Proposal for Organizing Robotic Workshop –

**NepTech Solutions**

# Objectives

* It aims to introduce School/Colleges Students about basic concepts and techniques on digital Electronics and programming knowledge to enhance their creativity .
* It also aims for global representation of Schools/Colleges.
* By the end of the Workshop, students would be able to know about interfacing different sensors with controllers with the help of simple digital equipments.

**Robotics & Electronics Innovation**

In the present era of technological advancement & competition, where technology get changed within school/college span. Technical information & applications on the way of geometrical progression. The fast & accurate learning is the demand of present time and hence the structured learning strategy is our core requirements. As the fresh student to the school/college door are eager of learning & full of enthusiasm to the technology, we have to introduce them with the world of Robotics and Electronics in the practical ways to experience the power of Engineering to real world.

**What we do at NepTech Solutions?**

Our core working policy is ‘Learning by Doing’ which is executed by exceptional expert in the field of Robotics education who have very vast experience and achievements during the college time and dedicated to the technical education. We are solely dedicated to design, develop and execute latest, practical and most economical Courses in the field of Robotics and Electronics.

**Our unique features**

1. Courses are followed by two days on-school/college workshop for 12 Hours.
2. All theoretical portions are covered during the fabrication of robotics subsystem, testing and troubleshooting rather than wasting it in boring theory classes.
3. Our courses are most economical so that we ensure its reach to the whole.
4. Additional needful entities provided to keep the interest of student active in future, those are:-

* The freeware software and tools.
* . State-of-art study material related with the contents of workshop course in soft copy.
* Lifetime online technical assistance for the registered student.
* A **participation Certificate** from **NepTech Solutions** to every participants

**Proposal for School**

The workshop will on the course “**RoboNep**” and conducted in two days for 12 Hours, Where Students can learn basics of Physics and Electronics in practical ways by fabricating various innovative project and Robot during the workshop and same shall be there Science project.

**Proposed Workshop Contents:**

* **RoboNep (General Robotics & Electronics)**

This workshop is designed to provide direct communication with the experienced persons of engineering and technology field for motivation, courage and some sort of career related discussions along with very interesting interface of electronics hobby-project design process. In this we deal about some basics on electronics and workshop to induce students with knowledge, skills and practices which enable them to fabricate some Science project of their own choice. The workshop for two days (six hour per day), during this, sharp minds got involved in science project fabrication with full time availability of very experienced persons of these fields.

* **Workshop Content:**

1. Introduction to Engineering fields and career opportunity.
2. Introduction to Robotics and some demonstrations by functioning of Robots.
3. Introduction to basic electronic components with practical testing.
4. Theoretical aspect of Temperature alarm, light detector, smoke detector and other projects proposed by participated student.
5. Circuit design for these projects and testing the same.
6. Project fabrication, testing and troubleshooting of white line follower
7. Improvements real-life applications and future development of the deigned project

**Workshop fees**

Registration Charges for attending the workshop (Compulsory) NRS 550/- per participant who want to take participate in two day workshop.

**Components**

1. Arduino UNO
2. UltraSonic sensor
3. LDR(Light Detecting Resistance)
4. Gas sensor
5. Temperature Sensor
6. Humidity Sensor
7. Resistors
8. Bread Board
9. Led’s
10. Multi-meter

**Requirements from Institution**

1.A lecture room as per the capacity of students (for 1+2 days, 6 Hours each .

2. LCD projector and accessories.

3. Power supply Backup.

4. Lecture board and accessories.

5. Well equipped Computers.

Helpline No: +977 9812026267

+977 9819009264

E-Mail: [neptechsolution@gmail.com](mailto:neptechsolution@gmail.com)

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**Director**