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Department of Public Health Dentistry, VSPM

Dental College and
Hospital, ${ }^{1}$ Department of Oral Medicine and Radiology, SPDC, DMIMSU, Wardha,
${ }^{2}$ Department of Oral Medicine and Radiology, SDK Dental College, Nagpur, Maharashtra, India

Address for correspondence: Dr. Shivlal M. Rawlani, Department of Oral Medicine Andradiology, SPDC, DMIMSU, Sawangi, Wardha - 442004 , Maharashtra, India. E-mail: drrawlani2007@ rediffmail.com

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# Perception of dental faculty and student regarding class attendance and final performance 

Sudhir S. Rawlani, Shivlal M. Rawlani ${ }^{1}$, Vidya Lobe ${ }^{1}$, Rahul Bhowate ${ }^{1}$, Monika Rawlani Khubchandani ${ }^{1}$, Rakhi Chandak ${ }^{2}$


#### Abstract

: AIM: The aim of this study was to assess the impact of lecture attendance on the academic performance of $3^{\text {rd }}$ BDS students at the DMIMS-U, Sawangi (M), Wardha. This project investigated and correlated the difference between faculty and student perceptions regarding attendance and final performance, including factors thought to influence student attendance. MATERIALS AND METHODS: Participants from a single university were included in the present retrospective observational study. The study was conducted in April 2016; $773^{\text {rd }}$ BDS students (2012 Batch) and teaching staff of SPDC willing to voluntarily participate were included and divided into two groups such as Group A and Group B. Student and faculty perceptions were obtained using Likert scale having 15 closed-ended and 3 open-ended questions. Questioner was made related to factors affecting the attendance in class, type of source available for study, awareness about topic, and faculty approach. Comparison between perception of students and faculty regarding attendance and final performance was done using Mann-Whitney U-test. $P<0.05$ was considered statistically significant.


RESULTS: Quantitative analyses revealed significant differences between faculty and student perceptions on most of the project variables. Qualitative analyses reinforced those findings and suggested that faculty misunderstood what factors actually influence student attendance. The results suggest that there is a substantial disconnect between faculty and student perceptions regarding the importance of class attendance and highlighted areas for faculty to influence student attendance.
CONCLUSION: Motivation is the major factor causing students to attend the lectures. Unfortunately, not all students are motivated to study and learn. New styles of teaching may need to be looked into. This needs to be further investigated on large sample size.
Keywords:
Attendance, faculty-student differences, final performance, perceptions

## Introduction

When substantial number of students does not attend, classroom learning is depreciated, student and teacher morale suffer, and academic standards are compromised. ${ }^{[1]}$ Student classroom attendances are a popular topic of both empirical research and faculty discussions. ${ }^{[2-5]}$ Both the research and the discussions focus

[^0]on the central question: Why do not students attend every class? Although faculty perceptions are based on their own idiosyncratic experiences in the classroom, those perceptions are validated for the present study.

As educators, many university faculties are rightfully concerned about student absences since substantial empirical research, and their own experiences have demonstrated that attendance is related to student performance

[^1]and grades, even in courses where attendance is not a part of the grading system. ${ }^{[6,7]}$ Marburger in 2001 documented that missing a class period increased the probability of responding incorrectly to an examination question. ${ }^{[8]}$

Evidence of the factors that influence student attendance supports this common perspective. Students are more likely to attend class: if they consider the material or instructor interesting, ${ }^{[4]}$ if in-class quizzes are announced, ${ }^{[9]}$ if attendance is required for their grade, and if there are direct consequences for absenteeism. ${ }^{[2-4]}$ Students are less likely to attend class if attendance is not required, especially later in the semester; ${ }^{[9,10]}$ if they are assigned to larger classrooms versus smaller classroom settings, where they perceive their absence will not be as noticeable, $[2,8]$ if they perceive a negative effect on their attendance likelihood if given full notes for the class period by the instructor; ${ }^{[11]}$ or if they believe that regular attendance should be factored in to final grades. ${ }^{[12]}$ Moore et al. in 2008 reported that only $17 \%$ of students' classroom absences can be categorized as potentially excused (e.g., medical emergencies); $23 \%$ were related to giving higher priority to academic work in other classes (e.g., cutting class to study for another test), and $60 \%$ were related to low intrinsic motivation (e.g., too tired and class is boring) ${ }^{[13]}$ Potential reasons suggested for this pattern were course level, course size, and five specific student perceptions.

These perceptions are that students believe: (a) nothing important will be covered during that period; (b) no effort is required before studying for the next examination; (c) class attendance will not affect their final grades, especially in classes where attendance is not recorded; (d) missing this particular class will not change their grade on their next test; and (e) attendance has no correlation to how much they learn in a course. According to the literature reviewed above, all of these misperceptions are common. ${ }^{[5]}$

The reasons that many faculties are concerned about this absenteeism are threefold. First, it is a symptom of larger absenteeism throughout the course, which prior research has documented leads to poor academic performance. Second, because of their awareness of the connection between attendance and performance, many faculties expend considerable time and effort attempting to increase student attendance to maximize student success. Third, specifically related to these unique class periods, many faculties use those course periods to either review examinations or introduce the foundation for new units in the course. Both of those uses can disproportionately influence student learning in the course in comparison to many other course days, so absenteeism on those days can pose an even greater threat to student learning. ${ }^{[14]}$

Class attendance has long been subject of debates while measuring performance in examinations. Faculty has own perception, and student has their own perception regarding important of attendance for performance in final examination. Attendance at classes has traditionally been thought to be a prerequisite to good academic performance. Some studies have shown that there is a positive correlation between attendance and academic performance. Khan et al. have shown that there is a positive correlation between attendance and academic performance. In addition, several sources show a relatively consistent relationship between attendance and grades, regardless of the course subject or level of student. It is not only the improved the final result but knowledge and skill is also directly depends on learners presence in class, practical or clinic. ${ }^{[15-17]}$

It is argued that attendance policy goes beyond just "filling seats," by mandating student-faculty interactions which are a critical aspect to facilitate learning. ${ }^{[18]}$ The determination of students' academic performance is an important issue in medical profession. Proponents advocate that there is a direct relationship between these two variables and there has been prolific literature in this direction. The study was done to assess the impact of lecture attendance on the academic performance. ${ }^{[19]}$

## Materials and Methods

The retrospective observational study was conducted in the year of 2016, after obtaining the prior approval from the Institutional Ethical Committee (DMIMS (DU)/IEC/2016-17/1530-A).

## Sample size

Seventy-seven $3{ }^{\text {rd }}$ BDS students (2012 Batch) and teaching staff of SPDC willing to voluntarily participate in the study.

## Group A

Student perception was obtained using Likert scale having 15 closed-ended and 3 open-ended questions.

## Group B

Dental faculty perception was obtained using Likert scale having 17 closed-ended and 4 open-ended questions.

## Inclusion criteria

All students of $3{ }^{\text {rd }}$ BDS (2012 Batch) willing to voluntarily participate were included in the study.

## Exclusion criteria

Students who were absent or not willing to voluntarily participate were excluded from the study.

## Duration of study

The total study duration was 6 months.
This project investigated and correlated the difference between faculty and student perceptions regarding attendance and final performance, including factors thought to influence student attendance. Informed consent was taken from all 80 students of 3 rd BDS students and teaching staff enrolled for this study.

Student perception regarding relation of attendance with performance was obtained using Likert scale; perception questionnaire consists of 14 closed-ended and 3 open-ended questions, and perception of dental faculty regarding correlation of attendance with performance was also obtained on Likert scale having 17 closed-ended and 4 open-ended questions.

Data analysis was done to find out the relation between student and faculty perceptions regarding attendance and final performance. Comparison between perception of students and faculty regarding attendance and final performance was done using Mann-Whitney U-test. $P<0.05$ was considered statistically significant.

## Results and Observation

All the data are collected from student and faculty and tabulated in Tables 1 and 2. Comparison between perception of students and faculty regarding attendance and final performance was done using Mann-Whitney

U-test. $P<0.05$ was considered as statistically significant and tabulated in Table 3.

A total of 14 questions were asked to student and faculty; after data analysis, we found that for most of question that there is significant difference between student and faculty aspect for 4-5 questions.

## Analysis of open-ended questions

Responses to open-ended questions were analyzed qualitatively. Table 1

## Discussion

Literature suggests that attendance and academic performance are directly correlated, with some studies showing a relatively consistent relationship regardless of the course subject or level of student. ${ }^{[15,77]}$ This study shows that there is no correlation between attendance of student and final results. Finding from cohort as a whole and also mention that there is no direct correlation was seen between lecture attendance and final mark or result. ${ }^{[20]}$ The pattern of lecture attendance was similar for students in all grade ranges, but passing students were more likely to supplement attendance at lectures with the use of recordings. ${ }^{[20]}$ In addition to some studies showing that attendance and academic performance are directly correlated, some studies show a relatively consistent relationship between attendance and grades, regardless of the course subject or level of student. ${ }^{[21,22]}$

Table 1: Various comments for open-ended items given by students

| Question | Answer |
| :---: | :---: |
| Why students are not attending every class? | Most of the students believed that every class is not beneficial. Some of the students responded that class is not interesting, attending class is monotonous and $100 \%$ attendance is not compulsory are the most important reasons for not attending the class |
| What factors do you think affect student attendance? | Most of the students believed that timing of class is most important factor for not attending the class regularly, while some believed that examinations and clinical work, lack of interest in subject, laziness, and health problem are the common factors affecting student attendance |
| How does it make you feel when class attendance is lower than other students? | Most of the students believed that it makes them dishearten and nervous, at the same time some believed that it makes no difference in their behavior |

Table 2: Various comments for open-ended items given by faculty

| Question | Answer |
| :--- | :--- |
| Why students are not attending every <br> class? | Most of the faculty member believed that topic of class is most important factor for not attending <br> the every class, while some faculty believed that subject and teacher, lack of interest of students in <br> subject are the common factors affecting student attendance |
| What factors do you think affect student |  |
| attendance? | Most of the faculty member believed that type of teaching in the class is most important factor for <br> not attending the every class, while some faculty believed that subject and teacher, laziness for <br> attending the classes are the common factors affecting student attendance |
| What do you do in your course to | Most of the faculty member believed that topic of class should be made more attractive and <br> interesting by doing role play, while some of the faculty member believed that teaching should be |
| encourage attendance for class period? | made simple and interactive, students must be aware of the importance of topic |
| How does it make you feel when class <br> attendance in your courses is lower than <br> others? | Most of the faculty member believed that it makes them feel bad and very discouraging, while <br> some faculty member believed that it required improvement in teaching and also take interest in <br> developing the awareness of students in subject |

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Table 3: Students perception regarding attendance and final performance

| Questions | Strongly agree, $n$ (\%) | Agree, $n$ (\%) | Neutral, $n$ (\%) | Disagree, $n$ (\%) | Strongly disagree, $n(\%)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Attendance is related to student performance and grades | 4 (6.3) | 4 (6.3) | 6 (9.5) | 38 (60.3) | 11 (17.5) |
| Can attendance be included in part of the grading system? | 2 (3.2) | 6 (9.5) | 12 (19.0) | 35 (55.6) | 8 (12.7) |
| Absences in class indicate a missed opportunity for students to learn or reach their full potential | 0 | 5 (7.9) | 8 (12.7) | 31 (49.2) | 19 (30.2) |
| Students are less likely to attend class if attendance is not required | 0 | 9 (14.3) | 3 (4.8) | 32 (50.8) | 19 (30.2) |
| Students give higher priority to academic work than attending classes | 3 (4.8) | 5 (7.9) | 20 (31.7) | 34 (54.0) | 1 (1.6) |
| Absentness is more where topic is known to student | 1 (1.6) | 14 (22.2) | 16 (25.4) | 30 (47.6) | 2 (3.2) |
| Attendance has no correlation to how much student learn in a course | 7 (11.1) | 27 (42.9) | 5 (7.9) | 21 (33.3) | 3 (4.8) |
| The way the classes were taught encouraged to attendances | 2 (3.2) | 5 (7.9) | 1 (1.6) | 38 (60.3) | 17 (27.0) |
| Classroom absences can be categorized as potentially excused | 4 (6.3) | 17 (27.0) | 22 (34.9) | 19 (30.2) | 1 (1.6) |
| Students perceived larger classes to have more of a decline in attendance | 1 (1.6) | 8 (12.7) | 25 (39.7) | 29 (46.0) | 0 |
| Is access to recorded lectures have effect on student attendance at live lectures | 1 (1.6) | 8 (12.7) | 16 (25.4) | 30 (47.6) | 8 (12.7) |
| Time period of theory classes affect the attendant of student? | 3 (4.8) | 9 (14.3) | 13 (20.6) | 34 (54.0) | 4 (6.3) |
| Time schedule of theory classes affect the attendant of student | 3 (4.8) | 5 (7.9) | 12 (19.0) | 36 (57.1) | 7 (11.1) |
| Easy availability of teaching material on internet affect the student attendance | 1 (1.6) | 15 (23.8) | 22 (28.6) | 22 (28.6) | 4 (5.2) |

In the present study, $43 \%$ of faculty believe that attendance and academic performances are directly correlated, while only $20.8 \%$ of students are agree, showing significant differences between perception of students and faculty with $P=0.001$. The Faculty of Medical Sciences at UWI, Cave Hill, has an attendance policy which states that "students must have an attendance rate of $80 \%$ of all timetabled sessions to sit final course examinations" (UWI, 2009). ${ }^{[23]}$

Forty-five present of faculty believes that attendance should be included as a part of grading while only $20 \%$ of students are agree with this, showing significant differences between perception of students and faculty with $P=0.001$.

This study supports prior research that students and faculty have different perceptions about class attendance and participation. Students believe that attendance should be part of their course grade because it is fair to reward those who come to class and participate. ${ }^{[24]}$

Khan et al. have shown that there is a positive correlation between attendance and academic performance. ${ }^{[16]}$ However, they also found that $21 \%$ of students who had very low attendance were in the top $20 \%$ in their class. Most of the study shows that confounding factors
in the learning process, such as student motivation and levels of engagement, which may have a greater contribution to academic performance than attendance. Studies conducted by Le Blanc, in year 2005 showing that attendance and academic performance are directly correlated [Table 4], some studies show a relatively consistent relationship between attendance and grades, regardless of the course subject or level of student. ${ }^{[21]}$

Twenty-seven percentage of the student believe that easy availability of the teaching material at internet affects the attendance in classroom, while $38 \%$ of faculty member mention that easy availability of the teaching material is one of the common causes for not attending the class, with significant differences between perception of students and faculty with $P=0.019$. In general, access to recorded lectures has little to no effect on student attendance at live lectures. ${ }^{[20,25]}$ However, some studies have found that recorded lectures do seem to have a slight negative effect on lecture attendance [Table 5]. ${ }^{[26]}$ Besides student-related factors, the effect of other factors, particularly classroom and teaching-related ones, should be considered in the analysis of student attendance and academic performance.

The results of present study from the overall data analysis indicate that attendance, even though critical

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Table 4: Faculty perception regarding attendance and final performance

| Questions | Strongly agree, $n(\%)$ | Agree, $n$ (\%) | Neutral, $n(\%)$ | Disagree, $n$ (\%) | Strongly disagree, $n$ (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Attendance should be compulsory | 2 (2.6) | 5 (6.5) | 5 (6.5) | 31 (40.3) | 20 (26.0) |
| Attendance is related to student performance and grades | 11 (14.3) | 24 (31.2) | 21 (27.3) | 18 (23.4) | 3 (3.9) |
| Can attendance be included in part of the grading system? | 11 (14.3) | 20 (26.0) | 21 (27.3) | 24 (31.2) | 1 (1.3) |
| Absences in class indicate a missed opportunity for students to learn or reach their full potential | 4 (5.2) | 18 (23.4) | 34 (44.2) | 18 (23.4) | 3 (3.9) |
| Students are less likely to attend class if attendance is not required | 4 (5.2) | 14 (18.2) | 23 (29.9) | 30 (39.0) | 6 (7.8) |
| Students believe that regular attendance should be factored into final grades | 1 (1.3) | 6 (7.8) | 19 (24.7) | 31 (40.3) | 6 (7.8) |
| Students giving higher priority to academic work in other classes | 3 (3.9) | 9 (11.7) | 18 (23.4) | 37 (48.1) | 10 (13.0) |
| Absentness where topic is known to student | 2 (2.6) | 15 (19.5) | 37 (48.1) | 19 (24.7) | 4 (5.2) |
| Attendance has no correlation to how much they learn in a course | 2 (2.6) | 12 (15.6) | 15 (19.5) | 29 (37.7) | 19 (24.7) |
| The way the classes were taught encouraged attending the classes. | 5 (6.5) | 7 (9.1) | 31 (40.3) | 24 (31.2) | 10 (13.0) |
| Classroom absences can be categorized as potentially excused | 5 (6.5) | 2 (2.6) | 44 (57.1) | 22 (28.6) | 4 (5.2) |
| Students perceived larger classes to have more of a decline in attendance. | 2 (2.6) | 11 (14.3) | 47 (61.0) | 16 (20.8) | 1 (1.3) |
| Is access to recorded lectures have effect on student attendance at live lectures | 3 (3.9) | 9 (11.7) | 37 (48.1) | 24 (31.2) | 4 (5.2) |
| Time period of theory class affect the attendant of student? | 4 (5.2) | 17 (22.1) | 16 (20.8) | 34 (44.2) | 6 (7.8) |
| Time schedule of theory class affect the attendant of student | 2 (2.6) | 13 (16.9) | 18 (23.4) | 38 (49.4) | 6 (7.8) |
| Easily available teaching material on internet affect the student attendance | 5 (6.5) | 24 (31.2) | 22 (28.6) | 22 (28.6) | 4 (5.2) |
| In spite of grading, student remain absent from class | 1 (1.3) | 5 (6.5) | 12 (15.6) | 40 (51.9) | 5 (6.5) |

to the learning process, is not the single most important factor in the learning process and suggest that other factors are critical to academic success [Table 6]. The study conducted by Cohall and Skeete in the year 2012 also feverous the same finding. ${ }^{[27]}$

Besides student-related factors, the effect of other factors, particularly classroom and teaching-related ones, should be considered in the analysis of student attendance and academic performance. Some of these factors may be well indicated in the holistic approach which is regarded as the best approach to the learning process. Cohall in 2009 and Patel in 2003 also suggest that holistic approach is one of the effective approaches for learning. ${ }^{[23,28]}$

## Conclusion

In the present study, we found that there is significant difference between perception of faculty and students regarding attendance, although there is positive correlation between class attendance and examination results.

Following important aspects of student behavior in relation to attendance were identified. Motivation is the major factor causing students to attend the lectures. Unfortunately, not all students are motivated to study and learn. Results indicated that some students found lectures boring and not worth attending. New styles of teaching may need to be looked into. This needs to be further investigated on large sample size.

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Table 5: Correlation of students and faculty perception regarding attendance and final performance

| Question | Student |  |  | Faculty |  |  | $\chi^{2}$ | $P$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Disagree, $n$ (\%) | Neutral, $n$ (\%) | Agree, n (\%) | Disagree, n (\%) | Neutral, $n$ (\%) | Agree, n(\%) |  |  |
| Attendance is related to student performance and grades | 8 (12.7) | 6 (9.5) | 49 (77.8) | 35 (45.5) | 21 (27.3) | 21 (27.3) | 35.441 | 0.001 |
| Can attendance be included in part of the grading system? | 8 (12.7) | 12 (19.0) | 43 (68.3) | 31 (40.3) | 21 (27.3) | 25 (32.5) | 19.579 | 0.001 |
| Absences in class indicate a missed opportunity for students to learn or reach their full potential | 5 (7.9) | 8 (12.7) | 50 (79.4) | 22 (28.6) | 34 (44.2) | 21 (27.3) | 37.620 | 0.001 |
| Students are less likely to attend class if attendance is not required | 9 (14.3) | 3 (4.8) | 51 (81.0) | 18 (23.4) | 23 (29.9) | 36 (46.8) | 19.769 | 0.001 |
| Students give higher priority to academic work than attending classes | 8 (12.7) | 20 (31.7) | 35 (55.6) | 12 (15.6) | 18 (23.4) | 47 (61.0) | 1.274 | 0.529 |
| Absentness is more where topic is known to student | 15 (23.8) | 16 (25.4) | 32 (50.8) | 17 (22.1) | 37 (48.1) | 23 (29.9) | 8.605 | 0.014 |
| Attendance has no correlation to how much student learn in a course | 34 (54.0) | 5 (7.9) | 24 (38.1) | 14 (18.2) | 15 (19.5) | 48 (62.3) | 20.135 | 0.001 |
| The way the classes were taught encouraged to attendances | 7 (11.1) | 1 (1.6) | 55 (87.3) | 12 (15.6) | 31 (40.3) | 34 (44.2) | 33.329 | 0.001 |
| Classroom absences can be categorized as potentially excused | 21 (33.3) | 22 (34.9) | 20 (31.7) | 7 (9.1) | 44 (57.1) | 26 (33.8) | 13.854 | 0.001 |
| Students perceived larger classes to have more of a decline in attendance | 9 (14.3) | 25 (39.7) | 29 (46.0) | 13 (16.9) | 47 (61.0) | 17 (22.1) | 9.273 | 0.010 |
| Is access to recorded lectures have effect on student attendance at live lectures | 9 (14.3) | 16 (25.4) | 38 (60.3) | 12 (15.6) | 37 (48.1) | 28 (36.4) | 8.954 | 0.011 |
| Time period of theory classes affect the attendant of student? | 12 (19.0) | 13 (20.6) | 38 (60.3) | 21 (27.3) | 16 (20.8) | 40 (51.9) | 1.430 | 0.489 |
| Time schedule of theory classes affect the attendant of student | 8 (12.7) | 12 (19.0) | 43 (68.3) | 15 (19.5) | 18 (23.4) | 44 (57.1) | 1.962 | 0.375 |
| Easy availability of teaching material on internet affect the student attendance | 16 (25.4) | 12 (19.0) | 35 (55.6) | 29 (37.7) | 22 (28.6) | 26 (33.8) | 6.692 | 0.035 |

Table 6: Comparison of student attendance and final result

| Total number of student | Result of the students | Number of students | Attendance $>90 \%$ | Attendance $<90 \%$ | $P$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 77 | Pass | 74 | 53 | 21 | $0.211(N S)$ |
|  | Fail | 3 | $1(1.88)$ | $2(9.52)$ |  |

NS: Not significant

## Conflicts of interest

There are no conflicts of interest.

## References

1. Brown W. Why I don't let students cut my classes. In: Gordon V, Minnick T, editors. Foundations: A Reader for New College Students. Belmont, CA: Wadsworth; 2002. p. 100-10.
2. Friedman P, Rodriguez F, McComb J. Why students do and do not attend classes: Myths and realities. Coll Teach 2001;49:124-33.
3. Gump SE. Keep students coming by keeping them interested: Motivators for class attendance. Coll Stud J 2004;38:157-60.
4. Ajiboye JO, Tella A. Class attendance and gender effects on undergraduate students' achievement in a social studies course in Botswana. Essays iEduc 2006;18:1-14.
5. Much_Metta. Decline in Attendance after Exam [Msg 1]. Message Posted to. Available from: http:/ /www.chronicle.com/forums/ index.php/topic,47686.msg844155.html\#msg844155. [Last accessed on 2008 May 28].
6. Brewer EW, Burgess DN. Professor's role in motivating students to attend class. J Ind Teach Educ 2005;42:23-47.
7. Gump SE. The cost of cutting class: Attendance as a predictor of student success. Coll Teach 2005;53:21-6.
8. Marburger DR. Absenteeism and undergraduate exam
performance. J Econ Educ 2001;32:99-109.
9. Azorlosa JL, Renner CH. The effect of announced quizzes on exam performance. J Instr Psychol 2006;33:278-83.
10. Marburger DR. Does mandatory attendance improve student performance? J Econ Educ 2006;37:148-55.
11. Cornelius TL, Owen-DeSchryver J. Differential effects of full and partial notes on learning outcomes and attendance. Teach Psychol 2008;35:6-12.
12. Hassel H, Lourey J. The dearth of student responsibility. Coll Teach 2005;53:2-13
13. Moore S, Armstrong C, Pearson J. Lecture absenteeism among students in higher education: A valuable route to understanding student motivation. J High Educ Policy Manage 2008;30:15-24.
14. Maurer TW, Frost L, Sturges D, Charls S, Allen D, Chawthom M, et al. Faculty and student perceptions of post-exam attendance. J Scholarsh Teach Learn 2009;9:38-55.
15. Ali N, Jusoff K, Ali S, Mokhtar N, Salamat AS. The factors influencing students' performance at Universiti Teknologi MARA Kedah, Malaysia. Manage Sci Eng 2009;3:81-90.
16. Khan HU, Khattak AM, Mahsud IU, Munir A, Ali S, Khan MH. Impact of class attendance upon examination results of students in basic medical sciences. J Ayub Med Coll Abbottabad 2003;15:56-8.
17. Shimoff E, Catania AC . Effects of recording attendance on grades in introductory psychology. Teach Psychol 2001;28:192-5.
18. Carnegie Foundation. Reinventing Undergraduate Education: A Blueprint for America's Research Universities. Stony Brook: State University of New York at Stony Brook; 1998.
19. Crede M, Roch SG, Kieszczynka UM. Class attendance in college: A meta-analytic review of the relationship of class attendance with grades and student characteristics. Rev Educ Res 2010;80:272-95.
20. Von Konsky B, Lvins J, Gribble S. Lecture attendance and web based lecture technologies: Comparison of students perception and usage pattern. Australas J Educ Technol 2009;25:581-95.
21. Le Blanc HT. The Relationship between Attendance and Grades in the College Classroom. Paper Presented at the $17^{\text {th }}$ Annual Meeting of the International Academy of Business Disciplines, Pittsburgh, Pennsylvania. Available from: http://www. communication.utsa.edu/leblanc/articles/art31.pdf. [Last accessed on 2005 Apr 08].
22. Kirby A, McElroy B. The effect of attendance on grade for first year economics students in University College Cork. Econ Soc Rev 2003;34:311-26.
23. Cohall DH. Course outline for Fundamentals of Disease and

Treatment. Faculty of Medical Sciences. Cave Hill, Barbados: The University of the West Indies; 2009.
24. Higbee JL. Attendance policies in developmental education courses: The student point of view. Res Teach Dev Educ 2006;23:78-85.
25. Holbrook J, Dupont C. Profcasts and Class Attendance - Does Year in Program Matter? Bioscience Education; 2009. p. 15. Available from: http://www.bioscience.heacademy.ac.uk/journal/vol13/ beej-13-c2.pdf. [Last accessed on 2015 Jun 06].
26. Gorissen P, Van Bruggen J, Jochems W. Students and recorded lectures: Survey on current use and demands for higher education. Res Learn Technol 2012;20:143-53.
27. Cohall DH, Skeete D. The impact of an attendance policy on the academic performance of first year medical students taking the fundamentals of disease and treatment course. Caribb Teach Scholar 2012;2:115-23.
28. Patel NV. A holistic approach to learning and teaching interaction: Factors in the development of critical learners. Int J Educ Manage 2003;17:272-84.


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