STUDENTS FEEDBACK ABOUT LECTURE ROOMS TO IMPROVE THE EFFECTIVENESS OF THE LECTURES

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ABSTRACT: OBJECTIVES:

The study aim was to determine the feedback regarding the environment, satisfaction and further needs for modification in improving the effectiveness of the lecture.

METHODOLOGY:

It was a cross-sectional study to measure the student's feedback about lecture rooms to improve the effectiveness of the lectures. A questionnaire was designed to assess the student's response about the environment of the lecture room, the learning experience of the students, needs of other lecture rooms' modification, seating design and temperature of the lecture room. The total numbers of the participants were 115 students including both genders from Sardar Begum Dental College, Peshawar. Second- and fourth-year professional students were excluded from the study. Responses were recorded from 115 participants of the first- and third-year students of BDS. The obtained data were analyzed using SPSS 20

RESULTS:

This study results showed that 100% of the students were satisfied with the environment of the classroom, to improve the learning experience 98% of the students were detected, 91% of students required modification of lecture rooms. 47% of the students preferred chairs with tables, 40% bench with tables and 11% are satisfied with the current setup. Twenty-four per cent of students suggested heaters in the lecture room during winter, 1.7% required air condition and 35% of students were satisfied with the room temperature. 38% of the students were satisfied with the effectiveness of the lectures.

CONCLUSION:

Students' feedbacks were satisfactory and it enhanced their learning experience. Students preferred the change in the seating design, chairs with tables.

KEYWORDS: Learning Experience, Lecture Room, Environment, Feedback, Modification

https://doi.org/10.37762/jgmds.6-1.88

INTRODUCTION:

Feedback refers to the opinions of students regarding the facilities they are receiving in an institute and about their learning experience. Educational institute facilities help the teachers to perform their duties effectively and enable learners to focus on their learning activities. The higher education institutes must execute a systematic approach for the maintenance of quality and standard of higher education through the feedback of the students. Shukla (2019) reported most of the feedback methods, to enhance the quality and standards of higher education¹. In the 19th century, it was uncommon to get feedback from the students about the lecture room infrastructure. satisfaction and their recommendations on it. But in the twentieth century, it is crucial to regulate and provide a satisfactory environment for the students, as it has an impact on the learning outcomes. Higher Education Commission in Australian universities concluded that there is a need for developing the evaluation framework and use of the student feedback for improvements². Some of the facilities are essential for students in

an educational institute, which are infrastructure and its modification, mode of teaching and facilities. Lecture room infrastructure and its environment have an important role to improve the learning experiences and enhance performance of the students. A study was conducted to examine the seating time of the long lecture, the findings suggested to reduce the contact time of student-faculty to two-third to improve the outcomes³. According to the study, a well-ventilated room can improve student progress effectively4. In Steelcase study, students and faculty had more concentration in classrooms with new design than old traditional ones. For the healthy environment of the lecture rooms, encourages students to participate in classroom tasks effectively⁵ and give them opportunities to build social skills and strategies for effective learning outcomes⁶. According to Zifferblatt (1972) suggested a correlation between student behavior and furniture arrangement, creates a more open environment for students and encourage them to share their thoughts and ideas with peers⁷.

Marchand et al (2014) studied the impact of lecture room infrastructure environment (lighting, sound and temperature) on the perception and learning of the students8. The high listening affected the efficacy of comprehension; the extreme condition affects the mood and reading condition having noise lead to a negative impact on the outcome. An ecological perspective was taken on learning, which helps us to understand the learner's spaces through their interactional activities. This study emphasizes to provide the relational and understanding of the learning spaces⁹. Therefore, students' feedback about the lecture rooms to improve the effectiveness of the lectures were designed i.e. learning environment, learning experience, need for other modifications, seating design and temperature. It is the first study conducted in the medical college of Peshawar, Khyber Pakhtunkhwa and its objective were to measure the student's feedback about the infrastructure/environment, seating design and temperature to improve the effectiveness of the learning process.

METHODOLOGY:

It was a cross-sectional study conducted at the Sardar Begum Dental College, Peshawar using both quantitative and qualitative approaches. The sample size was 115 students of BDS in the academic year of 1st and 3rd year professionals, including both genders. The 2nd and 4th year BDS

students were excluded. It was a convenient sampling, a type of non-probability sampling. A close-ended questionnaire was designed. A pilot study was conducted on 10% of the population. 100% of the participants responded to the questionnaire. The approval for this study was taken from the ethical committee of Gandhara Medical University.

RESULTS:

115 students' feedbacks were used for the study to find the satisfaction of the students regarding lecture rooms' environment/infrastructure. learning experience, need for lecture rooms modification, seating design and temperature. Table 1 indicates the student's satisfaction about the lecture rooms' environment/infrastructure and its impact on learning experience. 100% of the students were satisfied with it and their learning experience was improved as well. Table 2 shows the need for further modifications, ninety-eight per cent students responded for further modifications in lecture rooms. Table 3 represents the seating design preferred by the medical students. 47.8% of the students preferred chairs with tables whereas 40.9% opted bench with tables. Table 4 indicates about the room temperature of the lecture rooms. For the thirty-eight per cent of the student's room temperature were acceptable while 24.3% of the students required heaters in the winter.

Table 1: Student's Satisfaction about the Lecture Room

		Frequency	Percentage	Mean	Std. Deviation	P- value
Environment/ infrastructure of the class room	Yes No	100 0	100% 0	.00	.00	0
Learning experience improved	Yes No	98 17	85.2% 14.8%	.15	.35	0.001

Table 2: Need for Modifications

Table 21 Note for Medifications							
Need for Lecture Rooms Modification	Frequency	Percentage	Mean	Std. Deviation	P-value		
Yes	105	91.3%	.09	.28	0.01		
No	10	8.7%			0.01		

Table 3: Seating Design Preferences

Seating Design	Frequency	Percentage	Mean	Std. Deviation	P-value
Chairs with Tables	55	47.8%			
Bench with Tables	47	40.9%			
Current Design	13	11.3%	.63	.68	0.01
Total	115	100%			

Table 4: Temperature

Temperature of Classroom	Frequency	Percentage	Mean	Std. Deviation	P-value
Heaters	28	24.3%			
A.C	2	1.7%			
Satisfactory	44	38.3%	1.85	1.15	0.02
Total	115	64.3%			

DISCUSSION:

This was a cross-sectional study conducted in the Sardar Begum Dental College, Peshawar. 115 BDS students participated in this study including both male and female students. It is designed to measure the student's feedback about the lecture rooms to improve the effectiveness of the lectures. Lecture room environment plays an important role in the learning process. Learning environment serves as a source of motivation for the students and to attend a long lecture 10. If the learning environment is not comfortable and satisfactory it has negative effects on the learning and mood of the students, which directly influence their performance¹¹. A study conducted in the University of Salford findings showed that learners' performance increased with the well effective classroom¹², 51% of the improved performance of the students concerning the modified lecture room¹³. As in our study, most of the infrastructure and environment was modified and similar 91% of the modification. In this study, 100% of the students were satisfied with the environment, which was also reported by another study that students performed effectively¹⁴. Ninety-eight percent of students out of 115 considered that lecture room environment positively affected the learning process. Bakhshialiabad et al (2015) suggested that it's the responsibility of the institutional authorities to provide an effective learning environment with required facilities and opportunities for the students¹⁵. The data obtained from this research will aid in to provide more facilities. The seating design results revealed that 47% of students need chairs with tables and comfortable chairs. 40% of students asked for the bench with the tables. Comfort level is directly proportional to productivity. Chairs with tables are easy for the students to write and keep their notebooks. At the time they pay attention to the lecturer and write down the notes. Similarly, the spacing between the chairs will be maintained to avoid disturbances¹⁶. In this research, 41% of students reported that they are satisfied with the temperature. The lecture-room revealed that the students learn better in the cooler atmosphere¹⁷. The extreme temperatures distract students from the lectures and raise the hostility in them. The performance of the students is hindered by high temperatures and humidity¹⁸. The

research confirms that most of the facilities are available for the students and some of them are required.

CONCLUSION:

Infrastructure and environment of the lecture rooms were satisfactory. However, certain domains required further improvements and modifications. This study provides a baseline for further researches in assessing the students' needs and perception regarding the lecture rooms.

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