

## **BEST PRACTICE – II**

### **1. Title of the Practice**

Robotics program conduction for school students

### **2. Objectives of the Practice**

Learning is the process of procuring new understanding, knowledge, behaviors, skills, values, attitudes, and preferences. Generally, Students must acquire some latest trends in the field of robotics besides what is provided in the school curriculum. Hence our institution has taken up the steps for school students to complement the informative knowledge practically and skills related to their field of study. This course should encourage the students to know the latest technology in robotics and critical thinking. To motivate the students learn skills and information that will help them in their future career success.

### **3. The context**

As such, robots serve as the preferred tools as they can withstand various environmental hazards and, to some extent, perform things humans cannot do. We also use robots in military navigation and exploration missions. There is no question that robots are a great deal more efficient than humans, especially when it comes to things like manufacturing goods. Not only are robots able to work with better accuracy, they also reduces the amount of time and materials wasted, they can also work faster (and longer) than humans can.

### **4. The Practice**

In today's technological world, it is more important than ever to prepare our students with the right tools for their future. Regarding this, our institution should select a valuable path as teaching robotics lessons to school students can increase their ability to be creative and innovative thinkers, Robotics for school students can help students turn their knowledge into creativity and innovation. We have separate room for giving robotics training class to school students. The Program coordinator teaches students perseverance and determination when faced with challenges. When students learned about Demo of robots with wireless control, basic Arduino program, Bluetooth robot, it's easy for them to see and correct any errors as they learn what robots can and cannot do. Finally, The session would come to end with Valedictory and certificate distribution to school students.

## **5. Evidence of the Success**

Our institution always concentrate on school students to develop the skills based on this course which is needed to create precise and accurate instructions and have fun while learning valuable lessons. By teaching them the basics of robotics, we can open a whole new world of exciting opportunities that benefits their options especially in engineering career. Robotics Helps with Developing Critical-Thinking and Problem-Solving Skills. Developing the right skills will prepare students for the competitive educational and professional society.

## **6. Problems Encountered and Resources Required**

The initial problem faced was convincing the students of the usefulness of these courses. Many of the students were found to be less motivated and focused because of the lack of awareness of the vast changes in the cities and the demands of the emerging job markets. As most of the students were from rural under-privileged society, they found it difficult to understand the basic concepts of robotics. So that the coordinators of the courses spoke to the students and convinced them that these courses would increase the employability skills.