**Faculty of Electrical Engineering** 电气工程学院

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| **Bachelor of Engineering (Electrical - Mechatronics) - SEEM**  工程**(**电气**-**机电一体化**)**荣誉学士学位 | | | | | |
| **Year 1第⼀学年** | | | | | |
| **YEAR 1: SEMESTER 1** 第一学期 | | | **YEAR 1: SEMESTER 2** 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit**  学分 | **Code 代码** | **Course Name 课程名字** | **Credit**  学分 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| SEEE 1012 | Introduction to Electrical Engineering 电气工程概论 | 2 | SEEE 1073 | Electronic Devices and Circuits  电子器件和电路 | 3 |
| SEEE 1013 | Electrical Circuit Analysis  电路分析 | 3 | SEEE 1223 | Digital Electronics  数码电子 | 3 |
| SECP 1103 | C Programming Techniques  C编程技术 | 3 | SEEM 1113 | Engineering Mechanics  工程力学 | 3 |
| UHLB 1112 | English Communication Skills  英语沟通技巧 | 3 | SEEM 1502 | Computer Aided Engineering Drawing 计算机辅助工程制图 | 2 |
| ULRS 1022 OR  UHMS 1182 | Philosophy and Current Issues  哲学与当前问题  Ethical and Civilisational Appreciation 伦理与文明 | 2 | UHIS 1022 | Appreciation of Ethics and Civilizations (Local Students)（本地学生课程） | 2 |
| UHLM 1012 | Malay Language for Communication 2 (International Students)马来语交流 2 |

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| **Year 2 第⼆学年** | | | | | |
| YEAR 2: SEMESTER 1 第一学期 | | | YEAR 2: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 | SSCE 2193 | Engineering Statistics  工程数据 | 3 |
| SEEE 1022 | Introduction to Scientific Programming 科学程序设计概论 | 2 | SEEE 2133 | Eletronic Instrumentation & Measurement  电子仪器与测量 | 3 |
| SEEE 2073 | Signals and Systems  信号与系统 | 3 | SEEE 2263 | Digital Systems  数字系统 | 3 |
| SEEE 2423 | Fundamentals of Electrical Power  Systems 电力基础知识系统 | 3 | SEEM 3123 | Hydraulic and Pneumatic Systems 液压和气动系统 | 3 |
| UHLB 2122 | Academic Communication Skills  学术沟通技巧 | 2 | SEEE 2742 | 2nd Year Electronic Design Lab  二年级电子设计实验 | 2 |
| UKQF 2\*\*2 | Elective of CoCurriculum Service  Learning 共同课程服务选修课学习 | 2 | UBSS 1032 | Introduction To Entrepreneuship本地生 创业简介 | 2 |
| UHMT 1012 | Graduate Success Attributes  毕业生的成功特质 | 2 |  |  |  |

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| **Year 3 第三学年** | | | | | |
| YEAR 3: SEMESTER 1 第一学期 | | | YEAR 3: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SSCE 2393 | Numerical Methods  数值方法 | 3 | SEEE 3143 | Control System Design  控制系统设计 | 3 |
| SEEE 3133 | System Modeling & Analysis  系统建模与分析 | 3 | SEEE 3263 | Electronic Systems  电子系统 | 3 |
| SEEE 3223 | Microprocessor  微处理器 | 3 | SEEM 3133 | Electrical Motors and Drives  电机及驱动器 | 3 |
| SEEE 3533 | Communication Principles  沟通的原则 | 3 | SEEM 4333 | Mechatronics System Design  机电一体化系统设计 | 3 |
| SEEE 3732 | Common 3rd Year Laboratory  三年级实验 | 2 | SEEM 3742 | Specialized 3rd Year Laboratory  专业三年级实验 | 2 |
| SEEE 2523 | Electromagnetic Field Theory  电磁场理论 | 3 | UHLB 3132 | Professional Communication Skills 2 专业沟通技巧 2 | 2 |

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|  |  | 2 | UKQT 3001 | Extracurricular Experiential Learning (ExCEL)课外体验式学习 | 1 |
| **Year 3 第三学年** | | | | | |
| YEAR 3: SEMESTER 3 第三学期 | | | | | |
| **Code 代码** | **Course Name 课程名字** | | | | **Credit**  学分 |
| SEEE 4926 | Practical Training 实习 | | | | 6 |

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| **Year 4 第四学年** | | | | | |
| YEAR 4: SEMESTER 1 第一学期 | | | YEAR 4: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SEEM 4723 | Capstone Project  巅峰项目 | 3 | SEEM 4824 | Final Year Project Part II  本科生项目 II | 4 |
| SEEM 4812 | Final Year Project Part I  本科生项目 I | 2 | SEEE 4012 | Professional Engineering Practice 专业工程实践 | 2 |
| SEEM 4143 | Robotics  机器人 | 3 | SEE\* 4\*\*3 | Field Elective 2  专业选修 2 | 3 |
| SEEL 4223 | Digital Signal Processing I  数字信号处理 I | 3 | SEE\* 4\*\*3 | Field Elective 3  专业选修 3 | 3 |
| SEE\* 4\*\*3 | Field Elective 1 / PRISMS Elective 1 专业选修 1 / PRISMS 选修 1 | 3 | UHIT 2302 | Science and Technology Thinking 科学与技术思维 | 2 |
| SHMS 4542 | Engineering Management  工程管理 | 2 | UHL\*1112 | Electives of Foreign Language  外语选修 | 2 |

**Faculty of Electrical Engineering**

电气工程学院

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| **Bachelor of Engineering (Electrical) With Honours (SEE)**  工程(电气)荣誉学士学位 | | | | | |
| **Year 1第⼀学年** | | | | | |
| **YEAR 1: SEMESTER 1** 第一学期 | | | **YEAR 1: SEMESTER 2** 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit**  学分 | **Code 代码** | **Course Name 课程名字** | **Credit**  学分 |
| SEEE 1012 | Introduction to Electrical Engineering | 2 | SEEE 1022 | Introduction to Scientific Programming | 2 |
| SEEE 1013 | Electrical Circuit Analysis | 3 | SEEE 1073 | Electronic Devices and Circuits | 3 |
| SECP 1103 | C Programming Techniques | 3 | SEEE 1223 | Digital Electronics | 3 |
| SSCE 1693 | Engineering Mathematics I | 3 | SEMU 2113 | Engineering Science | 3 |
| UHLB 1112 | English Communication Skills | 2 | SSCE 1793 | Differential Equations | 3 |
| UHIS 1022/ UHMS1182 | Philosophy and Current Issues  哲学与当前问题  Ethical and Civilisational Appreciation 伦理与文明 | 2 | UHLM 1012 | Malay Language for Communication 2 | 2 |

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| **Year 2 第⼆学年** | | | | | |
| YEAR 2: SEMESTER 1 第一学期 | | | YEAR 2: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SEEE 2073 | Signals and Systems | 3 | SEEE 2263 | Digital Systems | 3 |
| SEEE 2133 | Electronic Instrumentation and Measurement | 3 | SEEE 2523 | Electromagnetic Field Theory | 3 |
| SEEE 2423 | Fundamentals of Electrical Power Systems | 3 | SEEE2742 | 2nd Year Electronic Design Laboratory | 2 |
| SSCE 1993 | Engineering Mathematics II | 3 | SSCE 2193 | Engineering Statistics | 3 |
| UHMT1012 | Graduate Success Attribute | 2 | UBSS 1032 | Introduction to Entrepreneurship | 2 |
| UHLB 2122 | Academic Communication Skills | 2 | UHLB 3132 | Professional Communication Skills | 2 |
|  |  |  | UKQF 2\*\*2 | Elective of Co-Curricular Service Learning | 2 |

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| **Year 3 第三学年** | | | | | |
| YEAR 3: SEMESTER 1 第一学期 | | | YEAR 3: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SEEE 3133 | System Modeling and Analysis | 3 | SEEE 3143 | Control System Design |  |
| SEEE 3223 | Microprocessor | 3 | SEEE 3742 | Specialized 3rd Year Laboratory |  |
| SEEE 3533 | Communication Principles | 3 | SEEE 4423 | Power System Engineering |  |
| SEEE 3732 | Common 3rd Year Laboratory | 2 | SEEE 4433 | Power Electronics and Drives |  |
| SEEE 4443 | Power System Analysis | 3 | SEEE4463 | High Voltage Technology |  |
| SSCE2393 | Numerical Methods | 3 | UHL\*1112 | Elective of Foreign Language |  |
|  |  |  | UKQT 3001 | Extracurricular Experiential Learning (ExCEL) |  |

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| **Year 3 第三学年** | | |
| YEAR 3: SEMESTER 3 第三学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit**  学分 |
| SEBB4915 | Industrial Training ( HW ) 实习 | 5 |

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| **Year 4 第四学年** | | | | | |
| YEAR 4: SEMESTER 1 第一学期 | | | YEAR 4: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SHMS 4542 | Engineering Management | 2 | SEEE 4012 | Professional Engineering Practice | 2 |
| SEEE 4723 | Capstone Project | 3 | SEEL 4824 | Final Year Project Part II | 4 |
| SEEE4812 | Final Year Project Part 1 | 2 | SEE\* \*\*\*3 | Field Elective 4 | 3 |
| SEE\* 4\*\*3 | Field Elective 1 | 3 | SEE\* \*\*\*3 | Field Elective 5 | 3 |
| SEE\* 4\*\*3 | Field Elective 2 | 3 | SEE\* \*\*\*3 | Field Elective 6 | 3 |
| SEE\* \*\*\*3 | Field Elctive 3 | 3 | UHIT 2302 | Science and Technology Thinking | 2 |

**Faculty of Electrical Engineering**

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| **BACHELOR OF ELECTRONIC ENGINEERING WITH HONOURS (SEEL)** 电子工程荣誉学士学位 | | | | | |
| **Year 1第⼀学年** | | | | | |
| **YEAR 1: SEMESTER 1** 第一学期 | | | **YEAR 1: SEMESTER 2** 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit**  学分 | **Code 代码** | **Course Name 课程名字** | **Credit**  学分 |
| SEEE 1012 | Introduction to Electrical Engineering 电气工程概论 | 2 | SECP 1103 | C Programming Techniques  C编程技术 | 3 |
| SEEE 1013 | Electrical Circuit Analysis 电路分析 | 3 | SEEE 1073 | Electronic Devices and Circuits  电子器件和电路 | 3 |
| SEEE 1022 | Introduction to Scientific Programming 科学程序设计概论 | 2 | SEEE 1223 | Digital Electronics  数字电子 | 3 |
| SSCE 1693 | Engineering Mathematics 1  工程数学 1 | 2 | SEMU 2113 | Engineering Science  工程科学 | 3 |
| UHLB 1112 | English Communication Skills  英语沟通技巧 | 2 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| ULRS 1012 | Graduate Success Attributes  毕业生成功属性份 | 2 | UHLM 1012 | Malay Language for Communication 2 (for International Students)  马来语交流 2 | 2 |
| UHIS 1022/  UHMS 1182 | Philosophy and Current Issues/  Appreciation of Ethics and Civilizations(for International Students)  哲学与时事/道德鉴赏文明(国际生) | 2 |  |  |  |

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| **Year 2 第⼆学年** | | | | | |
| YEAR 2: SEMESTER 1 第一学期 | | | YEAR 2: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SEEE 2073 | Signal and Systems  信号与系统 | 3 | SEEE 2263 | Digital Systems  数字系统 | 3 |
| SEEE 2423 | Fundamentals of Electrical Power Systems 基础电力系统 | 3 | SEEE 2523 | Electromagnetic Field Theory  电磁场理论 | 3 |
| SSCE 1993 | Engineering Mathematics 2  工程数学 2 | 3 | SEEE 2742 | 2nd Year Electronic Design Laboratory 二年级电子设计实验 | 2 |
| UHLB 2122 | Academic Communication Skills 1 学术沟通技巧 1 | 2 | SEEE 3263 | Electronic Systems  电子系统 | 3 |
| UKQF 2\*\*2 | Elective of Co-Curricular  Service Learning  社区服务与学习 | 2 | SSCE 2193 | Engineering Statistics  工程数据 | 3 |
| SEEE2133 | Electronic Instrumentation and Measurement  电子仪器和测量 | 3 | UBSS 1032 | Introduction to Entrepreneurship  创业概论 |  |

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| **Year 3 第三学年** | | | | | |
| YEAR 3: SEMESTER 1 第一学期 | | | YEAR 3: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SEEE 3133 | System Modelling and Analysis  系统建模与分析 | 3 | SEEE 3143 | Control System Design  控制系统设计 | 3 |
| SEEE 3223 | Microprocessor  微处理器 | 3 | SEEL 3742 | Specialized 3rd Year Laboratory  专业三年级实验 | 2 |
| SEEE 3533 | Communication Principles  沟通的原则 | 3 | SEEL 4223 | Digital Signal Processing 1  数字信号处理 1 | 3 |
| SEEE 3732 | Common 3rd Year Laboratory  三年级实验 | 2 | SEE\* \*\*\*3 | Field Core 1  核心领域 1 | 3 |
| SSCE 2393 | Numerical Methods  数值方法 | 3 | SEE\* \*\*\*3 | Field Core 2  核心领域 2 | 3 |
| UHL\* 1112 | Elective of Foreign Language  外语课 | 2 | UHLB 3132 | Professional Communication Skills 2 专业沟通技巧 2 | 2 |

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| UKQT3001 | Extra Curricular Experiential Learning  (ExCEL)  课外体验学习 (ExCEL) | 1 |  |  |  |
| **Year 3 第三学年** | | | | | |
| YEAR 3: SEMESTER 3 第三学期 | | | | | |
| **Code 代码** | **Course Name 课程名字** | | | | **Credit**  学分 |
| SEEL 4926 | Practical Training 实习 | | | | 6 |

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| **Year 4 第四学年** | | | | | |
| YEAR 4: SEMESTER 1 第一学期 | | | YEAR 4: SEMESTER 2 第二学期 | | |
| **Code 代码** | **Course Name 课程名字** | **Credit** 学分 | **Code 代码** | **Course Name 课程名字** | Credit  学分 |
| SHMS 4542 | Engineering Management  工程管理 | 2 | SEEE 4012 | Professional Engineering Practice 专业工程实践 | 2 |
| SEEL 4723 | Capstone Project  巅峰项目 | 3 | SEEL 4824 | Final Year Project Part 2  本科生项目 2 | 4 |
| SEEL 4812 | Final Year Project Part 1  本科生项目 1 | 2 | SEE\* \*\*\*3 | Field Elective 4  专业选修课 4 | 3 |
| SEE\* \*\*\*3 | Field Elective 1  专业选修课 1 | 3 | SEE\* \*\*\*3 | Field Elective 5  专业选修课 5 | 3 |
| SEE\* \*\*\*3 | Field Elective 2  专业选修课 2 | 3 | SEE\* \*\*\*3 | Field Elective 6  专业选修课 6 | 3 |
| SEE\* \*\*\*3 | Field Elective 3  专业选修课 3 | 3 | UHIT 2302 | Science and Technology Thinking | 2 |
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