



Republic of the Philippines
Department of Education
Region VII, Central Visayas
DIVISION OF CEBU PROVINCE
Sudlon, Lahug, Cebu City



October 18, 2013

Division Memorandum
No. 642, s.2013

TRAINING WORKSHOP ON ROBOTICS

To: OIC. Assistant Superintendents
Education Supervisors/ Coordinators
District Supervisors/OICs
Elementary and Secondary School Heads
Heads, Private Elementary and Secondary Schools

1. Attached is a letter from the office of the Marketing Manager of Educational Production Management Services, Mr. Jose M. Petalino, Jr. dated October 7, 2013 about the training/workshop entitled "Robotics In Focus".

2. Students are invited to this program, but it is reiterated that the conduct of activities like this is purely voluntary and non-compulsory in public and private schools in the Province of Cebu.

2. Immediate dissemination of this Memorandum is desired.


ARDEN D. MONISIT, Ed.D.
Schools Division Superintendent

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October 7, 2013

THE SCHOOLS DIVISION SUPERINTENDENT

Division of Cebu
Department of Education
Cebu City

Dear Sir/Madam,

Grace and peace in the name of our Lord!

Pursuant to the approved Advisory No. 299 series of 2013 dated July 19, 2013, and to bring better ICT educational opportunities and information to our students/ schoolchildren in our country, specifically the competencies of K to 12 and the core subject of Information and Communication Technology (ICT) and Science, and in preparation to the National Science Quest and International Robotics Competitions, the EPMS is offering a training/ workshop on robotics in your area of supervision through your office. The training/workshop is entitled **“Robotics in Focus.”**

The said training/ workshop aims:

1. To provide wider horizon among students and teachers into application of technology to research as a support to the K to 12 curriculum;
2. To provide the students and teachers the new learning experience that would enhance the teaching-learning process through the use of modern technology and to become globally competitive;
3. To develop competent teachers to teach robotics;
4. To enhance and discover new talents of students and teachers in the field of robotics;
5. To lessen the expenses of the schools in conducting robotics trainings for teachers;
6. To prepare the students and teachers for national and international competitions in robotics.

In connection with these a training-registration fee of **TWO HUNDRED FIFTY PESOS (Php. 250.00)** will be charged per student participant to defray expenses for the transportation and maintenance of equipment, devices, and services of the technical crew and trainers which will be charged from the schools fees and/or other local sources of fund subject to the usual auditing and accounting procedures of the schools. The collection of registration fee is not a violation to Republic Act No. 5546, *An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities* since there is no selling of tickets and/or collection of contributions involved.

On the other hand, *we would like to let you know that our package includes FREE Teachers Training and we will give one unit of robot for every One thousand student participant.* Attached herewith is the program mechanics and DepEd Advisory No. 299 series of 2013 for reference.

We earnestly hope and pray for your favorable response on this joint endeavor for the betterment of education. Thank you very much and more power to your administration.

Very truly yours,

JOSE M. PETALINO, JR.
Marketing Manager

DepEd ADVISORY No. 299, s. 2013

July 19, 2013

In compliance with DepEd Order No. 8, s. 2013
this advisory is issued for the information of DepEd officials,
personnel/staff, as well as the concerned public.

(Visit)

TRAINING-WORKSHOP ON ROBOTICS IN FOCUS

The Educational Production Management Services (EPMS) will conduct the *Training-Workshop on Robotics in Focus* to all secondary schools nationwide. This activity is in preparation for National and International Robotics Competitions.

The Training-Workshop aims to:

1. provide the students and teachers with the new learning experience which would enhance the teaching-learning process through the use of modern technology and to become globally competitive;
2. provide wider horizon among them into application of technology to research;
3. develop competent teachers to teach robotics;
4. enhance and discover new talents of students and teachers in the field of robotics; and
5. prepare them for national and international competitions in robotics.

The students and teachers from both public and private secondary schools nationwide are invited to participate in the said activity.

Participation of both public and private schools shall be subject to the no-disruption-of-classes policy as stipulated in DepEd Order No. 9, s. 2005 entitled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith*. This activity is also subject to the no-collection policy as stated in Section 3 of Republic Act No. 5546, *An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities* (Ganzon Law).

More information may be inquired from:

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ROBOTICS IN FOCUS Series One (1)
ROBOTICS TRAINING PROGRAM OUTLINE

ACTIVITIES	Description	Time Frame
INTRODUCTION TO ROBOTICS A. OBJECTIVES B. BENEFITS b.1 Teachers b.2 Students C. TIMELINE D. APPLICATION OF ROBOTICS d.1 Daily Life d.2 Education E. ROBOTIC KITS F. ROBOT GAMES	State the objectives and advancement of using robotics in our society. Emphasize the benefits booth teachers and students will derive from the training-workshop. History of Robotics Robotics applied in education and in our daily life (Hospital, laboratory, research and development) Present and highlight different kits available in the market and the advantage and disadvantages of using them in education and teaching. Discuss the strategic robot games, all games are designed for fun. Robot games are creative way to stimulate learning.	2 hours to 2.5 hours (8:00-10:00 am)
G. PARTS OF ROBOBOX 3.0 H. BASIC PROGRAMMING I. INTRODUCTION TO SENSORS J. CONSTRUCTING MY FIRST ROBOT	Discuss the kit that will be used for the training-workshop, its parts and features. Be able to do simple programming like forward, backward, turns, rotation, square, triangle and cross. Discuss the types of sensors and their respective use. Discuss and design appropriate for each environment, hands-on activity	2 hours (10:00-12:00 am)
LUNCH BREAK		
A. SENSORS A. 1. Touch A.2. Distance B. PROGRAMMING B.1. Using Touch Sensor B.2. Using Distance Sensor C. Rebuilding Robots with Sensor	Discuss thoroughly the types of sensors, how to attach them in the robot and their respective use. Show example of robots using different types of sensors. Discuss advance programming, which is programming the robots with sensor used. Discuss advance sensors attached to robots. Participants should modify their robot design using different sensors. Providing a task for the participants to test their logic and programming skills.	3 hours (1:00-4:00pm)
D. GAMES D.1. Sumo D.2. No bumping on the wall	Exposing participants to different friendly robotic competition.	1 hour (4:00-5:00 pm)