A program to teach some skills of knitting techniques employed in the implementation of Bed Linen using the Web

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Abstract: The educational process has become in the modern technical era depends strongly on the modern sophisticated tools (Sylvia, 1996) and in light of modern-day techniques. As the knitting techniques taught by traditional methods depends upon other study programs (children clothes, home, foreign... etc) in the quality of finishing and termination products. It comes as a result of the problem that many of the students move from one stage of education pre-university to university education department Home Economics coordination without their desire (Zeinab Shehata, 2008) and do not have any idea about cutting and sewing techniques and feel the difficulty of what they learn of the skills of traditional methods such as the use of some simple exercises such as making straight line - curves - angles, technique pagan tail in different sizes 1/2 * 1.1, 2,3,4,5... etc., to expand the use of stitch length (Nagda Mady 2005) to work Ruffles technology and technical work of the fragments in different sizes 1 / 2,1,3,2,5..ak (Ibrahim Saber, 2004). And too much time and effort spent by traditional methods for first year (the first semester), Department of Home Economics, Faculty of Education in Ismailia, Suez Canal University. So we should think about their education in interesting and exciting way by using multimedia, which are designed specifically to give students needed to learn some knitting Statistics and detail techniques, which means Sound skills and fixed image and image animation and effective text and sound effects and cut video integration of all these media appeared in one context regulator on the computer screen in order to allow interaction between the learner and the subject of learning (Atef El Sayed, 2000) to serve a certain position tutorial makes them willing to learn and continue to achieve educational goals that have been formulated in advance (Al-Shahat Saad, 2008) and the application of their learning about knitting techniques and skills of the web in the implementation of family furnishings. And it has been chosen point of the search. **The research aims to:** The design of modern educational and interesting way complementary to traditional education for the development of teaching methods in the field of knitting techniques based on the use of multimedia software to the web to give the students the knowledge and skills of cutting and sewing techniques. Search sample: 15 students studying traditional Web program both ways and the Faculty of Education in Ismailia. Questionnaire was developed to measure the technical, educational efficiency of the site and its impact on the education of students, and the percentage of the agreement arbitrators amounted to 92.9%. This percentage is high and it is a significant indicator of the degree of efficiency of the location of the educational, technical and methodological aspects. The work of validity and reliability used Cronbach's alpha coefficient and retail midterm grades for each of the test and the skill and the Pearson correlation coefficients and test (A nova, T-test to analyze the results). One of the most important results: The effectiveness of the proposed site in the educational learning some details and knitting techniques. There are statistically significant differences at the 0.05 level between the average ratings of the arbitrators products in the axes of the questionnaire in the marketing followed by functionally followed aesthetically. The total average rating of arbitrators for the product as a whole axes 88.1%. This high ratio indicates that the program has helped students by using the Web to produce products using some of the detail and knitting techniques can be marketed because they are characterized by a high proportion of functional and aesthetic point of view.
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Keywords: Web, skill, knitting techniques, furnishings bed.

1-Introduction:

Weave techniques: The ways and techniques to collect raw materials by thread by hand or machine knitting techniques.

Some skills by knitting techniques used in the search:

Skill: is the ease and accuracy in conducting the work of the business as a result of the learning process.

Ruffles: is a work lines the machine using the longest stitch after adjusting tighten the thread and the experience of stitch on one of the cloth or two layers layer depending on the use, where is the work of two rows of stitches, one inside the sewing distance and the second away from him by 6 ml **(Jeanne Argent 1999**. tm pull the thread Shuttle the two lines together to form ruffles. Shaeffer, Clarire B2000).

Cornices: A cloth strip of different width, enlighten the upper fabric or in the direction of Angle can be folded in the form of crumbs using ruffles and are fitted to the bottom edge, leaving free from the bottom to give a sense of Undulation. **(Inas Mahmoud Khalaf 2002)**

Pagan Tail: is a cleaning and tailoring the machine to be inside the other pagan idolatry.

Things to consider when choosing and implementation of bed furnishings:

1. When choosing colors for bed linen furnishings, whether from plain - Carved and Karoh fabrics... etc.

These colors should be consistent with the specifications of furniture (curtains colors and furnishings of the ground) and paint of the walls. **(Tamer El Sayed, 2011)**

2. When choosing a tape and gallons and embroidery yarns or the use of two colors of fabrics to the work of the cost of linens dyes dithering even to take into account the washing, ironing and friction. **(Myra Davidson, 1993).**

3. It must be characterized by flexibility bedding and soft texture, which gives a sense of comfort.

4. It must be prolapsed at a high degree. This is done using the quality of high-quality raw materials such as cotton or cotton blended severity of some synthetic fibers to get a good feel and appearance. **(Ansaf Nasr, Kausar Zoghbi 2000)**

5. To resist wrinkling and fabrics should be used with final processing of excellent linen cloth, which will be given an appropriate look. (David D. Murphy, 2000).

6. Consistency and stability and not be the easy sliding over the bed of a property is not desirable in bed**. (Ghada Bandari, 2013)**

Furniture importance of the bed:

1. Give a beautiful shape using different types and colors of linen fabrics.

2. Maintain the furniture from dust and dirt for frequent use. (Saadia Haddad, 2005)

***First: How to take measurements for the implementation of the bed kit:**

For the implementation of the bed kit we must first determine the number of meters required by his display bed, while the length of the bed is usually fixed 2 meters (with the exception of the bed is of particular specifications). So we must follow these steps to estimate the number of meters to implement cutting kit.

Bed sheet:

(A) The length of solvency:

1. Take your size bed length + Increases ranked +25 cm each form (1).

Hand. (This increase placed at the place).

2. The distance from point 1 to point (2) is equal to the length of the bed.

3. The distance from the point (2) to the point (3) equal to display rank or number (2) Sort by personal use.

4. The distance from the point (3) to point (4) a distance of 25 cm (high rank) and this distance of pagan ranked bottom on both sides. (Emad Darwish, 2005).

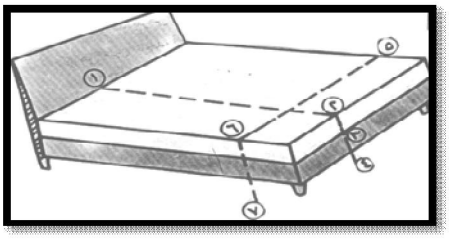

Figure (1)

(B) Display the solvency of the bed:

1. Take your distance to view the bed of the point (5) to the point (6).

Add the same increases that have been added to the length of solvency (the pagan bottom ranked) and this way to take the size of any length solvency different display. And Figure 1 shows the sketch to estimate the solvency of bed space.

Bag long pillow:

(A) Length of the bag:

Take your size display bed of point (5) to the point (6), then add the amount of 6 cm to 10 cm to work Fold party bag. (If the cloth used Canar of cloth or bag decorated Canar of different color, add the amount of 2 cm only the amount of sewing).

(B) Width of the bag:

We measure the pillow width, and then add to the ease of installation of the bag and the amount of sewing required viewing the amount of 5 cm.

Pillow bag:

A. pillow bag length equal to half the width of the bed or less by the desire = half the width of the bed + the amount of sewing.

(B) Pillow bag width equals the width of the original pillow plus the amount of sewing 5 cm for easy installation pillow bag.

Second: how to estimate the amount of cloth needed to implement the cut bed linen:

Table (1) summarizes the estimate of the number of meters required to implement the cut bed linen according to the various presentations of the fabric in centimeters for different bed sizes.

Table (1) shows the bed linen sizes according to various deals and distances sewing necessary

With of fabric/cm	Size of bed		sheet			Long pad			Rectangles pad		
	length	width	N	length	width	N	length	width	N	length	width
180	200	100	1	275	180	1	110	85	1	65	85
200	200	120	1	275	200	1	130	85	1	65	85
220	200	140	1	275	220	1	150	85	2	150	85
240	200	150	1	275	240	1	160	85	2	160	90
240	200	160	1	275	240	1	170	85	2	170	90

2- Material and Methods

Find goal: the design of modern educational and interesting way complementary to traditional education for the development of teaching methods in the field of knitting techniques based on the use of multimedia software to the web to give the students the knowledge and skills of cutting and sewing techniques.

The research sample: The number of 15 students studying in two ways using traditional and Web in Faculty of Education in Ismailia.

Hypotheses: Assumptions

1. There are significant differences between the average test scores grades pre and post.
2. There are significant differences between the average test scores skill pre and post.
3. What is the effectiveness of the program by using the Web?

The various stages of preparation of the program and the educational website address:

The program preparation process and location-mail several comprehensive educational stages passed and included a number of actions arranged logically (Sharif Abdel Gawad, Hatem Rifai 2006). These stages are:

1. Preparation of the site educational stage:

• Identification of the target group for the site:

The first year female in the Department of Home Economics - Faculty of Education in Ismailia - Suez Canal University, where the students are familiar with using the computer and the operating system Windows7 and therefore use a browser web pages "Internet Explorer" and skill to deal with the computer and use the keyboard and mouse to deal with Web pages.

• Identify the subject of the educational website:

It was chosen for the subject (some detail the skills and techniques of knitting) for the implementation of products (bed kits) aesthetic and utilitarian value.

• Identify potential required for the site:

The researcher used the tools and devices that allow them to complete the work, namely:

1. A computer with the following specifications:

Intel Core i3 (2.2GHz, 3MB L3 cache) - Intel HD Graphics 3000, Up to 1328 MB Dynamic Video Memory-14.0 HD LCD- 3GB DDR3 Memory- 500GB HDD - DVD- Super Multi DL drive.

2. The device scanner to work image files.
3. Camera Photography.
4. Materials and tools needed for cutting and sewing techniques.

Logically, the objectives to be achieved were the use of a range of programs to build a program: Microsoft Power Point- to assemble multimedia and implementation of interfaces and make them in the context of one of the students can be controlled during learning - Adobe Photoshop 10 to address the still images. Free Video Cutter- and the work of editing operations and chipping of the video footage contained in the program Format Factory- and convert between formats footage different video even suitable for running through a program -Microsoft Power Point - is used to write and add the content of the script Microsoft Word 2003.

2. Design stage:

At which point the work of the entire perception of the form of the program and the site educational-mail what should be contained in the objectives and material and scientific activities have been where (Eman Abdul Salam, 2012) carried out by the students of the first year, department of economy Home, Here are the steps to complete the design and setup process:

• Identify and formulate the objectives of the proposed educational site:

The identification and formulation of general objectives of the proposed site and the drafting of a set of procedural behavioral objectives was able to note the behavior of the learner.

• Identify the overall objectives of the proposed site are as follows: The formulation of the overall objectives of the program was as follows:

• gaining basic information for some knitting and detail techniques.

• mastered the skills of learning some of the detail contained in the program techniques.

• are able to employ the use of simple techniques in the implementation of products solvency crews bed.

Procedural objectives of the program:

Cognitive objectives: At the end of the program the student will be able to be:

1. Describe necessary to judge the quality stitch empowerment indicators.
2. Remember the success of the steps and mastering some simple knitting techniques.

3. Multiple types of raw materials (fabrics) used in bed sheets.

Psychomotor objectives: At the end of the program the student should be able to:

1. Differentiate between stitch empowerment seized and complex one.
2. Distinguish between types Format pagan tail in terms of practical purposes.
3. Processed supplements necessary for the implementation of the product.

• Identify scientific material content of the site and organization:

It was selected some knitting techniques as scientific material because of its importance in terms of stating the students knowledge and skills that will benefit the development process in the development of quality parts fitting clothing skills.

(D) Executive design for the production of components of the program (scenario):

- The preparation of the executive design (scenario) with clarification and organizing places texts by each frame (screen).
- Review places and addresses all the buttons on the unit (primary and secondary).
- Follow-up scenario in terms of steps branching and writing stages throughout the user during use of the site.

Assembly (scenario):

- Installation of all the elements with each other through the design of screens to merge still images, audio and video during the design program Front page 2003.
- The implementation of the design and the development of the background screens and audio then arrange the site through hyperlinks for determining the course of interaction links for each list, and then adjust the lists with each other.

E –choose operating system of the program:

The program is depended on the free movement between the components of the program where the student can move forward or go back or go to any point in the program, according to the desire of the student. (Mona Ezzat, 2013).

The implementation phase: this phase include the following:

1. An elementary scheme of the website design tutorial at the beginning of work to clarify how it will build the website and must be contained by the pages, and the components of each page.
2. Location depends on the individual learning strategies, where the student can enter the site, and begin to interact with the contents of the site in order to acquire knowledge and skills according to their level and their own capacity, and the time that suits them even reach the level of perfection.
3. Multimedia Design: This was done by carrying out the production of photographs, videos, audio and employment within the site.
4. Page format so that the primary content fully apparent.
5. Use the language of "HTML", the language of "hypertext thread", which is used to create Web pages "WWW" They contain a set of commands lead to the formation of web pages such as:

- Select the text size and presentation.
- The establishment of links with documents and other documents.
- Creation of interactive models on the page.
- Provide support for multimedia such as video, audio and image.

• Publish Location: was a suitable choice for the title of the site http://khulio55.wix.com/sewingtechniques and storage space for web hosting. It was an educational tablet contains the program preparation.

Calendar stage:

Arbitration Web site to learn cutting and sewing techniques:

Questionnaire was developed to measure the technical, educational efficiency of the site and its impact on the education of students, the questionnaire was contained on three main axes of three levels of appreciation (3, 2, and 1), namely:

The first axis, which support the use of the site for students (6 phrases), and Axis second technical integration of the site (6 phrases), the third methodology efficiency and axis (2 phrases). It was evaluating the offer on-site specialists professors to find out their opinions about the site.

Is evident from Table (2) the agreement of the arbitrators' ratio stood at 92.9%. This percentage is Considered high and it is a significant indicator of the degree of efficiency of the location of the educational, technical and methodological aspects.

Validity and reliability of the test grades:

It has been confirmed validity and reliability of the search using Cronbach's alpha and retail midterm test grades and skill labs tools.

(A) It has been on the achievement test specialists professors display to make sure the ease and clarity of statements and a link to the test objectives test questions were unanimous arbitrators on the achievement test for application with the power to make some amendment proposals were based on the proposals.

Table (2) shows the proportions of arbitrator's agreement about the proposed educational site

Judge	Educational support for website	Efficiency Technical	Efficiency Methodology	Score	Percentage
1	17	15	6	38	90.5
2	18	15	4	37	88.1
3	18	17	6	41	97.6
4	18	16	6	39	92.9
5	17	16	5	40	95.2
total					92.9%

Table (3) cognitive achievement test stability

Cognitive test	Cronbach's Alpha	Split-half
	0.837	0.885-0.794

(B) Stability using retail midterm:

It is seen from the table (3) that the value of the alpha coefficient of 0.837, reached retail midterm method of 0.885-0.794. This is evidence of the achievement test stability.

Validity and reliability performance skills:

A. honesty using internal consistency:

Table (4) Pearson correlation coefficients values

No	Skillful performance	Correlation
1	Technique of choosing suitable textile for solvency.	0.946**
2	Technique of adjust textile cut	0.851**
3	Enabling Technology of Stitch in a straight line isn't curvy.	0.901**
4	Tuck away in all their parts.	0.714*
5	Meeting b place to enable Confluence involved in the triangle are closed.	0.703*
6	Form crumbs or regular Ruffles.	0.723*
7	Overall shape of the kit full bed.	0.936**
8	Overall shape of solvency.	0.929**
9	General shape of Pillowcase.	0.843**
10	Overall shape of the pillow bag.	0.929**

*** Level of significance at (0.05). ** Level of significance when (0.01).**

Shown in Table No. (4) That the correlation coefficients are all a function which shows the homogeneity of questionnaire axes and honesty among all grades phrases and total.

(B) Persistence:

Stability has been calculated by Cronbach's alpha coefficient, and the way retail midterm.

Table (5) shows the stability (axes) Cronbach's alpha coefficient, retail midterm

Axes	Cronbach's Alpha	Split-half
	0.841	0.816-0.902

Seen from the table (5) that the value of Cronbach's alpha coefficient of Cronbach's Alpha was 0.841 degree. And reached retail Alnsfih 0.816-0.902. This shows the high degree of stability of the questionnaire.

Validity and reliability of the product evaluation form:

A. Honesty:

Table (6) shows the correlation coefficients between the axes of product evaluation form values

Axes	Association
the functional side	0.712*
the artistic side	0.966**
marketing side	0.743*

(B) Persistence:

It is shown in Table No. (6) The relevance of each axis of axes in total products.

Table (7) shows the stability of the axes of product evaluation

Axes	Cronbach's Alpha	Split-half
the functional side	0.744	0.791-0.707
the artistic side	0.924	0.960- 0.883
marketing side	0.856	0.902-0.816

It is seen from the table (7) that the value of Cronbach's alpha coefficient and the split half for product evaluation indicates a high degree of stability of the questionnaire.

3. Results and Discussion:

First: Test cognitive achievement:

First hypothesis: it states that no statistically significant differences between the average test scores grades pre and post in favor of the post test and verify this test was applied (T-TEST The table below illustrates this).

Table (8) shows the significance of differences between the average test scores grades pre and post

Test	**Groups**	N	**Mean**	Std. Deviation	T	df	Sig	**Wilcoxon W**	Sig	**Blank's Percentage**
Achievement	Pre	15	1.67	1.050	290.078	14	0.000	3.439	0. 000	1.628
	Post	15	9.07	0.704						

Seen from the table (8) that the value of (t) calculated = 29.078, a statistically significant value at the abstract level 0.01 for post-test and where the average tribal group = 1.67, which is less than the average grades Group dimensional = 9.07000 and the confirmation was used Wilcoxon W test statistics of Barometry was value of 3.439, meaning that there is a fundamental difference between the averages of the two groups. Thus, the first hypothesis is achieved.

It was in part the expense of efficiency grades using Planck's constant and the degree was 1.628, namely, (larger than the right one) and therefore it can be said that the proposed program is characterized by an acceptable degree of effectiveness. This demonstrates the effectiveness of the program.

Second: Test skill:

Hypothesis II: states that no statistically significant differences between the average test scores skill pre and post for post-test to verify that the test was applied (T-TEST, The table below illustrates this).

Table (9) shows significant differences between the mean scores of the skill test pre and post

Test	**Groups**	N	Mean	Std. Deviation	T	df	Sig	Wilcoxon W	Sig	**Blank's Percentage**
The skill	Pre	15	8.2000	1.01419	40.330	14	0.000	3.462	0. 01	1.590
	Post	15	18.0000	0.75593						

Seen from the table (9) that the value of (t) calculated = 40.330, a statistically significant value when a significant level 0.01, and where the average score tribal group = 8.2000, which is less than the average grades Group dimensional = 18,000 and for the confirmation was used Wilcoxon W test statistics Allabarmitry The value of 3.462, meaning that there is a fundamental difference between the averages of the two groups, suggesting students take advantage of the proposed educational site. Thus, the second hypothesis is achieved.

It was effective in calculating the skill side using Planck's constant was 1,590, a degree (greater than the right one) and therefore it can be said that the proposed program is characterized by an acceptable degree of effectiveness. This demonstrates the effectiveness of the program.

Third, scale appreciation in the performance skills of the products (bed kits):

Table (10) shows the rating scale in the performance skills of the products (bed kits)

م	**The performance skills**	**Total**	**%**	**Rat**
1	Technique of choosing suitable textile for solvency.	383	85.1	5
2	Technique of adjust textile cut	387	86	4
3	Enabling Technology of Stitch in a straight line isn't curvy.	387	86	4
4	Tuck away in all their parts.	387	86	4
5	Meeting b place to enable Confluence involved in the triangle are closed.	384	85.3	5
6	Form crumbs or regular Ruffles.	392	87.1	3
7	Overall shape of the kit full bed.	410	91.1	1
8	Overall shape of solvency.	405	90	2
9	General shape of Pillowcase.	387	86	4
10	Overall shape of the pillow bag.	387	86	4
		3909	86.86	

The proportion of achieving performance skills as a whole represent 86.86%

Shown in Table No. (10), which shows the rating scale in the performance skills of the products (bed kits) check that the percentage of the skill side of the students reached 86.86%, which is a high percentage terms came in the first place that the overall shape of the bed kit full 91.1%. Followed in second place overall shape of the solvency of 90% in the third place, followed by the form of crumbs or regular Ruffles 87.1%. Followed by 86% in the fourth ranked technique adjust the cloth cut, Technology Empowerment meeting place to enable Confluence involved in the triangle are closed.

Straight line is curvy; tuck away in all their parts, the general shape of Pillowcase, the general shape of the pillow bag. Followed in fifth and last place technique choose the right fabric for the solvency 85.1% uerga because the cloth of choice needs to experience and practice the descent of the market to see everything new because of the tremendous development in the field of tissue furnishings.

Fourth: the arbitrators to assess the axes of products:

To find out the moral differences of axes products have been the work of ANOVA.

Table (11) illustrates the moral differences ANOVA axes to evaluate the arbitrators in products

Axes		N	Mean	Std. Deviation	F	Sig
1	**the functional side**	10	64.9600	1.57706	3.928	0.032
2	**the artistic side**	10	65.9200	2.57544		
3	**marketing side**	10	67.3600	1.42299		
Total		30	66.0800	2.11308		

It is seen from the table (11) that there were significant differences at (0.05). Where the value of P calculated 3.928.

Table (12) illustrates the arbitrators to assess student's axes products

	Axes and items of products	Sum	Ratio	Items and axis ranks
First axis the functional side	1. The product is suitable for the purpose that prepared for it.	750	89.3	1
	2. Raw yarn or strips of raw materials or additives suitable for pieces executed.	655	87.3	2
	3. Techniques used appropriate to the piece executed.	640	85.3	4
	4. Availability of design elements (line - color- figure) with the purpose.	638	58.1	5
	5. Bear solvency (washing, cleaning and ironing) of the piece executed.	645	86	3
	Ratio of achieving items of functional axis as a whole		86.6	3
Second;- axis the artistic side	1. Product features to quality in the final finishing.	660	88	2
	2. There chromatic harmony between all components of the widget (techniques - threaded - cloth - strips - added ores.... etc.).	656	87.5	3
	3. Knitting techniques used are compatible with fashion developments.	675	90	1
	4. Implementing pieces characterized by individualism and innovation.	653	87.1	5
	5. Product with an upscale aesthetic value.	654	87.2	4
	Ratio of achieving items of artistic axis as a whole		87.9	2
Third:- axis marketing side	1. It has been implemented widget executing lined up.	646	86	5
	2. You may work from a small project sheets.	675	90	2
	3. Statistics and detail knitting techniques used raise the economic value of a piece executed.	697	0.93	3
	4. The cost of implementing Solvency fit with the Egyptian family income.	680	90.7	1
	5. The possibility of marketing the product port in the local market.	670	89.3	4
	Ratio of achieving the marketing axis as a whole		89.8	1

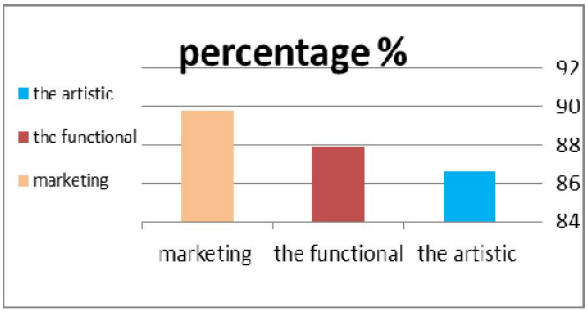

Figure (2) shows the evaluation of the relationship between the axes home furnishings (bed crews)

It is clear from Table (11) which shows the moral differences of the axes of products using ANOVA and table number (12) and Figure 2 which shows the evaluation of the arbitrators axes found that the marketing has been achieved in products increased by 89.8%, while functionally achieved by 87.96% and check aesthetically ratio stood at 86.6%. The total average rating of arbitrators for axes products as a whole 88.1%, which demonstrates the effectiveness of the program by using the Web.

Conclusion:

Students learnt many things that were hired-mail the site of some of the detail and knitting techniques in the work (furniture bed) student to be able to work a small business after graduation.

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