

A Comparative Study of Academic Performance of Teachers Among Self-Financing College and Government and Aided Colleges

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Abstract

The present study is an humble attempt in this direction. Thus, the present study attempts to make a comparative study of academic performance of the teachers teaching traditional courses in self-financing colleges and that of the teachers teaching the same courses in Govt. & aided colleges of C.C.S. University, Meerut.

The only objective of the paper is to make a comparative study of academic performance of the teachers teaching traditional courses in self-financing colleges and that of the teachers teaching the same courses in Govt. & aided colleges.

From the foregoing analysis it can safely be concluded that whether they are girls colleges or co-ed colleges or they are combined together we find that academic performance of the teachers teaching Arts subjects in self-financing colleges and that of the teachers teaching the same subjects in Govt. & aided colleges is almost equal. To be more clear, teachers teaching in self-financing colleges are performing at par with the teachers teaching in Govt. & aided colleges.

1. INTRODUCTION

With the introduction of structural adjustment programmes under the new economic reform policies in early nineties higher education came under financial squeeze. Various policy documents-Programme of Action (1992) for National Policy in Education (1986), Reports of the two committees set up by GOI in 1992 (one committee under the Chairmanship of Justice K. Punniya and other committee under the Chairmanship of Dr. D. Swaminadhan), Policy of 8th Plan (1992-97), Reports of World Bank

(1994,1995), Statement of U.G.C. (1995), Report of UNESCO (1996), Discussion paper- 'Government Subsidies in India', issued by Ministry of Finance, GOI (1997), A Policy Framework for Reforms in Education- (A report submitted to Prime Minister's Council on Trade and Industry (PMCTI) by Special Subject Group constituted by GOI under the Chairmanship of Mukesh Ambani and membership of Kumarmanglam Birla in 2000), Supreme Court Judgment on Minority Educational Institutions case (2002), Report of CABE committee (2005), Report

of National Knowledge Commission (2007) and Report of the Committee to Advise Renovation and Rejuvenation of Higher Education constituted by GOI in Feb, 2008 under the Chairmanship of Prof. Yashpal (report submitted in 2009) expressed the government's inability to provide funds for higher education and emphasized on mobilization the non-government resources for smooth functioning of the universities and other educational institutions and on privatization of higher education by establishing self-financing institutions to cope up with the growing demand of the students. As such there has been a mushroom growth of self-financing colleges all over the country.

Now a period of about two decades has passed for the emergence of the concept of self-financing colleges and a mushroom growth of these colleges has taken place during the post reform period all over the country. Hence, this is the proper time and there is an urgent need also to evaluate the academic performance of the teachers teaching in self-financing colleges. The present study is an humble attempt in this direction. Thus, the present study attempts to make a comparative study of academic performance of the teachers teaching traditional courses in self-financing colleges and that of the teachers teaching the same courses in Govt. & aided colleges of C.C.S. University, Meerut.

2. OBJECTIVES OF THE STUDY

The only objective of the paper is to make a comparative study of academic performance of the teachers teaching traditional courses in self-financing colleges and that of the teachers teaching the same courses in Govt. & aided colleges.

3. RESEARCH METHODOLOGY AND SAMPLE DESIGN

Academic performance of the teachers can be best judged on the basis of performance of results (both quantity and quality of results) of their students in the university examination. Therefore, in the present study performance of results (both quantity and quality of the results) of the students in the university examination-2013 has been considered as the indicator of academic performance of the teachers. As such academic performance of the teachers of these two types of colleges has been compared on the basis of performance of results (both quantity and quality of results) of their students in the university examination-2013.

Traditional courses normally include three courses- Arts, Commerce and Science. But it not possible to cover all the three courses in a single article, hence our study in this article, is associated only with the academic performance of teachers teaching Arts courses.

4. SELECTION OF SAMPLE COLLEGES

(i) Selection of Self-financing Colleges

C.C.S. University covers nine districts- Muzaffarnagar, Meerut, Bulandshahr, Saharanpur, Baghpat, Ghaziabad, Gautam Budh Nagar, Shamli and Hapur. As per list of C.C.S. University available on internet for the year 2012-13, there are 219 colleges (running traditional courses) in the University. Out of them 65 colleges are either government or aided colleges and rest 154 colleges are running under self-financing scheme. Out of 154 self-financing colleges 123 colleges are running Arts faculty. District-wise detail of which is given in Table 1. Out of these 123 colleges 104 colleges (i.e. 84.6% colleges) are established in 5

districts- Muzaffarnagar, Meerut, Bulandshahr, Saharanpur and Baghpat and remaining 19 colleges (i.e. 15.4% colleges) in rest 4 districts- Ghaziabad, Gautam Budh Nagar, Hapur and Shamli. Therefore, we have focussed our study with the self-financing colleges of these 5 districts where these colleges are established in a large number i.e. Muzaffarnagar, Meerut, Bulandshahr, Saharanpur and Baghpat. Stratified random sampling technique is used for the selection of sample colleges. 4 colleges (2 Girls colleges and 2 Co-ed colleges) have been taken from

each district for the purpose of analysis of data. Thus, from all the 5 districts 5X4=20 colleges (10 Girls colleges and 10 Co-ed colleges) have been taken. Districtwise detail of the sample self-financing colleges is given in Table 2 and Table 4, respectively. This sample of 20 self-financing colleges covers 16.3% of 123 self-financing colleges running Arts faculty in the whole university and 22.5% of 89 self-financing colleges established in 5 large districts.

Table 1 : District-Wise Summary of Government & Aided and Self-Financing Colleges of C.C.S. University, Meerut (2012-13)

S. No.	District	Total No. of Affiliated Colleges	No. of Govt. & Aided Colleges	No. of Self-financing Colleges	No. of Self-financing Colleges running Arts Faculty
1.	Muzaffarnagar	33	5	28	22
2.	Meerut	41	13	28	24
3.	Bulandshahr	39	12	27	22
4.	Saharanpur	37	10	27	21
5.	Baghpat	21	6	15	15
6.	Ghaziabad	23	9	14	7
7.	Gautam Budh Nagar	10	3	7	6
8.	Hapur	6	3	3	2
9.	Shamli	9	4	5	4
	Total	219	65	154	123

(ii) Selection of Govt. & Aided Sample Colleges

In order to compare the academic performance of the teachers teaching Arts subjects in above self-financing colleges with that of the teachers teaching the same subjects in Govt. & aided colleges, two Govt. & aided colleges (1 Girls college and 1 Co-ed college) have been taken from each out of these districts from which the sample self-financing colleges are. Govt. & aided sample colleges taken for the study are given in Table 3 and Table 5, respectively.

In order to make a comparison between academic performance of the teachers teaching traditional

courses (Arts courses) in self-financing colleges and that of the teachers teaching in Govt. & aided colleges, we have taken two samples-Sample-1 and Sample-2. Sample -1 is associated with the result of self-financing colleges and Sample-2 with that of Govt. & aided colleges.

5. COMPARASION OF SAMPLE

The comparative study of academic performance of teachers has been made under the following three heads-

(i) Comparison of Academic Performance of the Teachers Teaching Arts Subjects in Girls Colleges

There are 10 sample self-financing girls colleges of Arts faculty, detail of which is given in Table 2.

Table 2: Sample-1, Self-Financing Girls Colleges of Arts Faculty

District	Self-financing Girls Colleges of Arts Faculty	Total No, of students admitted	Total No. of students taken for purpose of study
1. Muzaffarnagar	1. Vidyotma Girls (P-G) College, Gangdhari	153	153
	2. M.A. Girls Degree College, Charthawal	116	116
2. Meerut	3. Bhawani Degree College, Shazahanpur	73	73
	4. L.D.A. Girls Degree College, Mawana	263	200
3. Bulandshahr	5. G.S. Girls (P-G) College, Bulandshahr	182	182
	6. S.M.C.K. Girls Degree Coliege, Sikandrabad	64	64
4. Saharanpur	7. T.R.S. Girls Degree College, Sarsawa	113	113
	8. Mirnalini Girls College, Harorah	26	26
5. Baghpat	9. Vedic Kanya Degree College, Tatiri	169	169
	10. Kalindi College, Baraut	97	97
TOTAL		1256	1193 (n₁)

These 10 self-financing girls colleges constituted Sample-1 for the purpose of comparison of academic performance of the teachers teaching Arts subjects in girls colleges.

In order to compare the academic performance of the teachers teaching Arts subjects in above self-financing girls colleges with that of the teachers teaching the same subjects in Govt. &

aided girls colleges, Sample-2 associated with Govt. & aided girls colleges has been taken from the same districts from which the self-financing girls colleges are. One Govt. or aided girls college has been taken from each such district. Detail of these Govt. and aided girls sample colleges is given in Table 3.

Table 3 : Sample-2, Govt. & Aided Girls Colleges of Arts Faculty

District	Govt. & Aided Girls Colleges of Arts Faculty	Total No. of students admitted	Total No. of students taken for purpose of study
1. Muzaffarnagar	1. J.K.P. (P-G) College, Muzaffarnagar	353	200
2. Meerut	3. R.G. (P-G) College, Meerut	834	417
3. Bulandshahr	4. A.K.P. (P-G) College, Khurja	237	200
3. Saharanpur	5. M.L.& J.N.K. Girls College, Saharanpur	711	356
4. Baghpat	6. J.A.V. Girls Degree College, Baraut	211	200
TOTAL		2346	1373 (n₂)

Since number of students admitted in these colleges (particularly in Govt. & aided colleges) was very large and it is neither essential nor desirable to take all the number of students from these colleges, we have taken a particular number of students from a college in the following manner. If in a college total number of students admitted was upto 200, total number of students admitted has been taken. If in a college total number of students admitted was between 201 and 400, a sample of first 200 students (starting from Roll No. 1 to 200) has been taken for

the purpose of study. And if number of students in a college exceeded 400, first 50% students of the total number of students admitted have been taken for the purpose of analysis.

(i) Comparison of Academic Performance of the Teachers Teaching Arts Subjects in Co-ed Colleges:

There are 10 sample self-financing co-ed colleges of Arts faculty, detail of which is given in Table 4.

Table 4 : Sample-1, Self-Financing Co-Ed. Colleges of Arts Faculty

District	Self-financing Co-ed. Colleges of Arts Faculty	Total No. of students admitted	Total No. of students taken for purpose of study
1. Muzaffarnagar	1. D.A.V. Degree College, Jansath	62	62
	2. S.K.D. Degree College, Bhopa	72	72
2. Meerut	3. Faiz-E-Aam Degree College, Meerut	148	148
	4. S.K.D. Degree College, Hastinapur	107	107
3. Bulandshahr	5. Syana (P-G) College, Ghansoorpur	109	109
	6. Ch.H.C.S. Degree College, Gotni	101	101
5. Saharanpur	7. T.K.S.M. (P-G) College, Rankhandi	126	126
	8. Islamia Degree College, Deoband	130	130
6. Baghpat	9. S.P.C. Degree College, Baghpat	158	158
	10. S.T.S. Jain Degree College, Khatta	71	71
TOTAL		1084	1084 (n₁)

These 10 self-financing co-ed. colleges constituted Sample-1 for the purpose of comparison of academic performance of the teachers teaching Arts subjects in co-ed. colleges.

In order to compare the academic performance of the teachers teaching Arts subjects in above self-financing co-ed. colleges with that of the

teachers teaching the same subjects in Govt. & aided co-ed. colleges, Sample-2 associated with Govt. & aided co-ed. colleges has been taken by taking one Govt. & aided college from each district. Detail of these Govt. & aided sample colleges is given in Table 5.

Table 5 : Sample-2, Govt. & Aided Co-Ed. Colleges of Arts Faculty

District	Govt. & Aided Co-ed Colleges of Arts Faculty	Total No. of students admitted	Total No. of students taken for purpose of study
1. Muzaffarnagar	1. S.D. College, Muzaffarnagar	514	257
2. Meerut	2. Meerut College, Meerut	827	414
3. Bulandshahr	3. N.R.E.C. College, Khurja	322	200
4. Saharanpur	5. J.V. Jain College, Saharanpur	701	351
6. Baghpat	6. D.J. College, Baraut	268	200
TOTAL		2632	1422 (n₂)

Since number of students admitted in these Govt. & aided colleges was too large, hence criteria of taking number of students from a college has been the same as it was in girls colleges.

(iii) Comparison of Academic Performance of the Teachers Teaching Arts subjects in Both Types of Colleges- (Girls Colleges and Co-ed. Colleges) :

There are 20 sample self-financing colleges of Arts faculty in all- 10 girls colleges and 10 co-ed colleges, detail of which is already given in Table 2 and Table 4, respectively. These 20 self-financing colleges constituted Sample-1 for the purpose of comparison of academic performance of the teachers teaching Arts subjects in both types of colleges (girls colleges and co-ed. colleges).

In order to compare the academic performance of the teachers teaching Arts subjects in above 20 self-financing girls and co-ed. colleges with that of teachers teaching the same subjects in Govt. & aided girls and co-ed. colleges, Sample-2 associated with Govt. & aided colleges contained 10 colleges- 5 girls colleges and 5 co-ed colleges. Detail of which is already given in Table 3 and Table 5, respectively.

6. BASE OF ANALYSIS

In order to make a comparative study of the academic performance of the teachers teaching traditional courses in self-financing colleges and that of the teachers teaching the same courses in Govt. & aided colleges on the basis of result performance, result of B.A. III Year-2013 in Arts faculty in the two types of colleges has been taken as the base for the purpose of analysis. Since there were various subjects at M.A. level and No. of students admitted was very short in each subject particularly in self-financing colleges, hence, if we take the results of all the subjects of M.A. level it will make the analysis too lengthy and the conclusion drawn on

the basis of too small samples may have biasness, Therefore, to make the study precise and to see the unbiased conclusion, we have taken the result of B.A. III Year as the base for the purpose of analysis.

7. COLLECTION OF DATA

Data regarding C.C.S. University of B.A. III Year examination- 2013, results of the students of various sample self-financing colleges and Govt. & aided colleges have been collected through internet on the computer as the same were made available by the University during July and August 2013.

Test for Difference between Proportions of Various Components of Result in Two Samples:

In order to test the difference between proportions of various components of result in two samples-1 associated with self-financing colleges, and Sample-2 associated with Govt. and aided colleges, statistical test for testing significance of the difference between two proportions has been applied.

8. VARIOUS COMPONENTS OF UNIVERSITY EXAMINATION RESULT

Various components of university examination result are as follows :

(a) Pass Students

the basis of percentage of marks obtained, all the pass students have further been divided into three categories as follows :

- (i) Ist Divisioners
- (ii) IInd Divisioners
- (iii) IIIrd Divisioners

(b) Fail Students

(c) Doubtful / Pending Cases

Doubtful / Pending cases included- (i) Detained Cases, (ii) Result Not Available and (iii) U.F.M.

Cases. Since, the result of these students was not cleared by the University, hence, all such cases have been kept under the category of doubtful/pending cases.

9. ANALYSIS AND FINDINGS

The Comparison of academic performance of the teachers teaching Arts subjects in self-financing colleges with that of the teachers teaching the same subjects in Govt. & aided colleges has been made under the following three heads-

(i) Comparison of Academic Performance of the Teachers Teaching Arts Subjects in Girls Colleges :

Table 6 and 7 study the University examination result of B.A.III Year- 2013 of sample self-financing and Govt. & aided girls colleges, respectively. Table 8 tests the significance of the difference between proportions of various components of result in the two types of colleges. Salient features of the performance of the result of B.A.III Year examination- 2013 in these two types of colleges are as follows :

(a) In self-financing girls colleges- out of a sample of 1193 students, 1095 students (i.e. 91.8% students) passed the B.A. III Year examination- 2013 (Table 6). In Govt. & aided girls colleges- out of a sample of 1373 students, 1283 students (i.e. 93.5% students) passed the same examination (Table 7). This shows that proportion of pass students in Govt. & aided girls colleges is slightly more than that in self-financing girls colleges. But this difference between the proportions of pass students in the two types of girls colleges is not significant (Table 8), which enables us to conclude that proportion of the pass students in the two types of girls colleges is almost equal.

(b) In self-financing girls colleges- out of a sample of 1193 students, 147 students (i.e. 12.3% students) secured 1st division in B.A. III Year

examination- 2013 (Table 6). In Govt. & aided girls colleges- out of a sample of 1373 students, 146 (i.e. 10.7% students) secured 1st division in the same examination (Table 7). This shows that proportion of 1st divisioners in self-financing girls colleges is more than that in Govt. & aided girls colleges. But this difference between the proportions of 1st divisioners in these two types of girls colleges is not significant (Table 8), which enables us to conclude that proportion of 1st divisioners in these two types of girls colleges is almost equal.

(c) In self-financing girls colleges- out of a sample of 1193 students, 718 students (i.e. 60.2% students) secured IInd division in B.A.III Year examination- 2013 (Table 6). In Govt. and aided colleges- out of a sample of 1373 students, 850 students (i.e. 61.9% students) secured IInd division in the same examination (Table 7). This shows that the proportion of the IInd divisioners in self-financing girls colleges is slightly less than that in Govt. & aided girls colleges. But this difference between the proportions of IInd divisioners in these two types of colleges is not significant (Table 8), which enables us to conclude that proportion of the IInd divisioners in these two types of colleges is almost equal.

(d) In self-financing girls colleges- out of a sample of 1193 students, 230 students (i.e. 19.3% students) secured IIIrd division in B.A. III Year examination- 2013 (Table 6). In Govt. & aided girls colleges- out of a sample of 1373 students, 287 students (i.e. 20.9% students) secured IIIrd division in the same examination (Table 7). This shows that the proportion of IIIrd divisioners is slightly more in Govt. & aided girls colleges than that in self-financing girls colleges. But this difference in the proportion of IIIrd divisioners in these two types of colleges is not significant (Table 8), which enables us to conclude that proportion of the IIIrd divisioners in these two types of colleges is almost equal.

**Table 6 : C.C.S. University Examination Result of B.A. III Year-2013
of Sample Self-Financing Girls Colleges**

Name of the Sample College	Total No. of students taken for Study	Pass Students				Fail	Doubtful/pending cases
		All	I div.	II div.	III div.		
(1) MUZAFFARNAGAR DISTRICT							
1. Vidyotma Girls (P-G) Coliege, Gangdhari	153 (100.0)	146 (95.4)	7 (4.6)	99 (64.7)	40 (26.1)	6 (3.9)	1 (0.7)
2. M.A. Girls Degree Coliege, Charthawal	116 (100.0)	91 (78.4)	8 (6.9)	52 (44.8)	31 (26.7)	25 (21.6)	—
(2) MEERUT DISTRICT							
3. Bhawani Degree College, Shahzahanpur	73 (100.0)	67 (91.8)	11 (15.1)	49 (67.1)	7 (9.6)	6 (8.2)	—
4. L.D.A. Girls Degree College, Mawana	200 (100.0)	187 (93.5)	18 (9.0)	105 (52.5)	64 (32.0)	13 (6.5)	—
(3) BULANDSHAR DISTRICT							
5. G.S. Girls (P-G) Coliege, Bulandshahr	182 (100.0)	174 (95.6)	41 (22.5)	111 (61.0)	22 (12.1)	4 (2.2)	4 (2.2)
6.S.M.C.K.Girls Deg.College,Shikandrabad	64 (100.0)	61 (95.3)	14 (21.9)	41 (64.0)	6 (9.4)	3 (4.7)	—
(4) SAHARANPUR DISTRICT							
7.T.R.S. Girls Degree College, Sarsawa	113 (100.0)	103 (91.2)	6 (5.3)	75 (66.4)	22 (19.5)	9 (8.0)	1 (0.8)
8. Mirnalini Girls College, Harorah	26 (100.0)	21 (80.7)	5 (19.2)	13 (50.0)	3 (11.5)	4 (15.4)	1 (3.9)
(5) BAGHPAT DISTRICT							
9. Vedic Kanya Degree College, Tatiri	169 (100.0)	154 (91.1)	32 (18.9)	97 (57.4)	25 (14.8)	15 (8.9)	—
10. Kalindi Coliege, Baraut	97 (100.0)	91 (93.8)	5 (5.1)	76 (78.4)	10 (10.3)	6 (6.2)	—
Total	1193 (100.0)	1095 (91.8)	147 (12.3)	718 (60.2)	230 (19.3)	91 (7.6)	7 (0.6)

Note : Figures in () show percentage to Total No. of students taken for study in respectie colleges or Total.

(e) In self-financing girls colleges- out of a sample 1193 students, 91 students (i.e. 7.6% students) failed in B.A.III Year Exam.- 2013 (Table 6). In Govt. & aided girls colleges- out of a sample of 1373 students, 87 students (i.e. 6.3% students) failed in the same examination (Table 7). This shows that the proportion of fail students is slightly more in self-financing girls colleges than that in Govt. & aided girls colleges. But this difference in the proportions of fail students in these two types of colleges is not significant (Table 8), which enables us to conclude that proportion of fail students in these two types of colleges is almost equal.

Thus, we see that the proportion of pass students, proportion of Ist divisioners, proportion of IInd divisioners, proportion of IIIrd divisioners and proportion of fail students is almost equal in the two types of colleges. This clearly shows that both- quantity-wise and quality-wise self-financing and Govt. & aided girls colleges produced almost equal result. Hence, it can safely be concluded that both- quantity-wise and quality-wise academic performance of the teachers teaching traditional courses (Arts subjects) both in Self-financing and Govt. & aided girls colleges is almost equal.

Table 7 : C.C.S. University Examination Result of B.A. III Year-2013 of Sample Govt. & Aided Girls Colleges

Name of the Sample College	Total No. of Students taken for Study	Pass Students				Fail	Doubtful/ pending cases
		All	I div.	II div.	III div.		
(1) MUZAFFARNAGAR DISTRICT 1. J.K.P.(P-G) College, Muzaffarnagar	200 (100.0)	183 (91.5)	7 (3.5)	121 (60.5)	55 (27.5)	16 (8.0)	1 (0.5)
(2) MEERUT DISTRICT 2. R.G. Girls (P-G) College, Meerut	417 (100.0)	391 (93.7)	43 (10.3)	269 (64.5)	79 (18.9)	24 (5.8)	2 (0.5)
(3) BULANDSHAHR DISTRICT 3. A.K.P. Girls (P-G) College, Khurja	200 (100.0)	188 (94.0)	12 (6.0)	133 (66.5)	43 (21.5)	12 (6.0)	-
(4) SAHARANPUR DISTRICT 4.M.L.&J.N.K. Girls College, Saharanpur	356 (100.0)	331 (93.0)	39 (11.0)	210 (59.0)	82 (23.0)	25 (7.0)	
(5) BAGHPAT DISTRICT 5. J.A.V. Girls Degree College, Baraut	200 (100.0)	190 (95.0)	45 (22.5)	117 (58.5)	28 (14.0)	10 (5.0)	
Total	1373 (100.0)	1283 (93.5)	146 (10.7)	850 (61.9)	287 (20.9)	87 (6.3)	3 (0.2)

Note : Figures in () show percentage to Total No. of students taken for study in respective colleges or Total.

(ii) Comparison of Academic Performance of the Teachers Teaching Arts Subjects in Co. ed. Colleges :

Table 9 and Table 10 study the University examination result of B.A.III Year- 2013 of sample self-financing and Govt. & aided co-ed. colleges, respectively. Table 11 tests the significance of the difference between proportions of various components of result in these two types of colleges. Salient features of the performance of the result of B.A.III Year examination- 2013 in these two types of colleges are as follows-

(a) In self-financing co-ed. colleges- out of a sample of 1084 students, 921 students (i.e. 85% students) passed the B.A. III Year examination-2013 (Table 9). In Govt. & aided co-ed. colleges- out of a sample of 1422 students, 1196 students (i.e. 84.1% students) passed the same examination (Table 10). This shows that proportion of pass students in self-financing co-ed. colleges is slightly more than that in Govt. & aided co-ed. colleges. But this difference between the proportions of pass students in these two types of colleges is not significant (Table 11), which enables us to conclude that proportion of the pass students in these two types of co-ed colleges is almost equal.

(b) In self-financing co-ed. colleges- out of a sample of 1084 students, 66 students (i.e. 6.1% students) secured 1st division in B.A. III Year examination- 2013 (Table 9). In Govt. & aided co-ed. colleges- out of a sample of 1422 students, 89 students (i.e. 6.3% students) secured 1st division in the same examination (Table 10). This shows that proportion of 1st divisioners in Govt. & aided co-ed. colleges is slightly more than that in self-financing co-ed. colleges. But this difference between the proportions of 1st divisioners in these two types of colleges is not significant (Table 11), which enables us to conclude that proportion of 1st divisioners in the two types of co-ed. colleges is almost equal.

(c) In self-financing co-ed. colleges- out of a sample of 1084 students, 540 students (i.e. 49.8% students) secured IIInd division in B.A.III Year examination- 2013 (Table 9). In Govt. & aided co-ed. colleges- out of a sample of 1422 students, 739 students (i.e. 52% students) secured IIInd division in the same examination (Table 10). This shows that the proportion of the IIInd divisioners in Govt. & aided co-ed. colleges is slightly more than that in self-financing co-ed. colleges. But this difference between the proportions of IIInd divisioners in these two types of colleges is not significant (Table 11), which enables us to conclude that proportion of the IIInd divisioners in these two types of colleges is almost equal.

(d) In self-financing co-ed. colleges- out of a sample 1084 students, 315 students (i.e. 29.1% students) secured IIIrd division in B.A. III Year examination- 2013 (Table 9). In Govt. & aided co-ed. colleges- out of a sample of 1422 students, 368 students (i.e. 25.9% students) secured IIIrd division in the same examination (Table 10). This shows that proportion of IIIrd divisioners in self-financing co-ed. colleges is more than that in Govt. & aided co-ed. colleges. But this difference between the IIIrd divisioners in these two types of colleges is not significant (Table 11), which enables us to conclude that proportion of IIIrd divisioners in these two types of colleges is almost equal.

(e) In self-financing co-ed. colleges- out of a sample 1084 students, 152 students (i.e. 14% students) failed in B.A. III Year examination- 2013 (Table 9). In Govt. & aided co-ed. colleges- out of a sample 1422 students, 223 students (i.e. 15.7% students) failed in the same examination (Table 10). This shows that the proportion of fail students is slightly more in Govt. & aided co-ed. colleges than that in self-financing co-ed. colleges. But this difference between the proportions of fail students in these two types of colleges is not significant (Table 11), which enables us to conclude that proportion of fail students in these two types of colleges is almost equal.

Table 8 : Testing of Significance for Difference Between Proportions of Various Components of Result of B.A. III Year-2013 In Self-Financing and Govt. & Aided Girls Colleges

Test for difference between proportions of	Sample-1 (Self-financing Girls Colleges)			Sample-2 (Govt. & Aided Girls Colleges)			Difference between proportions $D = \sigma p_1 - p_2$
	n_1	x_1	$p_1 = x_1/n_1$	n_2	x_2	$p_2 = x_2/n_2$	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. All pass students	1193	1095	0.918	1373	1283	0.934	0.016
2. I Divisioners	1193	147	0.123	1373	146	0.106	0.017
3. II Divisioners	1193	718	0.602	1373	850	0.619	0.017
4. III Divisioners	1193	230	0.193	1373	287	0.209	0.016
5. Fail students	1193	91	0.076	1373	87	0.063	0.013

**Table 9 : C.C.S. University Examination Result of B.A. III Year-2013
of Sample Self-Financing Co-Ed. Colleges**

Name of the Sample College	Total No. of Students taken for Study	Pass Students				Fail	Doubtful/ pending cases
		All	I div.	II div.	III div.		
MUZAFFARNAGAR DIST							
1. D.A.V. Degree College, Jansath	62 (100.0)	57 (91.9)	6 (9.7)	31 (50.0)	20 (32.2)	5 (8.1)	5 (2.5)
2. S.K.D. Degree College, Bhopa	72 (100.0)	66 (91.7)	4 (5.6)	46 (63.8)	16 (22.3)	6 (8.3)	-
(2) MEERUT DIST.							
3. Faiz-E-Aam Degree College, Meerut	148 (100.0)	118 (79.7)	2 (1.3)	43 (29.1)	73 (49.3)	30 (20.3)	-
4. S.K.D. Degree College, Hastinapur	107 (100.0)	90 (84.1)	6 (5.6)	52 (48.6)	32 (29.9)	16 (15.0)	1 (0.9)
(2) BULANDSHAR DIST.							
4. Syana P-G College, Ghansoorpur	109 (100.0)	101 (92.7)	5 (4.6)	50 (45.9)	46 (42.2)	6 (5.5)	2 (1.8)
5. Ch.H.C.S. Degree College, Gotni	101 (100.0)	84 (83.2)	5 (5.0)	48 (47.5)	31 (30.7)	16 (15.8)	1 (1.0)
(5) SAHARANPUR DIST.							
10. T.K.S.M. College, Rankhandi	126 (100.0)	102 (80.9)	13 (10.3)	56 (44.5)	33 (26.1)	22 (17.5)	2 (1.6)
11. Islamia Degree College, Deoband	130 (100.0)	121 (93.0)	4 (3.1)	94 (72.3)	23 (17.6)	8 (6.2)	1 (0.8)
(6) BAGHPAT DIST.							
12. S.P.C. Degree College, Baghpat	158 (100.0)	130 (82.3)	19 (12.0)	81 (51.3)	30 (19.0)	25 (15.8)	3 (1.9)
13. S.T.S Jain Degree College, Khatta	71 (100.0)	52 (73.2)	2 (2.8)	39 (55.0)	11 (15.4)	18 (25.4)	1 (1.4)
Total	1084 (100.0)	921 (85.0)	66 (6.1)	540 (49.8)	315 (29.1)	152 (14.0)	11 (1.0)

Note : Figures in () show percentage to Total No. of students taken for study in respective colleges or Total.

Thus, we see that the proportion of pass students, proportion of Ist divisioners, proportion of IIrd divisioners, proportion of IIIrd divisioners and proportion of fail students is almost equal in the two types of colleges. This clearly shows that both- quantity-wise and quality-wise self-financing and Govt. & aided co-ed. colleges produced almost equal result. Hence, it can safely be concluded that both- quantity-wise and quality-wise academic performance of the teachers teaching traditional courses (Arts subjects) both in Self-financing and Govt. & aided co-ed. colleges is almost equal.

**Table 10 : C.C.S. University Examination Result of B.A. III Year-2013
of Sample Govt. & Aided Co-Ed. Colleges**

Name of the Sample College	Total No. of Students taken for Study	Pass Students		
		All	I div.	II div.
MUZAFFARNAGAR DISTRICT				
1. S.D. College, Muzaffarnagar	257 (100.0)	235 (91.4)	24 (9.3)	
(2) MEERUT DISTRICT				
2. Meerut College, Meerut	414 (100.0)	328 (79.2)	16 (3.9)	
(3) BULANDSHAHR DISTRICT				
3. N.R.E.C. College, Khurja	200 (100.0)	174 (87.0)	10 (5.0)	
(5) SAHARANPUR DISTRICT				
5. J.V. Jain College, Saharanpur	351 (100.0)	293 (83.5)	20 (5.7)	
(6) BAGHPAT DISTRICT				
6. D.J. College, Baraut	200	166	19	

Note : Figures in () show percentage to Total No. of students taken for study in respective colleges or Total.

(iii) Comparison of Academic Performance of Teachers Teaching Arts Subjects in Both Types of Colleges (Girls Colleges and Co-ed. Colleges):

Table 12 and 13 study University examination result of B.A.III Year- 2013 of sample self-financing and Govt. & aided colleges, (both-girls colleges and co-ed. colleges combinedly), respectively. Table 14 tests the significance of the difference between proportions of various components of result in these two types of colleges. Salient features of the performance of the result of B.A.III Year examination- 2013 in these two types of colleges are as follows :

(a) In self-financing colleges- out of a sample of 2277 students, 2016 students (i.e. 88.6% students) passed the B.A. III Year examination- 2013 (Table 12). In Govt. & aided colleges- out of a sample of 2795 students, 2479 students (i.e. 88.7% students) passed the same examination (Table 13). This shows that the proportion of pass students is slightly more in Govt. & aided colleges than that in self-financing colleges. But this difference between the proportions of pass students in these two types of colleges is not significant (Table 14), which enables us to conclude that proportion of the pass students in these two types of colleges is almost equal.

(b) In self-financing colleges- out of a sample of 2277 students, 213 students (i.e. 9.4% students) secured 1st division in B.A. III Year examination- 2013 (Table 12). In Govt. & aided colleges- out of a sample of 2795 students, 235 (i.e. 8.4% students) secured 1st division in the same examination (Table 13). This shows that proportion of 1st divisioners is more in self-financing colleges than that in

Govt. & aided colleges. But this difference between the proportions of 1st divisioners in these two types of colleges is not significant (Table 14), which enables us to conclude that proportion of the 1st divisioners in these two types of colleges is almost equal.

(c) In self-financing colleges- out of a sample of 2277 students, 1258 students (i.e. 55.2% students) secured IIInd division in B.A.III Year examination- 2013 (Table 12). In Govt. & aided colleges- out of a sample of 2795 students, 1589 students (i.e. 56.9% students) secured IIInd division (Table 13). This shows that proportion of the IIInd divisioners is slightly more in Govt. & aided colleges than that in self-financing colleges. But this difference between the proportions of IIInd divisioners in these two types of colleges is not significant (Table 14), which enables to conclude that proportion of the IIInd divisioners in these two types of colleges is almost equal.

(d) In self-financing colleges- out of a sample 2277 students, 545 students (i.e. 24% students) secured IIIrd division in B.A. III Year examination- 2013 (Table 12). In Govt. & aided colleges- out of a sample of 2795 students, 655 students (i.e. 23.4% students) secured IIIrd division in the same examination (Table 13). This shows that proportion of IIIrd division is slightly more in self-financing colleges than that in Govt. & aided co-ed. colleges. But this difference between the proportions of IIIrd divisioners in these two types of colleges is not significant (Table 14), which enables us to conclude that proportion of IIIrd divisioners in these two types of colleges is almost equal.

(e) In self-financing colleges- out of a sample 2277 students, 243 students (i.e. 10.7% students) failed in B.A. III Year Exam. 2013 (Table 12). In Govt. & aided colleges- out of a sample of 2795 students, 310 students (i.e. 11.1% students) failed in the same Exam. (Table 13). This shows that proportion of fail students is slightly more in Govt. & aided colleges than that in self-financing colleges. But this difference between the proportions fail students in these two types of colleges is not significant (Table 14), which enables us to conclude that proportion of fail students in these two types of colleges is almost equal.

**Table 12 : C.C.S. University Examination Result of B.A. III Year-2013
of Sample Self-Financing Colleges
(Both Girls Colleges and Co-Ed. Colleges Combindly)**

Detail	Total No. of Students taken for Study	Pass Students				Fail	Doubtful/pending cases
		All	I div.	II div.	III div.		
All Self-financing Girls Colleges	1193 (100.0)	1095 (91.8)	147 (12.3)	718 (60.2)	230 (19.3)	91 (7.6)	7 (0.6)
All Self-fin. Co-ed. Colleges	1084 (100.0)	921 (85.0)	66 (6.1)	540 (49.8)	315 (29.1)	152 (14.0)	11 (1.0)
Total	2277 (100.0)	2016 (88.6)	213 (9.4)	1258 (55.2)	545 (24.0)	243 (10.7)	18 (0.7)

Note : Figures in () show percentage to Total No. of students taken for study in respectie colleges or Total.

**Table 13 : C.C.S. University Examination Result of B.A. III Year-2013
of Sample Govt. & Aided Co-Ed. Colleges
(Both Girls Colleges and Co-Ed. Colleges Combindly)**

Detail	Total No. of Students taken for Study	Pass Students				Fail	Doubtful/pending cases
		All	I div.	II div.	III div.		
All Govt. & aided Girls Colleges	1373 (100.0)	1283 (93.5)	146 (10.7)	850 (61.9)	287 (20.9)	87 (6.3)	3 (0.2)
All Govt. & aided Co-ed. Colleges	1422 (100.0)	1196 (84.1)	89 (6.3)	739 (52.0)	368 (25.9)	223 (15.7)	3 (0.2)
Total	2795 (100.0)	2479 (88.7)	235 (8.4)	1589 (56.9)	655 (23.4)	310 (11.1)	6 (0.2)

Note : Figures in () show percentage to Total No. of students taken for study in respectie colleges or Total.

Table 14 : Testing of Significance for Difference Between Proportions of Various Components of Result of B.A. III Year-2013 In Self-Financing and Govt. & Aided Colleges (Both Girls College and Co-Ed. Colleges Combindly)

Test for difference between proportions of	Sample-1 (Self-financing Colleges)			Sample-2 (Govt. & Aided Colleges)			Difference between proportions	Pooled estimate of proportions	Value of q	Standard error of difference between proportions	Ratio of Difference between proportions and S.E.	W Dif br prof sign not s
	n ₁	x ₁	p ₁ = x ₁ /n ₁	n ₂	x ₂	p ₂ = x ₂ /n ₂						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1. All pass students	2277	2016	0.885	2795	2479	0.887	0.002	$\frac{2016 + 2479}{2277 + 2795} = 0.886$	0.114	$\sqrt{0.866 \times 0.114 \left(\frac{1}{2277} + \frac{1}{2795} \right)}$ = 0.090	$\frac{0.002}{0.0090} = 0.223$	Not t
2. I Divisioners	2277	213	0.094	2795	235	0.084	0.01	$\frac{213 + 235}{2277 + 2795} = 0.088$	0.912	$\sqrt{0.088 \times 0.912 \left(\frac{1}{2277} + \frac{1}{2795} \right)}$ = 0.0080	$\frac{0.01}{0.0080} = 1.25$	Not t
3. II Divisioners	2277	1258	0.552	2795	1589	0.569	0.017	$\frac{1258 + 1589}{2277 + 2795} = 0.561$	0.439	$\sqrt{0.561 \times 0.439 \left(\frac{1}{2277} + \frac{1}{2795} \right)}$ = 0.0140	$\frac{0.017}{0.0140} = 1.21$	Not t
4.III Divisioners	2277	545	0.239	2795	655	0.234	0.005	$\frac{545 + 655}{2277 + 2795} = 0.237$	0.763	$\sqrt{0.237 \times 0.763 \left(\frac{1}{2277} + \frac{1}{2795} \right)}$ = 0.0120	$\frac{0.005}{0.0120} = 0.417$	Not t
5.Fail students	2277	243	0.107	2795	310	0.111	0.004	$\frac{243 + 310}{2277 + 2795} = 0.109$	0.891	$\sqrt{0.109 \times 0.891 \left(\frac{1}{2277} + \frac{1}{2795} \right)}$ = 0.0088	$\frac{0.004}{0.0088} = 0.455$	Not t

Thus, we see that the proportion of pass students, proportion of 1st divisioners, proportion of 2nd divisioners, proportion of 3rd divisioners and proportion of fail students is almost equal in the two types of colleges. This clearly shows that both-quantity-wise and quality-wise self-financing and Govt. & aided colleges produced almost equal result. Hence, it can safely be concluded that both-quantity-wise and quality-wise academic performance of the teachers teaching traditional courses (Arts subjects) both in Self-financing and Govt. & aided colleges is almost equal.

10. CONCLUSION

From the foregoing analysis it can safely be concluded that whether they are girls colleges or co-ed colleges or they are combined together we find that academic

performance of the teachers teaching Arts subjects in self-financing colleges and that of the teachers teaching the same subjects in Govt. & aided colleges is almost equal. To be more clear, teachers teaching in self-financing colleges are performing at par with the teachers teaching in Govt. & aided colleges.

11. SUGGESTIONS

Since the teachers teaching in self-financing colleges are performing at par with the teachers teaching in Govt. & aided colleges, the Govt. should sincerely think over the piteous socio-economic condition of the teachers teaching in self-financing colleges as their future in the hands of private management is not secured.

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