**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

# CSE DEPARTMENT

# REPORT ON OUTREACH ACTIVITY

**Name of the activity**:  Introduction to arduino controller one day work-shop

**Place**: Jublihills Public School

**Date**:  01-09-2018

Co-ordinator

G. Mallikarjuna Rao

Professor CSE Department

REPORT:

As a part of outreach activity CSE department identified the need to encourage and enlighten the school children about the microcontroller technology and how it is used to control interfaces that they see in daily life. In this regard jublihill public school expressed interest to host the event as a part of their '**Atal thinkering Lab '- MHRD** inauguration.

We proposed one day workshop covering Arduino atmel 328 controller and their interfaces. The program is designed by keeping their background (8$^{th}$ to 10$^{th}$ ) students.

Principal Smt. Vralakshmi welcomed the GRIET team and addressed the need of the exposing the technologies. Prof. G. Mallikarjuna rao on behalf of the CSE department given zest of the program and introduced the faculty members who will train the students.

Faculty Team, K. Sowmypriya assistant professor, S. Bhargavi latha assistant professor , B. S Anil Kumar Assistant professor and G. Mallikarjuna Rao professor engaged 45 students and ensure their active participation. Students very happy and expressed their satisfaction through the feedback



GRIET Team with Students of JHPS Sept1,2018

**GRIET Team with Students and School Teachers**

# Broacher:

Introduction To ARDUINO Workshop
**Department of CSE
In Association with GRIET, JPS**



**DATE: SEP 1ST 2018**



**Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)
Hyderabad-500 090.**
*GRIET*

***Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)* is a premier autonomous Institute committed to imparting quality engineering education. The CSE Department at GRIET makes continuous efforts to teach real engineering by focusing on hands-on practice in designing, developing and demonstrating projects and products in new and emerging technologies.**
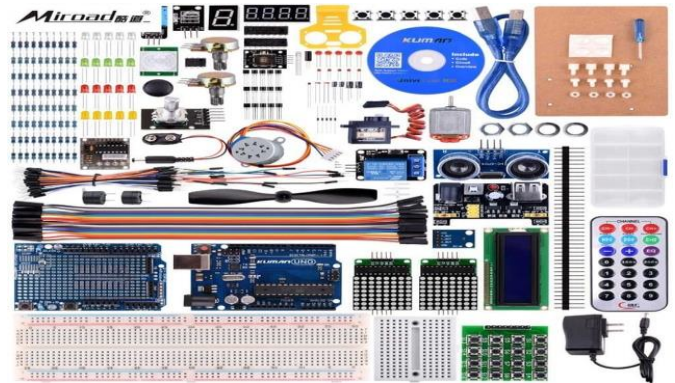
### Out Reach Program Activity:

### WHAT IS ARDUINO

Arduino is an open-source electronic prototyping platform which is based on easy to use Hardware and Software.
This platform is quite popular as many people started developing real world applications.

Arduino can interact with buttons, LED's, motors, Speakers,GPS units and

Smartphone's.Arduino IDE uses simplified version of C++.Thus allowing easy learning for program development.



Course Content

**TIME: 9:00AM To 02:00 PM**

09:00-10:00 – Introduction to Arduino Workshop.
Introduction to Arduino IDE, Basics
of Programming and Hardware board.
10:00-11:00 – Hands on training
(Fading of LED's, patterns of LED's).

11:00-11:30 – Serial Communication

11:30-12:00— Lunch Break

12:00-12:30- LCD Display

12:30-1:00-Ultra Sonic Sensor, Buzzer

01:00-1:30- Soil Moisture

1:30-2:00- Project Demonstrations

**Principals Appreciation Mail**

**Principal** <principal@jhpublicschool.com>
**To:**G M rao
**Cc:**Academicdirector JHPS
1 Sep at 4:06 PM
Dear Sir,

We thank you for conducting the Arduino workshop in our
school.Students were very enthusiastic about the program and they
have given the feedback that the program was very good, relevant and
they enjoyed working with the kits.

We would like you to continue the support and take it forward.


Regards,

M.Varalakshmi
Principal

Show original message



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M.VARALAKSHMI
Principal
Jubilee Hills Public School
Hyderabad



Report Submitted by:
G. Mallikarjuna Rao
Professor ,CSE Department