**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering with Honours**  机械工程荣誉学士学位 | | | | | |
| **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** |
| SEMM 1013 | Programming for Engineers  工程师编程 | 3 | SEMM1113 | Mechanics of Solids I\*  固体力学 I\* | 3 |
| SEMM 1203 | Statics\*静力学\* | 3 | SEMM1213 | Dynamics\* 动力学 | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM1513 | Introduction to Design  设计概论 | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEEU1002 | Electrical Technology  电气技术 | 2 |
| SEMM 1921 | Introduction to Mechanical Engineering  机械工程概论 | 1 | SSCE1793 | Differential Equations  微分方程 | 3 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | SEMM2921 | Laboratory 1  实验1 | 1 |
| UHLB 1122 | English Communication Skills  英语交流技巧 | 2 | ULRS1182 | Appreciation of Ethics and Civilisations 道德与文明鉴赏 | 2 |
| UHIS 1032 | Integrity and Anti-Corruption  廉政与反腐败 | HL | UHLM 1012 | Malay Language for Communication 2  马来语言沟通2 | 2 |

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| **Year 2 第二学年** | | | | | |
| **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** |
| SEMM 2123 | Mechanics of Solids II\*  固体力学 II\* | 3 | SEMM 2323 | Mechanics of Fluids II\*  流体力学 II\* | 3 |
| SEMM 2223 | Mechanics of Machines & Vibration\*  机械与振动力学\* | 3 | SEMM 2423 | Applied Thermodynamics\*  应用热力学\* | 3 |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2613 | Materials Science  材料科学 | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | UHLB 2122 | Professional Communication Skills 1  专业沟通技术 1 | 2 |
| UHLX 1112 | Foreign Language Elective  外语选修 | 2 | SEEU 2012 | Electronics  电子学 | 2 |
| ULRF 2xx2 | Global Citizen Elective  全球公民选修课 | 2 | SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 |
|  |  |  | ULRS 1022 | Philosophy and Current Issues  哲学与当前问题 | 2 |
|  |  |  | UHLM 1012 | Malay Language for Communication 2  马来语言沟通2 | 2 |

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| **Year 3 第三学年** | | | | | | | |
| **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** |
| SEMM 2713 | Manufacturing Processes  制造工艺 | | 3 | SEMM 3033 | Finite Element Methods  有限元方法 | | 3 |
| SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 | SEMM 3253 | Mechatronics  机电一体化 | | 3 |
| SEMM 3233 | Control Engineering  控制工程 | | 3 | SEMM 3443 | Heat Transfer  传热学 | | 3 |
| SEMM 3242 | Instrumentation  仪器仪表 | | 2 | SEMM 3523 | Component Design  部件设计 | | 3 |
| SEMM 3931 | Laboratory II  实验室 II | | 1 | SEMM 3813 | Industrial Engineering  工业工程 | | 3 |
| SSCE 2193 | Engineering Statistics  工程统计学 | | 3 | SEMM 3941 | Laboratory III  实验室 III | | 1 |
| UHLB 3132 | Professional Communication Skills 2 专业沟通技术 2 | | 2 | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | | 2 |
| **Year 3：SHORT SEMESTER 短学期** | | | | | | | |
| **Code 代码** | | **Course Name 课程名字** | | | | **Credit 学分** | |
| SHPA3113 | | Industrial Training **实习** | | | | 3(HL) | |

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| **Year 4 第四学年** | | | | | |
| **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** |
| SEMM 3823 | Engineering Management, Safety and Economics  工程管理、安全和经济 | 3 | SEMM 4902 | Engineering Professional Practice  工程专业实践 | 2 |
| SEMM 4533 | System Design  系统设计 | 3 | SEMM 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMM 4912 | Undergraduate Project I  本科生项目 I | 2 | SEMX 4xx3 | Elective III  选修课 III | 3 |
| SEMX 4xx3 | Elective I  选修课 I | 3 | SEMX 5xx3 | PRISMS Elective III  PRISMS 选修课 III | 3 |
| SEMX 5xx3 | PRISMS Elective 1  PRISMS 选修课 1 | 3 | SEMX 4xx3 | Elective IV  选修课 IV | 3 |
| SEMX 4xx3 | Elective II  选修课 II | 3 | SEMX 5xx3 | PRISMS Elective IV P  RISMS 选修课 IV | 3 |
| SEMX 5xx3 | PRISMS Elective II  PRISMS 选修课 II |  | SXXX xxx3 | Free Elective  外语选修课 | 3 |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering (Materials) with Honours**  机械工程**(**材料**)**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** |
| SEMM 1203 | Static\*  静态\* | 3 | SEMM 1013 | Programming for Engineers  工程师编程 | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM 1113 | Mechanics of Solid I\*  固体力学 I\* | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEMM 1213 | Dynamics\*  动力学 | 3 |
| SEMM 1921 | Introduction to Mechanical Engineering  机械工程概论 | 1 | SEMM 1513 | Introduction to Design  设计概论 | 3 |
| SSCE 1693 | Engineering Mathematics 1  工程数学 1 | 3 | UHLM 1012 | Malay Language for communication 2 马来语交流 2 | 2 |
| SEEU 1002 | Electrical Technology  电气技术 | 2 | UHMT 1012 | Graduate Success Attributes  毕业生成功特质 | 2 |
| UHLB 1112 | English Communication Skills  英语交流技巧 | 2 | UKQF 2xx2 | Co-curriculum and Service-Learning Elective  联合选修课服务学习 | 2 |
| UHIS 1022  OR  UHMS1182 | Philosophy and Current Issues OR Appreciation Ethics and Civilizations  哲学与时事 或 道德与文明 | 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** |
| SEMM 2123 | Mechanics of Solids II\*  固体力学 II\* | 3 | SEMM 2223 | Mechanics of Machines and Vibration\* 机械和振动力学\* | 3 |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2323 | Mechanics of Fluids II\*  流体力学 II\* | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | SEMM 2433 | Applied Thermodynamic and Heat Transfer\* 应用热力学和传热学\* | 3 |
| SEMM 2921 | Laboratory I  实验室 I | 1 | SEMM 2613 | Materials Science  材料科学 | 3 |
| SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 | SEMM 2713 | Manufacturing Process  制造工艺 | 3 |
| UHLB 2122 | Academic Communication Skills  学术交流技能 | 2 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| UHIT 2302 | Thinking of Science and Technology 科技思维 | 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** |
| SEMB 3613 | Physical Metallurgy  物理冶金学 | | 3 | SEMB 3623 | Mechanical Properties of Materials 材料力学性能 | | 3 |
| SEMM 3233 | Control Engineering  控制工程 | | 3 | SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 |
| SEMM 3523 | Component Design  部件设计 | | 3 | SEMM 3242 | Instrumentation  仪器仪表 | | 2 |
| SEMM 3813 | Industrial Engineering  工业工程 | | 3 | SEMM 3823 | Engineering Management,Safety and Economics  工程管理、安全和经济 | | 3 |
| SEMM 3931 | Laboratory II  实验室 II | | 1 | SEMM 3941 | Laboratory III  实验室 III | | 1 |
| SEEU 2012 | Electronic  电子学 | | 2 | SSCE 2193 | Engineering Statistics  工程统计学 | | 3 |
| UBSS 1032 | Introduction to Entrepreneurship  创业学概论 | | 2 | UHLB 3132 | Professional Communication Skills 专业交流技巧 | | 2 |
| YEAR 3: SEMESTER 3 第三学期 | | | | | | | |
| **Code 代码** | | **Course Name 课程名字** | | | | **Credit 学分** | |
| SEMM 3915 | | Industrial Training 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** |
| SEMB 4613 | Materials Characterization  材料表征 | 3 | SEMB 4633 | Materials Selection in Mechanical Design 机械设计中的材料选择 | 3 |
| SEMB 4623 | Corrosion and Corrosion Control  腐蚀与腐蚀控制 | 3 | SEMB 46x3 | Elective II 选修课 II | 3 |
| SEMB 46x3 | Elective I 选修课 I | 3 | SEMB 5xx3 | PRISMS Elective II PRISMS选修课 II |
| SEMB 5xx3 | PRISMS Elective I PRISMS选修课 I |  | SEMM 4902 | Engineering Professional Practice 工程专业实践 | 2 |
| SEMM 4533 | System Design 系统设计 | 3 | SEMM 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMM 4912 | Undergraduate Project I  本科生项目 I | 2 | UHLX 1112 | Foreign Language Elective  外语选修课 | 2 |
| UXXX 2xx2 | Generic Skills or Knowledge Expansion Cluster Elective  选修课通用技能或知识拓展 | 2 | UKQT 3001 | Extra-Curricular Experiential Learning (ExCEL) 课外体验学习 | 1 |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering (Industrial) with Honours**  机械工程**(**工业**)**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** |
| SEMM 1013 | Programming for Engineers  工程师编程 | 3 | SEMM 1113 | Mechanics of Solids I\*  固体力学 I\* | 3 |
| SEMM 1203 | Static\* 静态\* | 3 | SEMM 1213 | Dynamics\*  动力学\* | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM 1513 | Introduction to Design  设计概论 | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEEU 1002 | Electrical Technology  电气技术 | 2 |
| SEMM 1921 | Introduction to Mechanical Engineering 机械工程概论 | 1 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | ULRS 1182 | Appreciation of Ethics and Civilisations 道德与文明鉴赏 | 2 |
| ULRS 1032 | Integrity and Anti-Corruption  廉政与反腐败 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 2 |
| UHLB 1112 | English Communication Skills  英语沟通技巧 | HL |  | | |

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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** |
| SEMM 2123 | Mechanics of Solids II\*  固体力学 II\* | 3 | SEMM 2323 | Mechanics of Fluids II\*  流体力学 II\* | 3 |
| SEMM 2223 | Mechanics of Machines and Vibration\* 机械和振动力学\* | 3 | SEMM 2433 | Applied Thermodynamics and Heat Transfer\* 应用热力学和传热学\* | 3 |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2613 | Materials Science材料科学 | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | UHLB 2122 | Professional Communication Skills 1 专业沟通技巧 1 | 2 |
| SEMM 2713 | Manufacturing processes  制作工艺 | 2 | SEEU 2012 | Electronics  电子学 | 2 |
| ULRF 2xx2 | Global Citizen Elective  全球人民选修 | 2 | SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 |
|  |  |  | ULRS 1022 | Philosophy and Current Issues  哲学与当前问题 | 2 |
|  |  |  | UHLM 1012 | Malay Language for Communication 2 马来语言沟通 2 | 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** |
| SEMI 3833 | Production Planning and Control  生产计划和管控 | | 3 | SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 |
| SEMM 3233 | Control Engineering  控制工程 | | 3 | SEMM 3242 | Instrumentation  仪器仪表 | | 2 |
| SEMM 3931 | Laboratory II  实验室 II | | 1 | SEMM 3523 | Component Design  部件设计 | | 3 |
| SEMI 3813 | Work Design and Productivity  工作设计和生产率 | | 3 | SEMM 3941 | Laboratory III  实验室 III | | 1 |
| SEMI 3823 | Quality System  质量体系 | | 3 | SEMM 4902 | Engineering Professional Practice 工程专业练习 | | 2 |
| UHLB 3132 | Professional Communication Skills 2 专业沟通技巧2 | | 2 | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | | 2 |
| UHLX 1112 | Foreign Language Elective  外语选修 | | 2 | SSCE 2193 | Engineering Statistics  工程统计 | | 3 |
| **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 | |
| SEMM 3915 | | Industrial Training 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** |
| SEMM 4533 | System Design (capstone)  系统设计（毕业设计） | 3 | SEMI 3843 | Engineering Economy and Accounting  工程经济与会计 | | 3 |
| SEMM 4912 | Undergraduate Project I  本科生项目 I | 2 | SEMM 4924 | Undergraduate Project II  本科生项目 II | | 4 |
| SEMI 4813 | Industrial System Simulation  工业系统仿真 | 3 | SEMI 4833 | Safety and Engineering Management 安全与工程管理 | | 3 |
| SEMI 4823 | Operations Research  运筹学 | 3 | SEMI 4843 | Facility Design  设施设计 | | 3 |
| SXXX xxx3 | Free Elective  自由选修 | 3 |  |  | |  |
| SEMI 5xx3 | PRISMS Elective  PRISMS选修课 |  |  | |  |
| UXXX 2xx2 | Generic Skills or Knowledge Expansion Cluster Elective  选修课通用技能或知识拓展 | 2 |  |  |  | |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | | |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering (Manufacturing) with Honours** 机械工程**(**制造**)**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** |
| SEMM 1013 | Programming for Engineers  工程师编程 | 3 | SEMM 1113 | Mechanics of Solid I\*  固体力学 I\* | 3 |
| SEMM 1203 | Statics\*  静力\* | 3 | SEMM 1213 | Dynamics\*  动力学\* | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM 1513 | Introduction to Design  设计概论 | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEEU 1002 | Electrical Technology  电气技术 | 2 |
| SEMM 1921 | Introduction to Mechanical Engineering 机械工程导论 | 1 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| SSCE 1693 | Engineering Mathematics 1  工程数学 1 | 3 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 2 |
| UHLB 1112 | English Communication Skills  英语交流技巧 | HL | ULRS 1182 | Appreciation of Ethics and Civilisations 道德与文明鉴赏 | 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** |
| SEMM 2123 | | Mechanics of Solid II\*  固体力学 II\* | 3 | SEMM 2323 | Mechanics of Fluid II  流体力学 II | 3 |
| SEMM 2223 | | Mechanics of Machines and Vibration\* 机械和振动学\* | 3 | SEMM 2433 | Applied Thermodynamics & Heat Transfer 应用热学与传热学 | 3 |
| SEMM 2313 | | Mechanics of Fluid I\*  流体力学 I\* | 3 | SEMM 2613 | Materials Science  材料科学 | 3 |
| SEMM 2413 | | Thermodynamics\*  热力学\* | 3 | SEEU 2012 | Electronics  电子学 | 3 |
| UHLX 1112 | | Foreign Language Elective  外语选修 | 2 | UHLB 2122 | Professional Communication Skills 1 专业沟通技巧 | 1 |
| ULRF 2xx2 | | Global Citizen Elective  全球公民选修课 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语言沟通 | 2 |
|  | |  |  | SSCE 1993 | Engineering Mathematics II工程数学 II | 3 |
|  | |  |  | ULRS 1022 | Philosophy and Current Issues  哲学与当前问题 | 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** |
| SEMM 3233 | | Control Engineering  控制工程 | | 3 | SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 |
| SEMM 3623 | | Materials Engineering  材料工程 | | 3 | SEMM 3242 | Instrumentation  仪器仪表 | | 2 |
| SEMM 3813 | | Industrial Engineering  工业工程 | | 3 | SEMM 3523 | Component Design  部件设计 | | 3 |
| SEMM 3931 | | Laboratory II 实验室 II | | 1 | SEMM 2713 | Manufacturing Processes  制造工艺 | | 3 |
| SEMP 3713 | | CAD/CAM | | 3 | SEMM 3941 | Laboratory III 实验室 III | | 1 |
| UHLB 3132 | | Professional Communication Skills 2 专业沟通技巧2 | | 2 | SSCE 2193 | Engineering Statistic  工程统计 | | 3 |
| SXXX xxx3 | | Free Elective  自由选修 | | 3 | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | | 2 |
| **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 | |
| SEMM 3915 | | | Industrial Training 实习 | | | | 5 | |

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| **Year 4 第四学年** | | | | | | |
| **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** |
| SEMM 4533 | | System Design  系统设计 | 3 | SEMM 4902 | Engineering Professional Practice  工程专业实践 | 2 |
| SEMM 4912 | | Undergraduate Project I  本科生项目 I | 2 | SEMM 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMP 4713 | | Design for Manufacture and Assembly  制造和装配设计 | 3 | SEMP 4733 | Tooling for Production  生产工具 | 3 |
| SEMP 4723 | | Manufacturing Automation  制造自动化 | 3 | SEMP 47x3 | Elective 2  选修课 2 | 3 |
| SEMP 47x3 | | Elective I  选修课 I | 3 | SEMP 5xx3 | PRISMS Elective 2  PRISMS选修课 2 |  |
| SEMP 5xx3 | | PRISMS Elective I  PRISMS选修课 I |  | SEMM 3823 | Engineering Management, Safety & Economy  工程管理、安全与经济 | 3 |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | | |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering (Aeronautics) with Honours**  机械工程**(**航空**)**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** |
| SEMM 1203 | Static\* 静态\* | 3 | SEMM 1013 | Programming for Engineers  工程师编程 | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM 1113 | Mechanics of Solids I\*  固体力学 I\* | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEMM 1213 | Dynamics\* 动力学\* | 3 |
| SEMM 1921 | Introduction to Mechanical Engineering 机械工程概论 | 1 | SEMM 1513 | Introduction to Design  设计概论 | 3 |
| SEEU 1002 | Electrical Technology  电气技术 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 2 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | ULRS 1182 | Appreciation of Ethics and Civilisations 道德与文明鉴赏 | 2 |
| ULRS 1032 | Integrity and Anti-Corruption  廉政与反腐败 | 2 | SSCE 1793 | Differential Equations  道德与文明鉴赏 | 3 |
| UHLB 1112 | English Communication Skills  英语交流技巧 | HL |  |  |  |

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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** |
| SEMM 2123 | Mechanics of Solids II\*  固体力学 II\* | 3 | SEMM 2223 | Mechanics of Machines & Vibration\* 机械力学与振动\* | 3 |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2323 | Mechanics of Fluids II\*  流体力学 II\* | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | SEMM 2433 | Applied Thermodynamics and Heat Transfer\*  应用热力学和传热学 | 3 |
| SEMM 2921 | Laboratory I  实验室 I | 1 | SEMM 2613 | Materials Science  材料科学 | 3 |
| SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 | SEEU 2012 | Electronics  电子学 | 2 |
| UHLX 1112 | Foreign Language Elective  外语选修 | 2 | UHLB 2122 | Professional Communication Skills 1 专业沟通技巧 1 | 2 |
| ULRF 2xx2 | Global Citizen Elective  全球公民选修课 | 2 | ULRS 1022 | Philosophy and Current Issues  哲学与当前问题 | 2 |
|  |  |  | UHLM 1012 | Malay Language for Communication 2 马来语言沟通 | 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** |
| SEMM 2713 | Manufacturing Processes  制造工艺 | | 3 | SEMM 3033 | Finite Element Methods  有限元方法 | | 3 |
| SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 | SEMM 3941 | Laboratory III 实验室 III | | 1 |
| SEMM 3233 | Control Engineering  控制工程 | | 3 | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | | 2 |
| SEMT 3132 | Aircraft Structure I  飞机结构 I | | 2 | SEMT 3212 | Flight Mechanics  飞行力学 | | 2 |
| SEMM 3931 | Laboratory II 实验室 II | | 1 | SEMT 3423 | Aircraft Propulsion System  飞机推进系统 | | 3 |
| SEMT 3333 | Aerodynamics 空气动力学 | | 3 | SEMT 3822 | Aviation Management  航空管理 | | 2 |
| UHLB 3132 | Professional Communication Skills 2 专业沟通技巧2 | | 2 | SSCE 2193 | Engineering Statistics  工程统计 | | 2 |
|  | | | | UHLB 3132 | Professional Communication Skills 专业交流技巧 | | 2 |
| **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 | |
| SEMM 3915 | | | Industrial Training 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** |
| SEMM 4912 | Undergraduate Project I  本科生项目 I | 2 | SEMM 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMM 3622 | Material Technology  材料技术 | 2 | SEMM 4902 | Engineering Professional Practice 工程专业实践 | 2 |
| SEMT 4223 | Flight Dynamics & Control  飞行动力学与控制 | 3 | SEMT 4523 | Aircraft Design II  飞机设计 II | 3 |
| SEMT 4513 | Aircraft Design I  飞机设计 I | 3 | SEMT 4813 | Aviation Economy  航空经济 | 3 |
| SEMT 4143 | Aircraft Structure II  飞机结构 II | 3 | SEMT 4253 | Aircraft Instrumentation and Avionics 飞机仪表和航空电子设备 | 3 |
| SXXX xxx3 | Free Elective  自由选修 | 3 |  |  |  |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Mechanical Engineering (Automotive) with Honours**  机械工程**(**汽车**)**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** |
| SEMM 1203 | Static\*  静态\* | 3 | SEMM 1013 | Programming for Engineers  工程师编程 | 3 |
| SEMM 1503 | Engineering Drawing  工程制图 | 3 | SEMM 1113 | Mechanics of Solids I\*  固体力学 I\* | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEMM 1213 | Dynamics\*  动力学\* | 3 |
| SEMM 1921 | Introduction to Mechanical Engineering 机械工程概论 | 1 | SEMM 1513 | Introduction to Design  设计概论 | 3 |
| SEEU1002 | Electrical Technology  电气技术 | 2 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | ULRS 1182 | Appreciation of Ethics and Civilisations 道德与文明鉴赏 | 2 |
| UHLB 1112 | English Communication Skills  英语交流技巧 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 2 |
| ULRS 1032 | Integrity and Anti-Corruption  廉政与反腐败 | 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** |
| SEMM 2123 | Mechanics of Solids II\*  固体力学 II\* | 3 | SEMM 2223 | Mechanics of Machines & Vibration\*机械 力学与振动\* | 3 |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2323 | Mechanics of Fluids II\*  流体力学 II\* | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | SEMM 2433 | Applied Thermodynamics and Heat Transfer\* 应用热力学和传热学 | 3 |
| SEMM 2921 | Laboratory I  实验室 I | 1 | SEEU 2012 | Electronics  电子产品 | 2 |
| SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 | UHLB 2122 | Professional Communication Skills 1 专业交流技能 1 | 2 |
| UHLX 1112 | Foreign Language Elective  外语选修 | 2 | ULRS 1022 | Philosophy and Current Issues  哲学与当前问题 | 2 |
| ULRF 2xx2 | Global Citizen Elective  全球公民选修课 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 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** |
| SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 | SEMM 3033 | Finite Element Methods  有限元方法 | 3 |
| SEMM 3233 | Control Engineering  控制工程 | | 3 | SEMM 3183 | Industrial Engineering  工业工程 | 3 |
| SEMM 3523 | Components Design  部件设计 | | 3 | SEMM 2713 | Manufacturing processes  制造工艺 | 3 |
| SEMM 3931 | Laboratory II 实验室 II | | 1 | SEMV 3512 | Automotive Engineering Design I  汽车工程设计 I | 2 |
| SEMV 3012 | Automotive Technology  汽车技术 | | 2 | SEMV 3941 | Laboratory III  实验室 III | 1 |
| UBSS 1032 | Introduction to Entrepreneurship  创业学概论 | | 2 | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | 2 |
| **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 |
| SEMM 3915 | | | Industrial Training 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** |
| SEMM 3622 | Materials Technology  材料技术 | 2 | SEMM 4902 | Engineering Professional Practice 工程专业实践 | 2 |
| SEMM 3823 | Engineering Management, Safety and Economics  工程管理、安全与经济 | 3 | SEMM 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMM 4912 | Undergraduate Project I  本科生项目 I | 2 | SEMV 4793 | Automotive Production Technology 汽车生产技术 | 3 |
| SEMV 4212 | Automotive Electronics & Instrumentation 汽车电子与仪表 | 2 | SEMV 4xx3 | Elective  选修课 | 3 |
| SXXX xxx3 | Free Elective  自由选修课 | 3 | SEMV 5xx3 | PRISMS Elective  PRISMS选修课 |
| SEMV 4523 | Automotive Engineering Design II  汽车工程设计 II | 3 | SEMV 4213 | Vehicle Dynamics  车辆动力学 | 3 |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | |

**Faculty of Mechanical Engineering**

机械工程学院

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| **Bachelor of Engineering (Naval Architecture and Offshore Engineering) with Honours** 机械工程（造船与海洋工程）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** |
| SEMM 1203 | Static\*  静态\* | 3 | SEMM 1013 | Programming for Engineers  工程师编程 | 3 |
| SEM0 1503 | Ship Engineering Drawing  船舶工程图纸 | 3 | SEMM 1113 | Mechanics of Solids I\*  固体力学 I\* | 3 |
| SEMM 1911 | Experimental Methods  实验方法 | 1 | SEMM 1213 | Dynamics\*  动力学\* | 3 |
| SEMO 1922 | Introduction to Naval Architecture and  Offshore Engineering  造船和海洋工程概论 | 2 | SEMO 1332 | Naval Architecture I  造船学 I | 2 |
| SEEU 1002 | Electrical Technology  电气技术 | 2 | SSCE 1793 | Differential Equations  微分方程 | 3 |
| SSCE 1693 | Engineering Mathematics I  工程数学 I | 3 | SEMM 2921 | Laboratory I  实验 1 | 2 |
| ULRS 1032 | Integrity and Anti-Corruption  廉政与反腐败 | 2 | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 2 |
| UHLB 1112 | English Communication Skills  英语交流技能 | HL | ULRS 1182 | Appreciation of Ethics and Civilisations  道德与文明鉴赏 | 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** |
| SEMM 2313 | Mechanics of Fluids I\*  流体力学 I\* | 3 | SEMM 2223 | Mechanics of Machines and Vibration\* 机械力学与振动 | 3 |
| SEMM 2413 | Thermodynamics\*  热力学\* | 3 | SEMO 2123 | Ship and Offshore Structures I  船舶和近海结构 I | 3 |
| SEMM 2613 | Materials Science  材料科学 | 3 | SEMO 2323 | Marine Hydrodynamics  海洋水动力学 | 3 |
| SSCE 1993 | Engineering Mathematics II  工程数学 II | 3 | UHLB 2122 | Professional Communication Skills 1 专业沟通技巧1 | 3 |
| ULRF 2XX2 | Global Citizen Elective  全球公民选修课 | 2 | UHLB 2122 | Philosophy and Current Issues  哲学与当前问题 | 2 |
| UHLX 1112 | Foreign Language Elective  外语选修 | 2 | SEEU 2012 | Electronics 电子学 | 2 |
|  |  |  | SSCE 2193 | Engineering Statistics  工程统计学 | 3 |
|  |  |  | UHLM 1012 | Malay Language for Communication 2 马来语交流 2 | 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** |
| SEMM 3023 | Applied Numerical Methods  应用数值方法 | | 3 | SEMO 3033 | Computational Methods in Ocean  Engineering 海洋工程中的计算方法 | | 3 |
| SEMO 2713 | Ship and Offshore Production Technology 船舶和近海生产技术 | | 3 | SEMM 3242 | Instrumentation 仪器仪表 | | 2 |
| SEMO 3512 | Ship and Offshore Design  船舶和近海设计 | | 2 | SEMM 3623 | Materials Engineering 材料工程 | | 3 |
| SEMO 3333 | Naval Architecture II 造船学 II | | 3 | SEMO 3133 | Ship and Offshore Structure II  船舶和海洋功率结构 II | | 3 |
| SEMO 3353 | Ship Resistance and Propulsion  船舶助力和推进 | | 3 | SEMO 3523 | Integrated Ship & Offshore Design Project I  船舶和海洋工程综合设计项目 I | | 3 |
| UHLB 3132 | Professional Communication Skills 2 专业交流技能 2 | | 2 | SEMO 3931 | Marine Laboratory I  海洋实验 1 | | 1 |
|  |  | |  | ULRS 3032 | Entrepreneurship and Innovation  创业与创新 | | 2 |
| **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 | |
| SEMM 3915 | | | Industrial Training 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** |
| SEMO 4233 | Dynamics of Marine Vehicles  船舶动力学 | 3 | SEMM 4902 | Engineering Professional Practice 工程专业实践 | 2 |
| SEMO 4423 | Marine and Offshore Engineering System 船舶与海洋工程系统 | 3 | SEMO 4924 | Undergraduate Project II  本科生项目 II | 4 |
| SEMO 4533 | Integrated Ship & Offshore Design Project II  船舶与海洋工程综合设计 II | 3 | SEMO 4823 | Marine Management, Safety and  Environment  海洋馆里、安全和环境 | 3 |
| SEMO 4912 | Undergraduate Project I  本科生项目 I | 2 | SEMO 4951 | Marine Laboratory II  海洋实验II | 1 |
| SEMO 4262 | Risers & Mooring Dynamics  立管和系泊动力学 | 2 | SEMO 4xx2 | Marine and Offshore Elective  海洋和近海选修课 | 2 |
| SXXX xxx3 | Free Elective  自由选修 | 3 | UHLX 1112 | Marine Transport and Economics  海洋交通和经济 | 3 |
| Subject to changes  \* Core Courses – minimum passing grade is C (50%)  \*\* Minimum grade D- (30%) in the pre-requisite courses  ## Obtained minimum of 80 credits  Notes: L – Lecture, T – Tutorial, P/S – Practical/Studio  视情况而定  \* 核心课程 - 最低及格分数为C (50%)  \*\* 先修课程最低及格分数为D (30%)  ##至少获得80个学分  备注 L - 讲座, T - 教程, P/S - 实践/工作室 | | | | | |