

GENERAL DESCRIPTION

Title of Scenario **Android software products for the virtual enterprises**

Type of school and school system		Middle School of General Education					
Class	II	Age of the students	11-15	Total Duration	1 year	Number of hours	2/week
Short Description		Learn the basic concepts of programming in android environment & create android products for the enterprises.					
Outputs		Android software products for virtual enterprises and the school community.					
Stakeholders involved		School community. Users of Google store					
Environment		Produced products according to the student needs. Focuses on using modern devices for learning – playing.					
Objectives		Learn the basic concepts of object oriented programming and use them for implementing android products.					
Key words		Android products, object oriented programming					

Phases	III
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DETAILED DESCRIPTION IMPLEMENTATION SCENARIO

For designing the Alternating Training Plan, you can describe each phase of scenario filling the following template.

Phase N	III		
Short description	Learn the basic concepts of programming in android environment & create android products for the enterprises.		
Phase Duration	1 YEAR	Number of hours	2/Week

For each phase, more modules can be scheduled

Module	Android software products for the virtual enterprises and the community
Duration	1 year
Learning outcomes	a) to learn the basic concepts of programming in android environment. b) to creatively use the above concepts so as to create, android products for the enterprises.
Knowledges	<ul style="list-style-type: none"> > What is a software house. > What is “google store” and “play store”. > What is like an android programming environment. <p>The expected abilities for the students are summarized as follows:</p> <ul style="list-style-type: none"> > To understand the important role of software houses in modern society. > To implement android software products for mobile use. > To make their android products available to the end user (upload the android

	<p>products to the appropriate web structures with the right form .apk – executable form of their product).</p> <p>To distinguish between different forms of the android programs (aia source code files, .apk executable files).</p>
Technical skills	<p>➤ To learn how to make an android software product.</p> <p>To be able to upload their android product to the appropriate web structures with the appropriate program form.</p>
Soft Skills	<p>➤ Teamwork.</p> <p>➤ Ability to make decisions.</p> <p>Ability to apply theoretical knowledge to real situations and problems.</p>
Prerequisites	<p>➤ How to connect their mobile phones with the MIT platform environment.</p> <p>How to convert their android program to the right .apk form.</p>

For each module, more activities can be scheduled

Activity	Android software products for virtual enterprises and the school community.
Duration	The program will be implemented as an after school course. The duration of the program will be for one year and the course duration will be two hours per week.
Place	School (computer laboratory)
Stakeholders involvement	<p>Students will:</p> <p>➤ Produce android products for the enterprises.</p> <p>➤ Produce android products for the school community.</p> <p>Upload their products to google store or play store so as to make their products worldwide available.</p> <p>Students will act as professional programmers and use the MIT App Inventor Forum for technical consulting when needed.</p>
Outputs	Android software products
Methodologies	<p>Laboratory (operating method).</p> <p>Experimental research (investigative method).</p> <p>Cooperative learning.</p> <p>Scenario building.</p>
Inspiring practices	Real world software houses and programmers of android products, Online learning through M.I.T Appinventor Website.
Tools/technologies/materials	<p>Software tools:</p> <p>MIT android software (APPINVENTOR).</p>
Sources	<p>http://appinventor.mit.edu/</p> <p>http://appinventor.mit.edu/explore/ai2/tutorials.html</p> <p>http://www.apkmirror.com/apk/google-inc/google-play-store/</p> <p>https://www.androidpit.com/how-to-install-the-play-store</p>