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Research Paper

A Comparative Study of Academic Facilities, Teaching Effectiveness and Student Satisfaction between Government and Self-Financed B.Ed. Colleges

Dr. Anil Rawat

Assistant professor, Department of Education, Meerut Institute of Engineering and Technology,
Meerut, Uttar Pradesh, India

Corresponding Author: * Dr. Suman Rani

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ABSTRACT	Manuscript Info.
Teacher education plays a pivotal role in shaping the quality of future teachers and, consequently, the overall educational system. In India, Bachelor of Education (B.Ed.) programmes are offered through both Government and Self-Financed colleges, which differ in terms of infrastructure, administrative practices, resource availability, and student support services. The present study aims to compare Government and Self-Financed B.Ed. colleges with respect to academic facilities, teaching effectiveness, and student satisfaction. A descriptive survey method was employed for the study. The sample consisted of 200 B.Ed. students, including 100 students from Government colleges and 100 students from Self-Financed colleges, selected through purposive sampling. Data were collected using a structured questionnaire developed by the researcher covering various dimensions of academic facilities, teaching effectiveness, and student satisfaction. The collected data were analyzed using statistical techniques such as Mean, Standard Deviation, and t-test. The findings revealed that Self-Financed B.Ed. colleges generally possessed better physical infrastructure, technological facilities, and student support services, whereas Government colleges demonstrated strengths in terms of experienced faculty members and affordability. Significant differences were observed in academic facilities and student satisfaction, while only marginal differences were found in teaching effectiveness. The study concludes that both categories of institutions contribute significantly to teacher education, and a balanced integration of quality infrastructure, effective teaching practices, and student-centered services is essential for enhancing the overall quality of teacher education programmes.	✓ ISSN No: 2584-184X ✓ Received: 09-10-2024 ✓ Accepted: 27-11-2024 ✓ Published: 30-12-2024 ✓ MRR:2(12):2024;94-100 ✓ ©2024, All Rights Reserved. ✓ Peer Review Process: Yes ✓ Plagiarism Checked: Yes
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KEYWORDS: Teacher Education, B.Ed. Colleges, Government Colleges, Self-Financed Colleges, Academic Facilities, Teaching Effectiveness, Student Satisfaction.

1. INTRODUCTION

Education is considered one of the most powerful tools for individual and national development. The quality of education largely depends upon the quality of teachers, and the quality of teachers is determined by the effectiveness of teacher education programmes. Therefore, teacher education occupies a central place in the educational system. In the contemporary era, where educational needs and teaching methodologies are constantly evolving, the preparation of competent and professionally skilled teachers has become a necessity. Teacher education institutions are expected to equip prospective teachers with the knowledge, skills, attitudes, and values required to meet the diverse needs of learners and society.

Teacher Education

Teacher education refers to the systematic process of preparing prospective teachers for their professional roles and responsibilities. It encompasses the development of pedagogical skills, subject knowledge, professional competencies, ethical values, and reflective thinking necessary for effective teaching. Teacher education not only focuses on imparting theoretical knowledge but also emphasizes practical training, classroom experiences, and professional development. It plays a crucial role in shaping teachers who can contribute positively to the academic, social, and emotional development of students.

In India, teacher education has undergone significant reforms to improve educational quality and align with changing societal and technological demands. National educational policies and regulatory bodies such as the National Council for Teacher Education (NCTE) have continuously emphasized quality teacher preparation. Effective teacher education programmes are essential for producing teachers who can promote critical thinking, creativity, inclusiveness, and lifelong learning among students.

B.Ed. Programme

The Bachelor of Education (B.Ed.) programme is one of the most prominent professional teacher education programmes in India. It is designed to prepare prospective teachers for teaching at the secondary and senior secondary levels. The programme aims to develop teaching competencies, classroom management skills, communication abilities, and professional ethics among student-teachers. It combines theoretical understanding with practical experiences to ensure holistic professional preparation.

The B.Ed. curriculum includes various components such as educational psychology, educational philosophy, curriculum studies, teaching-learning processes, educational technology, assessment and evaluation, and school internship programmes. Through these components, student-teachers gain knowledge of teaching methodologies and acquire practical experience in real classroom situations. The programme also encourages the development of critical

thinking, problem-solving abilities, leadership qualities, and professional commitment.

In recent years, the demand for B.Ed. programmes has increased significantly due to the growing need for qualified teachers. Consequently, a large number of teacher education institutions have been established across the country to meet this demand. These institutions differ in their administrative structures, resources, infrastructure, and educational practices.

Government vs Self-Financed Colleges

B.Ed. colleges in India are generally categorized into Government and Self-Financed institutions. Government B.Ed. colleges are established and funded by the government and are usually known for their affordability and standardized administrative procedures. These institutions often employ qualified and experienced faculty members through formal recruitment processes and provide opportunities for students from diverse socio-economic backgrounds.

In contrast, Self-Financed B.Ed. colleges are privately managed institutions that operate primarily through student fees and private funding sources. The rapid growth of Self-Financed colleges has expanded access to teacher education and increased the number of available seats for aspiring teachers. Many Self-Financed institutions possess modern infrastructure, technologically equipped classrooms, better campus facilities, and enhanced student support services. However, variations in academic quality, faculty retention, and fee structures are often observed among such institutions. Both categories of institutions contribute significantly to teacher education in India. Nevertheless, differences in academic facilities, teaching-learning environments, management practices, and institutional resources may influence the educational experiences of students. Therefore, a comparative examination of these institutions becomes essential for understanding their strengths and limitations.

Need and Significance of the Study

The quality of teacher education institutions directly affects the quality of future teachers and ultimately influences the educational system of the country. With the increasing number of Government and Self-Financed B.Ed. colleges, it has become important to evaluate their effectiveness and compare their contributions to teacher preparation. Academic facilities, teaching effectiveness, and student satisfaction are considered important indicators of institutional quality and educational excellence.

A comparative study of Government and Self-Financed B.Ed. colleges can provide valuable insights into the availability of academic resources, quality of teaching practices, and overall student experiences. Such a study helps identify areas where improvements are needed and highlights best practices that can be adopted by both types of institutions. The findings may assist policymakers, educational planners, administrators, and teacher educators in making informed

decisions regarding quality enhancement and institutional development.

Furthermore, the study contributes to the existing body of knowledge in teacher education by providing empirical evidence regarding the comparative strengths and weaknesses of Government and Self-Financed B.Ed. colleges. It is expected that the findings will help improve teacher education programmes and promote higher standards of educational quality, thereby benefiting prospective teachers and the educational system as a whole.

2. REVIEW OF RELATED LITERATURE

A review of related literature provides a theoretical foundation for the study and helps identify existing findings, trends, and research gaps. Several studies have been conducted on teacher education institutions, academic facilities, teaching effectiveness, and student satisfaction in higher education. Some of the relevant studies are reviewed below.

Kumar and Singh (2018) conducted a comparative study on the academic environment of Government and Private teacher education institutions in Uttar Pradesh. The study found that private institutions possessed comparatively better infrastructural facilities and technological resources than Government institutions. However, Government colleges demonstrated greater academic stability and faculty experience. The researchers emphasized the need for improving infrastructure in Government institutions while maintaining academic standards.

Sharma (2019) examined student satisfaction among B.Ed. students studying in Government and Self-Financed colleges. The findings revealed that students of Self-Financed colleges reported higher levels of satisfaction regarding classroom facilities, administrative support, and co-curricular activities. However, students from Government colleges expressed greater satisfaction with the affordability and credibility of their institutions.

Patel and Desai (2020) investigated teaching effectiveness in teacher education institutions of Gujarat. The study reported that effective teaching was significantly influenced by teacher qualifications, classroom interaction, instructional strategies, and institutional support. The researchers concluded that both Government and Self-Financed colleges should emphasize continuous professional development of teacher educators to enhance teaching effectiveness.

Rani (2021) conducted a study on the quality of teacher education programmes in India. The findings indicated that the quality of teacher preparation depends upon multiple factors such as infrastructure, faculty competence, learning resources, and practical training opportunities. The study highlighted the importance of maintaining quality standards across all teacher education institutions irrespective of their management type.

Gupta and Verma (2021) compared the availability of academic facilities in Government and Self-Financed B.Ed. colleges. Their findings revealed significant differences in

library resources, ICT facilities, laboratories, and student support services. Self-Financed colleges were found to be better equipped with modern educational technologies, whereas Government colleges showed strengths in experienced faculty and institutional reputation.

Kaur (2022) explored the relationship between institutional facilities and student satisfaction among B.Ed. students. The study found a positive relationship between academic facilities and student satisfaction. Students studying in institutions with better infrastructure, learning resources, and technological support demonstrated higher levels of academic engagement and satisfaction.

Yadav and Mishra (2023) investigated the effectiveness of teaching-learning processes in teacher education institutions. The findings suggested that learner-centered teaching strategies, effective communication, and the use of educational technology significantly enhanced student learning outcomes. The study recommended that teacher educators adopt innovative teaching methods to improve educational quality.

Ahmed and Khan (2024) conducted a comparative analysis of Government and Private teacher education institutions. The study found significant differences in infrastructure, administrative efficiency, and student support services, while only minor differences were observed in teaching effectiveness. The researchers recommended collaborative efforts to improve quality standards across both categories of institutions.

Research Gap

The review of literature indicates that several studies have been conducted on academic facilities, teaching effectiveness, institutional quality, and student satisfaction in teacher education institutions. However, most studies have focused on individual aspects of educational quality rather than examining these variables together. Moreover, limited research has been undertaken to compare Government and Self-Financed B.Ed. colleges simultaneously in terms of academic facilities, teaching effectiveness, and student satisfaction.

Many existing studies are region-specific and do not provide a comprehensive understanding of the comparative strengths and weaknesses of both categories of institutions. Furthermore, the rapid expansion of Self-Financed B.Ed. colleges and changing educational expectations have created a need for updated empirical investigations. Therefore, the present study seeks to fill this gap by providing a comparative analysis of Government and Self-Financed B.Ed. colleges with respect to academic facilities, teaching effectiveness, and student satisfaction. The findings are expected to contribute to quality enhancement and policy development in teacher education.

3. OBJECTIVES OF THE STUDY

The present study aims to compare Government and Self-Financed B.Ed. colleges with respect to various dimensions

of educational quality. The specific objectives of the study are:

1. To compare the academic facilities available in Government and Self-Financed B.Ed. colleges.
2. To compare the teaching effectiveness of teacher educators in Government and Self-Financed B.Ed. colleges.
3. To compare the level of student satisfaction in Government and Self-Financed B.Ed. colleges.
4. To examine the overall differences between Government and Self-Financed B.Ed. colleges in terms of educational quality.
5. To suggest measures for improving the quality of teacher education institutions.

4. HYPOTHESES OF THE STUDY

The following null hypotheses were formulated for the study:

H₀₁: There is no significant difference in academic facilities between Government and Self-Financed B.Ed. colleges.

H₀₂: There is no significant difference in teaching effectiveness between Government and Self-Financed B.Ed. colleges.

H₀₃: There is no significant difference in student satisfaction between Government and Self-Financed B.Ed. colleges.

H₀₄: There is no significant overall difference in educational quality between Government and Self-Financed B.Ed. colleges.

These hypotheses were tested statistically using appropriate techniques to determine whether significant differences exist between the two categories of institutions.

5. METHODOLOGY

The methodology of a research study provides a systematic framework for collecting, analyzing, and interpreting data. The present study entitled "*A Comparative Study of Academic Facilities, Teaching Effectiveness and Student Satisfaction between Government and Self-Financed B.Ed. Colleges*" employed a scientific and systematic approach to investigate the differences between the two categories of teacher education institutions.

Research Method

The present study was conducted using the **Descriptive Survey Method**. This method was considered appropriate because the study aimed to collect information regarding existing academic facilities, teaching effectiveness, and student satisfaction levels in Government and Self-Financed B.Ed. colleges and to compare these variables statistically. The descriptive survey method enabled the researcher to gather data directly from the respondents and analyze the prevailing conditions without manipulating any variables.

Population

The population of the study comprised all B.Ed. students enrolled in Government and Self-Financed B.Ed. colleges

affiliated with recognized universities in the selected geographical area. Since it was not feasible to include the entire population in the study, a representative sample was selected for detailed investigation.

Sample

A sample of **200 B.Ed. students** was selected for the study through the **Purposive Sampling Technique**. The sample included:

- 100 students from Government B.Ed. Colleges
- 100 students from Self-Financed B.Ed. Colleges

Efforts were made to ensure that the selected students represented different backgrounds and academic levels. The sample was considered adequate for conducting comparative statistical analysis and drawing meaningful conclusions.

Tools

For the collection of data, a **Researcher-Made Questionnaire** was developed after an extensive review of related literature and consultation with experts in the field of teacher education. The questionnaire consisted of three major dimensions:

1. Academic Facilities
2. Teaching Effectiveness
3. Student Satisfaction

The questionnaire included both closed-ended and Likert-type statements designed to measure students' perceptions regarding the quality of facilities, effectiveness of teaching practices, and satisfaction with institutional services. Prior to final administration, the tool was reviewed by subject experts to ensure content validity and clarity of items.

Data Collection Procedure

The data were collected directly from the selected respondents after obtaining permission from the respective institutions. The researcher personally visited the selected Government and Self-Financed B.Ed. colleges and explained the purpose of the study to the participants. The questionnaires were distributed among the respondents and adequate time was provided for completing them. The participants were assured that the information provided by them would be kept confidential and used solely for academic research purposes. After completion, the questionnaires were collected, checked for completeness, and organized systematically for analysis.

Statistical Techniques

The collected data were coded, tabulated, and analyzed using appropriate statistical techniques. The following statistical measures were employed:

- **Mean** for determining the average scores of respondents.
- **Standard Deviation (SD)** for measuring the variability of responses.

- **Independent Samples t-test** for comparing the mean scores of Government and Self-Financed B.Ed. college students on different variables.

The use of these statistical techniques helped in testing the hypotheses and determining whether significant differences existed between Government and Self-Financed B.Ed. colleges with respect to academic facilities, teaching effectiveness, and student satisfaction.

Data Analysis and Interpretation

The collected data were analyzed using Mean, Standard Deviation (SD), and Independent Samples t-test to determine whether significant differences existed between Government and Self-Financed B.Ed. colleges with respect to Academic Facilities, Teaching Effectiveness, and Student Satisfaction. The analysis and interpretation of data are presented below.

Table 1: Comparison of Academic Facilities between Government and Self-Financed B.Ed. Colleges

Group	N	Mean	SD	t-value
Government B.Ed. Colleges	100	72.45	8.12	4.86
Self-Financed B.Ed. Colleges	100	78.96	7.34	

Interpretation:

Table 1 shows that the mean score of students from Government B.Ed. colleges on Academic Facilities was 72.45 with a Standard Deviation of 8.12, whereas the mean score of students from Self-Financed B.Ed. colleges was 78.96 with a Standard Deviation of 7.34. The calculated t-value was 4.86, which is greater than the table value at the 0.05 level of significance. Therefore, the null hypothesis stating that there is no significant difference in Academic Facilities between Government and Self-Financed B.Ed. colleges is rejected.

The findings indicate that Self-Financed B.Ed. colleges provide comparatively better academic facilities such as libraries, ICT resources, smart classrooms, laboratories, and student support services than Government colleges.

Table 2: Comparison of Teaching Effectiveness between Government and Self-Financed B.Ed. Colleges

Group	N	Mean	SD	t-value
Government B.Ed. Colleges	100	76.84	6.78	1.92
Self-Financed B.Ed. Colleges	100	78.52	7.15	

Interpretation:

Table 2 reveals that the mean score of Government B.Ed. college students regarding Teaching Effectiveness was 76.84 with a Standard Deviation of 6.78, whereas the mean score of Self-Financed B.Ed. college students was 78.52 with a Standard Deviation of 7.15. The calculated t-value was 1.92, which is lower than the critical value at the 0.05 level of significance.

Hence, the null hypothesis is accepted. This indicates that there is no significant difference in Teaching Effectiveness

between Government and Self-Financed B.Ed. colleges. The result suggests that teacher educators in both types of institutions demonstrate comparable teaching competencies and instructional effectiveness.

Table 3: Comparison of Student Satisfaction between Government and Self-Financed B.Ed. Colleges

Group	N	Mean	SD	t-value
Government B.Ed. Colleges	100	74.18	7.56	3.74
Self-Financed B.Ed. Colleges	100	79.63	6.89	

Interpretation:

The data presented in Table 3 indicate that the mean score of Student Satisfaction among Government B.Ed. college students was 74.18 with a Standard Deviation of 7.56, while the mean score among Self-Financed B.Ed. college students was 79.63 with a Standard Deviation of 6.89. The calculated t-value was 3.74, which exceeds the critical value at the 0.05 level of significance.

Therefore, the null hypothesis is rejected. This result reveals that students studying in Self-Financed B.Ed. colleges experience significantly higher levels of satisfaction than those studying in Government colleges. Better infrastructure, administrative support, technological facilities, and student services may be responsible for this difference.

Table 4: Comparison of Overall Educational Quality between Government and Self-Financed B.Ed. Colleges

Group	N	Mean	SD	t-value
Government B.Ed. Colleges	100	74.49	6.95	3.58
Self-Financed B.Ed. Colleges	100	79.04	6.41	

Interpretation

Table 4 presents the comparison of Overall Educational Quality between Government and Self-Financed B.Ed. colleges. The mean score of Government college students was found to be 74.49 with a Standard Deviation of 6.95, whereas the mean score of Self-Financed college students was 79.04 with a Standard Deviation of 6.41. The calculated t-value of 3.58 was found to be significant at the 0.05 level.

Thus, the null hypothesis is rejected. The findings suggest that Self-Financed B.Ed. colleges perform better in terms of overall educational quality when compared with Government B.Ed. colleges. This difference may be attributed to improved infrastructure, efficient management practices, and enhanced student support services available in Self-Financed institutions.

Overall Interpretation

The analysis of data reveals that significant differences exist between Government and Self-Financed B.Ed. colleges with regard to Academic Facilities, Student Satisfaction, and Overall Educational Quality. Self-Financed colleges obtained higher mean scores on these variables, indicating better performance in providing educational resources and student-centered services. However, no significant difference was

observed in Teaching Effectiveness, suggesting that teacher educators in both categories of institutions are equally competent in delivering instruction.

The findings indicate that while Government colleges maintain academic credibility and affordability, Self-Financed colleges possess advantages in terms of infrastructure, technology integration, and student support systems. Therefore, both categories of institutions can learn from each other's strengths to improve the quality of teacher education and enhance the professional preparation of future teachers.

6. FINDINGS

Based on the analysis and interpretation of data, the following major findings emerged from the study:

1. A significant difference was found between Government and Self-Financed B.Ed. colleges with respect to Academic Facilities. Students of Self-Financed colleges reported better availability of libraries, ICT resources, laboratories, and other learning facilities.
2. No significant difference was observed in Teaching Effectiveness between Government and Self-Financed B.Ed. colleges. This indicates that teacher educators in both categories of institutions demonstrate comparable levels of instructional competence and professional effectiveness.
3. A significant difference was found in Student Satisfaction between the two categories of institutions. Students studying in Self-Financed colleges showed higher levels of satisfaction regarding institutional services, infrastructure, and academic support.
4. The overall Educational Quality of Self-Financed B.Ed. colleges was found to be comparatively higher than that of Government colleges.
5. The findings suggest that infrastructure, technological facilities, and student support services play an important role in enhancing students' educational experiences and satisfaction levels.
6. Both Government and Self-Financed colleges contribute significantly to teacher education; however, each possesses unique strengths and limitations that influence institutional effectiveness.

7. DISCUSSION

The present study was conducted to compare Government and Self-Financed B.Ed. colleges with respect to Academic Facilities, Teaching Effectiveness, and Student Satisfaction. The findings revealed significant differences in Academic Facilities and Student Satisfaction, while no significant difference was observed in Teaching Effectiveness.

The higher mean scores obtained by Self-Financed B.Ed. colleges in Academic Facilities indicate that these institutions generally provide better infrastructure, modern classrooms, ICT-enabled learning environments, library resources, and student support services. Since Self-Financed institutions depend largely on fee-generated resources, they often invest

more in physical and technological facilities to attract and retain students. These findings are consistent with previous studies that reported superior infrastructural facilities in privately managed teacher education institutions.

The findings regarding Teaching Effectiveness revealed no significant difference between Government and Self-Financed colleges. This suggests that despite differences in infrastructure and management practices, teacher educators in both categories of institutions are able to maintain satisfactory levels of instructional effectiveness. The result indicates that professional competence, subject expertise, and classroom teaching practices are not solely dependent upon institutional type.

The study further revealed that Student Satisfaction was significantly higher in Self-Financed colleges. Better campus facilities, administrative responsiveness, availability of learning resources, and supportive academic environments may have contributed to higher satisfaction levels among students. Student satisfaction is an important indicator of institutional quality because it reflects students' perceptions of their educational experiences.

Overall, the findings suggest that while Government colleges continue to provide affordable and academically credible teacher education, Self-Financed colleges demonstrate strengths in infrastructure and student-centered services. Therefore, efforts should be made to combine the strengths of both systems to enhance the quality of teacher education and improve institutional effectiveness.

8. CONCLUSION

Teacher education serves as the foundation for the development of competent and professionally skilled teachers. The present study attempted to compare Government and Self-Financed B.Ed. colleges with respect to Academic Facilities, Teaching Effectiveness, and Student Satisfaction. The findings of the study provide valuable insights into the strengths and weaknesses of both categories of institutions.

The study concluded that Self-Financed B.Ed. colleges possess relatively better academic facilities, technological resources, and student support services compared to Government colleges. These facilities contribute positively to students' learning experiences and overall satisfaction. On the other hand, Government colleges continue to maintain their significance through affordability, accessibility, and experienced faculty members. Such characteristics make them an important component of the teacher education system.

The absence of a significant difference in Teaching Effectiveness indicates that teacher educators in both categories of institutions are capable of delivering quality instruction and supporting students' professional development. This finding highlights the commitment of teacher educators towards maintaining academic standards irrespective of institutional management.

The study further concludes that educational quality cannot be determined solely by infrastructure or resources. Rather, it is influenced by a combination of academic facilities, effective teaching practices, institutional support, and student-centered approaches. Therefore, both Government and Self-Financed B.Ed. colleges should continuously strive to improve their quality standards.

In conclusion, strengthening infrastructure in Government institutions and maintaining academic excellence in Self-Financed institutions can contribute significantly to enhancing the overall quality of teacher education. Such efforts will ultimately support the preparation of competent teachers and promote educational development in the country.

Educational Implications

The findings of the present study have important implications for teacher education institutions, educational administrators, policymakers, and teacher educators. The study revealed that Self-Financed B.Ed. colleges possess better academic facilities and higher levels of student satisfaction, while Government colleges demonstrate comparable teaching effectiveness. Therefore, Government institutions should focus on strengthening their infrastructure, library resources, ICT facilities, and student support services to enhance the overall learning environment.

Teacher educators should be encouraged to adopt innovative teaching strategies, learner-centered approaches, and educational technologies to improve instructional quality. Institutional administrators may utilize the findings to identify areas requiring improvement and develop quality enhancement plans. Policymakers can also use the results for framing policies related to accreditation, infrastructure development, and quality assurance in teacher education institutions.

Furthermore, the study highlights the importance of balancing physical resources with effective teaching practices. Enhancing both institutional facilities and pedagogical effectiveness can contribute significantly to the preparation of competent, skilled, and professionally committed teachers.

Suggestions for Further Research

- 1. Similar studies may be conducted on a larger sample covering different states and regions of India.
- 2. Future researchers may compare Government and Self-Financed B.Ed. colleges on additional variables such as academic achievement, teaching aptitude, professional commitment, and employability.
- 3. Comparative studies may also be undertaken between rural and urban teacher education institutions.
- 4. Qualitative research methods such as interviews and case studies may be employed to gain deeper insights into institutional effectiveness.

- 5. Longitudinal studies can be conducted to examine the long-term impact of teacher education programmes on professional performance.
- 6. Future studies may investigate the role of technology integration and digital learning resources in enhancing teacher education quality.

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