



# “Factors affecting to academic performance of the student studying in selected college of Nursing in Ahmednagar district Maharashtra”.

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## Abstract

At mostly evaluation of school/college and university done on the basis of student's performance. The majority of college/school, administration and work places applied the marks of students to assess the academic performance in a semester or final examination, so each and every student very serious about their marks/result of semester. Academic Performance of the students is affected by psychological, economic, social, personal and environmental factors. Though these factors strongly influence the performance of students, but these factors differ from country to country and person to person. **Objectives:** 1) Assess the factors affecting to academic performance of first year B.Sc. nursing & first year GNM students. 2) Compare factors affecting to academic performance of first year B.Sc. nursing & first year GNM students. 3) To find the association between factors affecting to academic performances with selected sociodemographic and educational variables. 4) To prepare information pamphlet as per study findings on factors affecting academic performance of nursing students.

**Material and Methods:** Comparative descriptive research design with cross sectional survey approach was used for the present study to find out factors affecting to academic performance of student studying in selected college of nursing. 100 nursing students (50 first year BSc Nursing and 50 GNM students) from selected nursing college in Ahmednagar district, Maharashtra, with Non probability convenient sampling technique. **Result:** The comparison of factors affecting academic performance of first year B.Sc. nursing & first year GNM students which shows; High level affected factors i.e. Personal condition mean score was  $(2.82 \pm 1.99)$  Vs  $(5.4 \pm 6.46)$ , teacher related aspect mean score  $(6.6 \pm 3.87)$  Vs  $(11.9 \pm 6.97)$ , teaching learning activities mean score  $(2.52 \pm 3.06)$  Vs  $(8.74 \pm 5.11)$ , then Moderate level affected factors i.e. study habit mean score  $(7.66 \pm 5.05)$  Vs  $(9.56 \pm 5.78)$  and home related aspect mean score  $(8.08 \pm 4.49)$  Vs  $(7.14 \pm 4.28)$  whereas Equally affected factor i.e. college related aspect mean score  $(10.42 \pm 4.15)$  Vs  $(10.44 \pm 5.27)$  respectively. Overall factors affecting academic level among

first BSc nursing students Vs first year GNM students mean score was  $(38.1 \pm 13.91)$  Vs  $(53.18 \pm 20.47)$ . These factors are affecting on academic performance of first year BSc nursing students and GNM students. **Conclusion:** The findings concluded that the environmental, social, economical and negative influence of media (Mobile and easy internet access) factors are mostly affected on academic performance of first year B.Sc. nursing & first year GNM students. On the basis of findings to get improvement in academic performance of students having need to use some preventive and effective strategies.

**Keywords:** Academic performance, factors, students, college of Nursing,

## I. Introduction

At mostly evaluation of school/college and university done on the basis of students' performance. Same as students' evaluation also based on their academic performance. The majority of college/school, administration and work places applied the marks of students to assess the academic performance in a semester or final examination, so each and every student very serious about their marks/result of semester. Academic Performance of the students is affected by psychological, economic, social, personal and environmental factors. Though these factors strongly influence the performance of students, but these factors differ from country to country and person to person. <sup>1</sup>

Most of the previous studies on academic performance of students focused on such issue like teacher education, class environment, reading material, gender difference, teaching style, exam framework, family education background and socioeconomic factor. In order to identify, investigator conducted comparative study to assess factors affecting on level of academic performance in between first year B.Sc. nursing and first year GNM students. a modified academic performance scale was used to assess the factors affecting on academic performance of nursing student. <sup>2</sup>

Students are the key assets colleges. The student's performance plays an important role in producing best quality graduates or diplomatic, who will become great leaders, professionals and manpower for the country thus responsible for the country's economic, social and professional development. Academic achievement is one of the major factors considered by employers in hiring workers process, especially for the freshers, they may be degree or diplomatic. Thus, student have to put greatest efforts in their study to obtain good grades or marks. Students have to prepare themselves for future opportunities in their carrier at the same time to fulfil the employer's demand. <sup>3</sup>

Nursing education in health department plays a crucial role in the economic, social and health development of nations and individuals. This study purpose is to determine the factors affecting to academic performance of student studying in selected college of nursing. In this line, this research has conducted to determine the factors that affect the academic performance of the nursing student which may consequently help in the improvement of student and teachers alike. This study may benefit the students by allowing them to understand better the factors that can affect their academic performance. <sup>4</sup>

## I.1 Statement of the problem

Factors affecting to academic performance of the student studying in selected college of Nursing in Ahmednagar district Maharashtra.

## I.2. Objectives

1. Assess the factors affecting to academic performance of first year B.Sc. nursing & first year GNM students.
2. Compare factors affecting to academic performance of first year B.Sc. nursing & first year GNM students.
3. To find the association between factors affecting to academic performances with selected sociodemographic and educational variables.
4. To prepare information pamphlet as per study findings on factors affecting academic performance of nursing students.

## II. Methodology

### II.1. Research design and approach

Research design provide the back bone structure of study. Quantitative evolution approach was used for this study. The study approach focuses on collecting information regarding academic performance of sociodemographic variables, educational variables and questionnaire technique. Here, Comparative descriptive research design with cross sectional survey approach was used for the present study to find out factors affecting to academic performance of student studying in selected college of nursing.

### II.2. Setting of the study

The setting chosen for this study was first year B.Sc. nursing and GNM students of selected college of nursing in Ahmednagar district in Maharashtra.

**II.3. Sample:** Samples were first year B.Sc. nursing and GNM students, who was studying in selected college of nursing in Ahmednagar district, Maharashtra.

**II.4. Sample size :** Sample size for this study is 100 students (50 first year BSc Nursing and 50 GNM students) from selected nursing college in Ahmednagar district, Maharashtra.

**II.5. Sample Technique:** Non probability convenient sampling technique used for the present study.

### II.6. Sampling procedure

With help of android mobiles, the data was collected (Google form was created to assess factors affecting academic performance of nursing students. The same link sends to WhatsApp group of first year B.Sc. nursing and first year GNM students). For the data collection 40-45 minutes given to the students, after that responses were closed from my side, then these responses taken in excel sheet. Excel sheet of google form extracted for analysis of data.

- Following google link was used for data collection

[https://docs.google.com/forms/d/e/1FAIpQLSdRlcWCZxTtCrUTD-462E2u1RklrJWcfeSmlIQxArqftxRtXQ/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSdRlcWCZxTtCrUTD-462E2u1RklrJWcfeSmlIQxArqftxRtXQ/viewform?usp=pp_url)).

## II.7. Inclusion and Exclusion criteria

### Inclusion Criteria:

- Students who were present during data collection.
- Students who were willing to participate.
- Students of first year B.Sc. nursing and first year GNM students.

### Exclusion Criteria:

- Student who are not able to respond of acute physical and psychological morbidity.

## II.8. Tool

**Part-I: Sociodemographic variables:** It includes age, gender, religion, marital status, type of family, number of siblings, education of father, education of mother, occupation of father, occupation of mother, monthly family income, area of residence, staying with(area), entry into nursing, distance of college from residence, spending leisure time and education programme.

**Part-II: Structured questionnaires:** To assess academic performance tool will be developed by considering Academic performance, Personal factors, Study habits, Home related aspect, School-related aspects, teacher-related aspect and teaching learning activity.

## II.8. Data collection procedure

### 1) Ethical aspect

**a) Ethical clearance:** Proposal was presented before Institutional Ethics Committee and Institutional Research Committee of P.I.M.S. (DU), Loni and ethical clearance has been obtained.

### b) Permission from Concerned Authority:

Written permission has been obtained from Principals of selected colleges of nursing in Ahmednagar district Maharashtra.

### c) Informed Written Consent:

Explanations regarding study and its objectives has been given to study subjects. Subjects has been assured for anonymity and confidentiality of data given by them. Written consent has been obtained for participation in the study.

## II.9. Data analysis

Descriptive and inferential statistics was used for data analysis. The collected data organized and tabulated by using descriptive statistics included Frequency, percentage, mean and standard deviation. Modified Likert scale was used to measure the respondent's opinion towards a particular factor. Chi square test was used to find out the association of factors affecting to academic performance of students with their selected demographic variables.

## III. Results

### III.1. Distribution of study participants as per sociodemographic and educational characteristics

The sociodemographic and educational characteristics distribution of the study participants as shown in the table no.1 reveal that 94% B.Sc. nursing and 70% GNM students belongs to age group of 18-20 years. 80% B.Sc. nursing and 36% GNM students belongs to male gender, followed by 20% B.Sc. nursing and 64% GNM students belongs to female gender. (94%) B.Sc. nursing and (98%) GNM students belong to the Hindu religion. (96%) of B.Sc. nursing and (78%) GNM students were Unmarried. (58%) of B.Sc. nursing and (70%) GNM students belongs to nuclear family. (88%) of B.Sc. nursing and 14(28%) of GNM students belongs 0- 1 siblings. The majority (34%) of B.Sc. nursing and (36%) of GNM students father educated up to secondary school. (68%) of B.Sc. nursing and (62%) of GNM students' father were farmer. (62%) of B.Sc. nursing and (64%) of GNM students' mother were housewife. (36%) of B.Sc. nursing students and (24%) of GNM students belong to 6,175-18,496 monthly family income. (94%) of B.Sc. nursing students and (76%) of GNM students belongs to a rural area. (86%) of B.Sc. nursing of students and (74%) of GNM students staying with parents. (80%) B.Sc. nursing students came willingly in nursing profession whereas (74%) students from GNM came by willingly in nursing profession. (68%) B.Sc. nursing students and (86%) GNM students' distance of college from residence was 0-20 km. (58%) B.Sc. nursing students spending leisure time on social media whereas (68%) by reading books respectively.

### III.2 : Assessment of factors affecting to academic performance of first-year B.Sc. nursing & first-year GNM students

Assessment of factors affecting academic performance of 100 selected sample in each 50 samples of first year B.Sc. nursing & first year GNM students which shows High level affected factors i.e. Personal condition mean score was  $(2.82 \pm 1.99)$  Vs  $(5.4 \pm 6.46)$ , teacher related aspect mean score  $(6.6 \pm 3.87)$  Vs  $(11.9 \pm 6.97)$  and teaching learning activities mean score  $(2.52 \pm 3.06)$  Vs  $(8.74 \pm 5.11)$ , then Moderate level affected factors i.e. study habit mean score  $(7.66 \pm 5.05)$  Vs  $(9.56 \pm 5.78)$  and home related aspect mean score  $(8.08 \pm 4.49)$  Vs  $(7.14 \pm 4.28)$  whereas Equally affected factor i.e. college related aspect mean score  $(10.42 \pm 4.15)$  Vs  $(10.44 \pm 5.27)$  respectively. Overall factors affecting academic level among first BSc nursing students Vs first year GNM students score mean was  $(38.1 \pm 13.91)$  Vs  $(53.18 \pm 20.47)$ . These are the factors affecting on academic performance of GNM students and first BSc nursing students

**Table no 1. Awareness level of factors affecting to academic performance of first year B.Sc. nursing and GNM students** **n=100**

Awareness level of factors affecting to academic performance of first year B.Sc. nursing and GNM students					
Awareness Level	Score	BSc Nursing		GNM	
		Mean	SD	Mean	SD
Poor awareness	96 - 144	0	±0	107.33	±10.96
Average awareness	49 - 95	56.62	±8.33	62.07	±10.84
Good awareness	0 - 48	34.57	±11.81	35.15	±10.38

Table no 1. Shows that the awareness level of factors affecting to academic performance of first year B.Sc. nursing Vs first year GNM students which shows awareness mean score was; Poor awareness ( $0 \pm 0$  Vs  $107.33 \pm 10.96$ ) score, Average awareness ( $56.62 \pm 8.33$  Vs  $62.07 \pm 10.84$ ) score and Good awareness ( $34.57 \pm 11.81$  Vs  $35.15 \pm 10.38$ ) score respectively.

### III.3. Comparison of factors affecting academic performance of first year B.Sc. nursing & first year GNM students.

**Table no 2.**

**n=100**

Aspect wise comparison of factors affecting to academic performance of first year B.Sc. nursing and GNM students							
BSc				GNM			
Factors	score	Mean	SD	Factors	score	mean	SD
I. Personal condition	0-24	2.82	±1.99	I. Personal condition	0-24	5.4	±6.46
II. Study habits	0-28	7.66	±5.05	II. Study habits	0-28	9.56	±5.78
III. Home related aspect	0-16	8.08	±4.49	III. Home related aspect	0-16	7.14	±4.28
IV. College related aspect	0-28	10.42	±4.15	IV. College related aspect	0-28	10.44	±5.27
V. Teacher related aspect	0-28	6.6	±3.87	V. Teacher related aspect	0-28	11.9	±6.97

VI. Teaching learning activities	0-25	2.52	±3.06	VI. Teaching learning activities	0-25	8.74	±5.11
<b>Overall</b>	<b>0-144</b>	<b>38.1</b>	<b>±13.91</b>	<b>over all</b>	<b>0-144</b>	<b>53.18</b>	<b>±20.47</b>

Overall factors of first BSc nursing students Vs first year GNM students affecting academic performance mean score ( $38.1 \pm 13.91$ ) Vs ( $53.18 \pm 20.47$ ) respectively, it shows that Overall factors of GNM first year students affecting more on academic performance of GNM students as compare to first BSc nursing students.

#### III.4. Association of factors affecting to academic performances of first year B.Sc. nursing & first year GNM students with selected sociodemographic and educational variables.

Table no 3.

n=100

Association of factors affecting academic performance of first year BSc nursing and first year GNM students									
S.r no	Demographical variables	First year BSc nursing students				First year GNM students			
		X <sup>2</sup> cal	X <sup>2</sup> table	D.F	Significance	X <sup>2</sup> cal	X <sup>2</sup> table	D.F	Significance
1	Age	0.7056	12.592	6	Non Significance	18.2848	12.592	6	Significance
2	Number of siblings	2.4304	15.507	8	Non significance	34.5632	15.507	8	significance
3	Monthly Family income	11.5248	21.02	12	Non significance	29.6976	21.02	12	significance
4	Distance of college from Residence	0.5328	12.592	6	Non significance	2.9152	12.592	6	Non significance

\*Level of significance at 95% and 5% error

Table no 3 shows that there was no any association between factors affecting academic performance with selected sociodemographic and educational variables of first year B.Sc. nursing students and in first year GNM students, sociodemographic variables like age, number of siblings, and family income having significant association with the factors affecting to academic performances of first year GNM students whereas non significant association with distance of college from residence with level of significance at 95% and 5% error respectively.

#### IV. Discussion

Discussion were drawn on the basis of present study findings by using non probability convenient sampling technique with cross-sectional survey approach. Overall factors affecting academic performance among first BSc nursing students Vs first year GNM students value was  $(38.1 \pm 13.91)$  Vs  $(53.18 \pm 20.47)$ . The study interprets that overall factors were most affecting academic performance of GNM students as compare to BSc. Nursing students.

It was observed that there was no any association between factors affecting academic performance with selected sociodemographic and educational variables of first year B.Sc. nursing students. No any association between factors affecting academic performance with selected sociodemographic and educational variables of first year GNM students; for distance of college from residence and significant association variables of first year GNM students; for age, number of siblings, and family income respectively with level of significance at 95% and 5% error respectively.

This shows that result was significant at  $p < 0.05$ . This shows that academic performance was affected in first year B.Sc. nursing & first year GNM students.

These findings were supported by study conducted by Chris Thomas, on factors affecting academic performance of B.Sc. nursing students. who studying in selected nursing college, Rajasthan.

#### V. Conclusion

There are various unavoidable educational and academic factors seriously affecting on students performance. This factors always neglected and underestimated which are important in all nursing students academic performance. According to study finding the environmental, social, economical and negative influence of media (Mobile and easy internet access) factors had mostly affected on academic performance of first year B.Sc. nursing & first year GNM students. On the basis of findings to get improvement in academic performance of students using need to use some strategies in that information regarding to deal effectively and prevention of those factors affecting on academic performance and also effective use relaxation techniques like which can be easily followed by in our day-to-day life; Such as meditation, yoga, relaxed breathing exercise, imagery and coping with stress in academic performance.

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