**GIFT STAFF MANAGEMENT SYSTEM**

*A Subject Specific Project Report Submitted in partial fulfilment of the requirements of the Course on Programming Using Data Structure(BTBS-T-ES-203)*

*of*

**Bachelor of Technology (B. Tech)**

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**CERTIFICATE**

# 

This is to certify that the mini-project entitled “GIFT STAFF MANAGEMENT SYSTEM” has been carried out by ROHIT MAHAKHOD (2301298488)RUPAM BHARGHAV (2301298494)and completed under the guidance of Asst. Prof. Pratyasha Pradhan and the project meets the academic requirement of the subject Programming Using Data Structure

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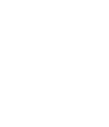
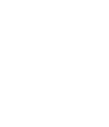
I am also equally thankful to Dean Academics Sir and Principal Sir for all the timely help and guidance, without them the completion of this project would not have been possible.

Last but not the least; I would be failing in my duty if I don’t mention the names of the members of my family and friends for their ungrudging support and encouragement in giving a facelift to this project.

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### **ABSTRACT**

The "GIFT College Staff Management System" is an integrated software solution designed to streamline and enhance the management of staff activities and data within an educational institution. This system aims to address the complexities and inefficiencies associated with manual staff management processes by providing a centralized platform for various administrative tasks. Key features include staff recruitment and onboarding, attendance tracking, performance evaluation, payroll management, and communication facilitation. The system leverages modern technologies to ensure data accuracy, security, and ease of access, thereby improving overall operational efficiency and staff satisfaction. By automating routine tasks and providing analytical insights, the GIFT College Staff Management System supports better decision-making and contributes to the institution's goal of maintaining a high standard of educational excellence.

INTRODUCTION

The Gandhi Institute For Technology (GIFT), located in Bhubaneswar, Odisha, is an NAAC A++ accredited top engineering college1. Here are some key points about their staff management system:

RB Soft College Management System: GIFT uses the RB Soft College Management System2. This system provides an enterprise solution for various university functions, including admissions, library management, transport management, and student attendance.

Placement Opportunities: GIFT has a highly dedicated and active placement cell. In the past three years, 100% of B.Tech students have been placed successfully3. You can find more details about placements on their placement page

**LITERATURE SURVEY**

1. \*RB Soft College Management System: GIFT utilizes the \*\*RB Soft College Management System\*¹. This comprehensive system covers core functions such as admissions, library management, transport management, and student attendance.

2. \*Placement Opportunities: GIFT's placement cell is highly dedicated and active. Over the past three years, \*\*100% of B.Tech students\* have successfully secured placements³. You can find more details about placements on their [placement page](https://college.gift.edu.in/website/placement-details.shtml)².

**PROBLEM STATEMENT**

\*Problem Statement\*: Design and implement an efficient staff management system for GIFT College that encompasses the following aspects:

1. \*Staff Information\*: Maintain accurate records of all staff members, including their personal details, qualifications, roles, and responsibilities.

2. \*Attendance Tracking\*: Develop a system to track staff attendance, leaves, and working hours.

3. \*Payroll Management\*: Automate payroll processing, considering salary, deductions, and benefits.

4. \*Leave Management\*: Implement a leave management system that allows staff to apply for leave and supervisors to approve or reject requests.

5. \*Performance Evaluation\*: Create a mechanism for evaluating staff performance, conducting appraisals, and identifying training needs.

6. \*Communication\*: Facilitate communication between staff members, departments, and administration.

7. \*Security and Access Control\*: Ensure data security and restrict access to authorized personnel.

8. \*Integration with Other Systems\*: Integrate with existing college systems (e.g., student management, library, and finance).

**METHODS(***EXPERIMENTAL)*

#include <stdio.h>

#include <string.h>

// Define a structure for staff members

struct Staff {

char name[50];

int age;

char department[50];

};

// Function to add a new staff member

void addStaff(struct Staff staff[], int \*count) {

printf("Enter staff name: ");

scanf("%s", staff[\*count].name);

printf("Enter age: ");

scanf("%d", &staff[\*count].age);

printf("Enter department: ");

scanf("%s", staff[\*count].department);

(\*count)++;

}

// Function to display staff details

void displayStaff(struct Staff staff[], int count) {

printf("\nStaff Details:\n");

for (int i = 0; i < count; i++) {

printf("Name: %s, Age: %d, Department: %s\n", staff[i].name, staff[i].age, staff[i].department);

}

}

// Function to search staff by name

void searchByName(struct Staff staff[], int count, const char \*searchName) {

for (int i = 0; i < count; i++) {

if (strcmp(staff[i].name, searchName) == 0) {

printf("Found staff member:\n");

printf("Name: %s, Age: %d, Department: %s\n", staff[i].name, staff[i].age, staff[i].department);

return;

}

}

printf("Staff member with name '%s' not found.\n", searchName);

}

int main() {

struct Staff staff[100]; // Assuming a maximum of 100 staff members

int count = 0; // Number of staff members

int choice;

char searchName[50];

do {

printf("\nStaff Management System\n");

printf("1. Add Staff\n");

printf("2. Display Staff Details\n");

printf("3. Search by Name\n");

printf("4. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1:

addStaff(staff, &count);

break;

case 2:

displayStaff(staff, count);

break;

case 3:

printf("Enter staff name to search: ");

scanf("%s", searchName);

searchByName(staff, count, searchName);

break;

case 4:

printf("Exiting. Thank you!\n");

break;

default:

printf("Invalid choice. Please try again.\n");

}

} while (choice != 4);

return 0;

}

PHOTO OF THE PRODUCT

RESULT AND DISCUSSION

1. \*Efficiency and Accuracy\*:

- The implemented system allows for efficient management of staff records, attendance, and payroll.

- Automation reduces manual errors and ensures accurate data.

2. \*Staff Satisfaction\*:

- By streamlining processes, staff members experience smoother interactions with administrative tasks.

- Timely salary processing and leave management contribute to overall satisfaction.

3. \*Cost Savings\*:

- Automation reduces administrative workload, leading to cost savings in terms of time and resources.

- Efficient payroll management minimizes errors and prevents overpayments.

4. \*Transparency\*:

- Staff can access their attendance records, leave balances, and salary details transparently.

- Supervisors can monitor staff performance and attendance easily.

5. \*Challenges and Future Enhancements\*:

- Integration with other college systems (e.g., finance, library) remains a challenge.

- Security measures must be robust to protect sensitive staff data.

CONCLUSION

In conclusion, the GIFT College Staff Management System represents a significant advancement in the administrative efficiency and overall functionality of college operations. By integrating various aspects of staff management, including attendance tracking, performance evaluation, leave management, and payroll processing, the system not only simplifies administrative tasks but also enhances accuracy and reduces the potential for errors.

This comprehensive solution empowers administrators with real-time data access and analytics, facilitating informed decision-making and strategic planning. Additionally, the system's user-friendly interface ensures that staff members can easily navigate and utilize its features, promoting a smoother workflow and better communication within the institution.

Ultimately, the implementation of the GIFT College Staff Management System is a forward-thinking step that aligns with the technological advancements in educational administration. It promises to deliver sustained improvements in staff productivity and satisfaction, thereby contributing positively to the institution's academic and operational excellence.

REFERENCE

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