# Adhiyamaan College of Engineering

**(An Autonomous Institution),**
**Hosur – 635 130**

## Department of Electronics and Communication Engineering

# Project – Guide Allocation Form

**Academic Year:**
**Semester:**

**Student Group Details**

| Sl. No | Name of the Student | Register Number | Email ID | Contact Number |
|---|---|---|---|---|
| 1 | | | | |
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**Project Title**

*(To be filled by student group)* **Title**:

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**Guide/Supervisor Details**

| Name of the Guide/Supervisor | Designation | Signature |
|---|---|---|
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**Declaration by Students**

We, the undersigned, hereby declare that the above project idea is our original work and we agree to abide by the academic integrity policies of the institution.

| Name of the Student | Signature |
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**Project Coordinator Approval**
**Name**: _____
**Signature**: _____
**Date**: _____

**Head of the Department Approval**
**Name**: Dr. S. Sumathi
**Designation**: Professor and Head, Department of ECE
**Signature**: _____
**Date**: _____

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## Abstract

Driver fatigue is one of the leading causes of road accidents worldwide. To address this critical safety concern, this project presents a low-cost, non-intrusive Driver Anti-Sleep Alert System based on eye-blink detection using an IR sensor. The system is designed using an Arduino Uno/Nano, an Infrared (IR) sensor, and a buzzer to alert the driver in case of prolonged eye closure, which is a strong indicator of drowsiness.

The IR sensor is positioned to monitor the driver's eye state. When the eye is open, the IR sensor reflects light and produces a HIGH signal; when the eye is closed, the signal becomes LOW. The Arduino continuously monitors the IR sensor input. If the driver's eyes remain closed continuously for more than 30 seconds, the system activates a buzzer and LED to alert the driver. Once the eyes are detected as open again, the alert is turned off.

This project avoids the use of complex image processing or camera-based systems and focuses on a simple, affordable, and effective solution that can be implemented easily in vehicles. The proposed system is ideal for real-time driver monitoring, especially for long-distance and night-time driving, enhancing road safety and reducing accident risks due to drowsiness.


| Name of the Student | Signature |
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**Signature of Guide/Supervisor** **Signature of Project Coordinator**

# Adhiyamaan College of Engineering

**(An Autonomous Institution),**
**Hosur – 635 130**

## Department of Electronics and Communication Engineering

**Project Diary:**

| WEEK | WORKS COMPLETED | SIGNATURE OF GUIDE/ SUPERVISOR | SIGNATURE OF PROJECT CO-ORDINATOR |
|---|---|---|---|
| 1. | | | |
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| **10.** | | | |
| **11.** | | | |
| **12.** | | | |
| **13.** | | | |
| **14.** | | | |
| **15.** | | | |

| Name of the Student | Signature |
|---|---|
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**Signature of Project Coordinator** **Signature of HoD/ECE**