برنامح جاحسبي مقتريح
لترجمة اللغة المنطوقة والمكتوبة إلى لغة الإشارة العربية الوحدية للصم

Computer Program
For Translating Spoken and Written language into the unified Arab Sign language For the deaf

Dr. Ahmed Nabawy Esa *
Mr. Hamza Zaakria Abdullah**

أ. حمزة زكريا عبد الله**
أ. أمحمد نبأوي عيسى***

Abstract
The study aimed at preparation and designing software to translate spoken and written language to sign language of the Arab unified for the Deaf using the methods of modern programming. The study followed the semi-empirical extrapolation of the contents of many of the literature dealing with technology and support for the deaf and software in the field of deaf education.

The development of communication using sign language.

The role of software to facilitate and meet the requirements of deaf institutions of the community (government departments, hospitals - airlines - the courts - the schools) was deaf with.

A questionnaire has also been prepared to identify views on the technical and programmatic, educational, and methodological efficiency. The program has been applied to (50) individuals, directors of institutes for the deaf and mainstream schools - administrators and teachers of students of deaf and (50) members of the Deaf high school and (50) members of the parents of deaf students and some staff with government departments in Saudi Arabia. The results of the study for preparation and designing innovative and unique software showed that the response of members for the study of the educational, artistic and

(*) Department of special Education Faculty of Education - king Abdulaziz university.
(++) Department of Education Technology Faculty of Education - king Abdulaziz university.


د. أحمد نبأوي عيسى
أ. حمزة زكريا عبد الله
programmatic and methodological efficiency of the program, ranged between often and sometimes. The percentage of artistic and programmatic efficiency ranged between 91% and 93% methodological efficiency of the program ranged between 90% and 91% and the percentage of educational efficiency of the program software achieved to meet the needs of deaf ranged between 80% and 88%. The study activates the role of the software in independent communication of the deaf and to promote literacy, and expand the opportunities for success in education.