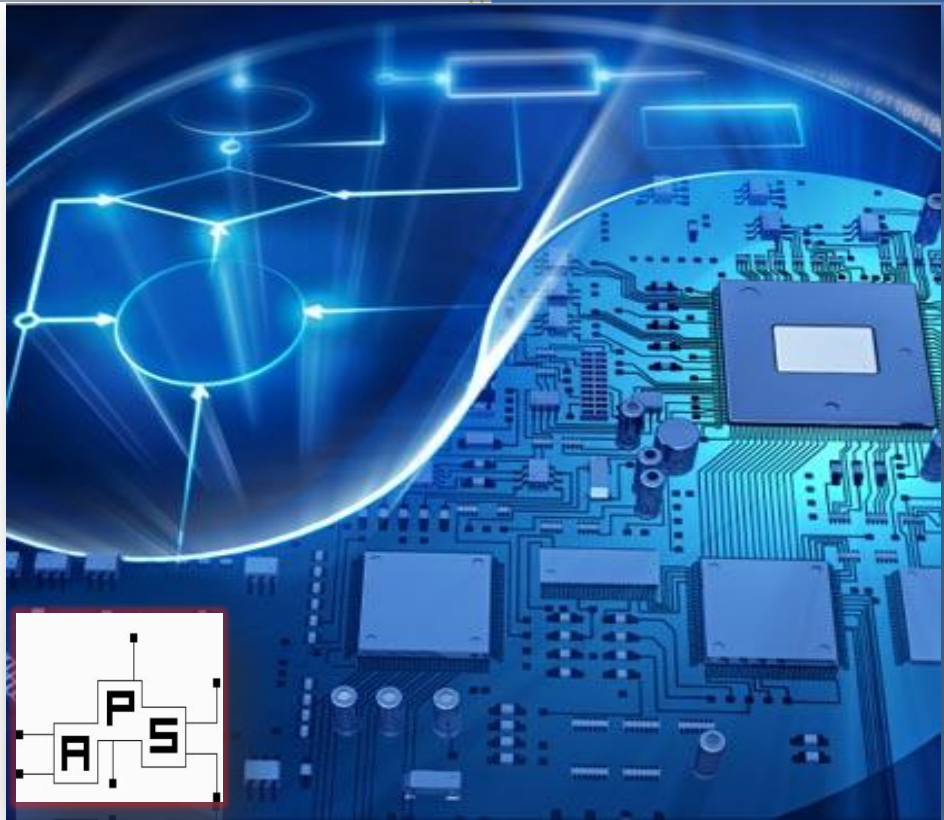


2011-2012

ALEXploratorium Projects Support (APS)



APS 2011-2012

Objective

The Bibliotheca Alexandrina has established the Planetarium Science Center (PSC) to help in building the Egyptian knowledge society through encouraging young researchers and innovators.

The ALEXploratorium Project Support (APS) program was initiated by the PSC to encourage young engineers to put their ideas into feasible applications . It is designed to support undergraduate students in the faculties of engineering, both technically and financially, to advance and upgrade their projects through offering them technical and financial support.

Registration Process

APS competition is open to all faculty of engineering students starting in the second to the fourth academic year. The competition is held every year under a different theme or field that is declared by the APS Board. It could also cover different fields or be specified in one specified project or more. The APS board will announce the competition field or fields two months prior to registration starting date.

Depending on the nature of the competition projects request, competitors will form teams either from one or several engineering departments. Registered teams will all compete in the projects' designing phase. The winning teams will have to carry on through the projects' implementation phase. Projects' execution will be in collaboration with the PSC team and in line with the Center's timeline.

Registration procedures, guidelines and competition schedule are posted on:
<http://www.bibalex.org/en/PSC/GetInvolved/ALEXploratorimProjectSupport.aspx>

Evaluation Process

The evaluation will be conducted in two phases:

- Phase I:
 - The teams are selected through the registration form depending on their answers to the questions and the **project information section**.
 - Your CVs are to be attached to this form for evaluation.
- Phase II:
 - The accepted teams prepare a full proposal which includes detailed design and budget analysis.

- The accepted teams are called for an interview and each team is interviewed separately.
- Interviews are obligatory.
- Each team is to prepare a slide show presentation that includes the following:
 1. Project description and flow chart;
 2. Full technical design;
 3. Needed components and expected end product;
 4. Analysis of the estimated budget;
 5. Timeline of the project;
 6. The added value of the project;
 7. Your team and teamwork (*How will you divide the work or the different tasks?*)

The winners will be announced by APS Board to start the implementation process.

- Competition Finals:
 - The winners will proceed with the implementation of their project as a small model.
 - The APS Board will judge between the teams and their projects.
 - The date of the finals will be announced by the APS Board on the APS website.
 - The Prizes may be awarded to the best design, best performance or best project implementation.
 - APS will fund the 1st place winner to implement their project.
 - An exhibition will be held at the Bibliotheca Alexandrina for all the teams to introduce their achievements.
 - Second and third-place winners will receive awards from the APS Board.

APS 2011-2012 Themes

The competition theme for APS 2011-2012 tournament is **The Art of Technology**.

The topics of this theme are:

1. **Welcoming Robot:** You can call it “Your Tour Guide” so the robot will welcome the visitor and help them navigate a specific area.
2. **Dancing Fountain:** This project is about applying full control on the flow of water to simulate an applied motion, like dancing, on an event. The control system has to be adaptable to simulate any applied motion.

- 3. Home Automation & Green Energy:** This project is about how to use green energy for operating your home and how to apply an automation to it. The team will select the source of energy used.

Each team has to register for one of these topics and the proposals presented by each team have to follow the description of the selected topic.

APS Exhibition

- The Exhibition will be at the Bibliotheca Alexandrina Conference Center (BACC). The Exhibition will include: Projects Village, Lectures and Sponsors Area.
- Sponsors Area will be at the entrance of the Exhibition.
- Lectures will be open to the public and will be presented by speakers from different companies. The lectures' topics are in both technical and soft skills.
- Teams will register for the Exhibition after it is announced for, and will define their requirements.
- Exhibition Registration Form will be posted on the APS website two months before the event.

The Competition Timeline

Proposals will not be funded without the approval of the **APS Board**. Approval of full proposals, including funding arrangements, are announced according to the following table.

The APS Competition Timeline is as follows:

Process	Timeline
Registration	From 30 December 2011 to 29 February 2012 at 12 noon
Announcement of the 1st Phase Accepted Teams	8 March 2012
Submission of Full Proposal	From 8 March 2012 to 1 April 2012
2nd Phase Filtration	1 April to 15 April 2012
Announcement of the 2nd Phase Accepted Team (s)	16 April 2012
Implementation of the Projects with the winners	16 April to 20 August 2012
Final Products Deadline & APS Exhibition	During September 2012

For more information:

Website:

<http://www.bibalex.org/en/PSC/GetInvolved/ALEXploratorimProjectSupport.aspx>

Email: APS@bibalex.org

Telephone: + 203 4839999 Ext: 1733

Facebook group: ALEXploratorium Projects Support (APS)