**Partial Face Recognition Using Core Feature of Face**

Submitted in partial fulfilment of the requirements

of the degree of

**Bachelor of Engineering**

by

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**2014-15**



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# CERTIFICATE

This project report entitled **“Partial Face Recognition Using Core Feature of Face”** by

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**Project Report Approval**

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**Declaration**

We declare that this written submission for B.E project entitled “Partial Face Recognision Using Core Feature of Face” represents ourideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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**ABSTRACT**

This research aims at providing a system to automatically record the students’ attendance during lecture hours in a hall or room using facial recognition technology instead of the traditional manual methods.

The objective behind this research is to thoroughly study the field if pattern recognition (facial recognition) which is very important and is used in various applications like identification and detection.   A facialrecognition systemautomatically identifying or verifying a person from a digital image or a video frame from a video source. One of the ways to do this is by comparing selected facial features from the image and a facial database.

It is typically used in security systems and can be compared to other biometrics such as fingerprint or eye iris recognition systems

Facial recognition algorithms identify facial features by extracting landmarks, or features, from an image of the subject's face. For example, an algorithm may analyze the relative position, size or shape of the eyes, nose, cheekbones, and jaw. These features are then used to search for other images with matching features .Other algorithms normalize a gallery of face images and then compress the face data, only saving the data in the image that is useful for face recognition

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