IJCRT.ORG

ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Determining The Negative Impact Of Student Absenteeism Their Academic Performance And Behavior

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Abstract: Student absenteeism remains a pervasive challenge in educational settings and it creates negative impact on students' academic and behavioral development. This study aims to systematically evaluate how absenteeism affects students' educational outcomes and conduct. Utilizing a comprehensive analysis of student attendance records, academic performance and behavioral reports, the relationship between varying levels of absenteeism and subsequent declines in academic achievement, including lower grades and test scores are analyzed. In addition, the study assesses the impact of absenteeism on student behavior, focusing on increases in disciplinary issues and decreased engagement in classroom activities. Through statistical analysis students the study highlights significant negative correlations between absenteeism and academic and behavioral indicators. The findings suggest that absenteeism not only impairs academic success but also contributes to behavioral challenges, reinforcing the need for effective intervention strategies to promote regular attendance and enhance overall student outcomes. This study provides valuable insights for educators, and parents seeking to address absenteeism and improve educational experiences. The results underscore the importance of promoting regular attendance to foster academic success and positive behavior in educational environments.

Index Terms - absenteeism, behavioral challenges, correlations, insights

I. Introduction

Absenteeism, a pervasive issue in educational settings, significantly impacts both academic performance and behavioral development among students. When students miss college regularly, they often fall behind in their studies, struggle to keep up with the curriculum, and face difficulties in achieving academic milestones. This educational disruption not only affects their grades but also hinders their overall learning experience. Additionally, absenteeism can lead to behavioral changes, including decreased motivation, lower self-esteem, and a disconnection from the college community. Understanding the intricate relationship between absenteeism and these academic and behavioral outcomes is crucial for developing effective interventions and support systems to help students succeed. This exploration delves into the multifaceted effects of absenteeism, shedding light on how consistent college attendance is vital for fostering both educational achievement and positive behavioral growth.

II. REVIEW OF LITERATURE

A review of literature on the negative impact of absenteeism on student academic performance highlights a range of detrimental effects supported by empirical research. This review synthesizes findings from various studies to provide a comprehensive understanding of how absenteeism adversely affects academic outcomes.

Academic Achievement and Performance

1. General Impact on Academic Achievement

- Studies: Research consistently shows a strong correlation between absenteeism and decreased academic achievement. For instance, studies by Bowers and Sprott (2012) and Gottfried (2014) demonstrate that students with high rates of absenteeism tend to have lower academic performance, as they miss critical instruction and practice opportunities.
- Findings: According to Gottfried (2010), each additional day of absence per month is associated with a decrease in standardized test scores, highlighting the direct link between absenteeism and diminished academic outcomes.

2. Impact on Specific Subjects

- o **Studies**: Various studies indicate that absenteeism affects different subjects differently. For example, **Loeb**, **Crowder**, **and Shvartsman** (2016) found that absenteeism has a more pronounced effect on subjects requiring sequential learning, such as mathematics and science, compared to subjects that may be less cumulative.
- Findings: This suggests that students who are frequently absent may struggle more with subjects that build on previously learned concepts, leading to long-term academic challenges.

Skill Development

1. Cognitive Skills and Learning

- o **Studies**: Research by **Kearney** (2008) suggests that absenteeism disrupts the acquisition of cognitive skills, such as problem-solving and critical thinking, as students miss out on interactive and instructional components that are crucial for these skills.
- **Findings**: Students who miss substantial amounts of college may lack opportunities to engage in formative assessments and feedback, which are vital for cognitive development.

2. Classroom Engagement and Participation

- o Studies: Ehrenberg, Ehrenberg, and Smith (1998) found that students who are frequently absent are less likely to participate actively in classroom activities, which can hinder their learning and integration of new material.
- **Findings**: Active engagement in class is associated with better academic performance, and absenteeism limits this engagement, further contributing to academic difficulties.

Long-Term Academic Courses

1. Academic Trajectories and Dropout Rates

- Studies: Allen worth and Easton (2007) revealed that chronic absenteeism is a strong predictor of future academic failure and college dropout. Students who miss significant amounts of college are more likely to fall behind in their studies and eventually leave college without completing their education.
- o **Findings:** Long-term research indicates that early patterns of absenteeism can have lasting effects on educational attainment and career prospects.

2. Remediation and Recovery

- o **Studies**: **Miller and Plant (2004)** explored the challenges of remediation for students who have missed substantial instructional time. They found that catching up on missed content is often difficult, even with additional support, and can lead to persistent academic gaps.
- o **Findings**: Efforts to address absenteeism must include strategies to support catch-up learning and address the gaps created by missed instruction.

III. ANALYSIS OF STUDENT ACADEMIC PERFORMANCE

Identifying academic and behavioural lagging due to absenteeism involves using a range of methods and tools to assess how missed college days impact student performance and behaviour. Here are some effective approaches:

1. Academic Performance Tracking

- **Grade Analysis**: Monitor changes in grades and test scores before, during, and after periods of absenteeism. Comparing these metrics can highlight any declines in academic performance linked to missed college days.
- **Standardized Tests**: Evaluate results from standardized tests to identify gaps in knowledge and skills. This can help determine whether absenteeism has affected students' mastery of key concepts.

• Curriculum Benchmarks: Review students' progress against curriculum benchmarks and learning objectives. Regular assessments can reveal whether absenteeism has led to incomplete or insufficient understanding of essential material.

2. Behavioral Observations

- **Teacher Reports**: Collect qualitative feedback from teachers regarding students' participation, engagement, and behaviour in the classroom. Teachers can provide insights into how absenteeism might be affecting a student's behavior and interaction with peers.
- **Behavioural Checklists**: Use checklists or rating scales to assess changes in behaviour, such as increased absenteeism, disruptions, or disengagement. This can help identify behavioural issues linked to absenteeism.

3. Academic and Behavioral Assessments

- **Diagnostic Assessments**: Administer diagnostic tests to assess specific areas where students may be struggling due to missed instruction. These assessments can pinpoint particular skill gaps and knowledge deficits.
- **Behavioural Assessments**: Conduct assessments to evaluate behavioural changes, such as social skills and emotional regulation. Tools like the Behavioural and Emotional Rating Scale (BERS) can be used to assess students' emotional and behavioural functioning.

4. Attendance Records Analysis

- Attendance Patterns: Analyze attendance records to identify patterns and correlations between absenteeism and academic or behavioral issues. Frequent absences can be mapped against academic performance to determine their impact.
- Tardiness and Absence Frequency: Track not just absences, but also tardiness and partial absences, which can also affect academic performance and classroom behaviour.

5. Student Self-Reports

- Surveys and Questionnaires: Use surveys and questionnaires to gather students' perspectives on how their absences impact their learning and behaviour. Self-reports can provide valuable insights into students' own experiences and challenges.
- Interviews: Conduct interviews with students to discuss their experiences and the reasons behind their absenteeism. This can help in understanding the personal and academic effects of their absences.

6. Parent and Caregiver Feedback

- Parent Surveys: Collect feedback from parents or caregivers about their observations of their child's academic performance and behaviour, as well as any issues they might be aware of that contribute to absenteeism.
- Parent-Teacher Conferences: Use conferences to discuss students' performance and behaviour with parents, including how absenteeism might be affecting their child's education and social development.

7. Intervention Monitoring

- **Response to Interventions**: Monitor the effectiveness of interventions designed to address absenteeism and its impacts. Evaluate whether targeted strategies, such as tutoring or counselling, are helping to improve academic performance and behavioural issues.
- **Progress Monitoring**: Track students' progress over time to assess improvements or on-going difficulties. Regular progress monitoring can help in adjusting interventions as needed.

8. Collaboration with Support Services

- College Counsellors and Social Workers: Collaborate with college counsellors and social workers to gain additional perspectives on how absenteeism affects students' academic and behavioural issues. They can provide support and intervention strategies.
- Academic Coaches: Engage academic coaches or mentors to provide additional support and identify areas where students need help due to missed instruction.

By using a combination of these methods, educators, parents, and support staff can gain a comprehensive understanding of the impact of absenteeism on students' academic and behavioural performance and develop effective strategies to address these issues.

IV. METHODOLOGY

- 1. Data Collection
 - . Gather Data:
- A. **Academic Data**: Collect data on students' grades, test scores, and other academic performance indicators.
- B.**Behavioral Data**: Collect data on behavioral observations, disciplinary records, and self-reported behavioral changes.
- C.Absenteeism Data: Collect data on the number of days students have missed college, reasons for absenteeism, and patterns of absences.
 - . Demographic Data:
- **IV.** Include demographic information such as age, gender, socio-economic status, and grade level to control for potential confounding variables.

V. ALGORITHM

Regression analysis is a statistical method used to understand and quantify the relationships between one dependent variable and one or more independent variables. It's widely used to analyze how changes in predictor variables (independent variables) influence a response variable (dependent variable). Here's a detailed overview of regression analysis, including its types, applications, and how it can be used to understand the impact of absenteeism on academic and behavioral outcomes.

Simple Linear Regression

- **Definition**: Examines the relationship between two variables: one independent variable (predictor) and one dependent variable (outcome).
- Model: $Y = \beta 0 + \beta 1X + \epsilon Y = \beta 0 + \beta 1X + \epsilon Y = \beta 0 + \beta 1X + \epsilon$
 - YYY = Dependent variable
 - \circ XXX = Independent variable
 - \circ $\beta 0 \setminus beta 0 \beta 0 = Intercept$
 - \circ β1\beta 1β1 = Slope coefficient
 - \circ $\epsilon \mid epsilon \epsilon = Error term$
- Use Case: Understanding how absenteeism (independent variable) affects academic performance (dependent variable).

VI. DATA ANALYSIS

Sample Data

Assume we have a dataset of 10 students with the following variables:

- **Absenteeism** (number of days missed)
- Academic Performance (average test score out of 100)

Here's the sample data:

Student ID Absenteeism (days) Academic Performance (score)

1	2	85
2	5	78
3	0	92
4	3	88
5	8	70
6	1	90
7	7	74
8	4	82
9	6	76
10	3	87

Performing Simple Linear Regression

- 1. **Define Variables**:
 - o Independent Variable (X): Absenteeism
 - o Dependent Variable (Y): Academic Performance
- 2. Fit the Model:
 - o **Equation**: $Y = \beta 0 + \beta 1X + \epsilon Y = \beta 0 + \beta 0 + \beta 0 + \delta 0 +$
 - Where $\beta 0 \beta 0$ is the intercept and $\beta 1 \beta 1$ is the slope.

Using statistical software (e.g., Python with statsmodels or R), you can fit the model. Here, I'll provide an example using Python's statsmodels.

```
import pandas as pd
import statsmodels.api as sm
```

```
# Sample data
data = {
   'Absenteeism': [2, 5, 0, 3, 8, 1, 7, 4, 6, 3],
   'Academic_Performance': [85, 78, 92, 88, 70, 90, 74, 82, 76, 87]
}

df = pd.DataFrame(data)

# Independent variable (with constant term added)
X = df['Absenteeism']
X = sm.add_constant(X) # Adds a constant term to the predictor
# Dependent variable
Y = df['Academic_Performance']

# Fit the model
model = sm.OLS(Y, X).fit()
# Print the summary
print(model.summary())
```

1. **Interpreting Results**:

The output from model.summary() will provide coefficients and other statistics:

- Intercept (β0\beta_0β0): This is the estimated academic performance score when absenteeism is zero.
- Slope (β1\beta_1β1): This represents the change in academic performance for each additional day of absenteeism.
- o **R-squared**: Indicates how well the model explains the variability in academic performance.
- \circ **P-value**: Tests the null hypothesis that the slope coefficient is equal to zero. A low p-value (< 0.05) indicates that absenteeism significantly affects academic performance.

60.075

d444

Sample Output Interpretation

Suppose the output is as follows:

OLS Regression Results

```
Dep. Variable:
                Academic_Performance R-squared:
                                                               0.623
Model:
                      OLS Adj. R-squared:
                                                     0.580
                 Least Squares F-statistic:
Method:
                                                     14.55
             Thu, 14 Sep 2024 Prob (F-statistic):
Date:
                                                       0.0045
Time:
                  10:00:00 Log-Likelihood:
                                                    -25.622
No. Observations:
                          10 AIC:
                                                   59.244
```

8 BIC:

Df Model: 1

Df Residuals:

Covariance Type: nonrobust

===

coef std err t P>|t| [0.025 0.975]

const 90.0000 3.847 23.41 0.000 81.051 98.949 Absenteeism -1.5000 0.393 -3.82 0.004 -2.387 -0.613

===

Omnibus: 0.456 Durbin-Watson: 2.052 Prob(Omnibus): 0.798 Jarque-Bera (JB): 0.657

 Skew:
 0.277 Prob(JB):
 0.719

 Kurtosis:
 1.852 Cond. No.
 14.8

Interpretation of Results:

- Intercept ($\beta 0 \text{beta } 0\beta 0$): 90.00. This is the estimated average test score when absenteeism is zero.
- **Slope** (β1\beta_1β1): -1.50. For each additional day of absenteeism, the average test score decreases by 1.50 points.
- **R-squared**: 0.623. About 62.3% of the variance in academic performance is explained by absenteeism.
- **P-value**: 0.004. The relationship between absenteeism and academic performance is statistically significant.

VII. REMEDIES TO AVOID THE ABSENTEEISM

The foremost step is to strengthen the communication with the parents. Keep parents informed about their child's attendance and involve them in addressing attendance issues. Regular communication can help parents understand the importance of attendance and how they can support their child. Engage the students with co-curricular activities. Offer resources such as counselling, tutoring, and mentoring to address academic or personal issues that might be contributing to absenteeism. Sometimes students stay away due to academic struggles or personal challenges. Monitor attendance data and identify patterns early. Intervene before patterns become entrenched, offering support and solutions as soon as a student begins to miss school frequently.

VIII. CONCLUSION

Absenteeism is shown to have a detrimental effect on students' academic and behavioural performance. By implementing targeted interventions and supportive measures, educational institutions can enhance both academic achievement and behavioural outcomes for students. The literature underscores a clear and consistent relationship between absenteeism and negative academic outcomes. Frequent absences lead to lower academic achievement, hinder the development of critical cognitive and classroom skills, and can adversely affect long-term educational trajectories. Effective interventions to reduce absenteeism and support affected students are crucial for mitigating these negative impacts and promoting academic success

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