**WORKSHOP PROPOSAL**

**Presenter**: CTRC Core team

**Topic**: Basics of arduino

**Time**: Minimum Two Hours

As , knowledge of microcontroller and other similar devices is a essential part of skill enhancement of students the basic workshop can be focused to develop their relevant skills. The microcontroller use, programming and then making a project is proposed work for the participants willing to learn. Theoretical knowledge learnt inside class isn’t only enough for them to boost their project development skills. So, workshops can encourage them to participate and enhance their knowledge.

**Rationale**

The present session will be fruitful for students to enhance their skills with use of microcontroller and different components for project development.

Learning Objectives

At the end of the session, the participants will be able to-

* Get familiar with microcontroller devices
* Get idea on basic programming for arduino
* Get started with a simple project using arduino
* Practise the use of different components and devices for building a project

**Programme content**

* Guided training for students
* Lecture session on the devices and programming with arduino
* Question answer and discussion session
* Students implementation session

**Training Methodologies**

* Seminar with power point slides
* & video projections on screen Workshop with clear instructions and hand-outs
* Team Activities with clear learning objectives and outcomes
* Progarmming instruction lecture :key learnings for participants

**Duration**

Minimum two hours

**Mode**

Physical mode

**Resource required**

• Internet connection laptops/smartphones with the participants

• Writing pads, pens, pencils and sketch pens

**Target Audience**

This session will greatly benefit the students. Their personal skill development and making familiar to microcontroller devices is a key aspect of the workshop.

**Any Other Important Requirements**

* Participants would be requested to fill a feedback form on the effectiveness of session and the things the mentors need to approve.
* Participants must not use smart phones during sessions and should maintain discipline.
* The question answer session will be conducted after the lecture session.
* Participants would be expected to fill an anonymous feedback form on the quality of the training program and skills of the trainer. This will be used by trainer for future reference.
* Participants can contact the trainer after the program for any queries through email

**References**

|  |
| --- |
| S No. Name Designation Mobile Number E-Mail |
| 1. Ramesh Saud President Rajusaud@gmail.com |
| 1. Kumar shrestha Vice President |