



**IJIRCCCE**

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



# INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 11, Issue 10, October 2023

**ISSN** INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA

**Impact Factor: 8.379**



9940 572 462



6381 907 438



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# Engineering College Automation and Scheduling System

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**ABSTRACT:** This paper focuses on developing Engineering College Automation and scheduling System which can be used for management purposes. It is a Web-Application. It's necessary to develop such kind of Management system to reduce Human efforts as well as to reduce paperwork. We are using CSS, HTML as well as Bootstrap which can help to increase the level of responsiveness of the system. This system will help to make college work more efficient and easier. Engineering College Automation and Scheduling System are one of the best systems which are highly useful in school, High-school, and college as well as in universities that can use this Web-Application.

**KEYWORDS:** Platform, Automation, Analyzing academic data

## I. INTRODUCTION

College Management System is a Web Application. In this web application, some features like attendance generating a defaulter list automatically, report card generation, observation of HOD in the whole department, System which will submit the attendance to HOD as well as to the principal immediately. It is safe and secure. The main advantage of this web application is that it can run on mobile as well as on a computer, or laptop. The daily periods will be displayed on the application according to Time-Table. As per changes in the timetable, it will get updated. If an unknown person wants to create an account it will restrict and only required things will be displayed like the pictures of the college, canteen, campus area, labs, and classroom. The information about the college will be displayed. The most attractive point of this web application is that it will show whether the classrooms and labs are currently available or not. Faculty can easily observe students' activity. And HOD can observe all the Departmental Faculty activities also the student's status. If the document is pending for admission or scholarship, it will be displayed on the application to all and the application will send a notification to that student and Faculty also HOD, and Principal.

## II. CONCEPT

This web application is one kind of software that will help the Faculty and Non-teaching staff to work according to schedule. Students can see their attendance on the application, and if the student's attendance is less than 75% this web application will notify the student also it will show it to their class teacher. A short report of the canteen will be displayed only to the Principal and Canteen Manager. So, it will be easier to recognize the short report of the overall college. The examination part will recover from this web application. The unit test paper's mark will be displayed with percentage as per student profile selection. The date and timetable of the exam are also displayed. This web application helps all the students to receive any kind of notice declared by the college and discipline committee. This web application can help non-teaching staff. For example, if a person is from another college and wants to know

about college then they will not be able to access the college report until they become the part of college. They will be able to only see the basic information about the college and pictures of the college. The facilities of the college will be seen by all visitors. The syllabus of the subject will display as well as how much portion is covered of the particular subject also this will be displayed. The actual location of the faculty will be displayed by the HOD and Principal. All the upcoming events in college will be notified to all students and Faculties with dates.

### **III. PROBLEM STATEMENT**

Sometimes due to human mistakes, the data can be lost. Human mistakes can be caused to data loss or data leakage. Sometimes students don't get informed due to missed notice. And that type of problem can happen anytime. It requires getting accurate academic data for the report and for getting accurate data. Paper performs an important role but papers can be lost at any time. Also, if faculty is storing the data in the computer, then there are also some chances of loss of data. So, to protect data, manage tasks, and get accurate results, our web application will help them.

### **IV. LITERATURE SURVEY**

For solving this kind of problem, the software is developed that can help to solve this problem. But the software sometimes can't communicate with each other. It's hard to find available labs and classrooms in busy times so, this web application will notify the available classroom and labs.

Some related projects:

1. College Automation System
2. College Resource planning using RFID.
3. M-ERP Application

This web application is aimed at developing an online intranet college automation system.

### **V. FUTURE SCOPE**

In the future, this web application will be helpful for all kinds of college work. It will help the faculty, students as well as third-party people. It is more efficient to handle. It tries to reduce human efforts. It's important to collect data in a good manner and this will help in the future insufficient ways. It can store a huge amount of data.

1. Very less paperwork
2. User friendly
3. Platform Independent
4. Speedy work

### **VII. CONCLUSION**

By using this system students will be able to interact with every college online. It disables third-party people to interact with important data of the college. It will help to take intelligent decisions by suggesting notifications or pop-up messages.

It reduces manpower and increases the smart work parts. It provides accurate data to need those who are only from college part. The storage facility will ease the job of the operator.



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**INNO**  **SPACE**  
SJIF Scientific Journal Impact Factor  
**Impact Factor: 8.379**

**doi**<sup>®</sup>  
**CROSS** **ref**

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