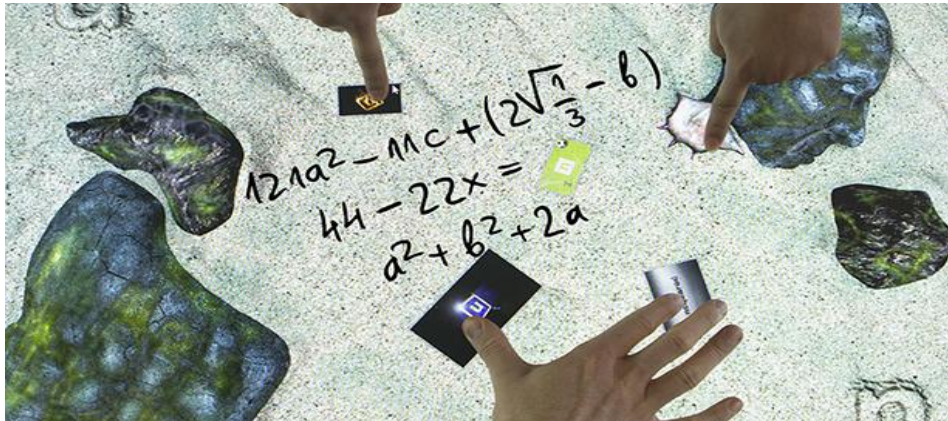




## Education for Science and Technology and ICT in Education

25.5-18.6.2015




*"The whole purpose of education is to turn mirrors into windows."  
Sydney J. Harris*

The technological and scientific revolution is one of the defining features of modern human history. As such, acquaintance with science and technology as elements of human culture should be the prerogative and goal of every individual, independent of his or her occupational needs. While science and technology are obviously significant from an economic perspective, they also form an integral part of a broad-based liberal education.

It is also evident that education ICT and Education for Science and Technology must keep abreast of developments in different global aspects. In light of the fact that a modern technological society is subject to rapid and frequent changes, an essential part of today's general education must enable students to be flexible and adaptable.

Instant access to knowledge has opened new windows of opportunity for students, teachers, and the general public alike. Although communication has become much

**The Ofri International Training Center**      **מרכז הדרכה בינלאומי ע"ש א. עפרי** 

faster in the global world, this also demands that society keeps pace with advances and progress. Under these circumstances, the educational system must reassess its methodologies, theories, and paradigms in order to be able to meet the needs of the modern world.

This brief review indicates that two issues are fundamental to ICT and Education for Science and Technology:

1. What contribution can Education for Science and Technology make with respect to preparing students for their personal and working lives?
2. What strategies can we employ in order to enhance the development and adaptation of ICT with regard to education in general, the propagation of ICT, and the use of science and technology within the educational system?

The Israeli Ministry of Education has concluded with respect to these two questions that:

1. ICT is set to become the medium of education for the foreseeable future and will change many aspects of the educational system during the 21<sup>st</sup> century.
2. The goals outlined above should be introduced into the educational system as part of a national plan based on a holistic and systematic understanding of the role of science, technology, and ICT in education.

The ICT era has brought about great changes in our lives in general and the educational process in particular. Schools must relate to these changes and integrate them in order to implement the reforms required by our contemporary world. New tools, abilities, and technologies enable innovations to be introduced in teaching methods that will allow education to keep pace with the rapid developments in the forms of learning and study material to which today's students are exposed.

The course designed by the Ofri International Training Center is aimed at directors, managers, and supervisors of educational institutions and systems, whose responsibilities involve the allocation of resources and development of educational

**The Ofri International Training Center**      **מרכז הדרכה בינלאומי ע"ש א. עפרי** 

policies. It is based on the vast experience the Israeli education system has acquired over the years in working towards an educational environment contributive to sustainability and globalization.

### Goals

- To analyze the place and role of education for science and technology within national development
- To acquaint the participants with new concepts, methods, and tools regarding education for science and technology
- To present various educational projects and curriculum models used in Israel (including policy-making, didactic and administrative aspects and teacher training courses.)
- To share and exchange experiences and knowledge gained in the participants' countries of origin
- To adapt the teaching environment to new approaches of science and technology
- To elaborate the concept of ICT in education
- To acquaint participants with a variety of learning methods and applications
- To enable the participants to maximize the benefits of using ICT in teaching and learning

### Content

- Policies in Science and Technology Teaching: How to adapt science teaching planning to the socio-economic realities of the country.
- Study and discussion about different areas and curriculum models in science and Technology teaching.
- The use of teaching aids from simple and low cost materials to modern and sophisticated instruments.
- Teachers' training - needs, policy and realities.



**The Ofri International Training Center**      **מרכז הדרכה בינלאומי ע"ש א. עפרי** 

- Computers in Education.

### Methodology

The Ofri International Training Center has developed a unique, holistic approach that takes into consideration the emotional and creative aspects of the pedagogical process. Its working methods enable program participants to make practical use of theoretical knowledge.

- Lectures and discussions led by experts.
- Workshops.
- Analysis of educational planning through written material and professional visits.
- Meetings with institutional administrators and acquaintance with projects at the national and regional levels.
- Simulations, panel discussions, and group work.
- Preparation of final projects by individuals or groups.
- Study tours at schools, educational centers, universities, teacher training institutions and pedagogical resource centers.

### Certificate

A Certificate of Studies will be awarded to participants who have attended classes regularly and fulfilled all requirements.

### **Applications:**

**Application forms should be send to the relevant Israeli Mission and to the Ofri Center by or before 13.4.2015**

Application forms and other information may be obtained at the nearest Israeli mission and Or at MASHAV's website: <http://mashav.mfa.gov.il> (Courses) Or at [www.ofri.org.il](http://www.ofri.org.il)

### Accommodation



The Ofri International Training Center מרכז הדרכה בינלאומי ע"ש א. עפרי 

Participants will stay at the Ramat-Rachel Hotel, located on the outskirts of Jerusalem, on a **two person per room** basis. For more information:  
<http://www.ramatrachel.co.il>.

### **Social Activities**

Participants are requested to bring traditional clothing that represent their country for cultural and folklore presentations during the workshop. If the participants wish, they may bring souvenirs from their countries to present to other participants.

### **Medical Insurance**

MASHAV will cover medical services and hospitalization in case of emergency. **It does not cover the treatment of chronic or serious diseases, dental care, eye glasses, and the period of pregnancy or specific medication taken by the participant on a regular basis.** Health forms must be completed and signed by a physician. The insurance policy **does not** cover damage or loss of personal belongings.

### **Flights, Passport and Visas:**

The scholarship given by MASHAV **does not** include the cost of the flight ticket to Israel and/or from Israel. We highly recommend booking your arrival for the day before the beginning of the seminar, and your departure for the day after the seminar ends. Passports must be valid for the duration of the entire seminar, and must include an **entry visa** to Israel.


**Two additional passport-size photographs** for various documents are required.

**Should you plan to visit or transit via other countries while on your way to and from Israel, please arrange visas before leaving home, as there is no possibility of receiving visas in Israel.**

### **TRANSPORTATION**

**Traveling from the airport to the A. Ofri International Training Center, Ramat-Rachel, Jerusalem:**



The Ofri International Training Center מרכז הדרכה בינלאומי ע"ש א. עפרי 

At the exit, on the left side, take TAXI NESHER Service to JERUSALEM (it's a shuttle, not private cab), to the Ramat Rachel Hotel, located in Kibbutz Ramat-Rachel. The cost is 55- Shekels. Keep receipts in order to be reimbursed.



### *MASHAV - Israel's Agency for International Development Cooperation*

MASHAV - Israel's Agency for International Development Cooperation - at Israel's Ministry of Foreign Affairs was founded in late 1957, and is responsible for the design, coordination and implementation of the State of Israel's development cooperation programs.

MASHAV concentrates on human and institutional capacity building by sharing Israel's own development experience and expertise, imparting know-how and transferring innovative technologies and tested methodologies adaptable to developing country needs.

MASHAV's approach is to ensure social, economic and environmental sustainable development, joining the international community's efforts to implement the Millennium Development Goals by 2015.



The Ofri International Training Center

מרכז הדרכה בינלאומי ע"ש א. עפרי



In events of natural disasters, MASHAV also provides humanitarian assistance and participates in reconstruction and rehabilitation efforts.

## *A Window to Innovations in Education*

The A. Ofri International Training Center was established in 1989 as a professional extension of MASHAV - Israel's Agency for International Development Cooperation. The activities are targeted to meet the Millennium Development Goals (MDGs) set by the United Nations.

The Center's vision is that education is the starting point for a person to build himself/herself a gate to new possibilities. Education is the key to a better future and shields against physical harm and confronts moral dilemmas. Education enables us to ask for proper healthcare when needed, and the way to stay healthy and adopt responsible behavior with our bodies. Education is sharing, learning and growing up together with others. Through education we can learn to take better care of our world, treat it respectfully and use wisely the resources it offers us.

Education concerns itself with learning at all levels, from elementary and secondary school through adult education, and provides knowledge and training for basic skills development, civic awareness, community education, education for special populations, treatment for youth (including those at risk), youth integration, youth leadership, education for health and the prevention of drugs abuse.

Since its inception, the A. Ofri Center has trained thousands of professionals from countries throughout the world. The Center cooperates with senior staff in the Israeli Ministry of Education, academic experts, governmental organizations and non-governmental organizations. In addition, it communicates and cooperates with key international organizations such as UNESCO, OECD, USAID, UNODC, OAS, IOM and the World Bank.



The Ofri International Training Center

מרכז הדרכה בינלאומי ע"ש א. עפרי



In adopting the UN's Millennium Development Goals, the A. Ofri Center contributes to the sustainable development of human resources internationally, based on knowledge and experience accumulated in Israel.

Yudith Rosenthal

Director of the Center

*"Education leads to empowerment - the surest guarantee of sustainable grow"*