表1 机械电子工程专业课程设置一览表

| 课程类型 | 课程编号 | 课程名称 | 学分 | 总学时 | 学时分配 | 必修/选修 | 开设学院 | 开设学期 | 知识贡献 | 能力贡献 | 素质贡献 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 讲课 | 实验 |
| 通识类(40.9%) 65.5学分类  | 思想政治理论课 | 1181001 | 中国近现代史纲要 Essentials of Modern & Contemporary History of China | 1.5 | 24 | 24 |  | 必修12学分 | 思政部 | 1 | A1 | B2 | C1C3 |
| 1181002 | 思想道德修养与法律基础Ideological and Moral Cultivation andLegal Foundation | 2.5 | 40 | 40 |  | 思政部 | 1 | A1A2 | B2B4 | C1C2C3C4 |
| 2181003 | 马克思主义基本原理The Fundermental Principles of Marxism | 2.5 | 40 | 40 |  | 思政部 | 3 | A1 | B3 | C1C4 |
| 3181004 | 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 Theoretical System of Socialism with Chinese Characteristics | 3.5 | 56 | 56 |  | 思政部 | 6 | A1 | B1B2B3 | C1C2C3C4 |
| 2181005 | 形势与政策Current Affairs and Policy | 2.0 | 四年累计参加8次 | 思政部 | 4 | A1A2 | B2 | C1C2C3C4 |
| 英语 | 1191001 | 大学英语ⅠCollege English Ⅰ | 3 | 64 | 32 | 32 | 必修12学分 | 外语系 | 1 | A1A4A5 | B1B3B4 | C1C2C3 |
| 1191002 | 大学英语ⅡCollege EnglishⅡ | 3 | 64 | 32 | 32 | 外语系 | 2 | A1A4A5 | B1B3B4 | C1C2C3 |
| 2191001 | 大学英语ⅢCollege English Ⅲ | 3 | 64 | 32 | 32 | 外语系 | 3 | A1A2A5 | B1B3B5 | C1C3C4 |
| 2191002 | 大学英语ⅣCollege English Ⅳ | 3 | 64 | 32 | 32 | 外语系 | 4 | A1A2A5 | B1B3B5 | C1C3C4 |
| 体育 | 1241001 | 体育ⅠP. E.Ⅰ | 1.0 | 30 | 30 |  | 必修4学分 | 体育部 | 1 | A1A2 | B2B3B4 | C1C2C3C4 |
| 1241002 | 体育ⅡP. E.Ⅱ | 1.0 | 30 | 30 |  | 体育部 | 2 | A1 | B4 | C1C2C3C4 |
| 2241001 | 体育ⅢP. E. Ⅲ | 1.0 | 30 | 30 |  | 体育部 | 3 | A1A2 | B2B4 | C1C2C3C4 |
| 2241002 | 体育IVP. E. IV | 1.0 | 30 | 30 |  | 体育部 | 4 | A1 | B4 | C2C3 |
| 自然科学 | 1151001 | 高等数学（甲）IAdvanced Mathematics（A）I | 5.5 | 88 | 88 | 0 | 必修26学分 | 理学院 | 1 | A3 | B2 | C2C4 |
| 1151002 | 高等数学（甲）IIAdvanced Mathematics（A）II | 5.5 | 88 | 88 | 0 | 理学院 | 2 | A3 | B2 | C2C4 |
| 1151006 | 线性代数ⅡLinear Algebra Ⅱ | 2.5 | 40 | 40 | 0 | 理学院 | 3 | A3 | B2 | C2C4 |
| 1151008 | 概率论与数理统计ⅠProbability and StatisticsⅠ | 4.0 | 64 | 64 | 0 | 理学院 | 4 | A3 | B2 | C2C4 |
| 2153008 | 复变函数Complex Function | 2.0 | 32 | 32 |  | 理学院 | 4 | A3 | B2 | C2C4 |
| 1151101 | 大学物理（甲）College Physics（A） | 5 | 80 | 80 |  | 理学院 | 2 | A3 | B2B3 | C3C4 |
| 2151102 | 大学物理实验（甲）College Physics Experiments (A) | 1.5 | 48 |  | 48 | 理学院 | 3 | A3 | B2B3 | C3C4 |
| 通识类(40.9%) 65.5学分类 | 计算机 | 1091002 | 大学计算机基础（乙）Fundamentals of Computer Sciences（B） | 2.5 | 48 | 32 | 16 | 必修5.5学分 | 信息学院 | 1 | A4 | B1B2B3 | C2C4 |
| 1091004 | 程序设计基础（C） Fundamentals of Programming (C) | 3.0 | 56 | 36 | 20 | 信息学院 | 2 | A4 | B1B2B3 | C2C4 |
| 通识类选修课 | 新生研讨课Freshman seminar | 1.0 | 20 | 20 |  | 专题讲座 | 机电学院 | 1 |  |  |  |
| 科技发展与文明传承Scientific and technological development and civilization inheritance | 选修5学分(含公共艺术类课程1学分) |  |  |  |  |  |
| 文明对话与国际视野Dialogue among civilizations and international vision |  |  |  |  |  |
| 人文素养与人生价值Humanities quality and life value |  |  |  |  |  |
| 自然环境与社会发展Natural environment and social development |  |  |  |  |  |
| 经济管理与社会科学Economic management and social sciences |  |  |  |  |  |
| 学科类（37.8％）60.5学分 | 学科大类基础课 | 1082202 | 工程制图（甲）Mechanical Drawing（A） | 4.0 | 72 | 56 | 16 | 必修22学分 | 机电学院 | 1 | A6A7 | B6 | C7 |
| 1082303 | 电工技术Electrical Technology | 2.5 | 44 | 36 | 8 | 机电学院 | 3 | A6A7 | B6 | C6C7 |
| 1082205 | 理论力学Theoretical Mechanics | 4.0 | 64 | 64 |  | 机电学院 | 2 | A6A7 | B6 | C6C7 |
| 2082208 | 材料力学Mechanics of Materials | 4.0 | 68 | 60 | 8 | 机电学院 | 3 | A6A7 | B6 | C5C6C7 |
| 2082209 | 机械原理Theory of Machines and Mechanisms | 3.5 | 56 | 48 | 8 | 机电学院 | 3 | A6A8 | B8 | C6C7 |
| 2082212 | 机械设计Mechanical Design | 4.0 | 64 | 56 | 8 | 机电学院 | 4 | A6A7 | B6B8 | C6C7 |
| 学科基础课 | 2083308 | 电子技术（甲）Electronic Technology (A) | 4.5 | 80 | 64 | 16 | 必修14.5学分 | 机电学院 | 4 | A6A8 | B6 | C6C7 |
| 2083210 | 机械工程材料Mechanical Engineering Materials | 2.0 | 32 | 26 | 6 | 机电学院 | 3 | A6A7 | B6 | C5C6C7 |
| 2083317 | 自动控制原理Automatic Control Theory | 3.0 | 48 | 40 | 8 | 机电学院 | 5 | A6A8 | B6B7 | C6C7 |
| 3083330 | 机械工程测试技术（甲）Mechanical Engineering Test Technology（A） | 2.5 | 40 | 32 | 8 | 机电学院 | 5 | A6A8 | B6B7 | C5C6C7 |
| 2083109 | 液压与气压技术Hydraulic and Atmospheric Technique | 2.5 | 40 | 36 | 4 | 机电学院 | 5 | A8 | B7 | C6C7 |
| 1083206 | 计算机绘图Computer Aided Drawing | 1.0 | 32 |  | 32 | 选修15学分（32） | 机电学院 | 4 | A6A7 | B6 | C6C7 |
| 2083342 | 单片机原理与接口技术（甲）Principle and Interface Technology of Single Chip Microcomputer(A) | 3.0 | 56 | 40 | 16 | 机电学院 | 4 | A6A8 | B6 | C5C6C7 |
| 3083332 | 电机及拖动基础Fundamentals of Electric Machinery and Drives | 3.5 | 64 | 48 | 16 | 机电学院 | 5 | A6A8 | B6 | C5C7 |
| 学科类（37.8％）60.5学分 | 学科基础课 | 3083333 | 电气控制与PLCElectrical Control and Programmable Logic Controller | 2.5 | 48 | 32 | 16 | 选修15学分（32） | 机电学院 | 6 | A6A8 | B6B7 | C6C7 |
| 2082241 | 机械制造基础（甲）Fundamentals of Mechanical Manufacturing（A） | 2.5 | 40 | 40 |  | 机电学院 | 5 | A7A9 | B6 | C6C7 |
| 2083307 | MATLAB程序设计MATLAB Programming | 2.0 | 40 | 24 | 16 | 机电学院 | 5 | A6 | B8 | C7 |
| 2083365 | 科研基本方法Basic Methods on Scientific Research | 1.0 | 16 | 16 |  | 机电学院 | 5 | A9 | B6B9 | C6C7C8 |
| 3083340 | DSP控制器原理及应用Principles and Application of DSP Controller | 2.5 | 40 | 32 | 8 | 机电学院 | 6 | A8 | B6 | C5C6C7 |
| 3083341 | 现代控制理论Modern Control Theories | 2.5 | 40 | 32 | 8 | 机电学院 | 6 | A8A9 | B6 | C7 |
| 3083352 | 嵌入式系统设计Embedded System Design | 2.5 | 40 | 30 | 10 | 机电学院 | 6 | A8 | B6 | C6C7 |
| 3084327 | 有限元分析Finite Element Analysis | 1.5 | 40 | 8 | 32 | 机电学院 | 6 | A7 | B8 | C5C6C7 |
| 3083218 | 机械CAD技术基础CAD for Mechanics | 2.0 | 40 | 24 | 16 | 机电学院 | 7 | A7 | B8 | C5C6C7 |
| 3083225 | 三维实体造型设计基础3D Solid Design | 1.0 | 32 |  | 32 | 机电学院 | 7 | A7A9 | B8 | C5C6C7 |
| 3083226 | 数控技术Numerical Control Technology | 2.0 | 34 | 28 | 6 | 机电学院 | 7 | A7A9 | B8 | C6C7 |
| 4083327 | EDA技术（乙）EDA Technology（B） | 1.0 | 32 | 0 | 32 | 机电学院 | 7 | A8 | B8 | C6C7 |
| 专业课 | 3084151 | 机电一体化系统设计Mechatronic System Design | 2.0 | 32 | 32 |  | 选修9学分（14.5） | 机电学院 | 6 | A8A9 | B6 | C5C6C7 |
| 4084150 | 故障检测与余度技术Fault Diagnosis and Redundance Technology | 2.5 | 40 | 40 |  | 机电学院 | 7 | A8 | B7 | C5C6 |
| 4084354 | 机电系统计算机控制Computer Control of Electro-Mechanical System | 2.5 | 48 | 32 | 16 | 机电学院 | 7 | A8A9 | B6 | C6C7 |
| 4084361 | 机器人技术Robot Technology | 2.5 | 40 | 32 | 8 | 机电学院 | 7 | A8A9 | B6 | C7 |
| 3084345 | 虚拟仪器技术Virtual Instrument | 2.0 | 32 | 24 | 8 | 机电学院 | 6 | A7 | B8 | C6C7 |
| 4084359 | 3S技术及应用 | 1.5 | 24 | 24 |  | 机电学院 | 7 |  |  |  |
| 3084347 | 电力电子技术Power Electronics | 3.0 | 48 | 40 | 8 | 机电学院 | 6 | A8 | B7 | C6C7 |
| 综合实践(21.3%) 34学分 | 综合实践 | 1305101 | 军训（含国防教育）Military training (including national defense education) | 2.0 | 3周 |  |  | 必修 | 人武部 | 1 | A1 | B3 | C1C3 |
| 1305201 | 劳动Physical Work |  | 4周 |  |  | 必修 |  |  | A1 | B3 | C1C3 |
| 1305301 | 社会实践Social practice |  |  |  |  | 必修 |  |  |  |  |  |
| 1185007 | 思想政治理论课实践Practice of Ideological and Political Theory | 4.0 |  |  |  | 必修 | 思政部 | 2 | A1A2A5 | B1B2B3B4 | C1C2C3C4 |
| 综合实践(21.3%) 34学分 | 综合实践 | 1085001 | 工程训练（甲）Engineering Training(B) | 2.0 | 4周 |  |  | 必修 | 机电学院 | 2 | A1A4A5 | B1B2B3B4 | C1C2C3C4 |
| 2085312 | 电子工艺实习（乙）Electronic Technical Practice（B） | 1.0 | 1周 |  |  | 必修 | 机电学院 | 3 | A6 | B6B8B9 | C5C6C7 |
| 2085216 | 机械原理课程设计Course Design of Mechanisms and Machine Theory | 1.0 | 1周 |  |  | 必修 | 机电学院 | 3 | A7 | B6B9 | C5C6C7C8 |
| 2085240 | 机械设计基础课程设计Course Design of Mechanical Design | 2.0 | 2周 |  |  | 必修 | 机电学院 | 4 | A7 | B6B9 | C5C6C7C8 |
| 2085321 | 电子技术课程设计Course Design of Electronic Technology | 2.0 | 2周 |  |  | 必修 | 机电学院 | 4 | A8 | B6B9 | C5C6C7C8 |
| 3085350 | 控制技术课程设计Course Design of Control Technology | 2.0 | 2周 |  |  | 必修 | 机电学院 | 6 | A8 | B6B8B9 | C5C6C7C8 |
| 3085336 | 机电一体化综合训练Mechatronics Integrative Training | 3.0 | 3周 |  |  | 必修 | 机电学院 | 5 | A8 | B6B9 | C5C6C7C8 |
| 3085351 | 机电系统设计Design on Mechatronic systems | 3.0 | 3周 |  |  | 必修 | 机电学院 | 6 | A8A9 | B7B9 | C5C6C7C8 |
| 4085364 | 生产实习Engineering Internship | 2.0 | 2周 |  |  | 必修 | 机电学院 | 7 | A7A8 | B6B9 | C5C6C7C8 |
| 4305001 | 毕业论文(设计)Graduate Thesis (Design) | 10.0 | 16周 |  |  | 必修 | 机电学院 | 8 | A6A7A8 | B6B7B8B9 | C5C6C7C8 |
| 素质与能力拓展学分 | 8.0 |  |  |  | 必修 |  |  |  |  |  |
| 备注:标●号为全英文课程；标※号为双语课程。 |