**课程目标达成情况分析报告**

**2020-2021年度 第一 学期**

**一、课程基本情况**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 代码 | 1029009 | 学院 | 电气工程学院 | 专业班级 | 自动化171、172、173、174、181、182 | 人数 | 186 |
| 课程 | 科技论文写作实训 | 学时 | 16 | 理论 | 0 | 实践 | 16 | 课外 | 4 | 学分 | 0.5 |
| 类别： | □通识必修 □学门 □学类 □专业核心 集中实践必修□通识选修 □专业选修 □集中实践选修 |
| 考核： | □考试 考查 | 成绩类型： | 百分制 □五级制 □二级制 |

**二、基本数据**

本课程是专业选修，该课程对毕业要求指标点1.3、4.1、12.2是强支撑，再结合各子目标达到的难易程度以及往年课程的各子目标的期望得分与达成度期望值，设置课程总目标达成度期望值和课程子目标达成度期望值以及课程各子目标得分期望值和期评期望值如下表所示。该课程各项子目标达成评价方式是对每位同学位的平时表现和期未考核做出定量评价，每个教学支撑环节对每个子目标的权分值分配如下表所示。

**课程教学环节与课程目标的支撑关系**

|  |  |  |  |
| --- | --- | --- | --- |
| 课程目标 | 各支撑环节满分值 | 得分期望值（%） | 达成度评价值 |
| 平时表现 | 期未考核 |
| 课程目标1.1 | 40 | 20 | 15 | 0.9 |
| 课程目标2.1 | 30 | 70 | 35 | 0.9 |
| 课程目标3.1 | 30 | 10 | 10 | 0.85 |
| 各支撑环节目标总分 | 100 | 100 | 课程期评成绩期望值 | 课程目标总达成度评价值 |
| 各支撑环节占课程目标评价总分 | 30 | 70 | 60 | 0.8 |

课程目标1.1的达成途径是：通过自主学习和与教师的交流，熟悉创新与创新成果的基本概念，掌握基本创新方法和论文报告的写作方法。

课程目标2.1的达成途径是：教师给出相对较小的专业主题方向，指导学生充分利用数字资源和图书馆，学会查阅文献，对自动化某一领域或方向的文献进行系统的梳理，按论文报告的要求撰写文献综述，遵循学术规范。

课程目标3.1的达成途径是：在阅读文献中涉及专业主题方向的新观点、新手点、新做法、新方法，采用创新思维方式和研究的态度对待新方法的自主学习。

由此，对每位同学进行课程定量达成情况分析，如下表。根据课程达成度评价办法计算三个子目标达成情况以及总的达成情况（=0或=1），统计定量达成人数，并计算定量达成度实际评价值。

**课程目标定量达成情况统计分析表**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 姓名 | 平时O1.1 | 平时O2.1 | 平时O3.1 | 平时表现30% | 综述论文O1.1 | 综述论文O2.1 | 综述论文O3.1 | 期未考核70% | 期评总成绩 | 总成绩达成情况 | 学生课程子目标达成情况 | 目标达成否 |
| 课程目标1.1 | 课程目标2.1 | 课程目标3.1 |
| \*贞 | 70.00  | 68.00  | 63.00  | 67.30 | 71.00  | 72.00  | 66.00  | 71.2 | 70.0  | 1 | 1 | 1 | 1 | 1 |
| \*彦 | 87.00  | 86.00  | 79.00  | 84.30 | 80.00  | 86.00  | 74.00  | 83.6 | 83.8  | 1 | 1 | 1 | 1 | 1 |
| \*安 | 89.00  | 87.00  | 85.00  | 87.20 | 85.00  | 86.00  | 91.00  | 86.3 | 86.6  | 1 | 1 | 1 | 1 | 1 |
| \*磊 | 90.00  | 87.00  | 85.00  | 87.60 | 89.00  | 87.00  | 83.00  | 87.0 | 87.2  | 1 | 1 | 1 | 1 | 1 |
| \*波 | 71.00  | 73.00  | 69.00  | 71.00 | 71.00  | 73.00  | 70.00  | 72.3 | 71.9  | 1 | 1 | 1 | 1 | 1 |
| \*灿 | 91.00  | 92.00  | 91.00  | 91.30 | 87.00  | 87.00  | 90.00  | 87.3 | 88.5  | 1 | 1 | 1 | 1 | 1 |
| \*佳 | 71.00  | 72.00  | 70.00  | 71.00 | 73.00  | 72.00  | 73.00  | 72.3 | 71.9  | 1 | 1 | 1 | 1 | 1 |
| \*卓 | 74.00  | 71.00  | 72.00  | 72.50 | 75.00  | 73.00  | 72.00  | 73.3 | 73.1  | 1 | 1 | 1 | 1 | 1 |
| \*彰 | 87.00  | 85.00  | 80.00  | 84.30 | 84.00  | 78.00  | 79.00  | 79.3 | 80.8  | 1 | 1 | 1 | 1 | 1 |
| \*思 | 80.00  | 70.00  | 75.00  | 75.50 | 82.00  | 79.00  | 80.00  | 79.7 | 78.4  | 1 | 1 | 1 | 1 | 1 |
| \*熙 | 86.00  | 89.00  | 81.00  | 85.40 | 82.00  | 83.00  | 81.00  | 82.6 | 83.4  | 1 | 1 | 1 | 1 | 1 |
| \*桂 | 85.00  | 81.00  | 80.00  | 82.30 | 83.00  | 81.00  | 79.00  | 81.2 | 81.5  | 1 | 1 | 1 | 1 | 1 |
| \*鑫 | 89.00  | 88.00  | 82.00  | 86.60 | 84.00  | 88.00  | 82.00  | 86.6 | 86.6  | 1 | 1 | 1 | 1 | 1 |
| \*忠 | 81.00  | 82.00  | 83.00  | 81.90 | 84.00  | 85.00  | 81.00  | 84.4 | 83.7  | 1 | 1 | 1 | 1 | 1 |
| \*志 | 89.00  | 88.00  | 87.00  | 88.10 | 88.00  | 87.00  | 90.00  | 87.5 | 87.7  | 1 | 1 | 1 | 1 | 1 |
| \*茜 | 91.00  | 92.00  | 88.00  | 90.40 | 90.00  | 88.00  | 89.00  | 88.5 | 89.1  | 1 | 1 | 1 | 1 | 1 |
| \*德 | 82.00  | 83.00  | 84.00  | 82.90 | 81.00  | 82.00  | 79.00  | 81.5 | 81.9  | 1 | 1 | 1 | 1 | 1 |
| \*润 | 92.00  | 91.00  | 90.00  | 91.10 | 89.00  | 91.00  | 90.00  | 90.5 | 90.7  | 1 | 1 | 1 | 1 | 1 |
| \*光 | 83.00  | 82.00  | 81.00  | 82.10 | 82.00  | 82.00  | 80.00  | 81.8 | 81.9  | 1 | 1 | 1 | 1 | 1 |
| \*应 | 90.00  | 91.00  | 88.00  | 89.70 | 89.00  | 90.00  | 91.00  | 89.9 | 89.8  | 1 | 1 | 1 | 1 | 1 |
| \*树 | 87.00  | 88.00  | 85.00  | 86.70 | 85.00  | 86.00  | 83.00  | 85.5 | 85.9  | 1 | 1 | 1 | 1 | 1 |
| \*依 | 84.00  | 82.00  | 80.00  | 82.20 | 87.00  | 85.00  | 83.00  | 85.2 | 84.3  | 1 | 1 | 1 | 1 | 1 |
| \*新 | 82.00  | 84.00  | 81.00  | 82.30 | 79.00  | 82.00  | 80.00  | 81.2 | 81.5  | 1 | 1 | 1 | 1 | 1 |
| \*茂 | 85.00  | 86.00  | 82.00  | 84.40 | 82.00  | 82.00  | 79.00  | 81.7 | 82.5  | 1 | 1 | 1 | 1 | 1 |
| \*礼 | 87.00  | 88.00  | 88.00  | 87.60 | 90.00  | 88.00  | 86.00  | 88.2 | 88.0  | 1 | 1 | 1 | 1 | 1 |
| \*华 | 86.00  | 85.00  | 87.00  | 86.00 | 89.00  | 85.00  | 86.00  | 85.9 | 85.9  | 1 | 1 | 1 | 1 | 1 |
| \*清 | 81.00  | 85.00  | 82.00  | 82.50 | 80.00  | 81.00  | 83.00  | 81.0 | 81.5  | 1 | 1 | 1 | 1 | 1 |
| \*浩 | 88.00  | 87.00  | 88.00  | 87.70 | 89.00  | 88.00  | 88.00  | 88.2 | 88.1  | 1 | 1 | 1 | 1 | 1 |
| \*年 | 87.00  | 88.00  | 84.00  | 86.40 | 87.00  | 89.00  | 84.00  | 88.1 | 87.6  | 1 | 1 | 1 | 1 | 1 |
| \*贵 | 87.00  | 85.00  | 82.00  | 84.90 | 86.00  | 84.00  | 80.00  | 84.0 | 84.3  | 1 | 1 | 1 | 1 | 1 |
| \*泳 | 75.00  | 92.00  | 84.00  | 82.80 | 88.00  | 92.00  | 90.00  | 91.0 | 88.5  | 1 | 1 | 1 | 1 | 1 |
| \*萍 | 88.00  | 87.00  | 84.00  | 86.50 | 88.00  | 89.00  | 87.00  | 88.6 | 88.0  | 1 | 1 | 1 | 1 | 1 |
| \*集 | 88.00  | 84.00  | 82.00  | 85.00 | 84.00  | 88.00  | 83.00  | 86.7 | 86.2  | 1 | 1 | 1 | 1 | 1 |
| \*叶 | 94.00  | 93.00  | 90.00  | 92.50 | 91.00  | 94.00  | 90.00  | 93.0 | 92.9  | 1 | 1 | 1 | 1 | 1 |
| \*恩 | 88.00  | 89.00  | 81.00  | 86.20 | 86.00  | 88.00  | 84.00  | 87.2 | 86.9  | 1 | 1 | 1 | 1 | 1 |
| \*文 | 89.00  | 88.00  | 86.00  | 87.80 | 86.00  | 88.00  | 84.00  | 87.2 | 87.4  | 1 | 1 | 1 | 1 | 1 |
| \*宗 | 88.00  | 87.00  | 81.00  | 85.60 | 86.00  | 87.00  | 83.00  | 86.4 | 86.2  | 1 | 1 | 1 | 1 | 1 |
| \*杰 | 85.00  | 86.00  | 84.00  | 85.00 | 86.00  | 87.00  | 83.00  | 86.4 | 86.0  | 1 | 1 | 1 | 1 | 1 |
| \*智 | 86.00  | 88.00  | 84.00  | 86.00 | 84.00  | 87.00  | 82.00  | 85.9 | 85.9  | 1 | 1 | 1 | 1 | 1 |
| \*武 | 84.00  | 87.00  | 82.00  | 84.30 | 88.00  | 83.00  | 84.00  | 84.1 | 84.2  | 1 | 1 | 1 | 1 | 1 |
| \*辰 | 95.00  | 92.00  | 91.00  | 92.90 | 90.00  | 94.00  | 92.00  | 93.0 | 93.0  | 1 | 1 | 1 | 1 | 1 |
| \*景 | 88.00  | 87.00  | 84.00  | 86.50 | 84.00  | 88.00  | 87.00  | 87.1 | 86.9  | 1 | 1 | 1 | 1 | 1 |
| \*国 | 82.00  | 84.00  | 80.00  | 82.00 | 81.00  | 80.00  | 81.00  | 80.3 | 80.8  | 1 | 1 | 1 | 1 | 1 |
| \*秀 | 90.00  | 87.00  | 88.00  | 88.50 | 84.00  | 88.00  | 82.00  | 86.6 | 87.2  | 1 | 1 | 1 | 1 | 1 |
| \*上 | 90.00  | 89.00  | 85.00  | 88.20 | 88.00  | 91.00  | 89.00  | 90.2 | 89.6  | 1 | 1 | 1 | 1 | 1 |
| \*雨 | 92.00  | 89.00  | 87.00  | 89.60 | 90.00  | 91.00  | 89.00  | 90.6 | 90.3  | 1 | 1 | 1 | 1 | 1 |
| \*章 | 84.00  | 94.00  | 86.00  | 87.60 | 86.00  | 90.00  | 92.00  | 89.4 | 88.9  | 1 | 1 | 1 | 1 | 1 |
| \*方 | 85.00  | 90.00  | 87.00  | 87.10 | 93.00  | 92.00  | 89.00  | 91.9 | 90.5  | 1 | 1 | 1 | 1 | 1 |
| \*子 | 62.00  | 65.00  | 60.00  | 62.30 | 60.00  | 72.00  | 62.00  | 68.6 | 66.7  | 1 | 1 | 1 | 1 | 1 |
| \*泳 | 61.00  | 63.00  | 60.00  | 61.30 | 60.00  | 70.00  | 60.00  | 67.0 | 65.3  | 1 | 1 | 1 | 1 | 1 |
| \*雅 | 70.00  | 86.00  | 83.00  | 78.70 | 82.00  | 82.00  | 84.00  | 82.2 | 81.2  | 1 | 1 | 1 | 1 | 1 |
| \*盈 | 74.00  | 80.00  | 84.00  | 78.80 | 82.00  | 72.00  | 76.00  | 74.4 | 75.7  | 1 | 1 | 1 | 1 | 1 |
| \*婧 | 92.00  | 90.00  | 93.00  | 91.70 | 92.00  | 90.00  | 93.00  | 90.7 | 91.0  | 1 | 1 | 1 | 1 | 1 |
| \*琼 | 80.00  | 78.00  | 70.00  | 76.40 | 80.00  | 74.00  | 72.00  | 75.0 | 75.4  | 1 | 1 | 1 | 1 | 1 |
| \*强 | 73.00  | 70.00  | 75.00  | 72.70 | 78.00  | 74.00  | 76.00  | 75.0 | 74.3  | 1 | 1 | 1 | 1 | 1 |
| \*晗 | 71.00  | 73.00  | 74.00  | 72.50 | 76.00  | 73.00  | 70.00  | 73.3 | 73.1  | 1 | 1 | 1 | 1 | 1 |
| \*成 | 85.00  | 86.00  | 80.00  | 83.80 | 80.00  | 85.00  | 81.00  | 83.6 | 83.7  | 1 | 1 | 1 | 1 | 1 |
| \*瑜 | 70.00  | 72.00  | 75.00  | 72.10 | 77.00  | 70.00  | 75.00  | 71.9 | 72.0  | 1 | 1 | 1 | 1 | 1 |
| \*德 | 71.00  | 73.00  | 69.00  | 71.00 | 70.00  | 72.00  | 68.00  | 71.2 | 71.1  | 1 | 1 | 1 | 1 | 1 |
| \*永 | 92.00  | 95.00  | 88.00  | 91.70 | 93.00  | 88.00  | 89.00  | 89.1 | 89.9  | 1 | 1 | 1 | 1 | 1 |
| \*彦 | 75.00  | 80.00  | 77.00  | 77.10 | 76.00  | 75.00  | 78.00  | 75.5 | 76.0  | 1 | 1 | 1 | 1 | 1 |
| \*兴 | 88.00  | 86.00  | 85.00  | 86.50 | 82.00  | 86.00  | 80.00  | 84.6 | 85.2  | 1 | 1 | 1 | 1 | 1 |
| \*山 | 72.00  | 84.00  | 84.00  | 79.20 | 76.00  | 78.00  | 78.00  | 77.6 | 78.1  | 1 | 1 | 1 | 1 | 1 |
| \*俊 | 90.00  | 85.00  | 86.00  | 87.30 | 88.00  | 87.00  | 83.00  | 86.8 | 87.0  | 1 | 1 | 1 | 1 | 1 |
| \*佳 | 76.00  | 81.00  | 78.00  | 78.10 | 77.00  | 80.00  | 74.00  | 78.8 | 78.6  | 1 | 1 | 1 | 1 | 1 |
| \*海 | 82.00  | 83.00  | 85.00  | 83.20 | 85.00  | 89.00  | 80.00  | 87.3 | 86.1  | 1 | 1 | 1 | 1 | 1 |
| \*金 | 70.00  | 65.00  | 60.00  | 65.50 | 64.00  | 70.00  | 66.00  | 68.4 | 67.5  | 1 | 1 | 1 | 1 | 1 |
| \*溢 | 82.00  | 83.00  | 80.00  | 81.70 | 80.00  | 79.00  | 75.00  | 78.8 | 79.7  | 1 | 1 | 1 | 1 | 1 |
| \*栊 | 91.00  | 93.00  | 85.00  | 89.80 | 92.00  | 88.00  | 83.00  | 88.3 | 88.8  | 1 | 1 | 1 | 1 | 1 |
| \*右 | 81.00  | 82.00  | 80.00  | 81.00 | 77.00  | 80.00  | 75.00  | 78.9 | 79.5  | 1 | 1 | 1 | 1 | 1 |
| \*君 | 72.00  | 80.00  | 85.00  | 78.30 | 80.00  | 79.00  | 78.00  | 79.1 | 78.9  | 1 | 1 | 1 | 1 | 1 |
| \*世 | 87.00  | 91.00  | 88.00  | 88.50 | 90.00  | 90.00  | 88.00  | 89.8 | 89.4  | 1 | 1 | 1 | 1 | 1 |
| \*晓 | 88.00  | 92.00  | 93.00  | 90.70 | 85.00  | 90.00  | 90.00  | 89.0 | 89.5  | 1 | 1 | 1 | 1 | 1 |
| \*丽 | 86.00  | 88.00  | 85.00  | 86.30 | 83.00  | 88.00  | 87.00  | 86.9 | 86.7  | 1 | 1 | 1 | 1 | 1 |
| \*冬 | 89.00  | 91.00  | 88.00  | 89.30 | 90.00  | 90.00  | 89.00  | 89.9 | 89.7  | 1 | 1 | 1 | 1 | 1 |
| \*莹 | 82.00  | 79.00  | 78.00  | 79.90 | 78.00  | 80.00  | 78.00  | 79.4 | 79.6  | 1 | 1 | 1 | 1 | 1 |
| \*燕 | 76.00  | 78.00  | 75.00  | 76.30 | 78.00  | 75.00  | 73.00  | 75.4 | 75.7  | 1 | 1 | 1 | 1 | 1 |
| \*鸿 | 90.00  | 88.00  | 88.00  | 88.80 | 87.00  | 89.00  | 88.00  | 88.5 | 88.6  | 1 | 1 | 1 | 1 | 1 |
| \*炳 | 88.00  | 87.00  | 85.00  | 86.80 | 89.00  | 87.00  | 85.00  | 87.2 | 87.1  | 1 | 1 | 1 | 1 | 1 |
| \*浩 | 80.00  | 80.00  | 78.00  | 79.40 | 76.00  | 75.00  | 77.00  | 75.4 | 76.6  | 1 | 1 | 1 | 1 | 1 |
| \*金 | 88.00  | 86.00  | 79.00  | 84.70 | 80.00  | 84.00  | 79.00  | 82.7 | 83.3  | 1 | 1 | 1 | 1 | 1 |
| \*瑶 | 85.00  | 82.00  | 79.00  | 82.30 | 81.00  | 88.00  | 84.00  | 86.2 | 85.0  | 1 | 1 | 1 | 1 | 1 |
| \*焕 | 90.00  | 91.00  | 86.00  | 89.10 | 88.00  | 87.00  | 89.00  | 87.4 | 87.9  | 1 | 1 | 1 | 1 | 1 |
| \*川 | 90.00  | 91.00  | 86.00  | 89.10 | 88.00  | 90.00  | 89.00  | 89.5 | 89.4  | 1 | 1 | 1 | 1 | 1 |
| \*亦 | 70.00  | 75.00  | 78.00  | 73.90 | 78.00  | 75.00  | 73.00  | 75.4 | 75.0  | 1 | 1 | 1 | 1 | 1 |
| \*阿 | 70.00  | 79.00  | 78.00  | 75.10 | 80.00  | 75.00  | 85.00  | 77.0 | 76.4  | 1 | 1 | 1 | 1 | 1 |
| \*帆 | 70.00  | 80.00  | 78.00  | 75.40 | 80.00  | 78.00  | 86.00  | 79.2 | 78.1  | 1 | 1 | 1 | 1 | 1 |
| \*情 | 70.00  | 75.00  | 76.00  | 73.30 | 78.00  | 76.00  | 75.00  | 76.3 | 75.4  | 1 | 1 | 1 | 1 | 1 |
| \*仁 | 80.00  | 81.00  | 78.00  | 79.70 | 78.00  | 75.00  | 80.00  | 76.1 | 77.2  | 1 | 1 | 1 | 1 | 1 |
| \*宏 | 90.00  | 92.00  | 89.00  | 90.30 | 89.00  | 92.00  | 86.00  | 90.8 | 90.7  | 1 | 1 | 1 | 1 | 1 |
| \*文 | 91.00  | 86.00  | 84.00  | 87.40 | 83.00  | 88.00  | 86.00  | 86.8 | 87.0  | 1 | 1 | 1 | 1 | 1 |
| \*伟 | 92.00  | 93.00  | 90.00  | 91.70 | 92.00  | 90.00  | 89.00  | 90.3 | 90.7  | 1 | 1 | 1 | 1 | 1 |
| \*煜 | 85.00  | 81.00  | 83.00  | 83.20 | 80.00  | 88.00  | 82.00  | 85.8 | 85.0  | 1 | 1 | 1 | 1 | 1 |
| \*镜 | 90.00  | 93.00  | 88.00  | 90.30 | 91.00  | 94.00  | 89.00  | 92.9 | 92.1  | 1 | 1 | 1 | 1 | 1 |
| \*海 | 80.00  | 77.00  | 75.00  | 77.60 | 79.00  | 78.00  | 75.00  | 77.9 | 77.8  | 1 | 1 | 1 | 1 | 1 |
| \*昌 | 82.00  | 84.00  | 76.00  | 80.80 | 80.00  | 87.00  | 79.00  | 84.8 | 83.6  | 1 | 1 | 1 | 1 | 1 |
| \*俊 | 72.00  | 74.00  | 70.00  | 72.00 | 77.00  | 71.00  | 70.00  | 72.1 | 72.1  | 1 | 1 | 1 | 1 | 1 |
| \*嵘 | 92.00  | 93.00  | 90.00  | 91.70 | 90.00  | 92.00  | 89.00  | 91.3 | 91.4  | 1 | 1 | 1 | 1 | 1 |
| \*安 | 90.00  | 92.00  | 90.00  | 90.60 | 93.00  | 90.00  | 90.00  | 90.6 | 90.6  | 1 | 1 | 1 | 1 | 1 |
| \*璧 | 95.00  | 96.00  | 92.00  | 94.40 | 92.00  | 95.00  | 92.00  | 94.1 | 94.2  | 1 | 1 | 1 | 1 | 1 |
| \*梓 | 86.00  | 85.00  | 80.00  | 83.90 | 85.00  | 82.00  | 84.00  | 82.8 | 83.1  | 1 | 1 | 1 | 1 | 1 |
| \*池 | 95.00  | 92.00  | 90.00  | 92.60 | 92.00  | 94.00  | 91.00  | 93.3 | 93.1  | 1 | 1 | 1 | 1 | 1 |
| \*灿 | 95.00  | 94.00  | 92.00  | 93.80 | 93.00  | 94.00  | 90.00  | 93.4 | 93.5  | 1 | 1 | 1 | 1 | 1 |
| \*奕 | 95.00  | 95.00  | 92.00  | 94.10 | 92.00  | 95.00  | 90.00  | 93.9 | 94.0  | 1 | 1 | 1 | 1 | 1 |
| \*耀 | 90.00  | 89.00  | 88.00  | 89.10 | 89.00  | 90.00  | 87.00  | 89.5 | 89.4  | 1 | 1 | 1 | 1 | 1 |
| \*昌 | 88.00  | 91.00  | 87.00  | 88.60 | 89.00  | 88.00  | 89.00  | 88.3 | 88.4  | 1 | 1 | 1 | 1 | 1 |
| \*华 | 89.00  | 90.00  | 86.00  | 88.40 | 91.00  | 89.00  | 88.00  | 89.3 | 89.0  | 1 | 1 | 1 | 1 | 1 |
| \*思 | 92.00  | 90.00  | 87.00  | 89.90 | 90.00  | 89.00  | 89.00  | 89.2 | 89.4  | 1 | 1 | 1 | 1 | 1 |
| \*桂 | 89.00  | 88.00  | 85.00  | 87.50 | 88.00  | 87.00  | 84.00  | 86.9 | 87.1  | 1 | 1 | 1 | 1 | 1 |
| \*凯 | 92.00  | 91.00  | 90.00  | 91.10 | 90.00  | 90.00  | 88.00  | 89.8 | 90.2  | 1 | 1 | 1 | 1 | 1 |
| \*春 | 90.00  | 88.00  | 88.00  | 88.80 | 89.00  | 90.00  | 89.00  | 89.7 | 89.4  | 1 | 1 | 1 | 1 | 1 |
| \*粤 | 94.00  | 95.00  | 92.00  | 93.70 | 92.00  | 93.00  | 89.00  | 92.4 | 92.8  | 1 | 1 | 1 | 1 | 1 |
| \*洁 | 90.00  | 91.00  | 89.00  | 90.00 | 90.00  | 91.00  | 89.00  | 90.6 | 90.4  | 1 | 1 | 1 | 1 | 1 |
| \*渭 | 88.00  | 90.00  | 86.00  | 88.00 | 88.00  | 87.00  | 87.00  | 87.2 | 87.4  | 1 | 1 | 1 | 1 | 1 |
| \*启 | 90.00  | 88.00  | 86.00  | 88.20 | 89.00  | 86.00  | 88.00  | 86.8 | 87.2  | 1 | 1 | 1 | 1 | 1 |
| \*柏 | 90.00  | 88.00  | 87.00  | 88.50 | 86.00  | 89.00  | 88.00  | 88.3 | 88.4  | 1 | 1 | 1 | 1 | 1 |
| \*文 | 86.00  | 82.00  | 80.00  | 83.00 | 83.00  | 79.00  | 81.00  | 80.0 | 80.9  | 1 | 1 | 1 | 1 | 1 |
| \*涛 | 80.00  | 78.00  | 70.00  | 76.40 | 75.00  | 79.00  | 78.00  | 78.1 | 77.6  | 1 | 1 | 1 | 1 | 1 |
| \*钰 | 90.00  | 89.00  | 88.00  | 89.10 | 89.00  | 88.00  | 87.00  | 88.1 | 88.4  | 1 | 1 | 1 | 1 | 1 |
| \*福 | 87.00  | 85.00  | 84.00  | 85.50 | 85.00  | 83.00  | 84.00  | 83.5 | 84.1  | 1 | 1 | 1 | 1 | 1 |
| \*梦 | 86.00  | 83.00  | 78.00  | 82.70 | 80.00  | 79.00  | 78.00  | 79.1 | 80.2  | 1 | 1 | 1 | 1 | 1 |
| \*体 | 92.00  | 89.00  | 89.00  | 90.20 | 85.00  | 89.00  | 86.00  | 87.9 | 88.6  | 1 | 1 | 1 | 1 | 1 |
| \*瀚 | 85.00  | 83.00  | 80.00  | 82.90 | 82.00  | 85.00  | 83.00  | 84.2 | 83.8  | 1 | 1 | 1 | 1 | 1 |
| \*俊 | 90.00  | 92.00  | 91.00  | 90.90 | 90.00  | 89.00  | 89.00  | 89.2 | 89.7  | 1 | 1 | 1 | 1 | 1 |
| \*金 | 92.00  | 91.00  | 90.00  | 91.10 | 89.00  | 91.00  | 90.00  | 90.5 | 90.7  | 1 | 1 | 1 | 1 | 1 |
| \*承 | 85.00  | 80.00  | 79.00  | 81.70 | 80.00  | 83.00  | 81.00  | 82.2 | 82.1  | 1 | 1 | 1 | 1 | 1 |
| \*丽 | 82.00  | 82.00  | 82.00  | 82.00 | 86.00  | 83.00  | 77.00  | 83.0 | 82.7  | 1 | 1 | 1 | 1 | 1 |
| \*瑾 | 85.00  | 85.00  | 85.00  | 85.00 | 82.00  | 86.00  | 75.00  | 84.1 | 84.4  | 1 | 1 | 1 | 1 | 1 |
| \*方 | 80.00  | 80.00  | 82.00  | 80.60 | 80.00  | 82.00  | 75.00  | 80.9 | 80.8  | 1 | 1 | 1 | 1 | 1 |
| \*俊 | 90.00  | 86.00  | 85.00  | 87.30 | 90.00  | 90.00  | 85.00  | 89.5 | 88.8  | 1 | 1 | 1 | 1 | 1 |
| \*嘉 | 90.00  | 92.00  | 90.00  | 90.60 | 90.00  | 92.00  | 92.00  | 91.6 | 91.3  | 1 | 1 | 1 | 1 | 1 |
| \*祥 | 85.00  | 88.00  | 86.00  | 86.20 | 89.00  | 90.00  | 82.00  | 89.0 | 88.2  | 1 | 1 | 1 | 1 | 1 |
| \*暖 | 88.00  | 90.00  | 82.00  | 86.80 | 82.00  | 85.00  | 89.00  | 84.8 | 85.4  | 1 | 1 | 1 | 1 | 1 |
| \*月 | 90.00  | 88.00  | 86.00  | 88.20 | 87.00  | 86.00  | 89.00  | 86.5 | 87.0  | 1 | 1 | 1 | 1 | 1 |
| \*欣 | 80.00  | 82.00  | 81.00  | 80.90 | 80.00  | 83.00  | 80.00  | 82.1 | 81.7  | 1 | 1 | 1 | 1 | 1 |
| \*观 | 88.00  | 90.00  | 81.00  | 86.50 | 84.00  | 86.00  | 89.00  | 85.9 | 86.1  | 1 | 1 | 1 | 1 | 1 |
| \*禹 | 85.00  | 86.00  | 81.00  | 84.10 | 80.00  | 86.00  | 82.00  | 84.4 | 84.3  | 1 | 1 | 1 | 1 | 1 |
| \*思 | 81.00  | 82.00  | 84.00  | 82.20 | 82.00  | 80.00  | 82.00  | 80.6 | 81.1  | 1 | 1 | 1 | 1 | 1 |
| \*思 | 88.00  | 86.00  | 85.00  | 86.50 | 87.00  | 82.00  | 88.00  | 83.6 | 84.5  | 1 | 1 | 1 | 1 | 1 |
| \*富 | 90.00  | 85.00  | 86.00  | 87.30 | 90.00  | 86.00  | 90.00  | 87.2 | 87.2  | 1 | 1 | 1 | 1 | 1 |
| \*澳 | 86.00  | 84.00  | 80.00  | 83.60 | 82.00  | 85.00  | 87.00  | 84.6 | 84.3  | 1 | 1 | 1 | 1 | 1 |
| \*钊 | 86.00  | 89.00  | 85.00  | 86.60 | 82.00  | 86.00  | 84.00  | 85.0 | 85.5  | 1 | 1 | 1 | 1 | 1 |
| \*昊 | 82.00  | 88.00  | 84.00  | 84.40 | 80.00  | 86.00  | 84.00  | 84.6 | 84.5  | 1 | 1 | 1 | 1 | 1 |
| \*友 | 82.00  | 84.00  | 80.00  | 82.00 | 82.00  | 85.00  | 81.00  | 84.0 | 83.4  | 1 | 1 | 1 | 1 | 1 |
| \*者 | 82.00  | 86.00  | 80.00  | 82.60 | 83.00  | 85.00  | 82.00  | 84.3 | 83.8  | 1 | 1 | 1 | 1 | 1 |
| \*瑾 | 84.00  | 86.00  | 85.00  | 84.90 | 81.00  | 86.00  | 82.00  | 84.6 | 84.7  | 1 | 1 | 1 | 1 | 1 |
| \*梓 | 82.00  | 86.00  | 80.00  | 82.60 | 83.00  | 85.00  | 82.00  | 84.3 | 83.8  | 1 | 1 | 1 | 1 | 1 |
| \*兵 | 80.00  | 82.00  | 80.00  | 80.60 | 78.00  | 82.00  | 81.00  | 81.1 | 81.0  | 1 | 1 | 1 | 1 | 1 |
| \*元 | 86.00  | 89.00  | 86.00  | 86.90 | 88.00  | 86.00  | 84.00  | 86.2 | 86.4  | 1 | 1 | 1 | 1 | 1 |
| \*紫 | 84.00  | 88.00  | 82.00  | 84.60 | 82.00  | 86.00  | 80.00  | 84.6 | 84.6  | 1 | 1 | 1 | 1 | 1 |
| \*馨 | 80.00  | 82.00  | 80.00  | 80.60 | 80.00  | 80.00  | 80.00  | 80.0 | 80.2  | 1 | 1 | 1 | 1 | 1 |
| \*瑞 | 80.00  | 84.00  | 82.00  | 81.80 | 82.00  | 86.00  | 82.00  | 84.8 | 83.9  | 1 | 1 | 1 | 1 | 1 |
| \*华 | 85.00  | 82.00  | 83.00  | 83.50 | 78.00  | 74.00  | 78.00  | 75.2 | 77.7  | 1 | 1 | 1 | 1 | 1 |
| \*萌 | 93.00  | 94.00  | 95.00  | 93.90 | 89.00  | 91.00  | 88.00  | 90.3 | 91.4  | 1 | 1 | 1 | 1 | 1 |
| \*沛 | 93.00  | 92.00  | 95.00  | 93.30 | 90.00  | 90.00  | 93.00  | 90.3 | 91.2  | 1 | 1 | 1 | 1 | 1 |
| \*鹏 | 86.00  | 86.00  | 85.00  | 85.70 | 85.00  | 82.00  | 80.00  | 82.4 | 83.4  | 1 | 1 | 1 | 1 | 1 |
| \*泽 | 93.00  | 91.00  | 92.00  | 92.10 | 87.00  | 89.00  | 88.00  | 88.5 | 89.6  | 1 | 1 | 1 | 1 | 1 |
| \*振 | 85.00  | 78.00  | 83.00  | 82.30 | 78.00  | 75.00  | 82.00  | 76.3 | 78.1  | 1 | 1 | 1 | 1 | 1 |
| \*业 | 85.00  | 80.00  | 80.00  | 82.00 | 80.00  | 75.00  | 75.00  | 76.0 | 77.8  | 1 | 1 | 1 | 1 | 1 |
| \*泓 | 79.00  | 78.00  | 78.00  | 78.40 | 79.00  | 77.00  | 73.00  | 77.0 | 77.4  | 1 | 1 | 1 | 1 | 1 |
| \*海 | 87.00  | 86.00  | 88.00  | 87.00 | 88.00  | 86.00  | 85.00  | 86.3 | 86.5  | 1 | 1 | 1 | 1 | 1 |
| \*竞 | 87.00  | 85.00  | 87.00  | 86.40 | 85.00  | 82.00  | 89.00  | 83.3 | 84.2  | 1 | 1 | 1 | 1 | 1 |
| \*炫 | 90.00  | 90.00  | 91.00  | 90.30 | 88.00  | 86.00  | 89.00  | 86.7 | 87.8  | 1 | 1 | 1 | 1 | 1 |
| \*勇 | 86.00  | 85.00  | 85.00  | 85.40 | 86.00  | 80.00  | 79.00  | 81.1 | 82.4  | 1 | 1 | 1 | 1 | 1 |
| \*鸿 | 88.00  | 89.00  | 89.00  | 88.60 | 84.00  | 85.00  | 87.00  | 85.0 | 86.1  | 1 | 1 | 1 | 1 | 1 |
| \*仕 | 93.00  | 94.00  | 92.00  | 93.00 | 88.00  | 90.00  | 92.00  | 89.8 | 90.8  | 1 | 1 | 1 | 1 | 1 |
| \*龙 | 89.00  | 89.00  | 90.00  | 89.30 | 85.00  | 87.00  | 88.00  | 86.7 | 87.5  | 1 | 1 | 1 | 1 | 1 |
| \*国 | 84.00  | 81.00  | 85.00  | 83.40 | 83.00  | 84.00  | 81.00  | 83.5 | 83.5  | 1 | 1 | 1 | 1 | 1 |
| \*冠 | 80.00  | 79.00  | 80.00  | 79.70 | 84.00  | 81.00  | 81.00  | 81.6 | 81.0  | 1 | 1 | 1 | 1 | 1 |
| \*石 | 91.00  | 91.00  | 93.00  | 91.60 | 87.00  | 86.00  | 84.00  | 86.0 | 87.7  | 1 | 1 | 1 | 1 | 1 |
| \*荣 | 78.00  | 76.00  | 79.00  | 77.70 | 80.00  | 80.00  | 81.00  | 80.1 | 79.4  | 1 | 1 | 1 | 1 | 1 |
| \*秀 | 82.00  | 83.00  | 81.00  | 82.00 | 76.00  | 79.00  | 81.00  | 78.6 | 79.6  | 1 | 1 | 1 | 1 | 1 |
| \*必 | 87.00  | 85.00  | 80.00  | 84.30 | 85.00  | 80.00  | 79.00  | 80.9 | 81.9  | 1 | 1 | 1 | 1 | 1 |
| \*贤 | 85.00  | 81.00  | 82.00  | 82.90 | 80.00  | 80.00  | 79.00  | 79.9 | 80.8  | 1 | 1 | 1 | 1 | 1 |
| \*立 | 85.00  | 82.00  | 81.00  | 82.90 | 84.00  | 82.00  | 81.00  | 82.3 | 82.5  | 1 | 1 | 1 | 1 | 1 |
| \*定 | 83.00  | 82.00  | 81.00  | 82.10 | 81.00  | 80.00  | 75.00  | 79.7 | 80.4  | 1 | 1 | 1 | 1 | 1 |
| \*浩 | 75.00  | 76.00  | 75.00  | 75.30 | 74.00  | 73.00  | 73.00  | 73.2 | 73.8  | 1 | 1 | 1 | 1 | 1 |
| \*文 | 86.00  | 85.00  | 86.00  | 85.70 | 86.00  | 83.00  | 83.00  | 83.6 | 84.2  | 1 | 1 | 1 | 1 | 1 |
| \*开 | 81.00  | 83.00  | 82.00  | 81.90 | 83.00  | 80.00  | 79.00  | 80.5 | 80.9  | 1 | 1 | 1 | 1 | 1 |
| \*庭 | 75.00  | 70.00  | 65.00  | 70.50 | 68.00  | 75.00  | 70.00  | 73.1 | 72.3  | 1 | 1 | 1 | 1 | 1 |
| \*宇 | 62.00  | 70.00  | 61.00  | 64.10 | 62.00  | 72.00  | 60.00  | 68.8 | 67.4  | 1 | 1 | 1 | 1 | 1 |

由上表可知：

1. 总成绩按60分衡量，达成人数为181人，100%总成绩达成；
2. 按子目标进行衡量，定量达成人数为181人，定量实际达成度实际评价值为100%。

进一步结合课程（子）目标对毕业要求指标支撑权重矩阵，依每位同学该门课程（子）目标实际得分，计算对毕业要求指标点的支撑作用量化值，填在下表中。

**课程对指标点支撑作用量化值**

|  |  |
| --- | --- |
| 姓名 | 课程对指标点支撑作用量化值 |
| 指标点1.3 | 指标点4.1 | 指标点12.2 |
| \*贞 | 71  | 71  | 64  |
| \*彦 | 83  | 86  | 77  |
| \*安 | 87  | 86  | 88  |
| \*磊 | 89  | 87  | 84  |
| \*波 | 71  | 73  | 69  |
| \*灿 | 89  | 88  | 91  |
| \*佳 | 72  | 72  | 71  |
| \*卓 | 75  | 73  | 72  |
| \*彰 | 85  | 79  | 80  |
| \*思 | 81  | 78  | 77  |
| \*熙 | 84  | 84  | 81  |
| \*桂 | 84  | 81  | 80  |
| \*鑫 | 86  | 88  | 82  |
| \*忠 | 83  | 85  | 82  |
| \*志 | 88  | 87  | 88  |
| \*茜 | 90  | 89  | 88  |
| \*德 | 81  | 82  | 82  |
| \*润 | 90  | 91  | 90  |
| \*光 | 82  | 82  | 81  |
| \*应 | 89  | 90  | 89  |
| \*树 | 86  | 86  | 84  |
| \*依 | 86  | 85  | 81  |
| \*新 | 80  | 82  | 81  |
| \*茂 | 83  | 83  | 81  |
| \*礼 | 89  | 88  | 87  |
| \*华 | 88  | 85  | 87  |
| \*清 | 80  | 82  | 82  |
| \*浩 | 89  | 88  | 88  |
| \*年 | 87  | 89  | 84  |
| \*贵 | 86  | 84  | 81  |
| \*泳 | 82  | 92  | 87  |
| \*萍 | 88  | 89  | 85  |
| \*集 | 86  | 87  | 82  |
| \*叶 | 92  | 94  | 90  |
| \*恩 | 87  | 88  | 82  |
| \*文 | 87  | 88  | 85  |
| \*宗 | 87  | 87  | 82  |
| \*杰 | 86  | 87  | 84  |
| \*智 | 85  | 87  | 83  |
| \*武 | 86  | 84  | 83  |
| \*辰 | 92  | 94  | 91  |
| \*景 | 86  | 88  | 85  |
| \*国 | 81  | 81  | 80  |
| \*秀 | 87  | 88  | 85  |
| \*上 | 89  | 91  | 87  |
| \*雨 | 91  | 91  | 88  |
| \*章 | 85  | 91  | 89  |
| \*方 | 89  | 92  | 88  |
| \*子 | 61  | 71  | 61  |
| \*泳 | 60  | 69  | 60  |
| \*雅 | 76  | 83  | 83  |
| \*盈 | 78  | 73  | 81  |
| \*婧 | 92  | 90  | 93  |
| \*琼 | 80  | 75  | 71  |
| \*强 | 76  | 73  | 75  |
| \*晗 | 74  | 73  | 72  |
| \*成 | 82  | 85  | 80  |
| \*瑜 | 74  | 70  | 75  |
| \*德 | 70  | 72  | 69  |
| \*永 | 93  | 89  | 88  |
| \*彦 | 76  | 76  | 77  |
| \*兴 | 85  | 86  | 83  |
| \*山 | 74  | 79  | 81  |
| \*俊 | 89  | 87  | 85  |
| \*佳 | 77  | 80  | 76  |
| \*海 | 84  | 88  | 83  |
| \*金 | 67  | 69  | 63  |
| \*溢 | 81  | 80  | 78  |
| \*栊 | 92  | 89  | 84  |
| \*右 | 79  | 80  | 78  |
| \*君 | 76  | 79  | 82  |
| \*世 | 89  | 90  | 88  |
| \*晓 | 86  | 90  | 92  |
| \*丽 | 84  | 88  | 86  |
| \*冬 | 90  | 90  | 88  |
| \*莹 | 80  | 80  | 78  |
| \*燕 | 77  | 75  | 74  |
| \*鸿 | 88  | 89  | 88  |
| \*炳 | 89  | 87  | 85  |
| \*浩 | 78  | 76  | 78  |
| \*金 | 84  | 84  | 79  |
| \*瑶 | 83  | 87  | 81  |
| \*焕 | 89  | 88  | 87  |
| \*川 | 89  | 90  | 87  |
| \*亦 | 74  | 75  | 76  |
| \*阿 | 75  | 76  | 81  |
| \*帆 | 75  | 78  | 82  |
| \*情 | 74  | 76  | 76  |
| \*仁 | 79  | 76  | 79  |
| \*宏 | 89  | 92  | 88  |
| \*文 | 87  | 88  | 85  |
| \*伟 | 92  | 90  | 90  |
| \*煜 | 82  | 87  | 83  |
| \*镜 | 91  | 94  | 88  |
| \*海 | 79  | 78  | 75  |
| \*昌 | 81  | 87  | 77  |
| \*俊 | 75  | 71  | 70  |
| \*嵘 | 91  | 92  | 90  |
| \*安 | 92  | 90  | 90  |
| \*璧 | 93  | 95  | 92  |
| \*梓 | 85  | 82  | 82  |
| \*池 | 93  | 94  | 90  |
| \*灿 | 94  | 94  | 91  |
| \*奕 | 93  | 95  | 91  |
| \*耀 | 89  | 90  | 88  |
| \*昌 | 89  | 88  | 88  |
| \*华 | 90  | 89  | 87  |
| \*思 | 91  | 89  | 88  |
| \*桂 | 88  | 87  | 85  |
| \*凯 | 91  | 90  | 89  |
| \*春 | 89  | 90  | 88  |
| \*粤 | 93  | 93  | 91  |
| \*洁 | 90  | 91  | 89  |
| \*渭 | 88  | 87  | 86  |
| \*启 | 89  | 86  | 87  |
| \*柏 | 88  | 89  | 87  |
| \*文 | 84  | 79  | 80  |
| \*涛 | 77  | 79  | 74  |
| \*钰 | 89  | 88  | 88  |
| \*福 | 86  | 83  | 84  |
| \*梦 | 83  | 80  | 78  |
| \*体 | 88  | 89  | 88  |
| \*瀚 | 83  | 85  | 81  |
| \*俊 | 90  | 89  | 90  |
| \*金 | 90  | 91  | 90  |
| \*承 | 82  | 83  | 80  |
| \*丽 | 84  | 83  | 80  |
| \*瑾 | 83  | 86  | 81  |
| \*方 | 80  | 82  | 79  |
| \*俊 | 90  | 89  | 85  |
| \*嘉 | 90  | 92  | 91  |
| \*祥 | 87  | 90  | 84  |
| \*暖 | 85  | 86  | 85  |
| \*月 | 88  | 86  | 87  |
| \*欣 | 80  | 83  | 81  |
| \*观 | 86  | 87  | 85  |
| \*禹 | 82  | 86  | 81  |
| \*思 | 82  | 80  | 83  |
| \*思 | 87  | 83  | 86  |
| \*富 | 90  | 86  | 88  |
| \*澳 | 84  | 85  | 83  |
| \*钊 | 84  | 86  | 85  |
| \*昊 | 81  | 86  | 84  |
| \*友 | 82  | 85  | 80  |
| \*者 | 83  | 85  | 81  |
| \*瑾 | 82  | 86  | 84  |
| \*梓 | 83  | 85  | 81  |
| \*兵 | 79  | 82  | 80  |
| \*元 | 87  | 86  | 85  |
| \*紫 | 83  | 86  | 81  |
| \*馨 | 80  | 80  | 80  |
| \*瑞 | 81  | 86  | 82  |
| \*华 | 81  | 75  | 81  |
| \*萌 | 91  | 91  | 92  |
| \*沛 | 91  | 90  | 94  |
| \*鹏 | 85  | 83  | 83  |
| \*泽 | 90  | 89  | 90  |
| \*振 | 81  | 75  | 83  |
| \*业 | 82  | 76  | 78  |
| \*泓 | 79  | 77  | 76  |
| \*海 | 88  | 86  | 87  |
| \*竞 | 86  | 82  | 88  |
| \*炫 | 89  | 87  | 90  |
| \*勇 | 86  | 81  | 82  |
| \*鸿 | 86  | 86  | 88  |
| \*仕 | 90  | 91  | 92  |
| \*龙 | 87  | 87  | 89  |
| \*国 | 83  | 84  | 83  |
| \*冠 | 82  | 81  | 80  |
| \*石 | 89  | 87  | 89  |
| \*荣 | 79  | 79  | 80  |
| \*秀 | 79  | 80  | 81  |
| \*必 | 86  | 81  | 80  |
| \*贤 | 82  | 80  | 81  |
| \*立 | 84  | 82  | 81  |
| \*定 | 82  | 80  | 78  |
| \*浩 | 74  | 73  | 74  |
| \*文 | 86  | 83  | 85  |
| \*开 | 82  | 80  | 81  |
| \*庭 | 71  | 74  | 67  |
| \*宇 | 62 | 72 | 61 |

**三、课程子目标和目标达成情况分析**

针对每个课程子目标，生成达成情况分布图，如图1所示，图中也出了各子目标期望值所在的水平直线，由于全部学生均达成，所以所有的成绩均在及格线以上。不过，也可看出，部分学生的成绩是在60分边缘，能力欠佳，需要针对这一部分学生加强引导。

图1 课程子目标达成情况分布图

同样针对课程目标生成总体达成情况分布图，如图2所示，图中也画出课程期评成绩期望值“及格”所在的水平直线，，由于全部学生均达成，所以所有的成绩均在及格线以上。不过，也可看出，部分学生的成绩还是存在着较显著的差异度，需要针对这一部分学生在课程总体上加强督促引导。

图2 课程总体达成情况分布图

针对所修课程的全体学生，画出子目标达成度柱状图，如图3所示，所有的目标均达成了。

图3 课程各子目标达成情况定量分析

不过从平时调研得分、期末考核得分以及期评得分的分布及分数段，如图4所示，所有的分布基本符合正态分布。图5给出了平时调研得分、期末考核得分以及期评得分的箱线图，从此图中学生成绩分布情况来看，数据在中位数左右分布比较一致，科技论文写作实训的考核难易程度适中，符合教学大纲的要求。从学生的期末考核（文献综述）情况来看，部分同学已经扎实的掌握了论文写作技巧，但由于大部分同学还缺少论文写作的经验，所以学生得高分的并不多。







图4 平时调研得分、期末考核得分以及期评得分的分布及分数段

图 4 学生成绩统计箱线图

**四、课程（子）目标对毕业要求指标点的支撑作用分析**

课程对指标点1.3的支撑作用量的均值为84，标准差是6.3，标准误差为0.5；课程对指标点4.1的支撑作用量的均值为84，标准差是6，标准误差为0.4；课程对指标点12.2的支撑作用量的均值为83，标准差是6.4，标准误差为0.5。说明课程目标对各项指标的支撑是比较强的，且支撑作用基本相当。

**五、上一期开课问题的改进情况说明**

本课程是2017版培养计划新开设课程。

**六、问题总结和持续改进策略与方法**

开展科技写作实训有利于学生对科学研究和专业问题的学习和掌握，更重要的是可以培养学生良好的科学研究态度、严谨的科学作风和勇于创新的思维意识，以促进学生的后续学习。结合教师团队的情况、学生的意见和建议，由课程子目标和目标达成情况分析得到的结果对存在的问题进行总结：

1．文献搜集的质量不高，且遗漏重要观点：有些学生由于资料搜集范围或方法不当，未能将有代表性的资料完全纳入研究的范围，或仅仅根据自己的喜好选择材料。其结果便是不能系统全面地把握研究现状，或片面理解他人研究结果，从而盲目地认为某问题或领域尚未被研究，使得自己的研究变成一种重复性的劳动。

2．文献阅读不深入，简单罗列，“综”而不“述”：撰写综述必须充分理解已有的研究观点，并用合理的逻辑（或是时间顺序、或是观点的内存逻辑相似程度等将它们准确地表述出来。当前收缴的文献综述报告中，部分学生综述仅仅是将前人的观点罗列出来而未进行系统分类、归纳和提炼，内容相对杂乱，缺乏内在的逻辑。这样不利于理清已有研究结果之间的关系，难以认清某问题研究的发展脉络、深入研究、存在的问题等。而且大量学生虽然陈述了他人的观点，但达不到通过分析、评说而发现研究内容的关键问题。

3．个人观点在综述中占主体：有些学生在综述中对研究现状的梳理和介绍只是一笔带过，用大量的篇幅进行评述，进而提出自己的研究设想，结果将文献综述写成了评论或研究计划。综述的重点在于“综”，即其主要部分应是对前人观点的客观阐程和分析；个人观点，即适当“述”，可以起到点睛式的评论或启示的作用，但不应是主体。一部分学生没有注意到上述问题。另外，部分学生对于文献的观点和评述不严谨：综述提炼的观点必须以原始文献为依据，不能把观点强加给原作者。有些学生的综述中并不能使读者分清哪些是原作者的观点，哪些是综述者本人的观点，都混杂在了一起。

4．论文格式不规范：①少部分同学的论文中英文专用名词没有用Time New Roman字体规范化。②参考文献的引用问题：部分学生的参考文献未按文中引用顺序在正文后的“参考文献”部分引出，正文相应的位置的上标准确，少部分同学的综述作业中引用的文献忘记了上标。③部分英文缩写词第一次出现的时候未给出全称。④图表格式不规范：图表中的字体大小不同、清晰度不够、引用其他文献的图未标注等。

**改进措施：**

1．将科技论文写作与毕业设计课题结合起来，指导教师要加强学生文献调研要求，对调研专题尽量可以做到质量高，重要观点和进展全。

2．在教师指导过程中，引导学生如何归纳总结（综）以及如何评述。

3．在教师指导过程中，强调学术道德与规范，加强课程思政。

4．建议在下一版培养计划中安排理论学时，讲授科技论文写作的目的和意义、步骤、基本要求、格式、书写规范、语法修辞、学术道德等内容，同时引入一些文章实例，之后再安排科技论文写作专题实训。

任课教师(签名)：\_\_\_\_\_\_\_\_\_\_\_

教研室、系负责人(签名)：\_\_\_\_\_\_\_\_\_\_\_

学院主管领导(签章)：\_\_\_\_\_\_\_\_\_\_\_

年 月 日