

A Study to Evaluate Institutional Disparities in Professional Education from Stakeholder Perspectives

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Abstract

People generally agree that education is a major factor in personal growth, social mobility, and economic progress. Nonetheless, inequities in professional education—spanning infrastructure, instructor quality, placement possibilities, and socio-economic accessibility—persist in hindering equal learning outcomes. The current study examines inequalities in the professional education system by analysing infrastructural, academic, placement-related, and socio-economic aspects. Using a cross-sectional descriptive study design, data were gathered from 280 participants. Quantitative analysis, employing percentage distributions and reliability evaluation through Cronbach's Alpha ($\alpha = 0.89$), validated the measuring instrument's robustness. The results show clear differences in access to technology, labs, libraries, faculty experience, student-to-faculty ratios, research mentorship, job placement options, partnerships with businesses, and internship availability. Socio-economic and gender issues further increase imbalances, notably favouring metropolitan pupils and those from financially fortunate households.

Keywords:

I. INTRODUCTION

The human capital of a country is greatly influenced by professional education. Not only does education lead to better paying jobs, but it also helps people move up the social ladder, expand their minds, and come up with new ideas. Professional education has grown swiftly in India and throughout the world in the last several decades, with programs covering a wide range of disciplines from medical and engineering to law and business management, as well as newer ones like data science, biotechnology, and artificial intelligence. The expansion of educational institutions has broadened people's access to information and training, but it has also brought to light large gaps in professional education's accessibility, quality, and results. The historical, socioeconomic, and institutional causes of these discrepancies are significant, and they have far-reaching consequences for society, students, and teachers.

When schools differ in important ways, such as in terms of funding, physical plant, instructional methods, course content, staff credentials, research results, and student achievement, this is called an institutional disparity. Regulatory frameworks controlling professional certifications, the high expense of further training, and the specialised character of many professional education programs make these gaps more apparent. In terms of financing, faculty recruitment, access to research opportunities, and industry links, elite universities, which are generally found in metropolitan areas, have major advantages. The quality of education and graduates' employability are both negatively affected by institutions in rural or impoverished locations due to insufficient resources, obsolete facilities, inadequate professors, and weak industry links. Disparities in educational opportunities exacerbate existing socioeconomic inequalities and prevent bright kids from achieving their full potential.

When funds are not distributed fairly, it can lead to institutional inequities. There are typically limitations on infrastructure expansion, adoption of cutting-edge technology, and recruitment of highly qualified teachers at public professional universities that get the majority of their funding from the government. Despite the fact that certain public schools uphold rigorous standards as a result of their unique history or position, the majority of public schools fail to offer students an education on par with independent schools that attract students through tuition and other forms of private funding. However, private professional colleges often run on a profit-driven paradigm, which can lead to worse educational quality, more tuition, and more socioeconomic isolation, even when they have access to large financing. Therefore, existing disparities are further solidified, and students from marginalised groups frequently face the challenge of affording a high-quality education.

There is also a difference in the availability and quality of faculty at different institutions. Prominent universities with ample resources, such as research funds, competitive wages, and chances for professional growth, tend to attract highly skilled and experienced teachers. The quality of instruction, mentorship, and research advisory services suffers when underfunded institutions struggle to recruit and maintain such expertise. Differences in curricular relevance and pedagogical effectiveness are further consequences of the inequality in instructor quality. It is more probable that courses at institutions with world-class professors will be updated to

reflect industry trends, that experiential learning opportunities will be integrated, and that research and innovation will be fostered. On the other hand, schools that don't have enough knowledgeable professors could stick to old methods of instruction and outmoded course materials, making their students less prepared for the workforce.

The discrepancies across institutions are further exacerbated by differences in infrastructure and availability to new learning resources. Virtual libraries, state-of-the-art labs, and other tech-enabled learning spaces are becoming more important in professional education. Access to cutting-edge technology, practical case studies, and opportunities for student-institution and industry-partner collaboration are among advantages enjoyed by students at financially stable schools. Institutions that lack proper infrastructure, on the other hand, restrict students to purely theoretical subjects, denying them the opportunity to acquire the practical skills necessary for success in their chosen careers. Further exacerbating these differences is the digital divide. Disparities in knowledge acquisition and digital literacy persist in under-resourced schools where students may not have access to dependable internet, e-learning modules, or digital material, in contrast to urban schools that make extensive use of online knowledge resources, virtual laboratories, and e-learning platforms.

A subtle but crucial factor in sustaining inequities is the impact of institutional reputation and brand familiarity. Regardless of their actual ability, graduates from famous schools frequently have an unfair advantage in the labour market, including greater wages, more networking possibilities, and easier entry to competitive positions. Students from less well-known schools, on the other hand, may have a harder time breaking into the workforce and advancing in their careers, regardless of how brilliant they are. This phenomena has a multiplicative effect on disadvantaged students' discouragement of professional education, which in turn hinders their social mobility. Also, the difference between schools gets wider over time as a result of the feedback loop that occurs when people view some schools as superior or elite, which leads to an influx of funding, collaborations, and top-tier students.

Accreditation processes and regulatory frameworks aim to keep quality standards low, but they might unintentionally make inequalities worse. Curriculum, faculty, and infrastructure standards are frequently dictated by centralised regulatory authorities that fail to take regional limitations and institutional capacity into consideration. While this does guarantee minimum requirements, it may put undue stress on already-strapped educational institutions that are already struggling to achieve standards, taking resources away from more creative forms of instruction and research. Alternatively, institutions that are well-funded are in a better position to surpass regulatory standards, which in turn boosts their credibility and brings in more investors. Autonomy enables institutions to innovate curricula, evaluation techniques, and research agendas, which smaller or less-resourced colleges frequently cannot afford, thus exacerbating inequalities in the distribution of deemed-to-be university status.

Complex patterns of inequality are created when institutional imbalances meet with socio-economic and demographic variables. Tuition fees, relocation expenditures, and a lack of knowledge about educational options are common obstacles that students from rural regions, lower-income families, or marginalised communities face when trying to obtain high-quality professional education. Learning results, self-confidence, and career paths can be impacted by institutional inequalities in mentoring, peer networks, and the quality of instruction, even after students are admitted to professional programs. Institutional injustices interact with gender disparities as well. Institutional underfunding can amplify the problems that women already have in professional education, especially in STEM and management disciplines, with respect to campus safety, mentorship, and work-life balance. In order to build a professional education environment that is genuinely inclusive, it is important to address these overlapping aspects.

Society and the economy as a whole feel the effects of institutional inequalities, not just the pupils directly affected. The growth of a competent workforce, innovation, and national competitiveness in knowledge-intensive industries are all impacted by uneven access to high-quality professional education. Additionally, it makes social stratification worse since wealthy groups gain even more benefits from elite schools, while students from underprivileged backgrounds struggle to be uplifted by underfunded institutions. Regional imbalances in professional skill can result from these differences, which in turn can impact local economic growth and perpetuate cycles of underdevelopment in specific areas. On the other hand, closing the achievement gap may have far-reaching economic and societal benefits by opening doors for bright students from all walks of life to have a positive impact on the world, promote inclusive growth, and inspire new ideas.

II. REVIEW OF LITERATURE

Kumar, Arjun (2024). Disparities in infrastructure, teacher quality, and technology all work together to make it harder for rural Indian students to have equal access to excellent education. Barwani in Madhya Pradesh and Kalahandi in Odisha are the rural areas where these disparities are investigated in this research. Quantitative data on enrolment, infrastructure, and learning outcomes are supplemented with qualitative interviews with students, instructors, and policymakers in this mixed-methods study. Research shows that there is a significant

absence of infrastructure in Barwani (72% of schools do not have scientific laboratories) and Kalahandi (65% of schools do not have digital equipment).

Ge, Ribu. (2024). There is an unequal distribution of human resources due to the widening gap in opportunity, education, and employment that has emerged as a societal concern as a result of technological and historical advancements. It becomes more difficult for the national economy to be united and consistently stable and developed when regional economic growth is fragmented due to expanding inequality. This essay primarily aims to examine the reasons behind the disparity in educational possibilities between the US and China, evaluate these arguments, and then, using data from nations with more equitable educational systems, provide solutions that address these issues. The study highlights the need of maintaining high-quality education standards and reducing regional education gaps in order to stabilise talent production and promote more consistent economic growth. Furthermore, in order to eradicate inequality, China can model its educational system after that of the Nordic countries, particularly in regard to the administration of examinations and rankings.

Xi, Jiacheng. (2023). As a result of educational disparity, the negative consequences are becoming worse in modern times. And the United States is probably the best place to see it. In this article, we will look at the contemporary era of income disparity and attempt to define it. Finding policy recommendations to address the underlying reasons and ameliorate the situation is the primary objective of this study. In order to put the problem in its proper historical perspective, the investigation first examines primary sources. The next step is to get additional up-to-date apps by conducting research online and analysing recent data and readings. Finally, this study concludes with legislative recommendations and practical strategies for reducing economic disparity in America.

Li, Jie. (2023). The Gini Index, which measures educational disparity, shows that China's educational development level is rising and that the country has accomplished a lot. But the disparity between rural and urban schools has been widening, and now it's the single most important factor influencing educational inequality in the nation and its provinces. This study offers the following suggestions based on case analysis and consideration of several characteristics, including gender, family income, and history: (1) Children in rural areas can have reasonable exchanges and visits with their urban counterparts; (2) Teachers can make full use of online tools to enhance the learning process. (3) Equalising support for cities and rural areas; (4) Boost interest in non-formal education. Education disparity persists in China, despite the growing popularity of rural education and higher education in recent years. In addition, solutions should be implemented from several angles. Research on educational inequality can help address the unique mental health challenges faced by students in both urban and rural areas as we work to bridge the gap between the two.

Liu, Yihan. (2023). Education is becoming an increasingly important sector as many countries' economies grow. Education is the engine that propels a nation's progress. Consequently, there has been a lot of buzz in the academic community about the need to promote educational fairness. Inequalities in gender, ethnicity, and geography continue to be major roadblocks to educational progress. In order to shed light on the seriousness of educational disparities caused by gender, race, and geography, as well as how to promote educational equality and ameliorate unjust treatment in education, the author relied heavily on the literature review method. To address the issue of inequality, the author proposes practical steps that both the government and individuals may do, together with ideas for preventing more inequality, in the hopes that they will contribute to a lessening of educational disparities. The study's findings suggest that the public and government may work together to end utter injustice.

Oppedisano, Veruska & Turati, Gilberto. (2015). This study offers proof on the causes and development of educational score disparity in four European nations. This article uses PISA data from two waves, in 2000 and 2006, to demonstrate that whilst inequality rose in France and Italy, it fell in Germany and Spain, two countries with more "decentralised" educational systems. According to the results of the decomposition exercise, educational disparity is a reflection of both background-related inequality and the unique qualities of individual institutions. The fact that inequality has changed throughout time is due to these traits.

Green, Andy et al., (2011). Socioeconomic disparities in the United Kingdom and other industrialised nations are largely attributable to gaps in educational opportunity and achievement. To begin, the favourable correlation between educational attainment and employment rates and wages is well-established. For instance, in 2009, over 89% of UK citizens with bachelor's degrees were working, compared to 78% of those with NVQ Level 2 credentials (the highest level of vocational education and training recognised in the country). Graduates in the 25–59 age bracket who were working had average gross hourly wages that were around 80% more than those in the same bracket who had NVQ Level 2 credentials.

III. RESEARCH METHODOLOGY

Research Design

The present study adopts a Cross-Sectional Descriptive Research Design to examine disparities in the professional education system.

Sample Size

A total of 280 respondents participated in the study.

Sampling Technique

The study employed Convenience Sampling.

Data Collection

The study's data was gathered from a variety of primary and secondary sources to increase dependability and guarantee methodological triangulation. Perceptions of infrastructure, teacher quality, placement possibilities, and socio-economic access gaps were assessed using a 7-point Likert scale based structured questionnaire to collect primary data. To get a better understanding of the gaps at the systemic and policy levels, we also asked students to participate in focus groups, interviewed directors and professors in semi-structured interviews, and looked at specific institutional case studies. Institutional reports, official documents, scholarly journals, media, and verified websites were consulted for secondary data in order to bolster the empirical findings with policy backing, comparative analysis, and contextual information.

Statistical Tools Used

Percentage Analysis and Cronbach's Alpha (Reliability Test) are used.

IV. RESULTS AND DISCUSSION

Table 1: Category-wise Distribution of Respondents

Particulars	Frequency	Percentage
Students	207	73.9%
Faculty	60	21.4%
Directors/Admin	13	4.7%
Total	280	100%

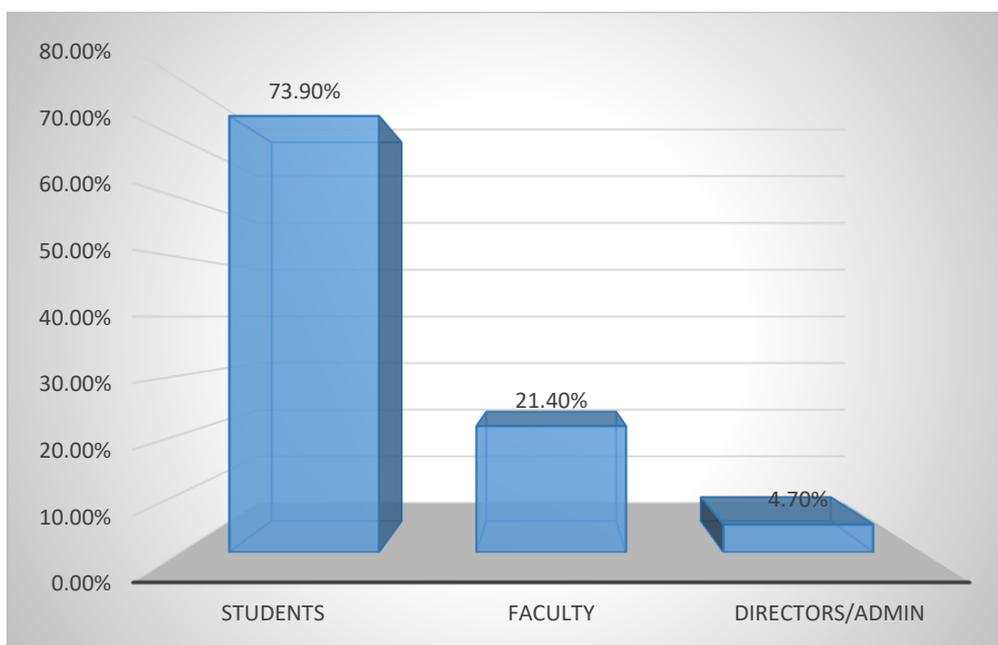


Figure 1: Category-wise Distribution of Respondents

According to the breakdown of responses by category, 207 out of 280 people (or 73.9% of the total) identify as students. Learners' perspectives and experiences are largely captured in the study, which is significant because learners are the main stakeholders in the professional education system. Academic and instructional viewpoints on institutional differences are provided by the 21.4% (60 respondents) who are faculty members. The remaining 4.7%, consisting of 13 responders, are directors and administrative personnel who provide input on policy and strategy.

Table 2: Perception of Infrastructure Disparity

Statement	Strongly Agree (%)	Agree (%)	Neutral (%)	Disagree (%)
Unequal lab facilities	42%	30%	15%	13%
Unequal digital access	48%	28%	12%	12%
Library resource gap	39%	34%	14%	13%

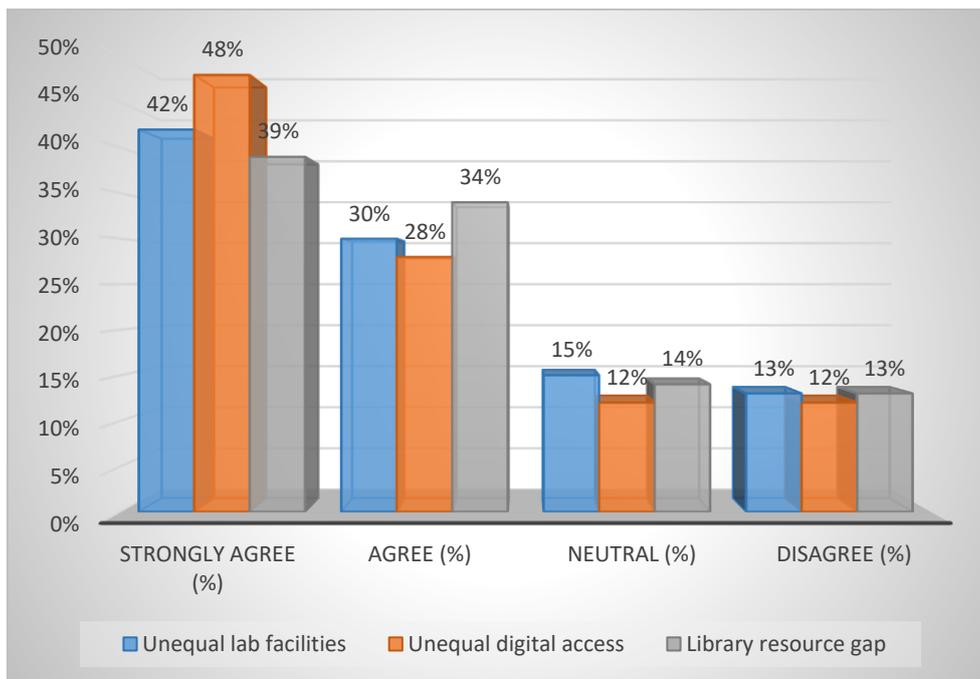


Figure 2: Perception of Infrastructure Disparity

There is a significant impression of infrastructural inequities throughout the professional education system, according to the results shown in Table 2. Large majorities of people think that there are disparities in access to digital resources (76%), library resources (73%), and laboratory facilities (72%). Almost half of the people who took the survey (48%) are in full agreement that there is a digital gap that exists across different types of organisations, making uneven access to digital resources the top worry.

Table 3: Faculty and Academic Quality Disparities

Statement	Strongly Agree (%)	Agree (%)	Neutral (%)	Disagree (%)
Faculty Experience Variation	44%	32%	13%	11%
Student–Faculty Ratio Imbalance	52%	30%	9%	9%
Research Mentorship Gap	41%	34%	14%	11%

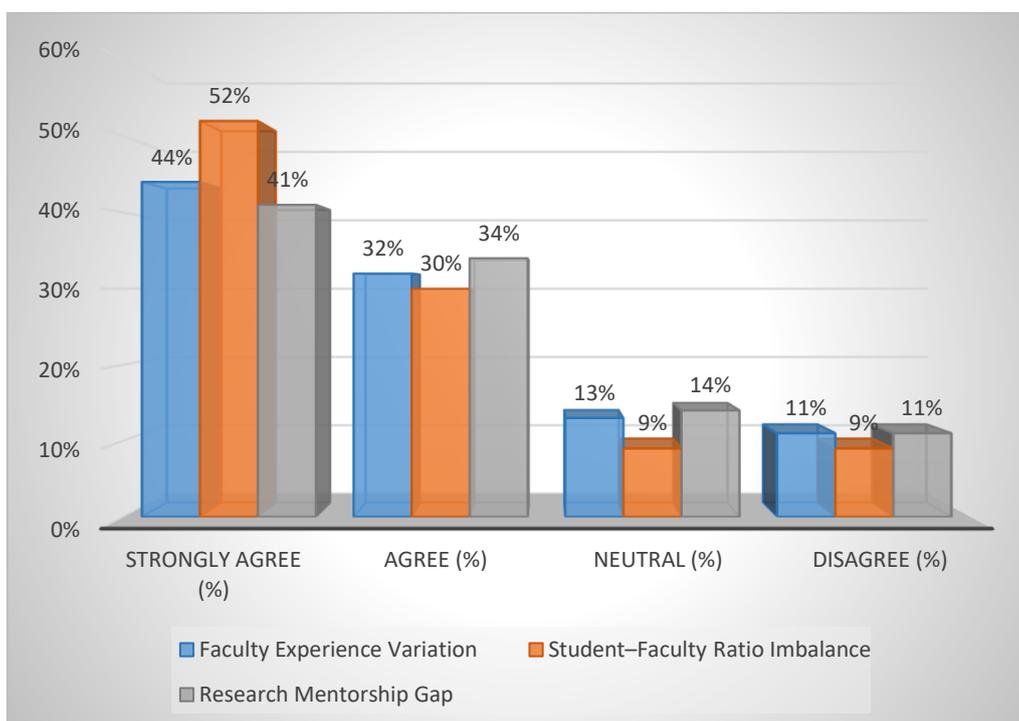


Figure 3: Faculty and Academic Quality Disparities

Table 3 reveals that people strongly believe that there are inequalities in the quality of education and teachers across the professional education system. A total of 76% of those who answered the question believe that there is an unequal distribution of competent and experienced teachers throughout schools. Of those, 44% strongly agree and 32% agree that there is a lot of variety in faculty experience. There is a lot of agreement (82%) that there are too many students and not enough particular academic attention. This is because 52% strongly agree and 30% agree that the student-faculty ratio is not right. In relation to the research mentoring divide, 41% of respondents who strongly agree and 34% who agree identify differences in research direction and academic support, for a total of 75%. There isn't much disagreement (11%, 9%, and 11% of the total comments), and 13%, 9%, and 14% of the total replies are neutral.

Table 4: Placement and Career Opportunity Disparities

Statement	Strongly Agree (%)	Agree (%)	Neutral (%)	Disagree (%)
Unequal placement opportunities	40%	32%	15%	13%
Industry collaboration gap	36%	32%	18%	14%
Internship accessibility gap	45%	29%	14%	12%

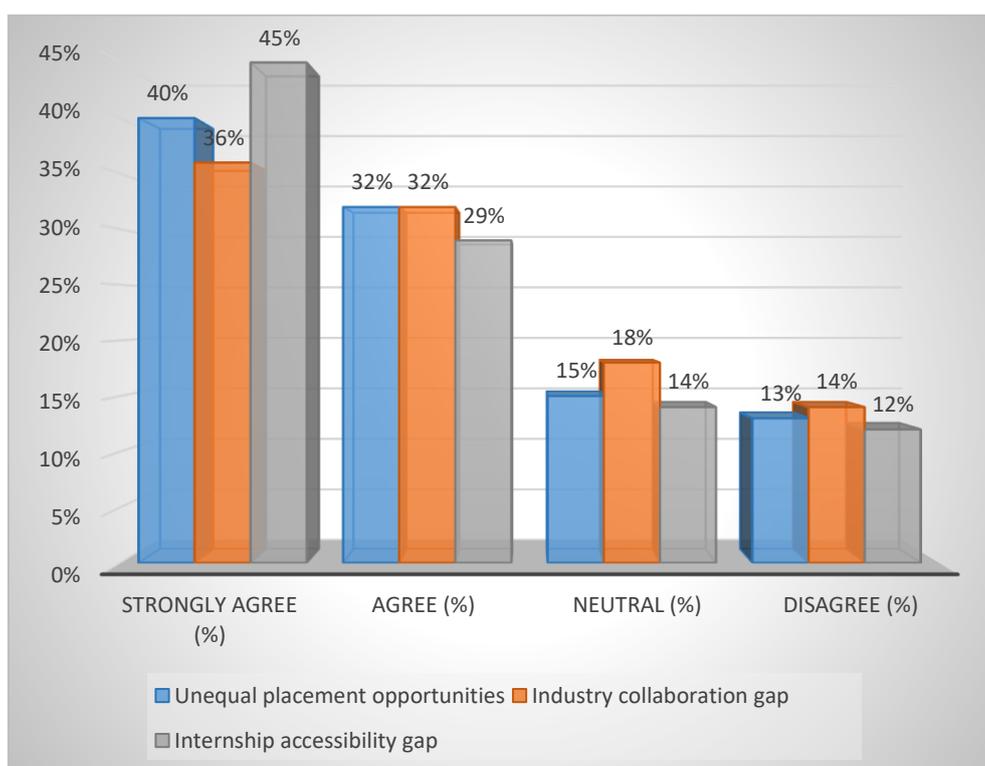


Figure 4: Placement and Career Opportunity Disparities

Table 4 illustrates that the rates of placement in the professional education system are very different from those in other fields. Many individuals are worried about how institutions promote different types of recruiting. There is a total of 72% agreement that placement options are not fair. Of them, 40% strongly agree and 32% agree. It seems that not all schools have good connections with businesses or work with them. This is because 36% strongly agree and 32% agree that there isn't enough interaction between schools and businesses. 74% of people think that the issue of internship accessibility is very important (45.5% strongly agree and 29.0% agree). This is because it shows that not everyone has the same opportunities for work-based learning and hands-on training. There seems to be injustice because only a small number of individuals (12–14%) disapproved or didn't care (14%–18%).

Table 5: Socio-Economic and Gender Disparities

Statement	Strongly Agree (%)	Agree (%)	Neutral (%)	Disagree (%)
Financial background affects access	48%	30%	10%	12%
Gender affects career advancement	34%	30%	18%	18%
Urban students have advantage	52%	29%	9%	10%

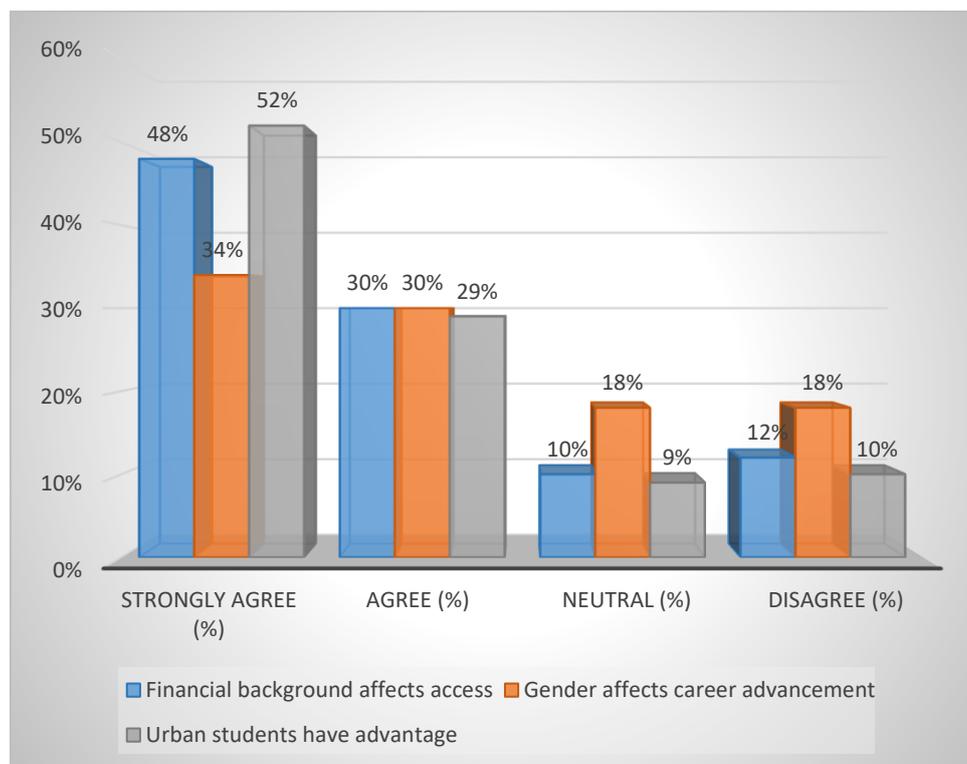


Figure 5: Socio-Economic and Gender Disparities

Table 5 illustrates that there are big differences between men and women and between people with different levels of income and education in the field of professional education. A large majority (78%) of people think that their financial background affects their ability to get professional education. 48% of people strongly agree and 30% agree. 34% of those who strongly agree and 30% of those who agree feel that gender affects how well someone can do their job. This adds up to 64%. Also, 81% of individuals feel that students in big cities have an advantage, with 52% strongly agreeing and 29% agreeing. There are a lot more agreement replies (9%–18%) than disagreement replies (10%–18%).

Table 6: Reliability Results

Dimension	No. of Items	Cronbach's Alpha (α)
Infrastructure Disparity	3	0.86
Faculty & Academic Quality	3	0.88
Placement & Career Gap	3	0.84
Socio-Economic & Gender Disparity	3	0.90
Overall Scale	12	0.89

The findings in Table 6 demonstrate a significant degree of dependability for the research instrument employed in the study. Each variable exhibits robust internal consistency, with Infrastructure Disparity recording a Cronbach's Alpha of 0.86, Faculty & Academic Quality at 0.88, and Placement & Career Gap at 0.84, and Socio-Economic & Gender Disparity attaining the greatest dependability at 0.90. The total scale, which includes all 12 items, has a Cronbach's Alpha of 0.89, which shows that the questionnaire is quite reliable. All of these scores are higher than 0.80, which is an excellent level of dependability. This means that the instrument consistently evaluates how people perceive differences in several areas of professional education.

V. CONCLUSION

The study looks closely at a number of things, including as infrastructure, the quality of academics, access to job placement, gender and socio-economic disparities, and more. It reveals that there are a lot of holes in professional education. Faculty and administrative viewpoints help us understand the structural injustices that make it harder for everyone to do well in school, but the students are the ones who feel the most impact, as they are the main stakeholders. Institutional capacity building is urgently required due to the inequitable access of students to digital resources, laboratories, and library facilities, the disproportionate student-to-faculty ratio, and the insufficient availability of research mentoring. Also, inequalities in placement, internships, and interactions with the sector reveal that there are institutional hurdles to career advancement. Gender and socioeconomic

position intensify these obstacles, privileging pupils from metropolitan areas and those with superior financial resources.

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