



# Engaging the Public High Schools in Marikina City, Philippines through ARTIST



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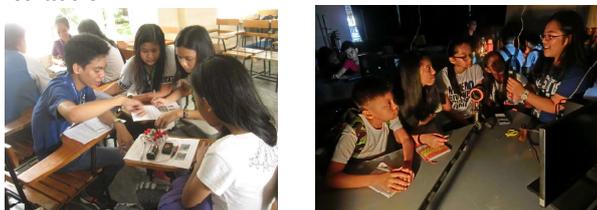
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## Introduction

In 2013 the Enhanced Basic Education Act of 2013 was signed into law. The basic education system then followed the K-12 curriculum. The change created a lot of challenges for the science teachers. The paradigm shift to a constructivist, inquiry-based, reflective, collaborative, integrative and spiral curriculum was totally new to a lot of teachers. With the objective of assisting public schools in coping with the new challenges, in 2016, the Department of Physics, Ateneo de Manila University (ADMU) in collaboration with the Office of Social Concern and Involvement (OSCI), ADMU initiated the engagement with the Marikina City Division Department of Education (DepEd). For the past three years the number of high schools in the network increased from one to four and the ARTIST project has played an important role in sustaining these engagements. This is our report.

## ARTIST and ARTIST-supported activities 2016-2019

### A. Student (ADMU) – to – Student (Network high school) interaction



ADMU students facilitating experiments being done by the high school students

### B. Student skills training



The ADMU students undergo skills training wherein they get to understand the laboratory activities before they are deployed to the high schools. This trainings are done at the ARTIST network center

### C. Workshops on Action Research (in cooperation with College of Education, De La Salle University and the ARTIST Team)



Teachers from the network high schools attending the workshops ( April 2018 and May 2018)

### D. ARTIST network center and lecture halls with smartboards



The ARTIST network center is a hub of activities – for students’ and teachers’ skills training, a lab for design and fabrication of science apparatus, discussion room of science education graduate students, stock room of Physics demo experiments and ARTIST materials, etc.

### E. Teachers’ laboratory trainings



Teachers from the network high schools undergo laboratory training in different grade levels of Physics

### F. Development of Physics materials



Materials appropriate to the conditions of the public school system are constantly being developed at the ARTIST network center.

### G. Career orientation for STEM-strand high school students from the ARTIST network high schools



Career talk on biomedical engineering industry in the Philippines

### H. Loan of ARTIST science equipment to partner high schools



ARTIST optics equipment being used in DedEd training of trainers workshop on optics

### I. Assisting in the faculty capacity building of the network high schools

Two teachers from one of the network high schools graduated with a degree of Master of Science Education.

Another teacher from a separate network high school completed a Masters degree with the loan of ARTIST equipment which were used in the study.

**ARTIST is supported by the Erasmus + Programme of the European Union**