

\*

---

## Abstract

This study dealt with availability and use of Educational Technologies by the teaching staff in Al-Aqsa University. For this purpose a list of Educational technologies needed for academic teaching was prepared as well as a questionnaire applied on a sample of (90) teachers in Al-Aqsa University. The study revealed that most of the Educational technologies are not available or available at a lower degree in the University, and the samples have rare knowledge of how to use updated Educational technologies. There was a correlation between the availability of the Educational technologies and knowing their use.

(90)

---

\*

:

"

(1 :1995 : )"

( )

"

(127 - 108 :1993 : )"

"

"

.(327 : 2002 : ) .

:

:

-

-

-

-

-

-

:

:

:

-1

-2

-3

-4

:

	-	-	-	)	-
					. (
10	-	5 -	5	- 0)	-
					. ( 10 -
					-5
					-6
	-	-	-	)	-
					. (
10	-	5 -	5	- 0)	-
					. ( 10 -
					-7
					:
					:
					-1
					.
					-2
					.
					-3
					.
					:
					:

-1

-2

-3

-4

:

:

-1

-2

.2003 – 2002

-3

-4

:

:

-1

-2

:

:

(41 :1988 : ) ."

"

"

:

:

-1

:

-2

-

-

-3

-4

-5

-6

:

:

:

:

-

(system)

(36 :1990 : )

(sub-system)

(145 :1995 : ) .

)

:

(

-1

-2

-3

(38 :1999 : ) .

: /

:

(29 :1987 : )

:

-1

:

-2

:

-3

...

: -4

(733 :1999 : ) :

-  
-  
-

: :

(1989 )

%25

(10)

(21)

(16)

(47)

:

: -  
(1987/86)

: -  
: -

:

-



(1990 )

(103)

(164)

(135)

:

(1993 )

(247)

(50)

(1993 )

(50)

(267)

(%38.7)

(%62.2)

(%55.5)

(%50.3)

(Smith, 1996)

" "

(1997 )

---

---

(37) :

(43) :

(500)

:

-

-

-

(1999 )

:

-

-

(2000 )

(365)

:

-

-

-

-

:

-

(1990 )

(2000 ) (1993 ) (1989 )

(2000 ) (1997 )

(1997 )

) (1989 )

(1999 ) (1990 )

(1999 ) (Smith, 1996)

:

:

-



:

-

:

-

-

-

-

(\*)

(32)

:

-2

:

:

-

.( 1 2 3)

( )

:

-

:

-

Wierme & ) "  $\alpha$ -Cronbach

"

(15)

(Jiurs: 1995: 162

(0.82)

:(1)

\*

(0.82)

(0.81)

.(0.82)

:

:

%50

(90)

:

(1)

			10	-5	-0		10	-5	-0			
%7.8	7	2	-	1	1	5	1	2	2			1
%6.7	6	3	1	1	1	3	1	1	1			
%4.4	4	2	-	1	1	2	-	1	1			
%5.6	5	2	-	1	1	3	1	1	1			
<b>%24.5</b>	<b>22</b>	<b>9</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>3</b>	<b>5</b>	<b>5</b>			
%7.8	7	1	-	-	1	6	2	2	2			2
%5.6	5	3	1	1	1	2	-	1	1			
%4.4	4	1	-	-	1	3	1	1	1			
%5.6	5	2	-	1	1	3	1	1	1			
%3.3	3	1	-	-	1	2	-	1	1			
%3.3	3	1	-	-	1	2	-	1	1			
<b>%30</b>	<b>27</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>18</b>	<b>4</b>	<b>7</b>	<b>7</b>			
%5.6	5	3	1	1	1	2	-	1	1			3
%2.2	2	2	-	1	1	-	-	-	-			
%4.4	4	2	-	1	1	2	-	1	1			
%4.4	4	2	-	1	1	2	-	1	1			
%4.4	4	1	-	-	1	3	1	1	1			
%2.2	2	-	-	-	-	2	-	1	1			

%23.3	21	10	1	4	5	11	1	5	5			
%7.8	7	4	2	1	1	3	1	1	1			4
%5.6	5	2	-	1	1	3	1	1	1			
%8.9	8	3	1	1	1	5	1	2	2			
%22.3	20	9	3	3	3	11	3	4	4			
%100	90	37	6	13	18	53	11	21	21			

:

:

:

":

."

.(2)

(2)

%67.8	61	%32.2	29	-1
%70	63	%30	27	-2
%58.9	53	%41.1	37	-3
%43.3	39	%56.7	51	-4
%57.8	52	%42.2	38	-5
%56.7	51	%43.3	39	-6
%52.2	47	%47.8	43	-7
%72.2	65	%27.8	25	-8
%83.3	75	%16.7	15	-9
%68.9	62	%31.1	28	-10
%94.5	85	%5.5	5	-11
%62.2	56	%37.8	34	-12
%65.6	59	%34.4	31	-13
%100	90	%		-14
%51.1	46	%48.9	44	-15

%57.8	52	%42.2	38		-16
%42.2	52	%42.2	38		-17
%100	90	%			-18
%62.2	56	%37.8	34		-19
%46.7	42	%53.3	48		-20
%64.4	58	%35.6	32		-21
%64.4	58	%35.6	32		-22
%16.7	15	%83.3	75		-23
%31.1	28	%68.9	62		-24
%47.8	43	%52.2	47		-25
%46.7	42	%53.3	48		-26
%100	90	%			-27
%100	90	%			-28
%12.2	11	%87.8	79		-29
%43.3	39	%65.7	51		-30
%71.1	64	%28.9	26		-31
%42.2	38	%57.8	52		-32

: (2)

(32) (2) -

(%83.3) : (\*)

(%87.8)

$$. \%6.25 = 100 \times 32/2$$

(%56.7) : (7) -

(%53.3) (%52.2) (%53.3)  
 (%68.9) (%57.8) (%56.7)

\*

(%17-50 ) (%50-83 ) (83-100) :  
 (17 )  
 (1.5-2.5 ) (2.5-3)  
 .. (0.5 ) (0.5-1.5 )

...

=100×32 /7

				. %22.87	
	:			(18)	-
(%41.1)		(%16.7)		(%30)	
	(%27.8)	(43.3)	(%42.2)		
(%47.8)	(%26)	(%31)		(%31.1)	
(%48.9)	(%34.3)		(%37.8)		
(%37.8)		(%42.2)	(%42.2)		
	.(%35.6)		(%35.6)		

.%56.25 = %100 × 32/18

(5)

.%15.6 =%100 × 32/5

:

-1

(%71.85) -2

:

":

."

.(3)

(3)

% 53.3	48	% 46.7	42		-1
% 54.4	49	% 45.6	41		-2
% 46.7	42	% 53.3	48		-3
% 34.4	31	% 65.6	59		-4
% 32.2	29	% 67.8	61		-5
% 48.9	44	% 51.1	46		-6
% 46.7	42	% 53.3	48		-7
% 47.8	43	% 52.2	47		-8
% 54.4	49	% 45.6	41		-9
% 60	54	% 40	36		-10
% 77.8	70	% 22.2	20		-11
% 43.3	39	% 56.7	51		-12
% 25.6	23	% 74.4	67		-13
% 96.7	87	% 3.3	17		-14
% 32.2	29	% 67.8	61		-15
% 36.7	33	% 63.3	57		-16
% 35.6	32	% 64.4	58		-17
% 85.6	77	% 14.4	13		-18
% 52.2	47	% 47.8	43		-19
% 12.2	11	% 87.8	79		-20
% 56.7	51	% 43.3	39		-21
% 56.7	51	% 43.3	39		-22
% 2.2	2	% 97.8	88		-23
% 13.3	12	% 86.7	78		-24
% 14.4	13	% 85.6	77		-25
% 21.1	19	% 78.9	71		-26
% 95.6	86	% 4.4	4		-27
% 92.2	83	% 7.8	7		-28
% 6.7	6	% 93.3	84		-29
% 26.7	24	% 73.3	66		-30
% 10	9	% 90	81		-31
% 12.2	11	% 87.8	79		-32

			:	(3)	-
	(%97.8)		(% 87.8)	:	
(%90)	(%93.3)		(%85.6)	(% (%86.7)	
				.(%87.8)	
:			(13)		-
	(%53.3)		(%46.6)		
	(%52.2)	(%53.3)	(%51.1)	(%67.8)	
(%67.8)		(%74.4)	(%56.7)		
(%78.9)		(%64.4)	(%63.3)		
				.(%73.3)	
		(8)			-
	(%45.6)		(%46.7)	:	
(%22.2)		(%40)		(%45.6)	
.(%43.3)		(%43.3)		(%47.8)	
					-
			:		
× 32/7					-1
				%21.9=%100	
					-2
				%40.6 =%10 × 32/13	
					-3

(1989 ) :

.(1993 ) (1990 )

.

:

":

:"

- - - ) -

. (

. ( - ) -

10 10 -5 5 -0) -

. (

:

.

-1

.(4)

(4)

0.250	1.61	22		-1
0.221	1.66	27		-2
0.155	1.67	21		-3
0.423	1.74	20		-4

(4)

.(5)

(5)

(0.05)	( )				
	*0.765	0.058	0.173	3	
		0.076	6.494	86	

.(3.03) = (0.05)

(86) (3)

( ) \*

(0.05)

(5)

:

-

- -

-

-  
-2  
:  
-

.(6)

(6)

( )

	" "					
	*1.363	0.242	1.714	3	37	
		0.292	1.635	3	53	

1.96 = (0.05)

(87 2 )

( ) \*

(%57.1) (3)

.%54.5 =3 /1.635

(6)

.(7)

(7)

0.264	1.65	39	5	- 0	-1
0.259	1.69	34	10	- 5	-2
0.334	1.65	17		10	-3

(7)

(8)

(8)

(0.05)	( )				
	*0.26	0.0198	0.039	2	
		0.0762	6.628	87	

(3.03) = (0.05)

(87 2)

( ) \*

(8)

(0.05)

(7)

(9)

(9)

%48.9	44	%51.1	46		-1
%54.4	49	%45.6	41		-2
%47.8	43	%52.2	47		-3
%50	45	% 50	45		-4
%65.6	59	%34.4	31		-5
%53.3	48	%46.7	42		-6
%53.3	48	%46.7	42		-7
%64.4	58	%35.6	32		-8
%73.3	66	%26.7	24		-9
%77.8	70	%22.2	20		-10
%95.6	86	%4.4	4		-11
%77.8	70	%22.2	20		-12
%56.7	51	%43.3	39		-13
%100	90	%			-14
%22.2	20	%77.8	70		-15
%27.8	25	%72.2	65		-16
%43.3	39	%56.7	51		-17
%100	90	%			-18
%66.7	60	%33.3	30		-19
%43.3	39	%56.7	51		-20
%84.4	76	%15.6	14		-21

%84.4	76	%15.6	14		-22
%16.7	15	%83.3	75		-23
%53.3	48	%46.7	42		-24
%70	63	%30	27		-25
%91.1	82	%8.9	8		-26
%100	90	%			-27
%100	90	%			-28
%5.6	5	%94.4	85		-29
%30	27	%70	63		-30
%58.9	53	%41.1	37		-31
%17.8	16	%82.2	74		-32

: (9)

.(%94.4) (%83.3) :

: (9)

(%50) (%52.2) (%51.1)

(%70) (%72.2) (77.8) (%56.7)

.(%56.3) (%82.2)

: (13)

(%33.3) (%22.2) (%26.7)

(%34.4) (%45.6) (%46.7)

(%43.3) (%35.6) (%46.7) (%46.7)

(%30) (%41.1)

: ( )

:

= %100 × 32/2

-1

%6.55

= %100 × 32/9

-2

%28.12

-3

%40.33 = 100 × 32/13

%25 = %100 × 32/8

-4

:

" :

"

. ( - - - ) -





(12)

( )

( - )

(0.05)	*1.19	0.388	1.18	3	37	
		0.346	1.28	3	53	

.1.96 = (0.05)

(87 2)

( ) \*

(12)

1.18 (12)

(3)

1.28

(3)

.(1997

)

(%42.7) (%39.3)

-3

( )

.(13)

(13)

0.367	1.26	39	5	- 0	-1
0.342	1.22	34	10	- 5	-2
0.417	1.18	17		10	-3

.(14)

(14)

(0.05)	( )				
(0.05)	*0.249	0.034	0.0675	2	
		0.135	11.769	87	

.3.03 = (0.05)

(87 2)

( ) \*

(0.05)

(14)

)

)

..((13)

(2000

) (1997

:

":

."

( - - )

.(15)

(15)

0.556	0.117	1	
0.027	1	0.117	
1	0.027	0.556	

.0463=(0.01)

0.361=(0.05)

: (15)

-

0.117 =

(0.556) =

-

(0.01)



...

-6

-7

(0.05)

.( - )

-8

-9

-10

-11

-12

:

:

:

:

-1

:

-2

:



-

-

-3

-4

:

:

:

-

-

-1

-2

-3

-4

---

---

	:	2 /	:(1999)	-1
:	8		:(1987)	-2
		:	:(1988)	-3
		:	:(2002)	-4
			:(1993)	-5
			:	
			:(1997)	-6
			:(1993)	-7
		:	:(1987)	-8
			:(1989)	-9
			:(1990)	-10
			:	(11)
:			(1974)	-11
			:(1990)	-12

	:(1995)	-13
	:(1993)	-14
	:(2000)	-15
	3 – 31	
	:(1999)	-16
	28-25	

17- Smith, K. J. (1996): the Relationships between the Attitudes of Teachers Secondary Technology and seven Independent Factors, Diss Abs. Int. Vol. 56-03A.

18- Wierme, William & Jurs, Stephen G. (1995): Educational measurement, and Tasting Alyn and Bacon, Boston, London, 2<sup>nd</sup> Edition.

(1)

)

:(

-1

-2

-3

-4

-5

...

. -6

. -7

. -8

: -9

: -10

: -11

.  
: -12

. -13

: -14

. -15

: -16

( ) : -17

:( ) : -18

: -19

---

	:	-20
. "over head projector"		
( )	:	-21
( )	:	-22
	:	-23
	.	-24
	:	-25
	.	-26
	:	-27
	.	-28
	:	-29
	:	-30
	.	-31
	.	-32