

# **SMART INDUSTRY USING ARDUINO**

*A project report submitted in partial fulfillment of the requirements  
For the award of the degree of*

## **BACHELOR OF TECHNOLOGY IN ELECTRICAL & ELECTRONICS ENGINEERING**

**Submitted by**

**P VISHNU VARDHAN  
(16811A0210)**

**N L V S GANESH  
(16811A0207)**

**K SREENU  
(16811A0205)**

**M BHARADHWAJ  
(16811A0206)**

**Under the Esteemed Guidance of**

**Mr. S RISHIKESH**

**Assistant Professor**



**DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**(Permanently Affiliated to Jawaharlal Nehru Technological University, Kakinada, AP)**

**(An NAAC Accredited Institution)**

**Tamaram, Narsipatnam, Visakhapatnam-531113**

**2019-2020**

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Permanently Affiliated to Jawaharlal Nehru Technological University, Kakinada, AP)  
(An NAAC Accredited Institution)  
Tamaram, Narsipatnam, Visakhapatnam-531113

**DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**


This is to certify that the project report entitled "SMART INDUSTRY USING ARDUINO" is a bonafide work submitted by P VISHNU VARDHAN, N L V S GANESH, M BHARADHWAJ, K SREENU in partial fulfillment of the requirements for the award of degree of


**BACHELOR OF TECHNOLOGY  
IN  
ELECTRICAL & ELECTRONICS ENGINEERING**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,  
KAKINADA**

During the academic year

**2019-2020**

  
**Internal Guide**  
**Mr. S Rishikesh**  
Assistant Professor  
Dept. of Electrical & Electronics Engg.  
AIET, Narsipatnam.

  
**Sri Dr T Srinivasa Rao**  
**Head of the Department**  
Dept. of Electrical & Electronics Engg.  
Avanthi Institute of Engg. & Tech.  
Narsipatnam.

## ABSTRACT

Every industry is moving towards automation, each and every process is being automated. Manual operations for multiple tasks were replaced using sophisticated equipment due to lot of technological developments. Now the world is moving towards much more convenient ways of smooth operations, Industry 4.0, being the trend for all segments in industries, and the trend is towards smartness. Connectivity is everywhere in the world, so there is necessity of inter connecting everything for ease of operation. Smart Industry provides unique solution where focus is more on power saving and smooth operation. Every operation right from basic lighting, machinery operation, safety and security, parking lots in industry will be automated, which involves Arduino and multiple sensors like temperature and humidity sensor, ultrasonic sensor etc, which resembles agenda of Industry 4.0. To be in the league of growing business, getting smart can be an optimal solution for your business. By incorporating smart industrial solutions in a business, enterprises can convert real-time data into actionable insights which in turn can help in decision-making.