样表1：专业类相关专业共用一张表（适用于专业基础和专业实验共享度高的相关专业类用）

XXXXX专业类实验教学项目设置（实体实验教学项目+虚拟仿真实验教学项目）与学生实验能力培养标准关联表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 毕业生须具备的实验能力要求  （知识、能力、素质）  实验培养载体属性及资源配置 | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 课程模块 | 实验课程属性 | | 实验项目属性 | | | | 每组  人数 | 修读  要求 | 教师  配备 | 助教  配备 |
| 名 称 | 学时 | 名 称 | 实/虚 | 学时 | 类型 |
| 专业基础  实验  （专业类共享） | 课程名称1 | XX | 实验项目1 |  | 4 | 基本 | 1 | 必做 | 1/30 | 1/30 | 关联度 | 关联度 | 关联度 | ┈┈ |  |  |  |  |  |  |  |  |
| 实验项目2 |  | 4 | 基本 | 1 | 必做 | 1/30 | 1/30 | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目3 |  | 4 | 综合 | 2 | 必做 | 1/30 | 1/30 | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目4 |  | 4 | 综合 | 2 | 必做 | 1/30 | 1/30 |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目X |  | 4 | 研究 | 2 | 选做 | 1/30 | 1/15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目Y |  | 4 | 研究 | 2 | 选做 | 1/30 | 1/8 |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 课程名称2 | YY | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 课程名称3 | ZZ | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 专业实验  （专业类共享） | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 专业实验  （专业1模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 专业实验  （专业2模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 专业实验  （专业3模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

备注：

1、毕业生具备的实验能力要求需要依据专业类培养目标和项目培养标准进行凝练，突出实验方面的知识、能力与素质要求。

2、实验项目与实验能力的关联度：填写“\*”、或“\*\*”、或“\*\*\*”，\*代表低度关联；\*\*代表中度关联；\*\*\*代表高度关联。

样表2：每个专业单独一张表（适用于实验共享度不高的相关专业用）

XXXXX专业实验教学项目设置（实体实验教学项目+虚拟仿真实验教学项目）与学生实验能力培养标准关联表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 毕业生须具备的实验能力要求  （知识、能力、素质）  实验培养载体属性及资源配置 | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 课程模块 | 实验课程属性 | | 实验项目属性 | | | | 每组  人数 | 修读  要求 | 教师  配备 | 助教  配备 |
| 名 称 | 学时 | 名 称 | 实/虚 | 学时 | 类型 |
| 专业基础  实验 | 课程名称1 | XX | 实验项目1 |  | 4 | 基本 | 1 | 必做 | 1/30 | 1/30 | 关联度 | 关联度 | 关联度 | ┈┈ |  |  |  |  |  |  |  |  |
| 实验项目2 |  | 4 | 基本 | 1 | 必做 | 1/30 | 1/30 | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目3 |  | 4 | 综合 | 2 | 必做 | 1/30 | 1/30 | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目4 |  | 4 | 综合 | 2 | 必做 | 1/30 | 1/30 |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目X |  | 4 | 研究 | 2 | 选做 | 1/30 | 1/15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 实验项目Y |  | 4 | 研究 | 2 | 选做 | 1/30 | 1/8 |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 课程名称2 | YY | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 课程名称3 | ZZ | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 专业实验 | ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 方向实验  （方向1模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 方向实验  （方向2模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 方向实验  （方向3模块） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

备注：

1、毕业生具备的实验能力要求需要依据专业类培养目标和项目培养标准进行凝练，突出实验方面的知识、能力与素质要求。

2、实验项目与实验能力的关联度：填写“\*”、或“\*\*”、或“\*\*\*”，\*代表低度关联；\*\*代表中度关联；\*\*\*代表高度关联。

样表3：专业类相关专业共用一张表（适用于专业基础和专业实验共享度高的相关专业类用）

XXXXX专业类虚拟仿真实验教学项目内容建设指南

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 课程模块 | 实验课程属性 | | 实验项目属性 | | | 每组人数 | 修读要求 | 项目内容及实验目的简介 |
| 名 称 | 学时 | 名 称 | 学时 | 类型 |
| 专业基础实验  （专业类共享） | 课程名称1 | XX | 实验项目1 | 4 | 基本 | 1 | 必做 |  |
| 实验项目2 | 4 | 基本 | 1 | 必做 |  |
| 实验项目3 | 4 | 综合 | 2 | 必做 |  |
| 实验项目4 | 4 | 综合 | 2 | 必做 |  |
| ┈┈ |  |  |  |  |  |
| 实验项目X | 4 | 研究 | 2 | 选做 |  |
| 实验项目Y | 4 | 研究 | 2 | 选做 |  |
| ┈┈ |  |  |  |  |  |
| 课程名称2 | YY | ┈┈ |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |
| 课程名称3 | ZZ | ┈┈ |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |
| ┈┈ |  | ┈┈ |  |  |  |  |  |
| 专业实验  （专业类共享） | ┈┈ |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业实验  （专业1模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业实验  （专业2模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业实验  （专业3模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |

样表4：每个专业单独一张表（适用于实验共享度不高的相关专业用）

XXXXX专业虚拟仿真实验教学项目内容建设指南

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 课程模块 | 实验课程属性 | | 实验项目属性 | | | 每组人数 | 修读要求 | 项目内容及实验目的简介 |
| 名 称 | 学时 | 名 称 | 学时 | 类型 |
| 专业基础实验 | 课程名称1 | XX | 实验项目1 | 4 | 基本 | 1 | 必做 |  |
| 实验项目2 | 4 | 基本 | 1 | 必做 |  |
| 实验项目3 | 4 | 综合 | 2 | 必做 |  |
| 实验项目4 | 4 | 综合 | 2 | 必做 |  |
| ┈┈ |  |  |  |  |  |
| 实验项目X | 4 | 研究 | 2 | 选做 |  |
| 实验项目Y | 4 | 研究 | 2 | 选做 |  |
| ┈┈ |  |  |  |  |  |
| 课程名称2 | YY | ┈┈ |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |
| 课程名称3 | ZZ | ┈┈ |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |
| ┈┈ |  | ┈┈ |  |  |  |  |  |
| 专业实验 | ┈┈ |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业方向实验  （方向1模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业方向实验  （方向2模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 专业方向实验  （方向3模块） |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| ┈┈ |  |  |  |  |  |  |  |  |