

## 与 专业

一、

、 业

1. 工程知识:

2. 问题分析：

3. 设计/开发解决方案：

4. 研究：

**5. 使用工具：**

**6. 工程与社会：**

**7. 环境与可持续发展：**

1

2

**8. 职业规范：**

1

2

3

**9. 个人与团队：**

1

2

3

10. ~~沟通~~

1

2

3

11 项目管理:

1

2 ( )

3

12 终身学习:

1

2

专业毕业要求对培养目标的支撑关系

| 毕业要求 \ 培养目标 | 目标 1 | 目标 2 | 目标 3 | 目标 4 | 目标 5 |
|-------------|------|------|------|------|------|
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |
|             |      |      |      |      |      |

三、

1. 1
2. 2

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**主干学科： 新能源科学与工程、能源与动力工程**

**专业核心知识领域：**

**专业核心课程：**

**主要实践性教学环节：** (C++)

、 业

**标准学制**

**毕业学分要求**

177

**授予学位**

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1. **通识教育类：** 76

(1) **必修课** 67

| 类别 | 课程名称  | 考核方式 | 学分  | 学时   | 开课学期    | 备注             |
|----|-------|------|-----|------|---------|----------------|
|    |       |      | 3   | 48   | 1       |                |
|    |       |      | 3   | 48   | 2       |                |
|    |       |      | 3   | 48   | 3       |                |
|    |       |      | 3   | 48   | 4       |                |
|    |       |      | 3   | 48   | 1       |                |
|    | 1-4   |      | 1   | 32   | 1/3/5/7 |                |
|    |       |      | 2   | 32   | 2       |                |
|    |       |      | 1   | 16   | 3       |                |
|    |       |      | 1   | 16   | 3       |                |
|    |       |      | 1   | 32   | 4       |                |
|    | A1    |      | 5   | 80   | 1       |                |
|    | A2    |      | 6   | 96   | 2       |                |
|    |       |      | 2   | 32   | 3       |                |
|    |       |      | 3   | 48   | 4       |                |
|    | 1     |      | 4.5 | 72   | 2       |                |
|    | 2     |      | 2.5 | 40   | 3       |                |
|    | 1-4   |      | 10  | 160  | 1-4     | 1 2 3<br>3 4 2 |
|    | 1-4   |      | 4   | 144  | 1-4     | 1 /            |
|    |       |      | 2   | 36   | 1       |                |
|    |       |      | 1   | 16   | 2       |                |
|    |       |      | 2   | 32   | 1       |                |
|    | (C++) |      | 4   | 64   | 2       |                |
|    |       |      | 67  | 1188 |         |                |

(2) 选修课

8

4

2

(1)必修课

17.5

| 类别 | 课程名称 | 考核方式 | 总学分  | 总学时 | 开课学期 | 备注 |
|----|------|------|------|-----|------|----|
|    |      |      | 3    | 48  | 5    |    |
|    |      |      | 3    | 48  | 5    |    |
|    |      |      | 2    | 32  | 5    |    |
|    |      |      | 3    | 48  | 5    |    |
|    |      |      | 2    | 32  | 6    |    |
|    |      |      | 2.5  | 40  | 5    |    |
|    |      |      | 2    | 32  | 6    |    |
|    |      |      | 17.5 | 280 |      |    |

(2)选修课:

6

| 课程  | 考核方式 | 总学分 | 总学时 | 开课学期 | 备注     |
|-----|------|-----|-----|------|--------|
|     |      | 2   | 32  | 6    | 3<br>6 |
|     |      | 2   | 32  | 6    |        |
|     |      | 2   | 32  | 6    |        |
|     |      | 2   | 32  | 6    |        |
|     |      | 2   | 32  | 6    |        |
| CAE |      | 2   | 32  | 6    |        |
|     |      | 2   | 32  | 6    |        |
|     |      | 2   | 32  | 6    |        |

4. 集中实践环节

39.5



| 类型 | 实践环节名称 | 考核方式 | 学分  | 学时  | 开课学期    | 备注  |
|----|--------|------|-----|-----|---------|-----|
|    |        |      | 1   | 32  | 2       |     |
|    |        |      | 0.5 | 16  | 3       |     |
|    |        |      | 1   | 32  | 2/3/5/7 |     |
|    |        |      | 2   | 3W  | 1       |     |
|    |        |      | 1   | 32  | 7       |     |
|    |        |      | 2   | 2W  | 3       |     |
|    |        |      | 0.5 | 16  | 4       |     |
|    |        |      | 0.5 | 16  | 3       |     |
|    |        |      | 1   | 1W  | 5       |     |
|    |        |      | 1   | 1W  | 3       |     |
|    |        |      | 1   | 1W  | 5       |     |
|    |        |      | 1   | 32  | 6       |     |
|    |        |      | 1   | 1W  | 6       |     |
|    |        |      | 1   | 1W  | 6       |     |
|    |        |      | 1   | 1W  | 6       |     |
|    |        |      | 14  | 14W | 8       |     |
|    |        |      | 2   | 2W  | 7       |     |
|    |        |      | 1   | 1W  | 6       |     |
|    |        |      | 2   | 2W  | 7       |     |
|    |        |      | 2   | 2W  | 7       |     |
|    |        |      | 3   | 3W  | 7       | 2 1 |
|    |        |      | 3   | 3W  | 7       |     |

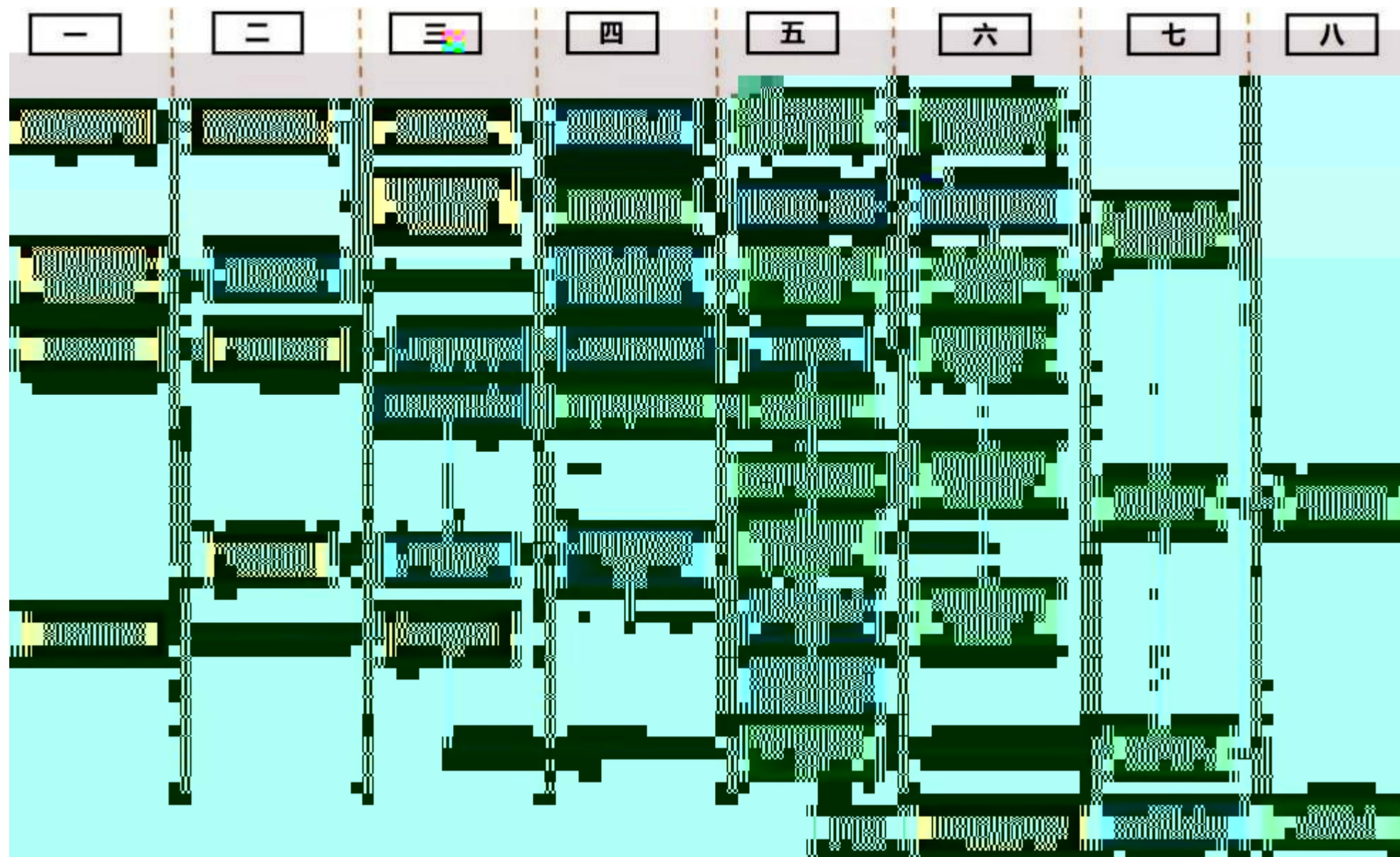
| 类型 | 实践环节名称 | 考核方式 | 学分   | 学时      | 开课学期 | 备注    |
|----|--------|------|------|---------|------|-------|
|    |        |      |      |         |      |       |
|    |        |      | 39.5 | 168+35W |      | W “ ” |

5. 第二课堂：要求修满 6 学分

|   |   |   |  |   |  |   |
|---|---|---|--|---|--|---|
| 6 |   |   |  |   |  |   |
|   |   | 1 |  |   |  |   |
|   | 1 | 1 |  |   |  | 1 |
|   |   |   |  | 1 |  |   |
| 1 |   | 1 |  |   |  |   |

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## 1. 按课程模块统计

|     |  |  |      |        |          |
|-----|--|--|------|--------|----------|
|     |  |  |      |        |          |
|     |  |  | 67   | 37.85% | 1188     |
|     |  |  | 8    | 4.52%  | 128      |
|     |  |  | 75   | 42.37% | 1316     |
|     |  |  | 31   | 17.51% | 496      |
|     |  |  | 2    | 1.13%  | 32       |
|     |  |  | 33   | 18.81% | 528      |
|     |  |  | 17.5 | 9.88%  | 280      |
|     |  |  | 6    | 3.39%  | 96       |
|     |  |  | 23.5 | 13.27% | 376      |
|     |  |  |      | 131.5  | 74.29%   |
| ( ) |  |  | 36.5 | 20.51% | 168+32w  |
|     |  |  | 3    | 1.69%  | 3w       |
|     |  |  | 39.5 | 22.2%  | 168+35w  |
|     |  |  | 6    | 3.3%   | 6 w      |
|     |  |  | 177  | 100.0% | 2388+35w |

152

25

## 2. 按课程类型统计

| 课程类型 | 总学分  | 占总学分比例 |
|------|------|--------|
|      | 29   | 16.38% |
|      | 60.5 | 34.18% |
|      | 36.5 | 20.62% |
|      | 37   | 20.90% |
|      | 6    | 3.39%  |
|      | 8    | 4.52%  |
|      | 177  | 100%   |

中

教学计划中学期周分配统计表

|   |       | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |      |
|---|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|
|   |       | 16w | 19w | 16w | 19w | 15w | 15w | 12w | 3w  | 115w |
|   |       |     |     |     |     | 1w  |     |     |     | 1w   |
|   |       |     |     |     |     |     | 1w  |     |     | 1w   |
|   |       |     |     | 2w  |     |     |     |     |     | 2w   |
|   |       | 3w  |     |     |     |     |     |     |     | 3w   |
|   |       |     |     |     |     |     |     | 3w  |     | 3w   |
|   | (C++) |     |     | 1w  |     |     |     |     |     | 1w   |
|   |       |     |     |     |     | 1w  |     |     |     | 1w   |
|   |       |     |     |     |     |     |     | 2w  |     | 2w   |
|   |       |     |     |     |     |     |     | 1w  |     | 1w   |
|   |       |     |     |     |     |     |     | 1w  |     | 1w   |
|   |       |     |     |     |     |     | 2w  |     |     | 2w   |
|   |       |     |     |     |     |     |     |     | 2w  | 2w   |
|   |       |     |     |     |     |     |     |     | 14w | 14w  |
| / |       | 1w  | 1w  | 1w  | 1w  | 1w  | 1w  | 1w  | 1w  | 8w   |
|   |       | 20w | 20w | 20w | 20w | 20w | 20w | 20w | 18w | 158w |

教学计划中学期学分分配表

|  |  | 1     | 2     | 3     | 4    | 5     | 6    | 7     | 8  |       |
|--|--|-------|-------|-------|------|-------|------|-------|----|-------|
|  |  | 24.25 | 28.5  | 23.75 | 21.5 | 22.25 | 15.5 | 2.25  | 0  | 137.5 |
|  |  | 2     | 1.25  | 4.25  | 0.5  | 1.75  | 5    | 10.25 | 14 | 39.5  |
|  |  | 26.25 | 29.75 | 28    | 22   | 24    | 20.5 | 12.5  | 14 | 177   |