

FIFTEENTH CONGRESS OF THE)
REPUBLIC OF THE PHILIPPINES)
First Regular Session)

SENATE
OFFICE OF THE SECRETARY

10 JUL 12 P3:25

SENATE

S.B. 1255

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Introduced by Senator Manny Villar

EXPLANATORY NOTE

In this age of globalization, science and technology (S&T) have undeniably become the most significant tool in economic growth and source of competitive advantage. The past years, the Philippines has been silently reaping laurels in science and technology. In 2006, for example, in the World Robotics Olympiad in Nanning, China, the country's representatives Kim Marco Perez, Dann Joseph Garcia, and Francisco Gabriel Nunez of the First Asia Institute of Technology and Humanities bagged the Gold Medal in the Open Category with their theme "Humanoids". Equally outstanding are the Winning feats of Filipino students in the Intel International Science and Engineering Fair (ISEF) 2006.

This bill is submitted with the foremost consideration of supporting modern education through the integration of robotics application in secondary science curriculum. It accelerates the pace of teaching physics and other science subjects. Under the bill, robots, as may be applicable, shall be utilized as technology tools that will allow students to perform experimental applications in designing, building and testing gadgets for instructional purposes. They shall be utilized by teachers as complementing their efforts.

Initially, all campuses of the Philippine Science High School and selected science high schools under the Department of Education shall be introduced the knowledge of robotics application. Teacher training that includes but not limited to software programming; robot assembly; integration of robotic concepts on energy, light and optics, electronics and magnetism, force, power, work and motion, shall be robustly conducted.

The author is not a believer that science is and will be fatally trumped by politics at every turn. The author, in fact, subscribes that S&T are what the country needs to survive the modern world. And hence, early enactment of this legislation is honestly sought.


MANNY VILLAR

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**AN ACT
INTEGRATING ROBOTICS APPLICATION IN THE TEACHING OF
SECONDARY SCIENCE EDUCATION IN THE PHILIPPINES,
APPROPRIATING FUNDS THEREFOR AND FOR OTHER PURPOSES**

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled:

SECTION 1. The use of modern technology through robotics application is hereby promoted as part of the Philippine science educational curriculum. Robotics application shall be integrated in the teaching of physics and other science subjects, concepts, theories and principles. Robots, as may be applicable, shall be utilized as technology tools that will allow students to perform experimental applications in designing, building and testing gadgets for instructional purposes.

Initially, all campuses of the Philippine Science High School and selected science high schools under the Department of Education shall be introduced the knowledge of robotics application. Teacher training that includes but not limited to software programming; robot assembly; integration of robotic concepts on energy, light and optics, electronics and magnetism, force, power, work and motion, shall be conducted.

SEC. 2. The sum of One Hundred Million Pesos (Php 100,000,000.00) is hereby appropriated to support the initial implementation of this Act which shall include the designing of the course on robotics application, teacher training, development of tools and instructional materials and other concepts on robotics.

SEC. 3. The Department of Science and Technology (DOST) in coordination with the Department of Education (DepEd) and in consultation with all relevant sectors engaged in education shall issue the necessary implementing rules and regulations of this Act.

SEC. 4. This Act shall take effect fifteen (15) days after its complete publication in the Official Gazette or in at least two (2) newspapers of general circulation.

Approved,