Follow-up Survey Report on Graduates of the Electrical Enginee- ring and Automation Program, School of Mechanical and Electri- cal Engineering, Kunming University (Class of 2023–2025)

I. Overview of the Survey

1.1 objective of survey

Establish a regularized follow-up survey system for graduates and a social evaluation mechanism to periodically monitor and evaluate the extent to which the talent cultivation objectives are achieved; to gather information on graduates' employment status, career development, job adaptation capabilities, and work performance; to analyze and assess whether the professional talent cultivation objectives are scientifically sound and accurate; whether the graduation requirements align with the needs of socio-economic development; whether the curriculum plan, course syllabi, teaching content, faculty resources, and supporting facilities meet the requirements for professional talent cultivation; as well as to collect feedback from relevant stakeholders—including employers and industry enterprises—regarding their evaluations of graduates. This approach enables timely identification of issues arising during the talent cultivation process and facilitates continuous improvement, ultimately achieving the educational objectives ofthe Electrical Engineering and Automation program.

1.2 respondent

The sampled graduates from the Electrical Engineering and Automation program at the college for the 2023–2025 cohorts total 116 students, accounting for 42.8% of the total graduates in this major. The survey covered 81 employers in the power, thermal, and gas sectors, including China Southern Power Grid, Huaneng, and Guodian.

1.3 Survey Method and Timing

In accordance with the requirements of the "Notice of Kunming University on the Issuance of the Implementation Measures for the Follow-up Survey of Graduates and Social Evaluation," the college shall conduct a follow-up survey for previous graduating cohorts, in principle, once per cohort; the specific survey period is generally scheduled between May and December each year. The survey will be conducted via an online questionnaire administered through a third-party platform, using the annual employment data compiled by the Recruitment and Employment Department as of December 31 of each year as the benchmark for the survey.

1.4 Sample recovery status

Number of questionnaires distributed: 116 student questionnaires and 81 employer questionnaires Number of valid responses: 76 student questionnaires and 64 employer questionnaires Effective recycling rate: 65.52% (students), 79.01% (employers)

II. Overview of Graduate Employment Status

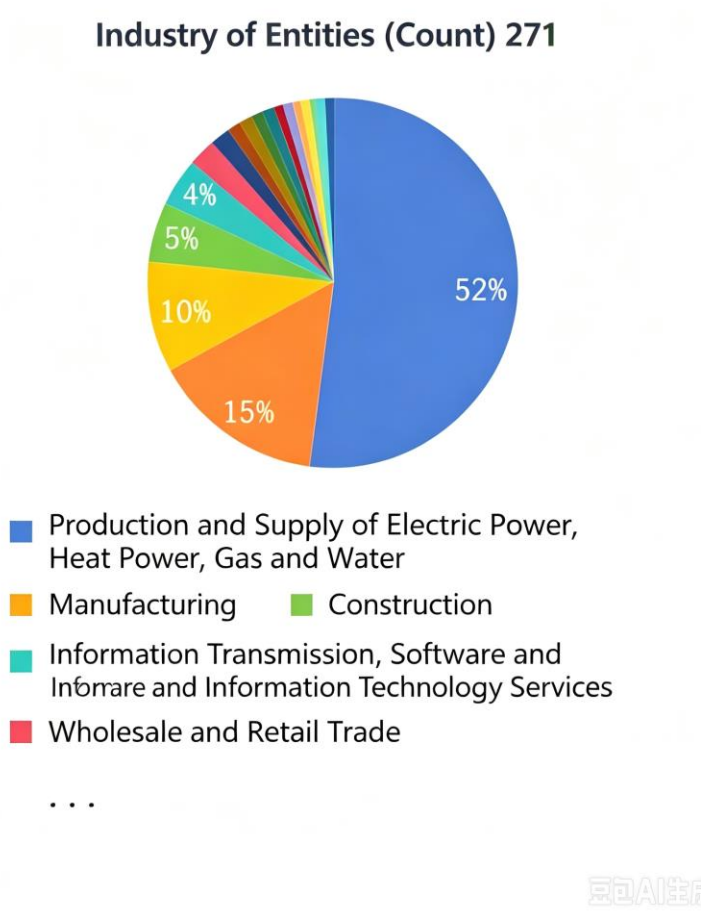
The college adheres to a talent cultivation philosophy centered on "student-centered approach, outcome-oriented methodology, and continuous improvement"; it strengthens ideolog- ical guidance and enhances the quality of talent cultivation; leveraging engineering education program accreditation as a key driver, the college collaborates with various partner institutions to establish internship bases; utilizes the resource advantages of enterprises to expand internship and employment channels for students; fully leverages university-enterprise cooperation platforms to broaden extracurricular activities; and enhances students 'engineering practice, innovation, and entrepreneurial capabilities. This approach fosters a "triple-spiral" collaborative education mechanism involving "university–enterprise–government"; refines the employment guidance and support mechanisms for graduates; provides targeted assistance to students facing employment challenges; and ultimately improves both the overall employment rate and the alignment rate between graduates' positions and their career expectations.

2.1 Graduation Destination Distribution

Class	Number / Proport-ion		
	Class of 2023	Class of 2024	Class of 2025
Graduation Employment Place- ment Rate	65/66，98.49%	101/105，96.19%	98/100，98%
Employme nt rate by sector	53/66，80.30%	81/105，77.14%	68/100，68%
Self-employment rate	0/66，0%	2/105，1.9%	1/100，1%
Freelancing Rate	0/66，0%	0/105，0%	0/100，0%
Enrolment rate	8/66，12.12%	6/105，5.71%	4/100，4%
Temporary Unemploy ment Rate	0/66，0%	0/105，0%	0/100，0%
Unemployment Rate	1/66，1.52%	4/105，3.81%	2/100，2%
Flexible employmen	3/66，4.55%	12/105，11.43%	25/100，25%

t rate			
Policy-based positions	1/66，1.52%	0/105，0%	0/100，0%

2.2 Employment Sectors of 271 Graduates; Names of Major Employers



China Southern Power Grid Yunnan Electric Power Co., Ltd. offers employ- ment to 87 individuals, accounting for 32. 1%; Huadian Group offers employment to 9 individuals, accounting for 3.3%.

Datang Yunnan Power Generation Co., Ltd. employs 9 people, accounting for 3.3%; other sectors in the power, heating, and gas industries employ 26 people, accounting for 9.59%.

2.3 Professional Alignment Rate

College Name	Specialty	Professional Alignment Rate
School of Mechanical and Electrical Engineering	Electrical Engineering and its Automation	93.33%
	Mechanical Design, Manufacturing and its Automation	63.89%
	Transportation Engineering	30.77%
School of Mechanical and Electrical Engineering	Electrical Engineering and its Automation	92.54%
	Mechanical Design, Manufacturing and its Automation	87.88%
	Intelligent Manufacturing Engineering	61.54%

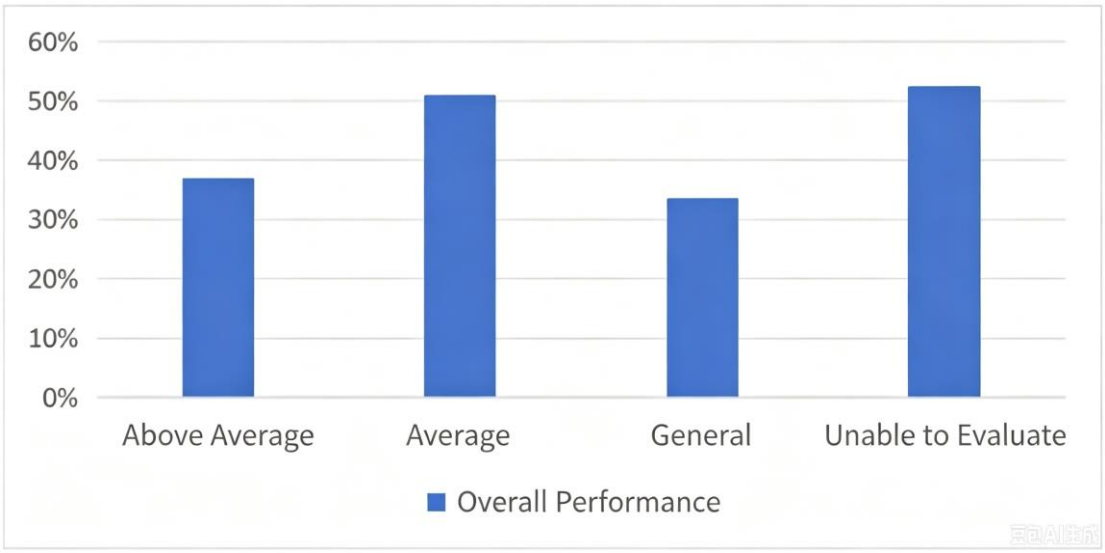
Data source: Third-party institution Xinjincheng − Survey on Graduate Employment and Training Quality (the same applies hereinafter).

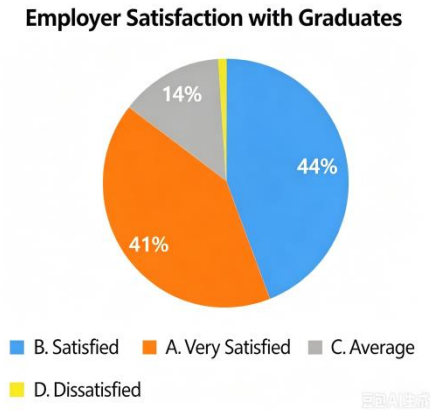
2.3 Graduates' Job Satisfaction

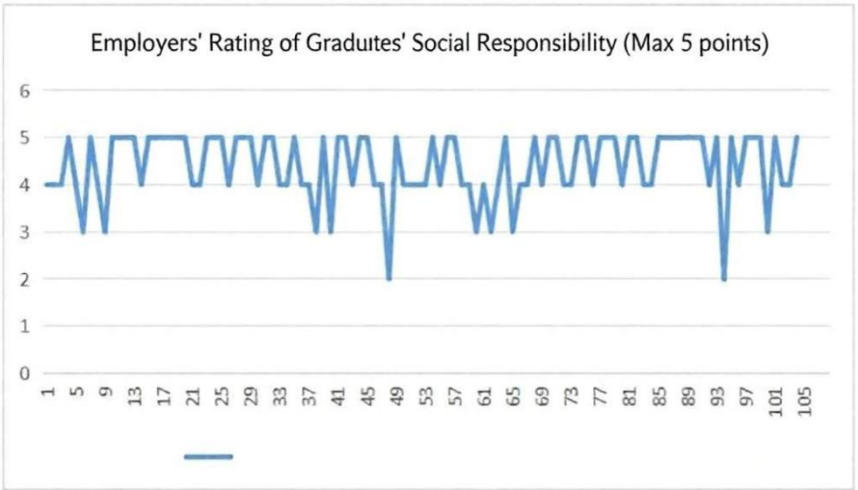
Name of major	Job content Degree of sat-isfactio n	Compensat ion Degree of sat-isfactio n	Career Prospe- cts Satisfaction	Overall Satisfa-ction
Electrical Engineering and Aut- omation	91.89%	79.48%	84.17%	92.34%

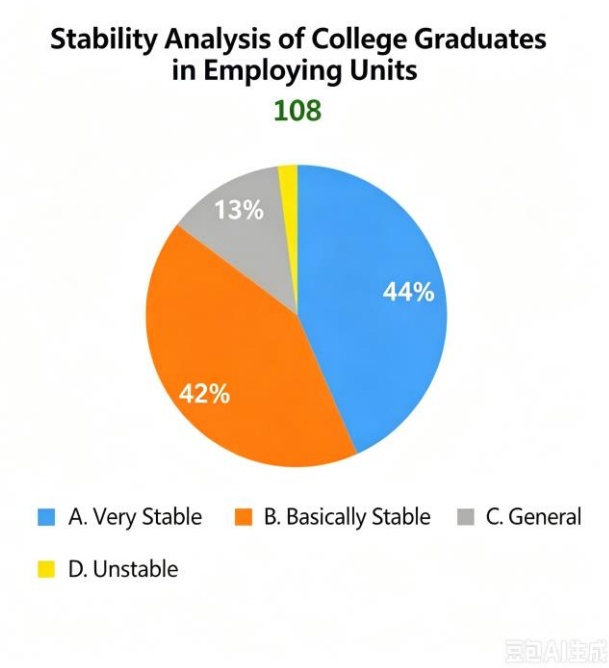


2.4 Employer Evaluation







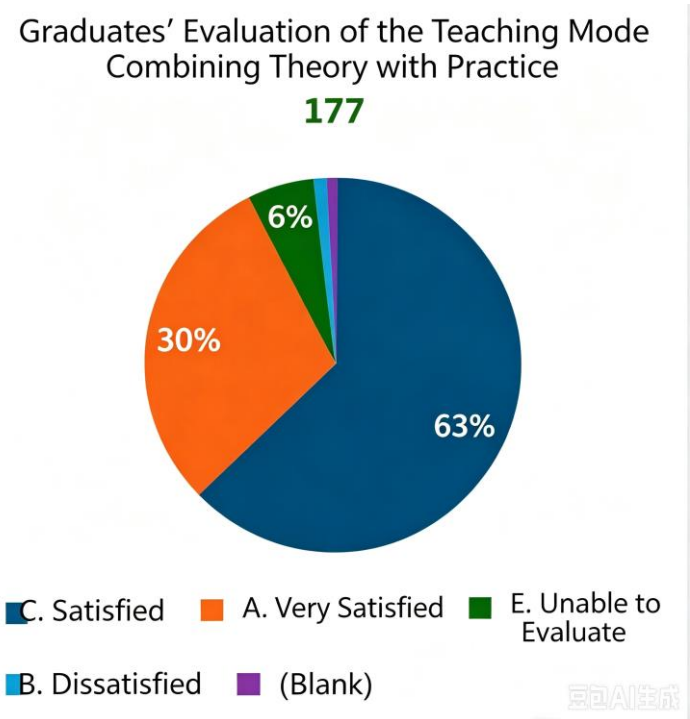


Key Highlights: Jointly establishing an Electric Power System Analysis Laboratory in collaboration with Guodian Yangzonghai Power Plant

The department serves enterprises in sectors such as provincial power generation, new energy, and new materials; focusing on equipment for the power industry and traditional technological upgrades, it has undertaken more than 10 enterprise engineering projects, with over 100 graduates participating in scientific and technological services to society.

III. Talent Development Feedback

3.1 Graduates' Evaluation of the Theory-Practice Integration Teaching Model



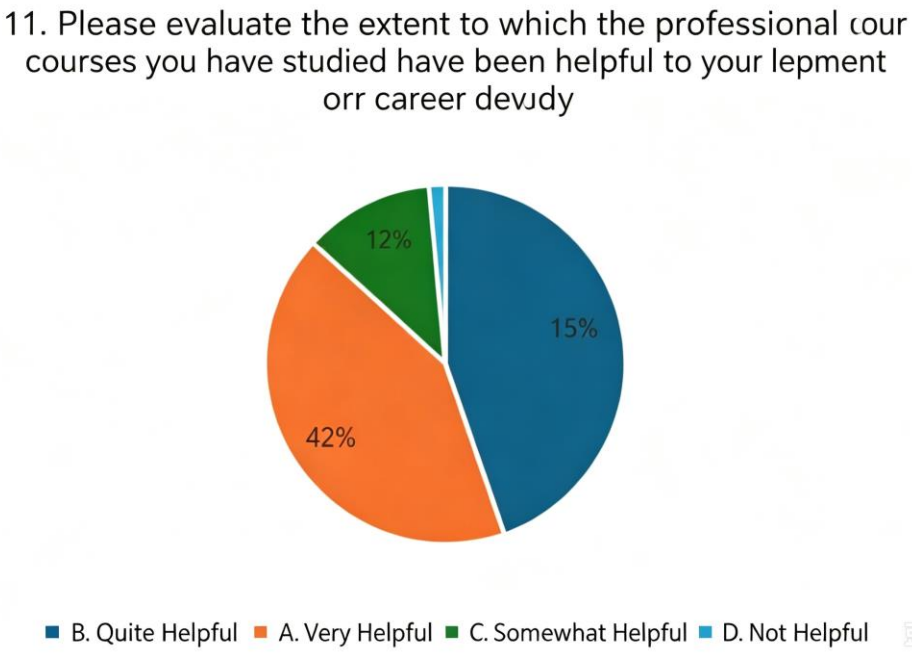
3.2 Evaluation of the achievement of graduate talent cultivation objectives: Competencies and General Skills (Maximum score: 5 points)



3.3 Evaluation of the achievement of graduate talent cultivation objectives: Professional Competence (Maximum score: 5 points)

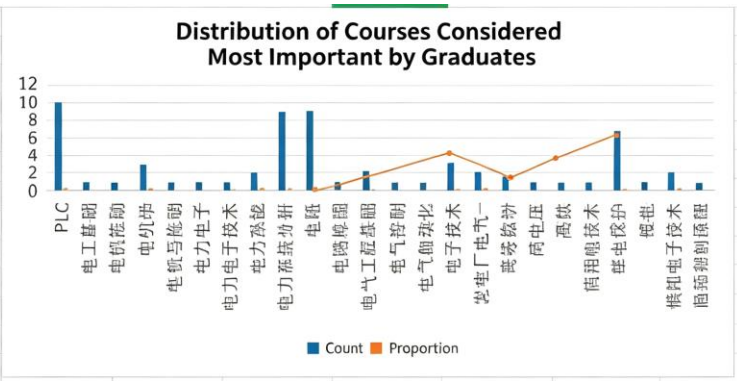


3.4 Graduates' Perception of the Most Important Courses for Career Development



12. According to your perception, count

Course	Count	Proportion
PLC	1	1.3%
Electrical Engineering Fundamentals Motor Control	1	1.3%
Motor Control	3	3.9%
Electrical Engineering Motor & Control	3	1.3%
Electrical Engineering	1	1.3%
Motor & Control	1	1.3%
Electrical Power Electrical Power Technology	2	2.6%
Electrical Power System Analysis	9	11.8%
Circuit Analysis	9	11.8%
Circuit Principis	1	1.3%
Circuit Principle Electrical Engineering Basics	2	2.6%
Electrical Control	1	1.3%
Electrical Automation	1	1.3%
Electronic Technology Electrical Control	3	3.9%
Electricant Tectrical Section	2	2.6%
Advanced Mathemation Advanced Mathematics	1	1.3%
High Voltage	1	1.3%
Higher Mathematics	1	1.3%
Power Supply Technology	1	1.3%
Relay Protection	7	9.3%
Andog Electronics	1	1.3%
Anlong Electronic Technology	2	2.3%
Automatic Control Principle	1	1.3%



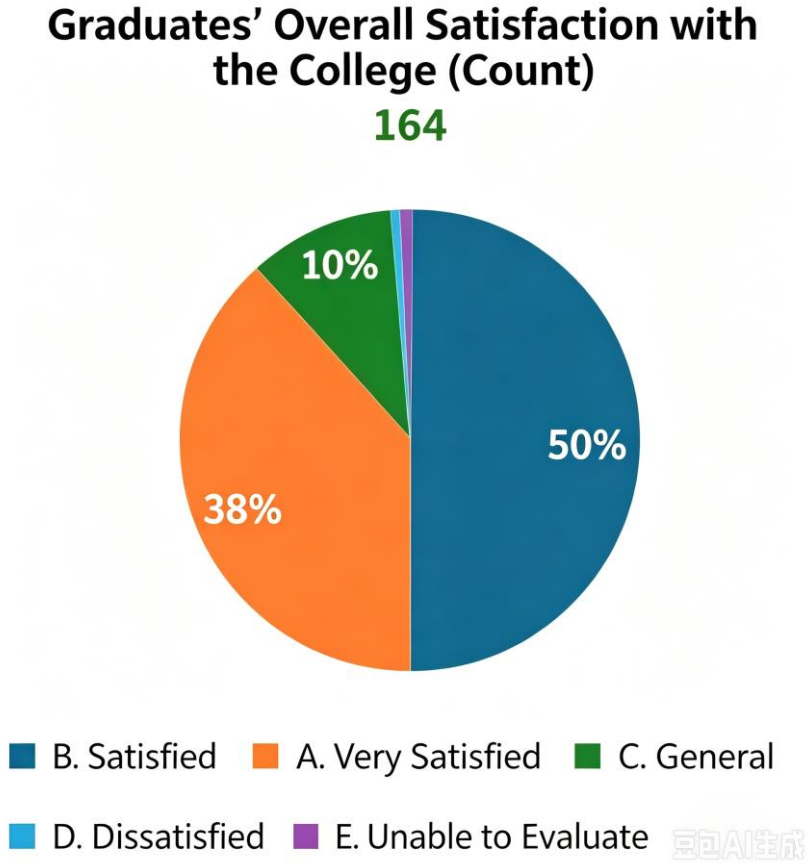
3.5 Employer's comments on the revision of the college's talent cultivation program

Employers' Satisfaction with Talents
Theory-oriented, practice-supplemented.
Do not detach from society
Connect with current corporate employment reality, adopt theory-practice integrated teaching, and cultivate marketable skills by skilles by oeration.
Professional certification alignment.
For personel with knowledge and experts, mak the besst best use of in their strengthis, fin he thuith to mprove work efficiance.
Ontinuce ve students' comprehensive quality.
Corpperate with more enterprises to provide positions for employment promotion.
Enterprises hope that schools organize special corporate promotion meetings to let students understand enterprises in aduw.
Unclear personal development direction.
Add lerning of worktical courses be integrated with actual knowledge
Sugest that practical coursest loe prnical actual business.
Surrgest more practties to enhance employability
Jl therry out multi-directional, multi-channel, and more stuiriet mo mavemei loortuiuiy, ins tinde strenths, fully mobillize their inteudenicwing, and o of vermuy ony fivhees aowites, acothvitvees tor enterprinent neriociation.
Strengthe ompulve dislciance.
Encturage students to participate in internships, find their possitions in work ourt various belcreinc employment dituation.
Hagest continuing to recruit Safety Engineering majors, thank you.
Anhance students' self-learning ability, the [illegible] courses are situak you.
Atrengthen professional training, professional curses are too weak!
Hope that students do not aim too high, sugest that everyone do what they e can, have a stable job is fine, do not pick ank.
Supervise
Targeted recommendation, carry out special sessions with more enterprises.
Cultivate students' diversified employment concepts, cultivate stress resistance, courage to career planning as much as possible.
Let students' stability is not strong enough, and communication dicult in the recruitment stage is high
Integration of theory and practice.
Integration of theory and practice.

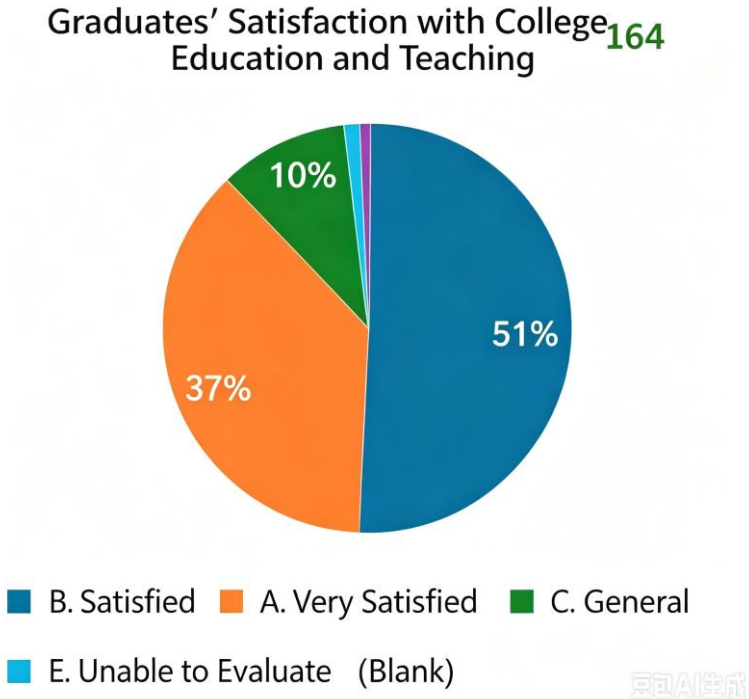
用人单位对学院人才培养修订的意见
理论为主，实操为辅
不要脱离社会
联系当下企业用人实际，采用理论实操结合授课，多培养学生企业所需技能。
专业对口考证
加大实训设备投入，丰富实训课程。
对于有知识专长的人员应当用人之长，充分调动起他们内在的积极性，努力提高工作效率。
继续提升学生综合素质。
多和企业合作提供岗位促就业
企业希望学校组织企业专项宣讲会，让学生提前了解企业，消除学生对企业就业的陌生感。
个人发展方向不明确
加上工作常识的学习比如买社保之类的实用知识
建议实践课程贴合实际业务
多开展实践活动，增强就业能力
开展多方向，多渠道、并更应该随着市场需求指导学生开展各项就业指导学习。并为企业招聘开发多种多样的活动和便利。
加强就业引导
多鼓励同学们参与到实习中去，在实习中寻找自己在工作中的定位，锚定发展方向，寻找合适职业。
建议继续招收安全工程专业，谢谢
增强学生自我学习能力和对当前就业形势的认知和判断。
加强对专业课程的培训，专业课程太薄弱了！！
希望同学们不要眼高手低，建议大家量力而行，能有个安稳的工作就可以了，不要挑三拣四的，到最后啥也没获得
暂无
定向推荐，多组织企业开展专场
培养学生多元化就业理念、培养抗压能力，勇于挑战的勇气以及主动学习的态度。
尽可能让学生参与与自身职业规划相关的企业的实习实训
学生稳定性不够强，招聘阶段沟通难度高
理论与实践相结合

IV. Satisfaction and Recommendation Rating for the Alma Mater

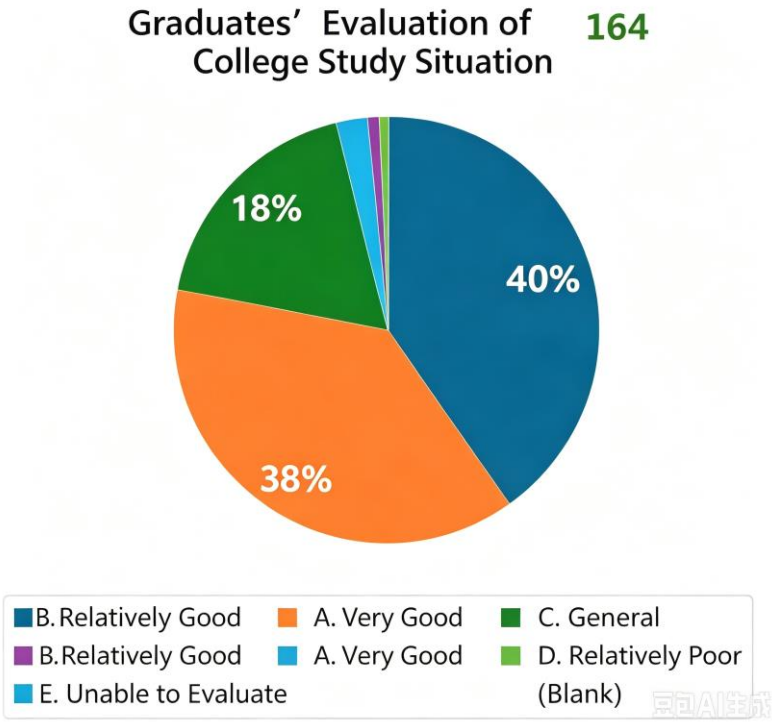
4.1 Graduates' Overall Satisfaction With the College



4.2 Graduates 'satisfaction with the college's education and teaching services

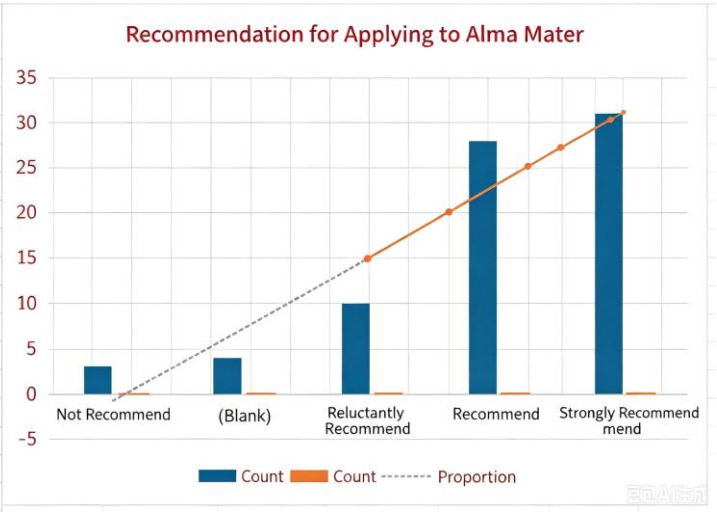


4.3 Graduates 'Evaluation of the College's Academic Atmos- phere



4.4 Would You Be Willing to Recommend Applying to Your Alma Mater to Your Friends and Family?

47. Would you recommend nmend your Alma Alma Mater to others?	Count	Proportion
Not Recommend	3	3.9%
(Blank)	4	5.3%
Reluctantly Recommend	10	13.2%
Recommend	20	36.8%
Strongly Recommend	31	40.8%



V. Existing Problems and Rectification Measures

4.1 existing problem

1. The curriculum design for specialized courses is not yet sufficiently well- structured; some courses are overly theoretical and lack practical components, which results in low student interest during the learning process, leading to a weak foundation in theoretical knowledge over the four-year program and inadequate practical hands-on skills.

2. There is a gap between professional education and the demands of industry and enterprises. Currently, the professional skill training provided to graduates of the Electrical Engineering and Automation program needs to be seamlessly aligned with the job responsibili- ties and professional competencies required by enterprises, enabling them to commence their work roles in the shortest possible timeframe. Additionally, the college has failed to achieve tangible results in its efforts to expand employment channels through "going global" initiatives.

3. The proportion of students applying for postgraduate programs is relatively low; coupled with insufficient preparation by some students prior to the examination, both the cutoff score threshold and the admission rate for postgraduate studies remain low, resulting in a low postgraduate enrollment rate among undergraduates from the Class of 2023—1.24 percentage points below the university's average level.

4.2 measures of making corrections

1. By closely aligning with societal and market demands for talent and in conjunction with engineering education program accreditation, we will continue to refine the 2023 version of the talent cultivation plan, ensuring that "the evaluation process drives teaching improvement, facilitates continuous reform, and strengthens institutional capabilities."

2. We will strengthen the organizational leadership of postgraduate entrance examination preparation efforts, guiding students to adopt a "early and long-term preparation" approach; we will provide guidance on developing effective study plans, enabling students to intensify their exam preparation, with the aim of maintaining a steady increase in the postgraduate admission rate for the Class of 2026 undergraduate students.

3. We will further strengthen employment guidance for graduates, guiding them to make full use of opportunities such as off-campus internships to enhance their practical experience, improve their job-seeking skills and capabilities, and leverage the South African Tshwana University of Technology to achieve breakthroughs in overseas employment.

VI. Annexes

Appendix 1: Graduate Follow-up Survey Questionnaire

Appendix 2: Employer Survey Questionnaire

Appendix 3: Survey Results of Electrical Engineering Majors Graduates from the School of Mechanical and Electrical Engineering over the Past 3 Academic Cycles

Appendix 4: Original data from the recent three cohorts' employer follow-up survey conducted by the School of Mechanical and Electrical Engineering

Appendix 5: Employment Information for Graduates of the Electrical Engineering Program, School of Mechanical and Electrical Engineering, Class of 2023–2025