VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi – 590 010

PROJECT REPORT
ON

"SMART ATTENDANCE SYSTEM"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "SMART ATTENDANCE SYSTEM" *is a bonafide work carried out by*

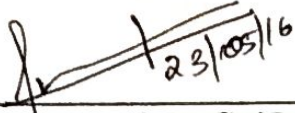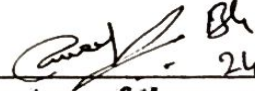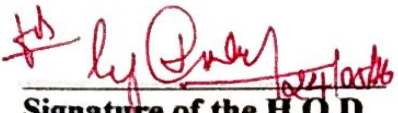|	
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in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS & COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2015–2016. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

23/05/16

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24/5/16

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ABSTRACT

In conventional systems, student record keeping is done manually by teachers by calling student name or by circulating the attendance sheet in the class. The manual methods are time consuming, prone to errors. In the recent years, automated systems that have evolved using standard biometrics like fingerprint and iris recognition are intrusive in nature and require expensive gadgetry. The design of proposed system makes use of facial detection and recognition algorithms like Viola Jones and PCA to identify the students in the image captured by a basic camera. Information of students is stored in the database, image captured from the camera is applied with face detection algorithm and compared it with the students image in the database for recognition phase. Daily attendance automatically gets updated in the excel sheet thereafter. The proposed system solves the problem of redundancy in manual records and makes a attendance keeping a convenient task. In this way a lot of time is saved and is highly a securing process, since no one can mark the attendance of other. The proposed system is easy to implement with low cost. No need for specialized hardware for installing the proposed system in the office. The Smart attendance management system can be constructed using a camera and computer. Attendance is marked automatically with minimal user intervention. The proposed system could be easily implemented in schools, colleges as well as offices.