



RESEARCH ARTICLE

EVALUATION AND VALIDATION OF THE ADVISORY SYSTEM EFFECTIVENESS IN AN ACADEMIC INSTITUTION

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ABSTRACT

The main purpose of this study is to measure and suggest remedial action to curtail the level of absenteeism and enhance performance by nurturing and cultivating good attitude and value addition among students in the College. This study conducted in a college having six semester diploma level pattern. The importance of attendance is reorganised as a prime factor in enhancing the final academic results of any institutions. Also the absenteeism is one of the major dragging factor in academic performance, but also it affects the harmony with in the institutions. This study aimed at addressing these issues through an advisory system model and effective counselling mechanism by the trained counsellors and suggest remedial measures to overcome such issues.

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INTRODUCTION

The role of good educational institution is to develop students to be a good citizen of tomorrow not only through academic performance but also enhancing good discipline and attitude by properly structured processing mechanism. The absenteeism is one of the main dragging factors in any educational institution. This affects the morale of the students and creates displeasure. A simple advisory system model has been developed to study the effectiveness of the model in a college. Advisory systems are small classes usually less formal lecture in which usually discussions can be in one to one basis to counsel the students. This advisory scheme is proposed to educational institutions to focus attention on the students who normally become absent because of various reasons or may be habitual, which drags the results. This system aims to curtail absenteeism and improve not only the student's academic performance but enhance harmony and bridge better mutual relationship with the faculty members and other team members. In this system students can discuss all matters which require counseling and guidance. This system focus on reduced level of absenteeism through advisory system, which directly translatable into higher degree of happiness and better academic performance, enhance cordial relationship between faculty and students, all the most, in total improved level of Quality of students life is the objective.

MATERIALS AND METHODS

The main objective of the study is to

- determine the level of absentism for a particular period.
- analys the pattern of absentiseem and its trend through the past data.

- Prepare a advisory system structure for implementation.
- Study the effectiveness of the system for the implemented period and suggest the model for regular implementation.

Past Data Analysis

The study undertaken in a six semester schedule pattern comprising of 61 days for even semester (fourth and sixth semester) students totaling 513 in numbers as shown in Table 1).

Table 1. Attendance Distribution of the past data

Semester	Total Students	Total number of days	Attendance Particulars		
			<80%	>80-<100%	100%
Fourth Semester	259	61 days	91	158	10
Sixth Semester	254		107	146	01
Total	513		198	304	11

Breakup Analysis of Fourth Semester attendance

The breakup of attendance for fourth semester students for a period of 61 days is shown in the Bar Fig.1. Only 10 out of 259 are in 100% and 158 students out of 259 are in the level of above 80 percentage and balance 91 students are less than 80 percentage. The trend pattern is shown in Fig. 2.

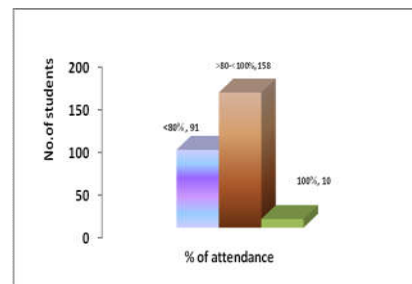


Fig.1 Bar chart showing the percentage absenteeism of Fourth Semester. The past data absenteeism trend of fourth semester

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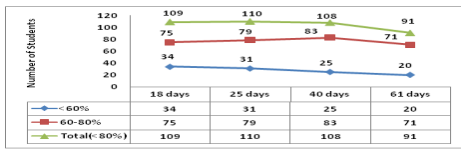


Fig. 2. The absenteeism trend of fourth semester

Breakup Analysis of Sixth Semester attendance

The breakup of attendance for sixth semester of 61 days is shown in Fig. 2. Only 1 out of 254 with 100% and 146 students out of 254 are in the level of above 80 percentage and balance 107 students are absents resulting 42% of absenteeism . The details and the trend are shown in Fig.4

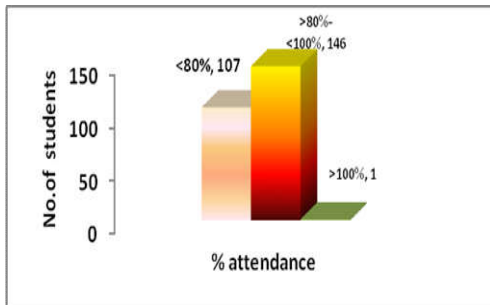


Fig.3 Bar chart showing the percentage absenteeism of Sixth semester. The Spread of absenteeism for the study period

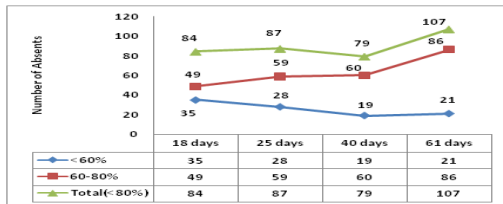


Fig. 4. Bar chart showing the percentage absenteeism of Sixth semester

Comparison of attendance with stipulated cutoff level

The Pie Chart (Fig. 5) indicates that the percentage of attendance with respect to the stipulated minimum cutoff level to appear for the final examination with a cushion of 5%. Around 39 percentage of students are absents with less than 80% of expected attendance in the even semester . It is a major concern for the institution, to improve the performance and curtail absenteeism, an advisory system structured .

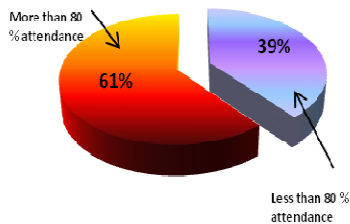


Fig. 5. Pie Chart showing percentage of absents above and below 80 percent

RESULTS

Implementation and Results and Analysis

The detailed review and implications thereon were clearly documented, presented to the upper committee and approved by the concerned authority for implementation in the subsequent semester to validate the suggested proposal based on the past analysis.

Proposed Methodology to curtail absenteeism and enhance performance

After a detailed analysis of the past data for 61 days among 513 students pertaining to the even semester, an advisory organization structure (Fig. 6) and an advisory system model (Fig.7) has been devised for implementation for the subsequent Odd semester . The system requirements were clearly discussed before implementation and the advisory members were given exposure under three days programme by a team of expertise trained counselors.

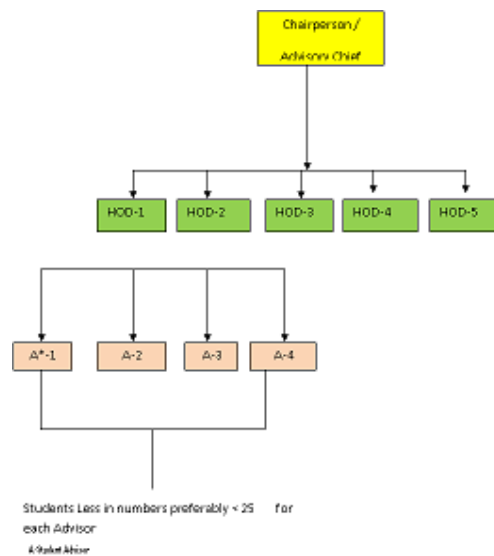


Fig.6 .Organisation Structure of Advisory System

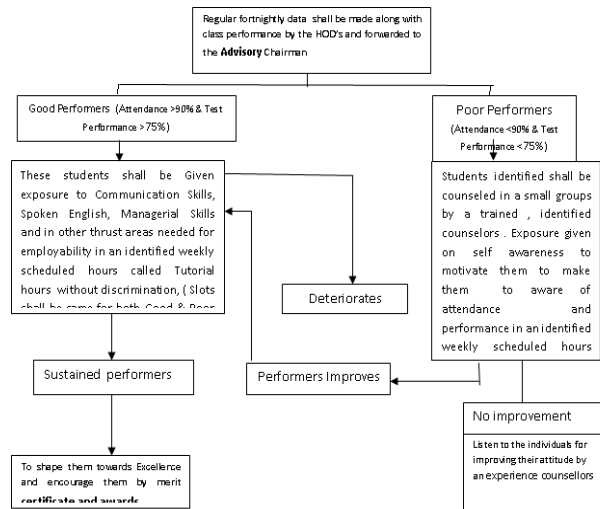


Fig. 7. Advisory System Model

Analysis of the Advisory system function after implementation

The proposed system model has been thoroughly examined and implemented for subsequent semester Odd semester . The Advisory system are small team usually less formal lecture in which discussion can be in one to one basis to counsell the students, who are of poor in nature , nurture them to become excellent.

Table 2. Attendance Distribution after implementing the Advisory Model

Odd Semester	Total Students	No.of small Team	Total No. of days	Attendance Particulars in percentage		
				<80	>80-<100	100
Third Semester	325	13	61 days	27	261	37
Fifth Semester	250	10	61 days	41	197	12
	Total			68	458	49

Interpretation

The results obtained were plotted in the Bar Chart Fig.8 for third semester in which out of 325 students 37 in 100% attendance ,261 in the level of 80-100% and 27were in the less than 80% attendance. Similarly Fig.9. illustrates the fifth semester Fig.9. in which out of 250 students 12 in 100% attendance ,197 in the level of 80-100% and 41 were in the less than 80% attendance.

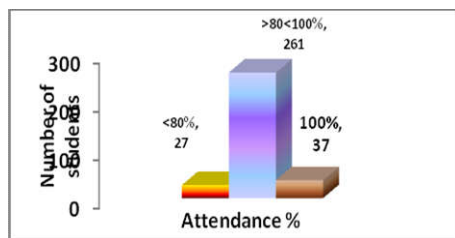


Fig.8. Bar chart showing the percentage absenteeism of third semester

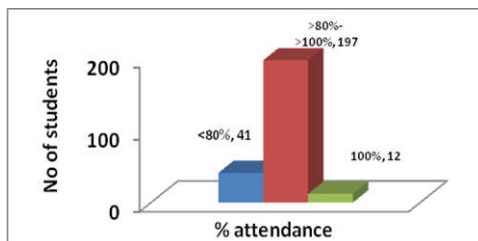


Fig. 9. Bar chart showing the percentage absenteeism of fifth semester

Test hypothesis

To validate the results test hypothesis framed

1. No significant relationship exist between absenteeism and semesters of (IV &VI)

Chi-Square test performed for the following data for the past level of performance

Even Semester	Attendance Particulars			Total
	<80%	>80-100%	100%	
Fourth Semester	91	158	10	259
Sixth Semester	107	146	01	254
Total	198	304	11	513

Chi-Square calculated value	d.f	Table Value	Level of Significant
9.08	2	0.103	Significant to .05% level

Since the calculated value is higher than the tabulate value, it is concluded there is a significant relationship exist between both the parameters

2. No significant relationship exist between absenteeism and odd semesters of (III &V)

Chi-Square calculated value	d.f	Table Value	Level of Significant
15.0542	2	0.103	Significant to .05% level

Since the calculated value is higher than the tabulate value it is concluded that there is a significant relationship exist between both the parameters

3. No significant relationship of absenteeism exist between even and odd semester.

Semester	Attendance Particulars			Total
	<80%	>80-100%	100%	
Even Semester	198	304	11	513
Odd Semester	68	458	49	575
Total	266	762	60	1088

Chi-Square calculated value	d.f	Table Vaue	Level of Significant
115.556	2	0.103	Significant to .05% level

Since the calculated value is higher than the tabulate value it is concluded there is a significant relationship exist between both the semesters.

DISCUSSION

This system basically a structured system and if it translated effectively by the advisory members fruitfully, which will result in enhancing result 100 percent success.

Conclusion

It is clear from the validated result after the implementation of the proposed advisory system model , there was a significant improvement in the performance both in regular attendance and the examination / class test results (Academic Results improved from 54.6% to 76.4%). The Democratic type of advisory members were able to counsell and beneficially get success through the system and make students towards excellence but whereas the casual type of Advisors because of their poor faith over the system pulls down the performance.

REFERENCES

All India Council of Technical Education

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