



Benha University
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Asuggested programe In Technological Education For Developing
Technological Awareness And Some Skills Of Dealing With Modern
Technology Applications For Secondary Stage Students

A research Proposal

For the Ph.D Degree in Education Education Technology

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Summary

***the Aims of the study :**

The current study to build a technology education program to increase technological awareness and some skills to deal with modern technological application .

- in order to investigate this aim , the study will try to answer the following questions :

- 1- preparing a test in the cognitive sides of the dealing with modern technological application skills for high school students .
- 2- preparing a list of the most important skills of dealing with modern technological applications skills for high school students should increase .
- 3- preparing a list of the most important modern technological applications that high school students should deal with .
- 4- preparing a criteria to measure the extent of high school students technological awareness .
- 5- sitting a technology education program to increase technological awareness and some skills to deal with new technological application .

- **The procedure of the study:**

out of the questions and the aims of this study , it's proceded as follows :

first: identifying a list of the most important technological applications high school students should deal with in and out school through :

- 1- reviewing the pre- studies and researches and it's last reached results connected to the study subject .
- 2- reviewing the scientific books and magazines connected to the study subject .

- 3- consulting options of the specialists and experts in this field .
- 4- studying high school students characteristics .
- 5- bringing the list before a group of experts and judges and making the suitable modification .
- 6- putting the list in it's final form .

second : identifying a list of the most important high school students skills to deal with new technological applications should be increased through :

- 1- reviewing the pre- studies and researches and it's last reached results connected to the study subject .
- 2- reviewing the scientific books and magazines connected to the study subject .
- 3- consulting options of the specialists and experts in this field .
- 4- reviewing the special catalogs connected to the study subject .
- 5- bringing the list before a group of experts and judges and making the suitable modification .
- 6- putting the list in it's final form .

third : producing the suggested program in technological education through :

- 1- studying the literatures dealt with technology education, technological awareness and the skills dealing with technological applications especially for high school students.
- 2- Modern attitudes in forming technology education programs for high school stage..
- 3- In the light of what has been reached to in the first and the second steps in the study.
- 4- Identifying the basics of forming the suggested program.

5- In the light of the previouses, the suggested program will be formed as follow:

- a- the program general aims.
- b- The program general content and organization.
- c- The education activities and the suitable learning sources.
- d- The suitable evaluation ways to evaluate these students' learning.

6- bringing the suggested course before a group of judges and experts to make the suitable modifications.

7- Putting the suggested program in it's final form.

Fourth\fifth: identifying the effectiveness of this suggested program in increasing the technological awareness and some skills of dealing with modern technological applications for high school students through :

- 1. choosing the study group.
- 2. preparing the study instruments presented in :
- 3. preparing a technological awareness criterion.
- 4. preparing a test in the skills of cognitive side.

c- preparing a notice card for the skills of dealing with modern technological applications .

3- adjusting the study instruments by measuring it,s sincere and steadiness.

4-putting the study instruments in its final form.

5-applying the study instruments previously on the study group.

6-applying the suggested program on the study group.

7-applying the study instruments after words on the study group.

8- observing the reached results and processing it statistically .

9- analysis the results .

10-presenting the suggestion and the recommendation .

- **summery to the most important study results:**

the most important study results were summaries a follow :

- 1- there are some statistic differences at $0.01 \geq \alpha$ level between the students the study sample marks average in the skills cognitive side in the previous and after application for the good of after application .
- 2- there are some statistic differences at $0.01 \geq \alpha$ level between the students the study sample marks average in the skills of dealing with modern technological applications in the previous and after application for the good of after application .
- 3- there are some statistic differences at $0.01 \geq \alpha$ level between the students the study sample marks average in the technological awareness in the previous and after application for the good of after application .

- **the study recommendations :**

based on the study results , the study recommendations:

- 1- the necessity of implicating independed high school students technological education curriculum in technology education field , communication and information technology enable them to connect with the educational environment and the business market.
- 2- the necessity of providing highly qualified teachers to teach this curriculum and let's preferred to be presented by a technology education specialist in high schools .
- 3- assuring the aims and the diminutions technology education by it's implication in the high school different study courses .

4- assuring on development of technological awareness and skills of dealing with modern technological applications in the high school students .

5- the necessity of providing high schools with the different technological inventions with training the high schools students to use these inventions with awareness .

• **the study suggestion :**

the study suggests :

- 1- providing a similar studies to increase technological awareness and skills of dealing with modern technological applications for kindergarten stage .
- 2- providing a similar studies for the deaf and hand- hearing elementary stage students .
- 3- providing a similar study about illiteracy and adult learning connected with home technological equipments and computers .
- 4- providing a study indicates the effect of technological awareness on the development of technological skills for prep stage .
- 5- study the effect of experimental processing on the way of solving technological problems and inventive thinking the elementary stage students .