |
| 17 | 计算机程序设计基  础（C） |  |  |  |  | H |  |  |  |  |  |  |  |
| 18 | 机械原理 | H | H | H | L |  |  |  |  |  |  |  |  |
| 19 | 机械设计 | H | H | H | L |  |  |  |  |  |  |  |  |
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| 20 | 互换性与技术测量 | H |  |  |  | H |  |  |  |  |  |  |  |
| 21 | 材料科学基础 |  | H |  | H |  |  |  |  |  |  |  |  |
| 22 | 机械制造技术基础 | H |  | H |  |  |  |  |  |  |  |  |  |
| 23 | 机械工程控制基础 | H | H |  |  |  |  |  |  |  |  |  |  |
| 24 | 液压与气压传动 | H | H |  | L |  |  |  |  |  |  |  |  |
| 25 | 机械工程测试技术  与信号处理 |  |  |  | H | M |  |  |  |  |  |  |  |
| 26 | 机械工程概论（双  语） |  |  |  |  |  |  |  |  |  | H |  |  |
| 27 | 计算机辅助机械设  计 |  |  |  |  | H |  |  |  |  |  |  |  |
| 28 | 机械振动基础 | H |  |  |  |  |  |  |  |  |  |  |  |
| 29 | 工程经济与项目管  理概论 |  |  |  |  |  |  |  |  |  |  | H |  |
| 30 | 机电传动控制 | H | M | L |  |  |  |  |  |  |  |  |  |
| 31 | 数控技术 | M |  |  |  | H |  |  |  |  |  |  |  |
| 32 | 大学物理实验 |  |  |  | H | M |  |  |  |  |  |  |  |
| 33 | 机械工程系列讲座 |  |  |  |  |  | H | H |  |  | H | H |  |
| 34 | 电工电子技术实验 |  |  |  | H |  |  |  |  |  |  |  |  |
| 35 | 金工实习（机械类） |  |  |  |  |  | H | M |  | H |  |  |  |
| 36 | 认识实习 |  |  |  |  |  | M | H | H |  |  |  |  |
| 37 | 生产实习 |  |  |  |  |  | H | M | H |  |  |  |  |
| 38 | 毕业实习 |  |  |  |  |  | M | H |  | H |  |  |  |
| 39 | 机械原理课程设计 |  | M | H | L |  |  |  |  |  |  |  |  |
| 40 | 机械设计课程设计 |  | M | H |  |  |  |  |  |  | H |  |  |
| 41 | 数控综合实践 |  | M | H |  |  |  |  |  | H |  |  |  |
| 42 | 机电传动控制综合实践 |  | M | H |  |  |  |  |  | H |  |  |  |
| 43 | 液压与气动综合实  践 |  | M | H |  |  |  |  |  | H |  |  |  |
| 44 | 毕业设计（论文） |  | M | H |  | M |  |  |  | H | M | H | M |
| 45 | 中国近现代史纲要 |  |  |  |  |  |  |  | H |  |  |  |  |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  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|  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 毛泽东思想和中国  特色社会主义理论 |  |  |  |  |  |  |  | H |  |  |  |  | | 47 | 马克思主义基本原  理 |  |  |  |  |  |  |  | H |  |  |  |  | | 48 | 思想道德修养与法  律基础 |  |  |  |  |  | M |  | H |  |  |  |  | | 49 | 形势与政策 |  |  |  |  |  |  |  | H |  |  |  | H | | 50 | 大学英语 |  |  |  |  |  |  |  |  |  | H |  |  | | 51 | 大学体育 |  |  |  |  |  |  |  |  | M |  |  |  | | 52 | 大学生就业指导与  创业教育 |  |  |  |  |  |  |  | L |  |  |  | H | | 53 | 创新创业基础 |  |  |  |  |  |  |  | L |  |  |  | H | | 54 | 创新思维与机械创  新设计 |  |  | H |  |  |  |  |  |  |  |  | H | | 55 | 机械系统计算机仿  真技术 |  |  |  |  | H |  |  |  |  |  |  |  | |

附表2 课程设置及教学安排表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 课程模块 | | 课程编码 | 课程名称 | 学分 | 总学时 | 理论学时 | 课内实践学时 | | | 各学期学时分配 | | | | | | | | | | | 课程性质代码 | 模 块 学分要求 |
| 实验 | 上机 | 其他 | 一 | | | 二 | | | 三 | | | 四 | |
| 1 | 2 | 2+ | 3 | 4 | 4+ | 5 | 6 | 6+ | 7 | 8 |
| 通识教育教学模块 | 通识核心课程 | 111001 | 中国近现代史纲要 | 3.0 | 48 | 32 |  |  | 16 |  | 48 |  |  |  |  |  |  |  |  |  | A1 | A1=87.5学  分，A2≥0 学分 |
| 111002 | 毛泽东思想和中国特色社会主义理论体系概论 | 4.0 | 64 | 48 |  |  | 16 |  |  |  | 64 |  |  |  |  |  |  |  | A1 |
| 111003 | 马克思主义基本原理 | 4.0 | 64 | 48 |  |  | 16 |  |  |  |  | 64 |  |  |  |  |  |  | A1 |
| 111006 | 思想道德修养与法律基础 | 3.0 | 48 | 32 |  |  | 16 | 48 |  | |  |  |  |  |  |  |  |  | A1 |
| 111240 | 形势与政策1 | 0.5 | 8 | 8 |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  | A1 |
| 111241 | 形势与政策2 | 0.5 | 8 | 8 |  |  |  |  |  |  | 8 |  |  |  |  |  |  |  | A1 |
| 111242 | 形势与政策3 | 0.5 | 8 | 8 |  |  |  |  |  |  |  |  |  | 8 |  |  |  |  | A1 |
| 111243 | 形势与政策4 | 0.5 | 8 | 8 |  |  |  |  |  |  |  |  |  |  | 8 |  |  |  | A1 |
| 115002 | 军事理论 | 2.0 | 36 | 32 |  |  | 4 | 36 |  |  |  |  |  |  |  |  |  |  | A1 |
| 112001 | 大学英语1 | 3.5 | 56 | 56 |  |  |  | 56 |  |  |  |  |  |  |  |  |  |  | A1 |
| 112002 | 大学英语2 | 3.5 | 56 | 56 |  |  |  |  | 56 |  |  |  |  |  |  |  |  |  | A1 |
| 112003 | 大学英语3/大学英语拓展课1 | 2.0 | 32 | 32 |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  | A1 |
| 112004 | 大学英语4/大学英语拓展课2 | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 32 |  |  |  |  |  |  | A1 |
| 113107 | 大学体育1 | 1.0 | 36 | 32 |  |  | 4 | 36 |  |  |  |  |  |  |  |  |  |  | A1 |
| 113108 | 大学体育2 | 1.0 | 36 | 32 |  |  | 4 |  | 36 |  |  |  |  |  |  |  |  |  | A1 |
| 113109 | 大学体育3 | 1.0 | 36 | 32 |  |  | 4 |  |  |  | 36 |  |  |  |  |  |  |  | A1 |
| 113110 | 大学体育4 | 1.0 | 36 | 32 |  |  | 4 |  |  |  |  | 36 |  |  |  |  |  |  | A1 |
| 110035 | 高等数学I1 | 5.5 | 88 | 88 |  |  |  | 88 |  |  |  |  |  |  |  |  |  |  | A1 |
| 110036 | 高等数学I2 | 6.0 | 96 | 96 |  |  |  |  | 96 |  |  |  |  |  |  |  |  |  | A1 |
| 110042 | 线性代数 | 2.5 | 40 | 40 |  |  |  |  |  |  | 40 |  |  |  |  |  |  |  | A1 |
| 110043 | 概率论与数理统计 | 3.5 | 56 | 56 |  |  |  |  |  |  | 56 |  |  |  |  |  |  |  | A1 |
| 107208 | 工程计算方法 | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 32 |  |  |  |  |  |  | A1 |
| 110045 | 复变函数与积分变换 | 3.5 | 56 | 56 |  |  |  |  |  |  | | 56 |  |  |  |  |  |  | A1 |
| 110063 | 大学物理1 | 3.5 | 56 | 56 |  |  |  |  | 56 |  |  |  |  |  |  |  |  |  | A1 |
| 110064 | 大学物理2 | 3.5 | 56 | 56 |  |  |  |  |  |  | 56 |  |  |  |  |  |  |  | A1 |
| 110139 | 理论力学Ⅱ1 | 3.5 | 56 | 56 |  |  |  |  |  |  | 56 |  |  |  |  |  |  |  | A1 |
| 110140 | 理论力学Ⅱ2 | 2.5 | 40 | 38 | 2 |  |  |  |  |  |  | 40 |  |  |  |  |  |  | A1 |
| 110145 | 材料力学Ⅱ1 | 3.5 | 56 | 48 | 8 |  |  |  |  |  |  | 56 |  |  |  |  |  |  | A1 |
| 110146 | 材料力学Ⅱ2 | 2.5 | 40 | 38 | 2 |  |  |  |  |  |  |  |  | 40 |  |  |  |  | A1 |
| 107294 | 工程化学 | 2.0 | 32 | 32 |  |  |  |  | 32 |  |  |  |  |  |  |  |  |  | A1 |
| 110238 | 工程制图基础 | 3.5 | 56 | 48 |  |  | 8 | 56 |  |  |  |  |  |  |  |  |  |  | A1 |
| 110179 | 机械制图Ⅰ | 3.0 | 48 | 32 |  | 12 | 4 |  | 48 |  |  |  |  |  |  |  |  |  | A1 |
| 110239 | 机械测绘 | 1.5 | 24 | 4 |  |  | 20 |  | 24 |  |  |  |  |  |  |  |  |  | A1 |
| 107109 | 计算机程序设计基础（C） | 2.5 | 40 | 28 |  | 12 |  |  | 40 |  |  |  |  |  |  |  |  |  | A1 |
| **小 计** | | **87.5** | **1484** | **1332** | **12** | **24** | **116** | **328** | **436** |  | **348** | **316** |  | **48** | **8** |  |  |  |  |
| 106233 | 大学计算机基础 | 2.0 | 32 | 24 |  | 8 |  | 32 |  |  |  |  |  |  |  |  |  |  | A2 |
| **小 计** | | **2.0** | **32** | **24** |  | **8** |  | **32** |  |  |  |  |  |  |  |  |  |  |  |
| 通识拓展课程 | 本科生必须取得10个及其以上的通识拓展课程学分，方可毕业 | | | | | | | | | | | | | | | | | | | A3 | A3≥10学分 |
| 专业教育教学模块 | 专业基础课程 | 107126 | 电工电子技术 | 4.0 | 64 | 64 |  |  |  |  |  |  |  | 64 |  | |  |  |  |  | B1 | B1=37学  分，B2≥0 学分 |
| 107075 | 机械原理 | 3.0 | 54 | 48 | 6 |  |  |  |  |  |  | 54 |  |  |  |  |  |  | B1 |
| 107078 | 机械设计 | 3.0 | 54 | 48 | 6 |  |  |  |  |  |  |  |  | 54 |  |  |  |  | B1 |
| 107058 | 互换性与技术测量 | 2.0 | 36 | 32 | 4 |  |  |  |  |  |  | 36 |  |  |  |  |  |  | B1 |
| 107318 | 材料科学基础 | 2.5 | 44 | 40 | 4 |  |  |  |  |  |  |  | | 44 |  |  |  |  | B1 |
| 107011 | 机械制造技术基础 | 2.0 | 36 | 36 |  |  |  |  |  |  |  |  |  |  | 36 |  |  |  | B1 |
| 107112 | 机械工程概论（双语） | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  | 32 |  |  |  |  | B1 |
| 107067 | 机电传动控制 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  | 32 |  |  |  |  | B1 |
| 107286 | 工程热力学 | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  |  |  |  | 32 |  |  |  | B1 |
| 107022 | 液压与气压传动 | 3.0 | 48 | 42 | 6 |  |  |  |  |  |  |  |  |  | 48 |  |  |  | B1 |
| 107020 | 数控技术 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  | 32 |  |  |  | B1 |
| 107147 | 机械振动基础 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  | 32 |  |  |  |  | B1 |
| 107009 | 机械工程控制基础 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  | 32 |  |  |  |  | B1 |
| 107013 | 计算机辅助机械设计 | 2.0 | 32 | 20 |  | 12 |  |  |  |  |  |  |  |  | 32 |  |  |  | B1 |
| 107133 | 机械工程测试技术与信号处理 | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  |  |  |  | 32 |  |  |  | B1 |
| 107314 | 信息检索与利用 | 0.5 | 8 |  |  | 8 |  |  |  |  |  |  |  |  | 8 |  |  |  | B1 |
| 107119 | 大学生就业指导与创业教育 | 1.0 | 18 | 18 |  |  |  |  |  |  |  |  |  |  | 18 |  |  |  | B1 |
| **小 计** | | **37.0** | **618** | **540** | **58** | **20** |  |  |  |  |  | **154** |  | **226** | **238** |  |  |  |  |
| 107002 | 单片机原理及接口技术 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  | 32 |  |  |  | B2 |
| 107008 | 机电一体化系统设计 | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  |  |  |  |  |  |  | 32 | B2 |
| **小 计** | | **4.0** | **64** | **52** | **12** |  |  |  |  |  |  |  |  |  | **32** |  |  | **32** |  |
| 专业方向课程 | 107316 | 工程经济与项目管理概论 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  | 32 |  |  |  | C1 |  |
| 107287 | 机械工程系列讲座 | 1.5 | 24 |  |  |  | 24 |  |  |  |  |  |  |  |  |  | 24 |  | C1 |
| **小 计** | | **3.5** | **56** | **32** |  |  | **24** |  |  |  |  |  |  |  | **32** |  | **24** |  |  |
| 107317 | 建筑机械 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107018 | 内燃机构造与原理 | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107003 | 工程机械底盘构造 | 2.0 | 32 | 30 | 2 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 课程模块 | | 课程编码 | 课程名称 | 学分 | 总学时 | 理论学时 | 课内实践学时 | | | 各学期学时分配 | | | | | | | | | | | 课程性质代码 | 模 块 学分要求 |
| 实验 | 上机 | 其他 | 一 | | | 二 | | | 三 | | | 四 | |
| 1 | 2 | 2+ | 3 | 4 | 4+ | 5 | 6 | 6+ | 7 | 8 |
| 专业教育教学模块 | 专业方向课程 | 107017 | 机械结构设计与有限元分析 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  | 32 |  |  |  | C2 | C1=3.5学  分，C2≥8 学分 |
| 107145 | 振动机械 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  | 32 |  |  |  | C2 |
| 107148 | 采掘与提升机械 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107151 | 轧钢设备及工艺 | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107150 | 设备维修与管理 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107116 | 机械制造装备设计 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  | 32 |  |  |  | C2 |
| 107115 | 机床与刀具 | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107118 | 数控加工工艺与编程技术 | 2.0 | 32 | 26 | 6 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107185 | 先进制造技术概论 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107144 | 结构力学与钢结构 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107122 | 数据库及管理信息系统 | 2.0 | 32 | 24 |  | 8 |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107019 | 设备状态监测与故障诊断 | 2.0 | 32 | 30 | 2 |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107184 | 可靠性工程概论 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| 107117 | 模具设计与制造 | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  |  |  |  |  | 32 |  | C2 |
| **小 计** | | **34.0** | **544** | **486** | **50** | **8** |  |  |  |  |  |  |  |  | **96** |  | **448** |  |  |
| 创新创业教育及课外素质教育模块 | 创新创业教育课程 | 133001 | 创新创业基础 | 1.5 | 24 | 16 |  |  | 8 |  |  |  |  |  |  | 24 |  |  |  |  | D1 | D1=2.5学  分，D2≥1 学分 |
| 107372 | 创新思维与机械创新设计 | 1.0 | 16 |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  | D1 |
| **小 计** | | **2.5** | **40** | **16** |  |  | **8** |  |  |  |  |  |  | **40** |  |  |  |  |  |
| 107374 | 机械系统计算机仿真技术 | 1.0 | 16 | 4 |  | 12 |  |  |  |  |  |  |  | 12 |  |  |  |  | D2 |
| **小 计** | | **1.0** | **16** | **4** |  | **12** |  |  |  |  |  |  |  | **12** |  |  |  |  |  |
| 课外素质教育学分 | 本科生必须取得10个及其以上的课外素质教育学分，方可授予学士学位 | | | | | | | | | | | | | | | | | | | D3 | D3≥10学分 |

**备注：**课程性质代码：通识核心课程—A1（必修）、A2（选修）；通识拓展课程—A3（选修）；

专业基础课程—B1（必修）、B2（选修）；专业方向课程—C1（必修）、C2（选修）；

创新创业教育及课外素质教育模块—D1（必修）、D2（选修）、D3（课外素质教育学分）。每门专业方向选修课程限选60人。各学期学时分配：2+表示第2学期设置的夏季短学期“2+X”周；4+表示第4学期设置的夏季短学期“2+X”周；6+表示第6学期设置的夏季短学期“2+X”周。

附表3 集中实践教育教学模块设置及安排表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 实践教学内容 | | 学时 | 学分 | 周数 | 各学期周学时(周数)分配 | | | | | | | | | | | 课程性质  代码 | 模块学分要求 | 是否创新创业类实践教学环节 |
| 一 | | | 二 | | | 三 | | | 四 | |
| 1 | 2 | 2+ | 3 | 4 | 4+ | 5 | 6 | 6+ | 7 | 8 |
| 1 | 独立设课的实验 | 大学物理实验 | 56 | 2.0 | \ |  | 56 |  |  |  |  |  |  |  |  |  | E1 | E1=42.5学  分，  E2≥0 学分 | 否 |
| 2 | 电工电子技术实验 | 16 | 0.5 | \ |  |  |  |  |  |  | 16 |  |  |  |  | E1 | 否 |
|  | 小计 | 72 | 2.5 | \ |  | 56 |  |  |  |  | 16 |  |  |  |  |  | 否 |
| 3 | 实习、课程设计（论 文）、毕业设计（论 文）等环节 | 军事技能 | \ | 2.0 | 2K | 2K |  |  |  |  |  |  |  |  |  |  | E1 | 否 |
| 4 | 金工实习 | \ | 5.0 | 5K |  |  |  | 5K |  |  |  |  |  |  |  | E1 | 否 |
| 5 | 认识实习 | \ | 2.0 | 2K |  |  |  |  |  |  | 2K |  |  |  |  | E1 | 否 |
| 6 | 生产实习(工艺实习) | \ | 2.0 | 2K |  |  |  |  |  |  |  |  |  | 2K |  | E1 | 否 |
| 7 | 生产实习(专业实习) | \ | 2.0 | 2K |  |  |  |  |  |  |  |  |  | 2K |  | E1 | 否 |
| 8 | 毕业实习 | \ | 2.0 | 2K |  |  |  |  |  |  |  |  |  |  | 2K | E1 | 否 |
| 9 | 毕业设计(论文) | \ | 14.0 | 14K |  |  |  |  |  |  |  |  |  |  | 14K | E1 | 否 |
| 10 | 数控综合实践 | \ | 2.0 | 2K |  |  |  |  |  |  |  |  |  | 2K |  | E1 | 否 |
| 11 | 液压与气动综合实践 | \ | 2.0 | 2K |  |  |  |  |  |  |  |  |  | 2K |  | E1 | 否 |
| 12 | 机电传动控制综合实践 | \ | 2.0 | 2K |  |  |  |  |  |  |  |  | 2K |  |  | E1 | 否 |
| 13 | 机械原理课程设计 | \ | 1.0 | 1K |  |  |  |  |  | 1K |  |  |  |  |  | E1 | 否 |
| 14 | 机械设计课程设计 | \ | 4.0 | 4K |  |  |  |  |  |  |  | 4K |  |  |  | E1 | 否 |
|  | 小计 |  | 40.0 | 40K | 2K |  |  | 5K |  | 1K | 3K | 4K | 2K | 8K | 16K |  | 否 |

备注：（1）K表示“周”；（2）集中实践教学环节—E1（必修），E2（选修）；

附表4 各学期学时分配表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 学  期  学  时  类别 | | | 一 | 二 | 2+ | 三 | 四 | 4+ | 五 | 六 | 6+ | 七 | 八 | 总计 |
| 必修环节 | 课程教学 | | 328 | 436 |  | 348 | 470 |  | 314 | 278 |  | 24 | 0 | 2198 |
| 集中实践教学环节 | 独立设课实验 |  | 56 |  |  |  |  | 16 |  |  |  |  | 72 |
| 实习、课程设计（论文）、毕业设计（论文）等环节 | 2K |  |  | 5K |  | 1K | 2K | 4K | 2K | 8K | 16K | 40K |
| 其它 | | 28 | 68 |  | 20 | 40 |  | 28 | 42 |  | 8 |  | 234 |
| 选修环节 | 课程教学 | | 32 | 0 |  | 0 | 0 |  | 12 | 128 |  | 448 | 32 | 652 |
| 集中实践教学环节 | 独立设课实验 |  |  |  |  |  |  |  |  |  |  |  |  |
| 实习、课程设计（论文）、毕业设计（论文）等环节 |  |  |  |  |  |  |  |  |  |  |  |  |
| 通识拓展课程 | | 至少获得10个及其以上的通识拓展课程学分，方可毕业 | | | | | | | | | | | |
| 备注：   1. 本表中选修环节统计的是该专业所有应给学生提供的课程资源； 2. 本表中必修环节对应的其它一栏主要对应附表1的课内实践。 | | | | | | | | | | | | | | |

# 附表5 学时学分结构表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | | | 学时数 | 百分比1  （%） | 学分数 | 百分比2  （%） |
| 通识教育教学模块 | 通识核心课程 | 必修 | 1484 | 59.69 | 87.5 | 45.81 |
| 选修 | 0 | 0.00 | 0.0 | 0.00 |
| 通识拓展课程 | 选修 | 160 | 6.44 | 10.0 | 5.24 |
| 专业教育教学模块 | 专业基础课程 | 必修 | 618 | 24.86 | 37.0 | 19.37 |
| 选修 | 0 | 0.00 | 0.0 | 0.00 |
| 小计 | 618 | 24.86 | 37.0 | 19.37 |
| 专业方向课程 | 必修 | 56 | 2.25 | 3.5 | 1.83 |
| 选修 | 128 | 5.15 | 8.0 | 4.19 |
| 小计 | 184 | 7.40 | 11.5 | 6.02 |
| 创新创业教育及课外素质教育模块 | 创新创业教育课程 | 必修 | 40 | 1.61 | 2.5 | 1.31 |
| 选修 | 0 | 0.00 | 0 | 0.00 |
| 小计 | 40 | 1.61 | 2.5 | 1.31 |
| 课外素质教育学分 | | | | 10 | |
| 毕业需最低理论教学总学时数及学分数 | | 总计 | 2486 | 100.00 | 148.5 | 77.75 |
| 集中实践教育教学模块 | | | | | 42.5 | 22.25 |
| 毕业需达到的最低学分数 | | | | | 191.0 | 100.00 |
| 授予学位需达到的最低学分数 | | | | | 201.0 | |
| 备注:   1. 百分比1是指该类课程占理论教学总学时数的百分比，百分比2是指该类课程占毕业需达到的最低学分数的百分比； 2. 本表中选修指的是要求该专业学生所必须选修的最低学时数和学分数； 3. 本表中集中实践教育教学模块指的是要求该专业学生所必须获得集中实践教学环节（见附表2）的最低学分数。 | | | | | | |

附表6 实验设置及安排表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 实验模块 | | 所属课程编码及名称 | 学分 | 开  设实  验 | 实  验总  学 | 要  求完  成 | 实验项目名称 | 实验类型 | 各学期学时分配 | | | | | | | | | | | 实验  是否独立  设课 | 开出要求 |
| 一 | | | 二 | | | 三 | | | 四 | |
| 1 | 2 | 2+ | 3 | 4 | 4+ | 5 | 6 | 6+ | 7 | 8 |
|  |  |  |  |  |  |  | 绪论课 | 理论 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 分光计的调整与使用 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 用扭转法测量物体的转动惯量 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 等厚干涉的应用 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 单臂电桥测电阻 | 设计 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 电子元件的伏安特性研究 | 综合 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必选 |
|  |  |  |  |  |  |  | 速度和加速度的测量 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | ≥1项 |
|  |  | 110287  大学物理 | 2.0 | 18 | 72 | 56 | 示波器的调节与电信号的测量 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  | 是 | 必选  ≥1项 |
| 稳恒电流场模拟静电场 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |
|  |  | 实验 |  |  |  |  | 衍射光栅特性的研究 | 综合 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 高电势电位差计的应用 | 设计 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 金属丝杨氏模量测量方法的研究 | 设计 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  | 基础 |  |  |  |  |  | 双臂电桥测量低值电阻 | 综合 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必做 |
| 迈克尔逊干涉仪的使用 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  | 必做 |
|  | 实验 |  |  |  |  |  |  |
|  | 模块 |  |  |  |  |  | 空气中声速的测量 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必选 |
|  |  |  |  |  |  |  | 用霍尔元件测量磁感应强度 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | ≥1项 |
|  |  |  |  |  |  |  | 稳态法测不良导体的导热系数 | 验证 |  | 4 |  |  |  |  |  |  |  |  |  |  | 必选 |
|  |  |  |  |  |  |  | 电阻应变片传感器的桥路性能 | 综合 |  | 4 |  |  |  |  |  |  |  |  |  |  | ≥1项 |
|  |  |  |  |  |  |  | 压缩实验 | 验证 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
|  |  | 110145 |  |  |  |  | 拉伸实验 | 验证 |  |  |  |  | 1 |  |  |  |  |  |  |  | 必做 |
| 拉伸弹性模量的测定实验 | 验证 |  |  |  |  | 1 |  |  |  |  |  |  | 必做 |
|  |  | 材料力学 |  |  |  |  |  |
| 扭转实验 | 验证 |  |  |  |  | 1 |  |  |  |  |  |  | 必做 |
|  |  | Ⅰ  110146 | 6.0 | 8 | 14 | 10 | 否 |
| 剪切弹性模量G的测定实验 | 验证 |  |  |  |  | 1 |  |  |  |  |  |  | 必做 |
|  |  | 材料力学 |  |  |  |  | 梁弯曲正应力测定实 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
|  |  | Ⅱ |  |  |  |  |  |
| 弯扭组合主应力测定实验 | 设计 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 规定非比例伸长应力的测定实验 | 设计 |  |  |  |  | 4 |  |  |  |  |  |  |  | 选做 |
| 计划内实 |  | 110140  理论力学 | 5.0 | 2 | 2 | 2 | 单自由度自由振动实验 | 验证 |  |  |  | 1 |  |  |  |  |  |  |  | 否 | 必做 |
| 单自由度强迫振动实验 | 验证 |  |  |  | 1 |  |  |  |  |  |  |  | 必做 |
| 验 |  | 小计 | 11.0 | 10 | 16 | 12 |  |  |  |  |  | 2 | 14 |  |  |  |  |  |  |  |  |
| (课 |  |
|  | 107127  电工电子技术实验 |  |  |  |  | 基尔霍夫定律、叠加原理及等效电源定理 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
| 内实 |  |  |  |  |  |  |
| 感性电路功率因数的改善 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 验和 |  |  |  |  |  |  |
| 异步电动机的正、反转控制 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 独立 |  |  |  |  |  |  |
| 设课实验 |  | 0.5 | 8 | 16 | 16 | 集成运算放大器 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 是 | 必做 |
| 全加器计数器译码显示电路 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  |  |  |  |  | PLC基本指令 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  |  |  |  |  | PLC综合实验 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  |  |  |  |  | 集成运算放大器的应用 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  | 107075  机械原理 | 3.0 | 5 | 10 | 6 | 机构运动简图测绘 | 验证 |  |  |  |  | 2 |  |  |  |  |  |  | 否 | 必做 |
| 齿轮范成原理 | 验证 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
| 回转构件动平衡 | 验证 |  |  |  |  | 2 |  |  |  |  |  |  | 选做 |
| 典型机构的设计与分析 | 设计 |  |  |  |  | 4 |  |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 机械创新设计 | 设计 |  |  |  |  | 4 |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 液体动压滑动轴承分析 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 轴系结构组合设计 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  | 专业 |  |  |  |  |  | 百分表拆装 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  | 基础 |  |  |  |  |  | 带传动的滑差率与效率 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  | 实验 |  |  |  |  |  |  |
| 减速器拆装实验 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  | 模块 | 107078  机械设计 | 3.0 | 12 | 24 | 6 | 否 |
| 滚动轴承受力分析 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
| 机械运动和动力学分析 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 转子测量分析 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 旋转机械故障诊断 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 螺栓组应力分析 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 弹簧特性测试 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  |  |  |  |  |  | 轴的疲劳应力分析 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 选做 |
|  |  | 107067机 |  |  |  |  | PLC基本指令实验 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
| 三相异步交流电机控制与变频调速实验 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 混料罐实验 | 设计 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  | 电传动控 | 2.0 | 8 | 12 | 8 | 否 |
| 电镀行车控制实验 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  | 制 |  |  |  |  |  |
| Matlab电机仿真实验 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  |  | 数控包装机实验 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  |  | 107286热  工基础 | 2.0 | 2 | 4 | 4 | 气体定压比热测定实验 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 否 | 必做 |
| 稳定球体法测定颗粒态物质的导热系数实 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | 尺寸精度检测 | 验证 |  |  |  |  | 6 |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 圆度、直线度、圆柱度检测 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
|  |  | 107058 |  |  |  |  | 同轴度、跳动度、平行度检测 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
| 表面粗糙度检测 | 设计 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
|  |  | 互换性与 | 2.0 | 8 | 24 | 24 | 否 |
| 齿距测量 | 综合 |  |  |  |  | 6 |  |  |  |  |  |  | 必做 |
|  |  | 技术测量 |  |  |  |  |  |
| 齿厚测量 | 设计 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 齿廓测量 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 螺旋线测量 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 铁碳合金的组织观察 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  | 107056 |  |  |  |  | 热处理 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
| 铸铁、合金钢、有色金属金相组织观察 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  | 材料科学 | 2.5 | 5 | 10 | 10 | 否 |
|  |  | 基础 |  |  |  |  | 金属材料硬度测试 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 刀具的几何角度及其测量实验 | 综合 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
|  |  | 107133 |  |  |  |  | 金属箔式应变电桥 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 信号的采样与恢复 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  |  | 机械工程 |  |  |  |  |  |
| 霍尔传感器、光电传感器测速 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  |  | 测试技术 | 2.0 | 5 | 10 | 4 | 否 |
|  |  | 与信号处 |  |  |  |  | 调制与解调、频分复用 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  |  | 理 |  |  |  |  |  |
| 基于Labview虚拟仪器设计 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  |  | 107022 |  |  |  |  | 液压元件拆装实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 压力控制回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  |  | 液压与气 | 3.0 | 3 | 6 | 6 | 否 |
|  |  | 动技术 |  |  |  |  | 液压泵效率测试实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  | 专业 |  |  |  |  |  |  |
|  |  |  |  |  | 数控系统组成原理实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  | 方向 |  |  |  |  |  |  |
| 插补原理实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  | 实验 |  |  |  |  |  |  |
|  | 模块 | 107020  数控技术 | 2.0 | 6 | 12 | 8 | G代码编程实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 必做 |
| 步进电机及其驱动实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  |  |  |  |  |  |  | 直流伺服电机及其驱动实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  |  |  |  |  |  |  | 位置、速度控制实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  |  |  |  |  |  |  | 单自由度系统模型参数的测试 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  |  | 必做 |
| 计划 |  | 107147  机械振动基础 | 2.0 | 6 | 12 | 8 | 单自由度系统自由衰减振动及固有频率、阻尼比的测定 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 否 | 必做 |
| 单自由度系统强迫振动的幅频特性、固有频率及阻尼比的测定 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 单自由度系统各种频率的区别与测定 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
| 内实 |  |  |  |  |  |  |  |
| 两自由度系统固有频率测试 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
| 验 |  |  |  |  |  |  |  |
| 锤击法简支梁模态测试 | 验证 |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
| (课 |  |  |  |  |  |  |  |
| 内实 |  |  | 2.0 | 6 | 12 | 8 | 汇编语言及其仿真 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 选做 |
| 验和  独立 |  | 107002 |
| 单片机IO口应用 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
| 光电传感器测转数 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
| 设课 |  | 单片机原 |
| LED电子钟 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
| 实验 |  | 理及接口 |
|  |  | 技术 | 倒计时器设计 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  |  |  | AD与DA转换 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  |  | 107008 |  |  |  |  | MPS模块化生产培训系统 | 综合 |  |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
|  |  | 机电一体  化系统设 | 2.0 | 3 | 6 | 4 | MATLAB编程实验 | 设计 |  |  |  |  |  |  |  |  |  |  | 2 | 否 | 选做 |
| 能力风暴机器人编程实验 | 设计 |  |  |  |  |  |  |  |  |  |  | 2 | 必做 |
|  |  | 计 |  |  |  |  |  |
|  |  | 小计 | 28.0 | 77 | 158 | 112 |  |  |  |  |  |  | 38 |  | 78 | 40 |  |  | 6 |  |  |
|  |  |  |  |  |  |  | 圆振动筛动力学性能实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 直线振动筛动力学性能实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 必做 |
|  |  |  |  |  |  |  | 椭圆振动筛动力学性能实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  |  |  |  |  |  |  | 弹性连杆式振动输送机动力学性能实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  |  | 107145  振动机械 | 2.0 | 10 | 20 | 8 | 多轴惯性振动输送机力学性能实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 选作 |
| 圆振动筛拆装和综合力学性能实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
| 直线振动筛拆装和综合力学性能实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 必做 |
|  |  |  |  |  |  |  | 椭圆振动筛拆装和综合力学性能实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  |  |  |  |  |  |  | 弹性连杆式振动输送机拆装和综合力学性 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选作 |
|  | 专业  方向实验 |  |  |  |  |  | 能实验 |  |
| 多轴惯性振动输送机拆装和综合力学性能实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 选作 |
|  |  |  |  |  | 塔式起重机结构原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
|  | 模块 |  |  |  |  |  |  |
|  |  | 107315建  筑机械 | 2.0 | 5 | 10 | 8 | 塔式起重机工作原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  | 否 | 必做 |
| 塔式起重机运动分析实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
| 起重臂应力应变测试实验 | 设计 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
|  |  | 装载机工作装置的应力应变测试实验 | 设计 |  |  |  |  |  |  |  |  |  | 2 |  | 选做 |
|  |  | 107018  内燃机构 | 2.0 | 2 | 4 | 4 | 内燃机原理与构造 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  | 否 | 必做 |
|  |  | 造与原理 |  |  |  |  | 柴油机喷油系统实验 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  |  | 必做 |
|  |  | 107003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 工程机械  底盘构造 | 2.0 | 1 | 2 | 2 | 工程机械底盘构造与运动关系的认知 | 验证 | 2 | 否 | 必做 |
|  |  | 与设计 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 专业方向实验模块 |  |  |  |  |  | 采煤机的结构与工作原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
|  |  |  |  |  |  | 液压支架的结构与工作原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
|  | 107148 |  |  |  |  | 掘进机的结构与工作原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
| 提升机的结构与工作原理实验 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
|  | 采掘与提 | 2.0 | 8 | 16 | 8 | 否 |
|  | 升机械 |  |  |  |  | 采煤机的性能测试实验 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
|  |  |  |  |  |  | 液压支架的性能测试实验 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
|  |  |  |  |  |  | 掘进机的力学性能实验 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
|  |  |  |  |  |  | 提升机的力学性能实验 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
| 计划 | 107151  轧钢设备及工艺 |  |  |  |  | 轧机结构分析及操作 | 认知 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
| 轧机拆装 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
| 内实 |  |  |  |  |  |
| 轧机成型工艺与实践 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
| 验  (课 | 2.0 | 6 | 12 | 8 | 否 |
| 轧制力与机架变形测量及其模拟分析 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  | 必做 |
| 内实 |  |  |  |  | 矫直原理实验 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
| 验和 |  |  |  |  | 轧制精度的控制与测量 | 综合 |  |  |  |  |  |  |  |  |  | 2 |  |  | 选作 |
| 独立  设课实验 |  |  |  |  |  |
| 107019  设备状态监测与故 | 2.0 | 1 | 2 | 2 | 转子振动台振动信号的测定与分析 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 必做 |
|  | 障诊断 |  |  |  |  |  |  |  |  |  |
|  | 107115 |  |  |  |  | CA6140机床结构剖析 | 验证 |  |  |  |  |  |  |  |  |  | 2 |  |  | 必做 |
|  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |
|  | 机床与刀  具 | 2.0 | 2 | 4 | 4 | 常用刀具结构分析 | 综合 | 否 | 必做 |
|  | 107118 |  |  |  |  | 数控车床编程加工 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  |  | 必做 |
| 数控铣床编程加工 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
|  | 数控加工  工艺与编 | 2.0 | 3 | 6 | 6 | 否 |
| 加工中心编程加工 | 综合 |  |  |  |  | 2 |  |  |  |  |  |  | 必做 |
|  | 程技术 |  |  |  |  |  |
|  | 小计 | 18.0 | 38 | 76 | 50 |  |  |  | 4 |  |  | 6 |  |  | 24 |  | 42 |  |  |  |
|  | 固定拓展性实验 |  |  |  |  |  | 减压回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  | 107022 |  |  | 顺序控制回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
| 方向控制回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  | 液压与气 | 5 | 10 | 否 |
|  | 动技术 |  |  |  |
| 保压卸荷回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  |  |  |  | 电液比例控制回路设计及实验 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  | 107133 |  |  |  |  | 非正弦周期信号的分解与合成 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  | 机械工程  测试技术 | 3 | 6 | 脉宽调制 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 选做 |
| 基于Labview电机转速测量 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  | 与信号处 |  |  |  |
|  | 107018  内燃机构 |  | 2 | 4 |  | 柴油机喷油系统油量校正实验 | 综合 |  | 2 |  |  |  |  |  |  |  |  |  | 否 | 选做 |
|  | 造与原理 |  |  | 柴油机性能特性曲线制取实验 | 综合 |  | 2 |  |  |  |  |  |  |  |  |  |  | 选做 |
|  | 107002 |  |  |  |  | RS232串口通讯 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
| 计划外实验 | 单片机原  理及接口  技术 | 3 | 6 | LED点阵与LCD显示 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 否 | 选做 |
| 直流电机调速实验 | 综合 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  |  |  |  |  | 垂直度、端面圆跳动度检测 | 验证 |  |  |  |  | 2 |  |  |  |  |  |  |  | 选做 |
| （拓 | 107058 |  |  |  |
| 物体表面轮廓与粗糙度的测量与认知 | 综合 |  |  |  |  | 3 |  |  |  |  |  |  | 选做 |
| 展性 | 互换性与 | 3 | 7 | 否 |
| 实 | 技术测量 |  |  | 齿圈跳动检测 | 设计 |  |  |  |  | 2 |  |  |  |  |  |  |  | 选做 |
| 验） |  |  |  |  |
|  |  |  |  |  | 冲击实验 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  |  | 选做 |
|  | 110145 |  |  |  |
| 压杆稳定临界力测定实验 | 综合 |  | 2 |  |  |  |  |  |  |  |  |  | 选做 |
|  | 材料力学 |  |  |  |
| 工程桁架结构内测定实验 | 设计 |  |  |  |  | 4 |  |  |  |  |  |  | 选做 |
|  | Ⅰ  110146 | 6 | 14 | 否 |
| 偏心受拉实验 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  | 选做 |
|  | 材料力学 |  |  | 材料的横向变形系数测定实验 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  |  | 选做 |
|  | Ⅱ |  |  |  |
| 平面光弹性实验 | 验证 |  | 2 |  |  |  |  |  |  |  |  |  | 选做 |
|  | 107075  机械原理 |  | 2 | 6 |  | 机械原理认知实验 | 演示 |  |  |  |  | 2 |  |  |  |  |  |  | 否 | 选做 |
| 机器人创新与实验 | 设计 |  |  |  |  | 4 |  |  |  |  |  |  | 选做 |
|  | 107068  机械设计 |  | 3 | 8 |  | 机械零件认知实验 | 演示 |  |  |  |  |  |  | 2 |  |  |  |  | 否 | 选做 |
| 机械零、部件的破坏与失效认知实验 | 演示 |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
| 慧鱼创意组合模型 | 综合 |  |  |  |  |  |  | 4 |  |  |  |  | 选做 |
|  | 107115 |  |  |  |  | Y3150E滚齿机调整实验 | 验证 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
| 切削力测量及经验公式的建立 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  | 选做 |
|  | 机床与刀 | 3 | 6 | 否 |
|  | 具 |  |  | 切削温度测量及经验公式建立 | 设计 |  |  |  |  |  |  |  | 2 |  |  |  |  | 选做 |
|  | 小计 |  | 30 | 67 | 0 |  |  |  | 14 |  |  | 17 |  | 8 | 28 |  |  |  |  |  |

附表7指导性教学进程安排

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 课程编码 | 课程名称 | 学分 | 学时 | 课程性质 | 备注 |  | 课程编码 | 课程名称 | 学分 | 学时 | 课程性质 | 备注 |
| **第一学期** | | | | | |  | **第二学期** | | | | | |
| 111006 | 思想道德修养与法律基础 | 3.0 | 48 | A1 | 考试 |  | 111001 | 中国近现代史纲要 | 3.0 | 48 | A1 | 考试 |
| 111240 | 形势与政策1 | 0.5 | 8 | A1 | 考查 | 112002 | 大学英语2 | 3.5 | 56 | A1 | 考试 |
| 112001 | 大学英语1 | 3.5 | 56 | A1 | 考试 | 113108 | 大学体育2 | 1.0 | 36 | A1 | 考试 |
| 113107 | 大学体育1 | 1.0 | 36 | A1 | 考试 | 110036 | 高等数学I2 | 6.0 | 96 | A1 | 考试 |
| 110035 | 高等数学I1 | 5.5 | 88 | A1 | 考试 | 110063 | 大学物理1 | 3.5 | 56 | A1 | 考试 |
| 110238 | 工程制图基础 | 3.5 | 56 | A1 | 考试 | 110179 | 机械制图Ⅰ | 3.0 | 48 | A1 | 考试 |
| 106233 | 大学计算机基础 | 2 | 32 | A2 | 考试 | 110239 | 机械测绘 | 1.5 | 24 | A1 | 考查 |
| 115003 | 军事技能 | 2.0 | 2K | E1 | 考查 | 107294 | 工程化学 | 2.0 | 32 | A1 | 考试 |
| 115002 | 军事理论 | 2 | 36 | A1 | 考试 | 107109 | 计算机程序设计基础（C） | 2.5 | 40 | A1 | 考试 |
|  |  |  |  |  |  | 110063 | 大学物理实验 | 2.0 | 56 | E1 | 考查 |
|  |  |  |  |  |  | **第2+学期 夏季短学期** | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **第三学期** | | | | | |  | **第四学期** | | | | | |
| 111002 | 毛泽东思想和中国特色社会主义理论体系概论 | 4.0 | 64 | A1 | 考试 |  | 111003 | 马克思主义基本原理 | 4.0 | 64 | A1 | 考试 |
| 111241 | 形势与政策2 | 0.5 | 8 | A1 | 考查 | 112004 | 大学英语4/大学英语拓展课2 | 2.0 | 32 | A1 | 考试 |
| 112003 | 大学英语3/大学英语拓展课1 | 2.0 | 32 | A1 | 考试 | 113110 | 大学体育4 | 1.0 | 36 | A1 | 考试 |
| 113109 | 大学体育3 | 1.0 | 36 | A1 | 考试 | 110140 | 理论力学Ⅱ2 | 2.5 | 40 | A1 | 考试 |
| 110064 | 大学物理2 | 3.5 | 56 | A1 | 考试 | 110145 | 材料力学Ⅱ1 | 3.5 | 56 | A1 | 考试 |
| 110139 | 理论力学Ⅱ1 | 3.5 | 56 | A1 | 考试 | 107208 | 工程计算方法 | 2.0 | 32 | A1 | 考试 |
| 110042 | 线性代数 | 2.5 | 40 | A1 | 考试 | 110045 | 复变函数与积分变换 | 3.5 | 56 | A1 | 考试 |
| 110043 | 概率论与数理统计 | 3.5 | 56 | A1 | 考试 | 107126 | 电工电子技术 | 4.0 | 64 | B1 | 考试 |
| 107064 | 金工实习 | 5.0 | 5K | E1 | 考查 | 107075 | 机械原理 | 3.0 | 54 | B1 | 考试 |
|  |  |  |  |  |  | 107058 | 互换性与技术测量 | 2.0 | 36 | B1 | 考试 |
|  |  |  |  |  |  | **第4+学期 夏季短学期** | | | | | |
|  |  |  |  |  |  | 107076 | 机械原理课程设计 | 1.0 | 1K | E1 | 考查 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **第五学期** | | | | | |  | **第六学期** | | | | | |
| 111242 | 形势与政策3 | 0.5 | 8 | A1 | 考查 |  | 111243 | 形势与政策4 | 0.5 | 8 | A1 | 考查 |
| 110146 | 材料力学Ⅱ2 | 2.5 | 40 | A1 | 考试 | 107011 | 机械制造技术基础 | 2.0 | 36 | B1 | 考试 |
| 107078 | 机械设计 | 3.0 | 54 | B1 | 考试 | 107286 | 工程热力学 | 2.0 | 32 | B1 | 考试 |
| 107318 | 材料科学基础 | 2.5 | 44 | B1 | 考试 | 107022 | 液压与气压传动 | 3.0 | 48 | B1 | 考试 |
| 107112 | 机械工程概论（双语） | 2.0 | 32 | B1 | 考试 | 111245 | 大学生就业指导与创业教育 | 1.0 | 18 | B1 | 考试 |
| 107009 | 机械工程控制基础 | 2.0 | 32 | B1 | 考试 | 107020 | 数控技术 | 2.0 | 32 | B1 | 考试 |
| 107147 | 机械振动基础 | 2.0 | 32 | B1 | 考试 | 107013 | 计算机辅助机械设计 | 2.0 | 32 | B1 | 考试 |
| 107067 | 机电传动控制 | 2.0 | 32 | B1 | 考试 | 107133 | 机械工程测试技术与信号处理 | 2.0 | 32 | B1 | 考试 |
| 107127 | 电工电子技术实验 | 0.5 | 16 | E1 | 考查 | 107314 | 信息检索与利用 | 0.5 | 8 | B1 | 考查 |
| 107135 | 认识实习 | 2.0 | 2K | E1 | 考查 | 107316 | 工程经济与项目管理概论 | 2.0 | 32 | C1 | 考查 |
| 133001 | 创新创业基础 | 1.5 | 24 | D1 | 考试 | 107144 | 机械结构设计与有限元分析 | 2.0 | 32 | C2 | 考试 |
| 107341 | 创新思维与机械创新设计 | 1.0 | 16 | D1 | 考查 | 107145 | 振动机械 | 2.0 | 32 | C2 | 考试 |
| 107374 | 机械系统计算机仿真技术 | 1.0 | 16 | D2 | 考查 | 107116 | 机械制造装备设计 | 2.0 | 32 | C2 | 考试 |
|  |  |  |  |  |  | 107073 | 机械设计课程设计 | 4.0 | 4K | E1 | 考查 |
|  |  |  |  |  |  | 107002 | 单片机原理及接口技术 | 2.0 | 32 | B2 | 考试 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **第6+学期 夏季短学期** | | | | | |
|  |  |  |  |  |  | 107300 | 机电传动与控制综合实践 | 2.0 | 2K | E1 | 考查 |
| **第七学期** | | | | | |  | **第八学期** | | | | | |
| 107287 | 机械工程系列讲座 | 1.5 | 24 | C1 | 考查 |  | 107095 | 毕业实习 | 2.0 | 2K | E1 | 考查 |
| 107317 | 建筑机械 | 2.0 | 32 | C2 | 考试 | 107134 | 毕业设计(论文) | 14.0 | 14K | E1 | 考查 |
| 107018 | 内燃机构造与原理 | 2.0 | 32 | C2 | 考试 | 107008 | 机电一体化系统设计 | 2.0 | 32 | C2 | 考试 |
| 107003 | 工程机械底盘构造 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107148 | 采掘与提升机械 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107151 | 轧钢设备及工艺 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107150 | 设备维修与管理 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107122 | 数据库及管理信息系统 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107019 | 设备状态监测与故障诊断 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107115 | 机床与刀具 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107118 | 数控加工工艺与编程技术 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107185 | 先进制造技术概论 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107017 | 结构力学与钢结构 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107184 | 可靠性工程概论 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107117 | 模具设计与制造 | 2.0 | 32 | C2 | 考试 |  |  |  |  |  |  |
| 107136 | 生产实习 | 4.0 | 4K | E1 | 考查 |  |  |  |  |  |  |
| 107319 | 数控综合实践 | 2.0 | 2K | E1 | 考查 |  |  |  |  |  |  |
| 107299 | 液压与气动综合实践 | 2.0 | 2K | E1 | 考查 |  |  |  |  |  |  |