

## **Best Practice I**

1. **Title of the Practice:** ATL Tinkering Lab- Robotics Students Club.
2. **Objectives of the Practice:** To encourage and support practical implementations of robotics curricula in schools. To enhance Creativity and Problem-solving Skills among students. To Help children to connecting the real world and experience the kind of scientific theories that make a robot function. ROBOCLUB is a Co-curricular activity that aims to engage students with a fun and enjoyable way of learning new skills as well as to cultivate leadership and entrepreneurship capabilities.
3. **Goals:**
  - Along with participating in robotics events and competitions, they are conducting seminars, workshops and lectures for students to make them clear about the term 'robotics'.
  - In collaboration with different institution they will conduct lecture series for student.
  - To club together the knowledge from various branches of Engineering into the field of robotics.
  - To go deeper in the sector of robotics year by year.
  - To provide a platform for students to showcase their creativity and innovation.
4. **The Context:** Technology is present everywhere, except in schools. Technologies in schools today do not support the 21st-century learning skills. Robotics is just the servant of other subjects we need for new and broader perspectives. Students are only consumers not makers for robotics field and are concentrated only for curriculum activities
5. **The Practice:** PDEA's College of Engineering has established ATL Tinkering Robotics students club. Under ATL Tinkering Robotics students club we teach robotics to interested students in school. Each year we train 30 to 50 students of our college. We make team of 5 students and send them to various schools in pune. Our trained students teach robotics and help school students for making robotics projects. We are proud that every year 5 schools have been received our training in pune. Many school needs more and more trainers. Our aim is to make our team size

200-300 so that robotics knowledge should be spread to all over pune by our college students.

6. **Evidence of Success :** PDEA's College of Engineering had successfully trained 5 schools and our students had helped them to make innovative projects. We also conduct project presentation of these school students every year. Project presentation can be seen through youtube link provided <https://youtu.be/XNsUwV4XSZI>.

The above presentation is success of our students in which very innovative robotics projects has been presented by school students. All students are trained by our well trained college students. Also our students received thanks letter by respective schools.

7. **Problems Encountered and Resources Required:** Problem in teaching robotics is that insufficient resource is present in schools regarding robotics. Time limit is also one of major factor to be considered. Many schools not provide sufficient time for students for learning robotics. Robotics labs should be developed across every school and one full time faculty should be provided for teaching robotics.