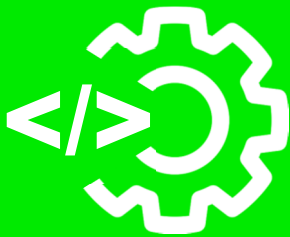


1st Lebanon Raspberry Pi Competition for Schools 2015 - 2016

“Code the Raspberry Pi to Invent for the Benefit of Lebanon”

Coding-Making



The Raspberry Pi competition is an amazing opportunity to learn coding-making. Students identify a challenge and design a product that would benefit their country. Then, they construct it using “things around them” and program it with any open source software.

Teacher Training & Continuous Support



For teachers too, IEA intends to make it a great experience to acquire the skills not just to guide their students to program something but to turn ideas into a real product that they construct using STEAM topics. The teacher training will be provided at no cost.

Prizes

**Study Trip
to the UK
\$1,000
Per Category**

The outstanding team of the competition will win a study trip to technology centres in the UK. The winning team of each category will earn \$1,000.

Goals and targets

Coding making goals

Promote coding and making in schools, universities, and the public at large as a tool to learn better and to improve the PEC3 skills of Lebanese youth: problem solving, entrepreneurial, critical thinking, collaboration and communication skills.

Competition's target

Code the Raspberry Pi for a purpose that benefits Lebanon.

Open source software

Visual Programming



Object oriented programming



Categories of participants

Entrants must be Lebanon-based for the duration of the competition

- Middle schools students, in teams of 3 to 5
- High schools students, in teams of 3 to 5

Each team is guided by a teacher.

Prizes

First prize

\$1,000 (1 per category)

Outstanding Performance prize

A study trip for the participating team to technology centers in the UK

What must the contestant do?

Invent something that utilises the Raspberry Pi to benefit Lebanon
For example, an invention might benefit education, the environment, agriculture, health, enable the delivery of better care for others, make things of everyday simpler, make information more readily available, or make information more secure.

Are there resources and budget limitations?

Minimal cost

The total expenditure on a project submitted to the competition should not exceed \$150. A limited amount of additional hardware can be used over and above this amount including a display unit, keyboard, mouse, SD card, and internet connectivity.

Open source

Any software module contestants use must be available as source code (and under an open source license)

Board-centric

More than half of the processing should be on the board

How do participants enter the competition?

Register between November 7th and 31st by completing an online statement of interest form on IEA's website, which can be accessed through Facebook, Twitter, and Instagram.

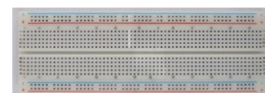
Starter Kit Items

Typical items that can be used in the competition

Raspberry Pi 2



Breadboard



Jumper wires



LED Lamps



Ultrasonic sensor



Humidity sensor



Micro servo motor



Teacher Training and Continuous Support

Teacher training

The hands-on training workshops will be held in Beirut for participating teachers. The process follows IEA's Learn-as-you-work methodology, which provides step by step guidance and ongoing support.

Regional Follow up and Support

Support from IEA will be provided in regional locations (North, South, Bekaa, Mount Lebanon, and Beirut)

WebEx Sessions

Live online follow up sessions will be carried out to ensure group support. Gracefully provided by Cisco Lebanon

Coding Expert Support Forum

A coding support forum will be available that will put participants in direct contact with experts from Cambridge Coding Academy, UK.

Learn-as-you-work



About the UK Lebanon Tech Hub

The UK-Lebanon Tech Hub is an International initiative jointly kick-started by Banque Du Liban and the UK Government through the British Embassy in Beirut. The initiative is privately ran and managed by UK-based PA Consulting. The UK Lebanon Tech Hub is a two-year programme comprising of several activities to support the entrepreneurship and Small-Medium Enterprises landscape in Lebanon with a view to increase GDP and create jobs in the country.
uklehub.com

About the International Education Association, IEA

IEA is a Lebanese non-profit organisation established in 2003 under the number 42/A.D.

IEA's vision is to engage educators and youth in quality, creative, and collaborative learning making use of digital technologies through real-life projects that contribute to a more humane and equitable world.

IEA's mission is to enhance the learning and teaching process through the effective use of digital technologies so that educators and youth acquire the skills necessary to excel in a globally competitive world; for youth, creativity, entrepreneurial, and technological skills; for educators, transformative, active and inclusive education.

iea.org.lb

Supporting Universities

Lebanese universities are outstandingly supportive to the competition. They facilitate the engagement of their undergraduate computer students as volunteers in training and support, as well as logistical support where applicable.

American University of Beirut
University of Balamand
Rafic Hariri University

Contact with other universities
regarding their participation
is ongoing