Training Needs of Faculty of Physical Education, Al-Azhar University staff members in Light of 21st Century Skills

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Twenty first century have numerous cognitive economic technological and transformations, which highly affected human beings in their capabilities, terms of efficiencies and skills. It is noticeable countries that possess knowledge, economic and technological components can get excellence in different areas of life, and those do not possess these ingredients remain in need of other to be subordinate to it always. Due to these transformations. importance to develop capabilities of university staff members emerged, where staff is of the member most important inputs that university depend on in achieving its goals. He entrusted with human energy teaching and conduct scientific researches that contribute to knowledge advancement and development, in addition to find solutions to problems facing society in w

hich he lives. (Mishra, 2007, p.5)

Therefore, Universities should give concern to staff members. provide all that their support performance, achieve development for all their roles in university, and effectively contribute in accessing various global changes (Badr, 2015, p.84)

There is no doubt that the process of identifying training needs for university staff member represents the first and the most important step in university educational process success and achieving university aims, which is an objective starting point for training programs planning and design for staff members. In this context, Sahu (2010) argues that training needs is the term required to move from existing to desired performance level, this need appear where there is a gap between what individual can

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do and what should be able to do. (p. 175)

Identifying training needs is important because it help in training planning programs, problems study and shortcomings in individuals performance, and examine the gap between organization aims and current situation. It is also guides training to the correct and appropriate direction; it clarifies deficiencies, problems and difficulties encountered in the process of individuals' performance of their work tasks. (Al-Buhairi. 2011. p.135)

literature Manv and educational studies such as (Morrison & Lowther, 2002) and (Chuang, 2002) study emphasized the importance of identifying university staff members training needs and train them to meet the informational and technical acceleration witnessed in contemporary reality. Additional consequences and responsibilities faced by staff member, which called for devel opment of their preparation 21^{st} in light of programs skills that century work on linking theoretical information with practical

application in functional way based on innovation and employing technological techniques in the educational process, 21st century teacher is the factor that determine education quality at all levels.

The twenty first century skills is of trends that began to gain attention bv educational skills, in students order to support in the university and career life in terms of mastery of both content and skills. Concern of these skills in all disciplines started by Partnership for 21st Skills. which Century established through partnership between Department of Education in United States and group of businesses such as Microsoft Corporation, National Association for Education, Microsoft and National Education Association. This partnership now is of important world leaders of and the skills of the 21st century skills development and teaching. Twenty-first skills are the skills necessary to ensure that learners are ready to learn, innovate, life, work and the proper use of information. media and

technology in the 21st century. (Shalabi, 2014, p.6)

Twenty-first century skills enable learners to life and work knowledge society in where effective era. communication with others technology. depends on increasing need for possessing untypical problem-solving skills find innovative and solutions to these problems. This called to reconsider skills needed to teacher be prepared appropriately to perform the role of building a able to life generation and work in this era. Various educational studies such as Abdulkader (2014), Alnabawy and Galal (2016) and Kayang & Msiska (2016) results confirmed existence of deficiencies in teachers' 21st century skills and need for developing training programs to ensure teachers having these skills functionally and mastering these skills.

Although it is necessary to work on teacher acquiring 21st century skills and great interest in it, there no educational study – as far as researcher knows - concerned with university staff members training needs in light of these skills. Even

though some educational studies have concerned with these skills in terms of analytical descriptive of study, evaluating some syllabuses in light of these skills, or present proposed scenario for a skills by development these integrating them with a school curricula.

Study problem:

The of process identifying training needs is the first and core step of from which training process starts, as it declare training goals and help in in good planning for training programs. Success in this step require determining needs these accurately to achieve its purpose in light of objective indicators and bases effectively contribute in developing trainees' skills and abilities.

Al-Azhar University witness currently comprehensive development in fields. especially in all organizational field. This development accompanied by increase in university staff with members great attention for preparing and University qualifying them. staff members' professional development is the way to reform and develop higher education system to cope with changes and challenges currently taking place in society. These challenges which have reflection on educational system in terms of its role in provide educational opportunities compatible with the labor market and sustainable development requirements, which all advanced countries abide with to achieve its aims through 21st century skills.

The fact that university staff member is of the important pillars of university success in achieving its aims and an important indicator to m aintain awareness and quality control

of educational outcomes.

University staff member coping with various developments to be able to continue performing his roles in desired manner requires specifying his training that keep pace with professional roles.

Starting from importance of universitv staff members possess 21st century skills and its effect in work development and raising education quality and university outputs. Researcher worked through the study to contribute current to achieve this by identifying the training needs of university staff members at faculty of physical education, Al-Azhar University, according to their

tasks and their coping with global development in the field of university education and in light of 21st century skills. To achieve this, current study trying to answer the following queries:

What are 1. training needs of university staff members at faculty of physical education, Al-Azhar University in light of 21st century skills? 2. Is there statistically significant differen ces between training needs of staff members at faculty of physical education, Al-Azhar University in light of 21st skills centurv in accordance with scientific qualification scientific and department variables?

Study importance:

Current study importance is due of the following:

1- Draw the attention of educators concerned with higher education development and improvement to the recent trends that should be considered when designing the training programs for university staff members.

2- Alignment with future visions for higher education system development scenarios in all its elements, which are calling for attention with 21st century skills to achieve this development.

3- Enriching educational library as it considered one of the first educational studies concerned with identifying training needs of staff members at faculty of physical education, Al-Azhar University in light of 21st century skills.

Study objectives:

The present study aimed to achieve the following: Determine 1. training needs of university staff members at faculty of physical education, Al-Azhar University in light of 21st century skills. 2. Identify statistics differences between training needs of staff members at faculty of physical education, Al-Azhar University in light of 21st century skills in accordance with scientific

department variables. **Study hypotheses:**

qualification

1. There are no statisticall y significant

and

differences between training needs of staff members at faculty of physical education, Al-Azhar University in light of 21st century skills in accordance with scientific qualification variable. 2. There are no statisticall y significant

differences between training needs of staff members at faculty of physical education, Al-Azhar University in light of 21st century skills in accordance with scientific department variable.

Study procedures: Study methodology:

The study used descriptive method as it suits study nature and objectives, using questionnaire as data collecting tool.

Study population and sample:

The study (43) population consisted of staff members at Faculty of Physical Education, Al-Azhar University, they are all staff members during study period in second term of the academic vear 2017/2018 according to official statistics for staff members management in Faculty of Physical Education, Al-Azhar University. Study sample was (25) staff members at Faculty of Physical Education . Al-Azhar University who responded by answering the qu estionnaire items. thev (58.14%) of represent

scientific

study society, the following tab individuals according to study variables :

le shows sample

Table (1) Study sample distribution according to study variables

Variable	Categories	Number	Percentage
Educational Qualification	PhD	14	44%
Educational Qualification	Master	11	56%
	Grating department		
	(Teaching,	16	64%
	Training, Management)		
Scientific Section	Non granting		
Scientific Section	departments		
	(Health Sciences,	9	36%
	movement		
	science, Psychology)		
	Total	25	100%

Study tool:

To achieve study objective, questionnaire developed а for data collection and identify training need of staff members at faculty of physical education, Al – Azhar University, in light of 21st century skills. This done through analysis of some documents related to as (Alstudy subject, such & Badran, 2001: Dahshan Mahmoud, 2001; Bashir, 2004; Teima, R. & Albandary, 2004; Mahmoud, 2009; Ishaq, 2011; Trilling & Fadel. 2009: Abdullah & Abo Elfadl, 2014 & Sadiq, 2014) aiming to develop the study tool and

wording of its measurable phrases. In addition to conduct some personal interviews with some university staff members at faculty of physical education, Al-Azhar University, in order to benefit from their experience in preparing the questionnaire.

Accordingly, questionnaire developed consisting of (59) phrases that aspects of training cover all needs in light of 21st distributed to century skills. seven basic aspects represent 21st skills, following table illustrates this:

Table (2)

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Qui	Questionnance aspects and training needs number in light of it							
S.No	questionnaire aspects	number of training needs	Relative weight					
1	Innovation and creativity skill.	10	16, 95 %					
2	Critical thinking and problem solving skill.	8	13.56 %					
3	Information and technological culture skill.	13	22, 03 %					
4	Communication skill.	9	15,25%					
5	Cooperation, leadership and responsibility skill.	6	10,17%					
6	Flexibility and adaptability skill.	7	11, 86 %					
7	Self- directing and productivity skill.	6	10,17 %					
Total		59	100%					

Questionnaire aspects and training needs number in light of it

Each phrase measured using 5-point Likert scale to declare the training need degree as following: very high (5), high (4), average (3), low (2), and very low (1), and to determine the degree of training need Closed Questionnaire form adopted, which assign the average (3.5-5) to (high need), (2.5-3.49)(average need), and (1to 2,49) to (low need).

Questionnaire reliability and validity:

Questionnaire validity:

Questionnaire validity confirmed using content validity by presenting it to (10) experts and specialists from staff members at faculties of physical education. That is ensure validity of to the questionnaire as data collection tool, phrasing proper language, and to identify proposed training needs appropriateness for each skill of 21st century skills. Based on opinions and observations, researcher carried out appropriate adjustments arrived to the questionnaire in its final form (appendix 1)

Questionnaire reliability:

Questionnaire reliability confirmed using (Test-Retest) Through presenting the questionnaire to sample of 10 university staff 77

members from the study population and not included in study sample with 15 days interval time, results illustrated in the following table:

Table (3)

Correlation coefficients between first and second administration of training needs in light of 21st century skills questionnaire (n = 10)

S.	training needs	1 ^s	t	2n	d	R	Signf.
No		administ	tration	administ	tration	value	level
		Mean	SD	Mean	SD		
Firs	t: Innovation and creativity skill:						
1	Creative planning, implementation and						
	evaluation based on effective teaching.	4.42	1.22	4.57	1.15	0.90	SIG.
2	Time management to achieve desired						
	goals in the specified time her.	4.12	0.84	4.53	1.00	0.89	SIG.
3	Selecting teaching						
	strategies that contribute to developing						
	students' creative thinking.	4.51	1.64	4.59	0.95	0.85	SIG.
4	Developing high-level thinking skills						
	among students through different.					0.04	
	activities	4.25	0.96	4.48	1.41	0.96	SIG.
5	Using current events and life situation						
	to deliver educational content to students.	4.31	1.06	4 71	1.22	0.81	SIG.
6	Using modern teaching strategies.	4.51	0.48	4.71 16.4	1.22 1.12	0.81	SIG.
7	Designing diverse enrichment situation	11.4	0.40	10.4	1.12	0.91	510.
,	and activities to develop students						
	multiple intelligences and life skills.	4.59	1.25	4.37	1.03	0.89	SIG.
8	Using more than one the teaching		1.20		1100	0.02	510.
	strategy in same lecture.	4.28	1.26	4.33	1.48	0.85	SIG.
9	Producing and directing objective						
	educational activities in variety of						
	creative.	4.11	1.04	4.42	0.92	0.87	SIG.
10	Designing and functionally using						
	different evaluation tools.	4.16	1.12	4.43	1.05	0.92	SIG.
	ond : Critical thinking and problem solv	ing skill:	T	1	1		
1	Using different thinking methods in						
	educational situations.	4.41	0.89	4.64	0.71	0.91	SIG.
2	Producing creative problem solutions	4.51	0.71	4.55	0.01	0.00	ara
	during work.	4.51	0.71	4.57	0.91	0.89	SIG.
3	Solving problems in classrooms in	4 42	1.45	1 10	1 40	0.02	SIC
4	appropriate methods. Scientific positive critics though	4.42	1.45	4.48	1.48	0.93	SIG.
4	introducing community issues for						
	dialogue and discussion.	4.01	1.57	4.21	1.09	0.87	SIG.
	ulalogue and ulseussion.	4.01	1.57	7.21	1.07	0.07	510.

Follow Table (3)

Correlation coefficients between first and second administration of training needs in light of 21st century skills questionnaire (n = 10)

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obtained from various sources .4.240.674.311.090.914Knowing scientific criteria on which information validated,4.300.574.420.670.935Constructive criticism of media messages and adapt it to serve the educational content4.270.884.441.090.906Using media news in teaching skills in creative ways4.401.074.611.010.917.Activating the role of educational media in discussing community issues4.281.264.321.480.898Utilization of information and knowledge in educational content in a functional media in developing students' information culture.4.120.844.331.010.919Using educational media in developing students' information culture.4.421.224.571.150.9010Knowing technical and educational computer programs in the service of educational content.4.501.644.591.220.8911Design and use of computer programs in the service of educational content.4.360.524.530.750.87			4.16	0.97	4.50	0.71	0.95	SIG.
4Knowing scientific criteria on which information validated,4.300.574.420.670.935Constructive criticism of media messages and adapt it to serve the educational content4.270.884.441.090.906Using media news in teaching skills in creative ways4.401.074.611.010.917.Activating the role of educational media in discussing community issues4.281.264.321.480.898Utilization of information and knowledge in educational content in a functional manner.4.120.844.331.010.919Using educational media in developing students' information culture.4.421.224.571.150.9010Knowing technical and educational computer programs in the service of educational content.4.501.644.591.220.8912Participate actively in forums related to specialization.4.360.524.530.750.87								
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a functional manner.4.120.844.331.010.919Using educational media in developing students' information culture.4.421.224.571.150.9010Knowing technical and educational standards for electronic content design.4.250.964.481.010.9411Design and use of computer programs in the service of educational content.4.501.644.591.220.8912Participate actively in forums related to specialization.4.360.524.530.750.87								
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10Knowing technical and educational standards for electronic content design.4.250.964.481.010.9411Design and use of computer programs in the service of educational content.4.501.644.591.220.8912Participate actively in forums related to specialization.4.360.524.530.750.87			4 42	1 22	1 57	1 15	0.00	SIG.
standards for electronic content design.4.250.964.481.010.9411Design and use of computer programs in the service of educational content12Participate actively in forums related to specialization.4.360.524.530.750.87			4.42	1.22	4.37	1.15	0.90	510.
11Design and use of computer programs in the service of educational content.Image: Computer programs in the service of 4.50Image: C			1 25	0.06	1 18	1.01	0.04	SIG.
computer programs in the service of educational content.4.501.644.591.220.8912Participate actively in forums related to specialization.4.360.524.530.750.87			4.23	0.90	4.40	1.01	0.94	510.
educational content.4.501.644.591.220.8912Participate actively in forums related to specialization.4.360.524.530.750.87								
12Participate actively in forums related to specialization.4.360.524.530.750.87			4 50	1 64	4 59	1 22	0.89	SIG.
to specialization. 4.36 0.52 4.53 0.75 0.87			7.50	1.07	7.37	1.22	0.07	510.
			4.36	0.52	4.53	0.75	0.87	SIG.
13 Using different web tools in		Jsing different web tools in	1.50	0.02	1.00	0.75	0.07	510.
educational process. 4.59 1.25 4.60 1.13 0.89			4.59	1.25	4.60	1.13	0.89	SIG.

Follow Table (3)

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Correlation coefficients between first and second administration of training needs in light of 21st century skills questionnaire (n = 10)

S.	training needs	1 ^s	t	2n	d	R	Signf.
No		adminis		administ		value	level
		Mean	SD	Mean	SD		
Fou	rth : Communication skill:						
1	Organization of enrichment scientific						
	material and present it in logical						
	manner.	4.31	1.06	4.42	1.22	0.83	SIG.
2	Support and promote students'						
	motivation.	4.01	1.57	4.35	1.10	0.89	SIG.
3	Direct students towards lifelong						
	learning necessity.	4.15	0.42	4.33	0.92	0.91	SIG.
4	Knowing positive dialogue bases when						
	discussing different issues.	4.42	1.45	4.51	1.48	0.93	SIG.
5	Designing and implementing dialogue						
	and discussion scenario and not leave it	1.50	1			0.00	
	to chance.	4.50	0.71	4.71	0.94	0.90	SIG.
6	Contributing to achieve students'	4.10	0.04	4.25	1 10	0.02	CIC.
7	intellectual safety. Using more than one	4.12	0.84	4.35	1.12	0.92	SIG.
/	communication method to express						
	views and ideas.	4.36	0.57	4.61	0.57	0.87	SIG.
8	Express opinions effectively and	4.30	0.57	4.01	0.37	0.87	510.
0	fluently in front of all.	4.16	0.97	4.40	0.82	0.95	SIG.
9	Providing safe and support climate for		0.77	1.10	0.02	0.75	510.
	creative learning.	4.40	1.07	4.61	1.01	0.85	SIG.
Fift	h : Cooperation, leadership and responsi					0.00	
1	Knowing educational standards for						
	using cooperative strategies during						
	teaching.	4.31	1.01	4.42	1.12	0.84	SIG.
2	Carry out difficult tasks that need to						
	more creative thinking in						
	accomplishing it	4.25	0.94	4.48	1.02	0.89	SIG.
3	Exercise leadership team through						
	organization of collective work.	4.28	1.26	4.38	1.29	0.95	SIG.
4	Knowing profession ethics of and work						
	to develop them in order to achieve		0.7-		0 = 1	0.51	
	desired learning outcomes.	4.41	0.89	4.64	0.71	0.91	SIG.
5	Knowing leadership skills through	1.20	0.55	4 4 1	0.70	0.02	ara
	seminars with specialists.	4.30	0.57	4.41	0.78	0.93	SIG.
6	Knowing partnership methods with						
	external community organizations to develop educational process.	4.01	1.15	4.31	1.02	0.90	SIG.
	uevelop educational process.	4.01	1.13	4.31	1.02	0.90	SIU.

Follow Table (3)

Correlation coefficients between first and second administration of training needs in light of 21st century skills questionnaire (n = 10)

S.	training needs	1 ^s	t	2n	d	R	Signf.
No		adminis	tration	adminis	tration	value	level
		Mean	SD	Mean	SD		
Sixt	h : Flexibility and adaptability skill:						
1	Dealing with modern teaching						
	aids in teaching.	4.24	0.67	4.31	1.09	0.91	SIG.
2	Knowing regulations and						
	laws that control educational process.	4.28	1.26	4.32	1.48	0.89	SIG.
3	Develop flexible plans on sound						
	scientific bases.	4.36	0.58	4.53	0.95	0.86	SIG.
4	Modification of existing plans based						
	on hypothetical changes	4.31	1.16	4.38	1.24	0.94	SIG.
5	Awareness of new curricula						
	importance and achievement						
	mechanisms.	4.15	0.42	4.33	0.82	0.92	SIG.
6	Provide feedback to						
	modify shortcomings when						
	teaching students.	4.12	0.85	4.42	1.12	0.89	SIG.
7	Provide immediate reinforcement and						
	support for correct learners' responses.	4.28	1.18	4.42	1.31	0.85	SIG.
	enth : Self -directing and productivity sl	ill:	г	1	1	1	
1	Identify strengths and weaknesses						
	through the analysis of self-evaluation						
	tools.	4.09	1.12	4.28	1.07	0.90	SIG.
2	Using available environmental						
	resources in implementation of	4.15	0.70	4.20	0.02	0.02	OTC.
2	students' activities.	4.15	0.78	4.38	0.82	0.92	SIG.
3	Knowing student						
	projects that contribute in achieving	4 4 1	0.08	1.10	1.07	0.90	SIC
4	curricula goals.	4.41	0.98	4.46	1.07	0.89	SIG.
4	Knowing objective ways to use self-	4 1 1	0.84	4 22	0.71	0.91	SIG.
5	evaluating tools to achieve its goals.	4.11	0.84	4.32	0.71	0.91	SIG.
3	Organizing productive projects that suit students' interests.	4.42	1.54	4.52	1.52	0.95	SIG.
6	Knowing analysis mechanism of	4.42	1.54	4.32	1.32	0.95	510.
0	education reality forms and benefit						
	from it	4.31	1.16	4.42	1.09	0.92	SIG
	nomit	⊣ .J1	1.10	7.42	1.07	0.72	510

(r) significant at (0.05) level = 0.63

Table (3) results revealstatisticallysignificantcorrelationbetween first andsecondapplicationcorrelationcoefficientranged

between (0.81 and 0.96), the matter which confirm questionnaire reliability and in turning results from applicable study tool.

Questionnaire final form administration:

Questionnaire final form consisting of (59) training needs distributed on seven aspects representing 21st century skills administrated on a sample (25) staff members at faculty of physical education, Al- Azhar University.

Questionnaire administration carried out during the period 10-14/12/2017, researcher

explained study purpose and clarify training needs in each aspect and response instructions, and then data collected and prepared to conduct appropriate statistical process.

Statistical Process:

Researcher used SPSS statistical program to analyze data to arrive to study results, using following statistical methods: mean, standard deviation, percentage, Alpha Cronbach coefficient, and T test. All date analyzed in 0.05 significance level.

Results and discussion: I- First query results:

Each aspect results will be presented separately, while interpretation and discussion will be for questionnaire in overall:

First aspect: Innovation and creativity skill:

Biuu	Study sample responses in innovation and creativity aspect skin $(n = 25)$						
S. No	training needs	Mean	SD	Relative weight	need degree	Rank	
1	Creative planning, implementation and evaluation based on effective teaching.	4.27	1.15	85.4	High	3	
2	Time management to achieve desired goals in the specified time her.	4.35	1.24	87.0	High	2	
3	Selecting teaching strategies that contribute to developing students' creative thinking.	4.69	0.94	93.8	High	1	
4	Developing high-level thinking skills among students through different. Activities	4.16	1.02	83.2	High	5	

Table (4) Study sample responses in innovation and creativity aspect skill (n = 25)

Follow Table (4)

S. No	training needs	Mean	SD	Relative weight	need degree	Rank
5	Using current events and life situation to deliver educational content to students.	4.02	1.11	80.4	High	8
6	Using modern teaching strategies.	4.24	1.19	76,8	High	4
7	Designing diverse enrichment situation and activities to develop students multiple intelligences and life skills.	3.89	1.17	77.8	High	9
8	Using more than one the teaching strategy in same lecture.	4.11	0.98	82.2	High	7
9	Producing and directing objective educational activities in variety of creative.	4.15	1.04	83.0	High	6
10	Designing and functionally using different evaluation tools.	3.84	1.17	84.8	High	10
	General average	4,17	1.04	83.4	High	

Study sample responses in innovation and creativity aspect skill (n = 25)

Table (4) results reveal that training needs degree for innovation and creativity skill aspect is high with mean of (4.17). The greatest need was need (3) "Selecting teaching strategies that contribute to developing students' creative thinking" with high degree and mean of (4.69). The lowest need was need (10) "Designing and functionally using different evaluation tools." with high degree and mean of (3.84).

Second aspect: Critical thinking and problem solving skill:

Table (5)

Study sample responses in Critical thinking and problem solving skill (n = 25)

S. No	training needs	Mean	SD	Relative weight	need degree	Rank
1	Using different thinking methods in educational situations.	4.37	1.15	87.4	High	4
2	Producing creative problem solutions during work.	4.29	0.89	85.8	High	5
3	Solving problems in classrooms in appropriate methods.	4.38	1.11	87.6	High	3

Follow Table (5)

Study sample responses in Critical thinking and problem solving skill (n = 25)

S. training No	needs	Mean	GD	D 1 1		
		Mean	SD	Relative weight	need degree	Rank
	gh community ialogue and	4.65	1.02	93.0	High	1
5 Getting right information sources for light of it.	n from their	4.44	0.98	88.8	High	2
6 Correcting lack of kno in creative	wledge	4.12	1.04	82.4	High	6
7 Using self- tools and th objective ju through it.	ne issuing	3.94	0.97	78.8	High	8
8 Using dialo discussion present education c problems, a appropriate	methods to content and propose	4.11	0.93	82.2	High	7
General av		4.29	1.01	85.8	High	

Table (5) results reveal that training needs degree for Critical thinking and problem solving skill aspect is high with mean of (4.29). The greatest need need was (4)"Scientific positive critics though introducing community dialogue and issues for discussion." with high degree and mean of (4.65). The lowest need was need (7) "Using selfevaluating tools and the issuing objective judgments through it.." with high degree and mean of (3.94).

Third aspect: Information and technological culture skill:

Table (6)

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Study sample responses in Information and technological culture skill (n = 25)

	SIX	$\Pi (\Pi - 2)$				
S.	training needs	Mean	SD	Relative	need	Rank
No				weight	degree	
1	Knowing websites that release the new in specialty.	4.68	1.14	93.6	High	8
2	Knowing information searching and investigation mechanism.	4.77	0.97	95.4	High	3
3	Documentation of information obtained from various sources	4.43	0.84	88.6	High	13
4	Knowing scientific criteria on which information validated,	4.76	1.01	95.2	High	4
5	Constructive criticism of media messages and adapt it to serve the educational content	4.65	0.94	93.0	High	9
6	Using media news in teaching skills in creative ways	4.78	.87	95.6	High	2
7	Activating the role of educational media in discussing community issues	4.47	1.04	89.4	High	12
8	Utilization of information and knowledge in educational content in a functional manner.	4.71	0 and 98	94.2	High	6
9	Using educational media in developing students' information culture.	4.75	1.17	95,0	High	5
10	Knowing technical and educational standards for electronic content design.	4.59	1.09	91,8	High	11
11	Design and use of computer programs in the service of educational content.	4.85	0.89	97.0	High	1
12	Participate actively in forums related to specialization.	4.64	0.95	92.8	High	10
13	Using different web tools in educational process.	4.69	1.07	93.8	High	7
Gen	eral average	4.67	0.89	93.4	High	
	Table (6) maguita marrael	T	0	tion and		

Table (6) results revealthat training needs degree for

Information and technological culture skill aspect is high with

mean of (4.67). The greatest need was need (11) "Design and use of computer programs in the service of educational content" with high degree and mean of (4.85). The lowest need was need (3) "Documentation of information obtained from various sources" with high degree and mean of (4.43).

Forth

st aspect: Communication skill: Table (7)

_	Study sample response	s in con	imunio	cation skill	(n = 25)	
S. No	training needs	Mean	SD	Relative weight	need degree	Rank
1	Organization of enrichment scientific material and present it in logical manner.	3.67	0.96	73.4	High	1
2	Support and promote students' motivation.	3.53	1.04	70.6	High	4
3	Direct students towards lifelong learning necessity.	3.42	1.07	68.4	average	6
4	Knowing positive dialogue bases when discussing different issues.	3.47	0.81	69.4	average	5
5	Designing and implementing dialogue and discussion scenario and not leave it to chance.	3.61	0.86	72.2	High	2
6	Contributing to achieve students' intellectual safety.	3.28	0.97	65.6	average	8
7	Using more than one communication method to express views and ideas.	3.57	1.05	71.4	High	3
8	Express opinions effectively and fluently in front of all.	3.04	1.17	60.8	average	9
9	Providing safe and support climate for creative learning.	3.29	1.13	65.8	average	7
Gen	eral average	3,43	0.96	68.6	average	
	Table (7) results reve	al	averag	ge with m	ean of (3	.43).

Study sample responses in communication skill (n = 25)

Table (7) results reveal that training needs degree for communication skill aspect is

average with mean of (3.43). The greatest need was need (1) "Organization of enrichment

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scientific material and present it in logical manner" with high degree and mean of (3.67). The lowest need was need (8) "Express opinions effectively and fluently in front of all" with average degree and mean of (3.04).

Fifth aspect: Cooperation, leadership and responsibility skill:

Table (8)

Study sample responses in Cooperation, leadership and
responsibility skill (n = 25)

$\mathbf{Tesponsionicy} \text{ bind} (\mathbf{n} = \mathbf{ze})$										
S. No	training needs	Mean	SD	Relative weight	need degree	Rank				
1	Knowing educational standards for using cooperative strategies during teaching.	4.46	1.23	89.2	High	4				
2	Carry out difficult tasks that need to more creative thinking in accomplishing it	4.49	1.11	89.8	High	3				
3	Exercise leadership team through organization of collective work.	4.61	0.84	92.2	High	2				
4	Knowing profession ethics of and work to develop them in order to achieve desired learning outcomes.	4.15	1.09	83.0	High	б				
5	Knowing leadership skills through seminars with specialists.	4.72	0.97	94.4	High	1				
6	Knowing partnership methods with external community organizations to develop educational process.	4.31	0.89	86.2	High	5				
Ove	rall average	4.4 6	1.11	89.2	High					

Table (8) results reveal that training needs degree for Cooperation, leadership and responsibility skill aspect is high with mean of (4.46). The greatest need was need (5) "Knowing leadership skills through seminars with specialists" with high degree and mean of

(4.72). The lowest need was need (4) "Knowing profession ethics of and work to develop them in order to achieve desired learning outcomes" with high degree and mean of (4.15).

Sixth aspect: Flexibility and Adaptability skill:

Table (9)

Study s	ample res	ponses in flexil	bility and ada	ptability s	skill (r	n = 25)	ļ
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S. No	training needs	Mean	SD	Relative weight	need degree	Rank
1	Dealing with modern teaching aids in teaching.	3.67	1.11	73.4	High	5
2	Knowing regulations and laws that control educational process.	3.64	0.94	72.8	High	6
3	Develop flexible plans on sound scientific bases.	4.17	1.15	83.4	High	1
4	Modification of existing plans based on hypothetical changes	4.03	0.98	80.6	High	2
5	Awareness of new curricula importance and achievement mechanisms.	3.61	0.89	72.2	High	7
6	Provide feedback to modify shortcomings when teaching students.	3.73	1.15	74.6	High	4
7	Provide immediate reinforcement and support for correct learners' responses.	3.88	1.04	77.6	High	3
Gen	eral average	3.82	0.98	76.4	High	

Table (9) results reveal that training needs degree for flexibility and adaptability skill aspect is high with mean of (3.82). The greatest need was need (3) "Develop flexible plans on sound scientific bases" with high degree and mean of (4.17). The lowest need was need (5) "Awareness of new curricula importance and achievement mechanisms" with high degree and mean of (3.61).

Seventh aspect: self-

directing and productivity sk ill:

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	Study sample responses in self- directing and productivity skill $(n = 25)$								
S. No	training needs	Mean	SD	Relative weight	need degree	Rank			
1	Identify strengths and weaknesses through the analysis of self-evaluation tools.	4.56	1.12	91.2	High	3			
2	Using available environmental resources in implementation of students' activities.	4.53	0.89	90.6	High	4			
3	Knowing student projects that contribute in achieving curricula goals.	4.35	0.96	87.0	High	6			
4	Knowing objective ways to use self- evaluating tools to achieve its goals.	4.48	0.91	89.6	High	5			
5	Organizing productive projects that suit students' interests.	4.63	1.15	92.6	High	2			
6	Knowing analysis mechanism of education reality forms and benefit from it	4.75	1.0 4	95.0	High	1			
Ove	rall average	4.49	1.09	89.8	High				

Table (9)Study sample responses in self- directing and productivity skill (n = 25)

Table (10)results reveal that training needs degree for self-directing and productivity skill aspect is high with mean of (4.49). The greatest need was need (6) "Knowing analysis mechanism of education reality forms and benefit from it" with high degree and mean of (4.75). The lowest need was need (3) "Knowing student projects that contribute in achieving curricula goals." with high degree and mean of (4.35).

To identify university staff members' training needs in light of 21st century skills y in general, researcher calculated means and standard deviations and relative weight for questionnaire aspects as a whole as seen study by sample, the following table illustrates this:

Table (11)

S. No	training needs	Mean	SD	Relative weight	need degree	Rank
1	Innovation and creativity skill.	4.17	1.04	83.4	Hig	5
2	Critical thinking and problem solving skill.	4.29	1.01	85.8	High	4
3	Information and technological culture skill.	4.67	0.89	93.4	High	1

	Study sample responses for the questionnaire aspects as a whole = 2								
S. No	training needs	Mean	SD	Relative weight	need degree	Rank			
4	Communication skill.	3.43	0.96	68.6	Average	7			
5	Cooperation, leadership and responsibility skill.	4.4 6	1.11	89.2	High	3			
6	Flexibility and adaptability skill.	3.82	0.98	76.4	High	6			
7	Self- directing and productivity skill.	4.49	1.09	89.8	High	2			
Gen	eral average	4,19	0.99	83.8	High				

Follow Table (11)

Table (11)results reveal that staff members training needs in light of 21st century skills degree in general is high, with general relative weight of (83.8%) and aspect rates ranged between (68.6% and 93.4%) This confirm the necessity for determine university staff members training needs in light of 21st century skills and train on it

Researcher attribute "information that and skills" technological culture aspect is the greatest staff member need to the current era nature, which require every staff member to know and master computer skills and different information sources in a way can support and enhance his professional performance. This result is in line with (Al-Buhairi, 2011;

Ishaq, 2011 & Abdullah & Abo Elfadl. 2014) results that confirmed priority and importance for training staff members technological on skills, which suit current era. In addition to give training to university's staff members on how to use technology in higher education to enable them to perform their roles in a way can help in improve educational process in universities.

As well giving as attention to life and social such skills as adaptation, flexibility,

leadership, cooperation and productivity, which are of university staff member's success factors.

Critical and creative thinking.

which is a main and base objective of all curricula, and every staff member, should know how to develop it within students while teaching his specialization, the matter, which confirm necessity to pay attention to develop this skills within staff members firstly and train them how to develop this skills within students.

For communication skill, which was the lowest need, even its relative weight was high (68%). This may be due that communication skill with all its sub-skills like reading and writing skills, speaking and listening skills available in an acceptable degree for most staff members, and other training needs are more required

II- second query results:

To answer this query and testing first hypothesis independent "T" test used to find out differences between staff members responses to training need in light of 21st century skills according to qualification variable, as illustrated in the table below :

Fable	(12)
I able	(14)

Means and standard deviations and "T" value for differences in
staff members responses according to qualification variable
PhD (n=14), Master (n=11)

S.	Aspect	PhD		Master	Master		Significance
No		Mean	SD	Mean	SD	value	Level
1	Innovation and creativity skill.	4.13	0.97	4.21	1.04	0.189	Insignificant
2	Critical thinking and problem solving skill.	4.24	1.09	4.34	0.92	0.239	Insignificant
3	Information and technological culture skill.	4.58	1.01	4.76	0.89	0.454	Insignificant
4	Communication skill.	3.37	0.95	3.49	1.11	0.274	Insignificant
5	Cooperation, leadership and responsibility skill.	4.44	0.88	4.48	0.94	0.104	Insignificant
6	Flexibility and adaptability skill.	3.77	1.07	3.87	1.02	0.228	Insignificant
7	Self- directing and productivity skill.	4.46	0.97	4. 52	0.89	0.154	Insignificant
Gen	eral average	4.14	1.04	4.24	0.97	0.238	Insignificant

(T) significant at (0.05) level and 24 DF= 2.07

Table(12)resultsreveal statistically insignificant

difference according to qualification at 0.05 level in all

study aspects. This result is in line with (Al-Buhairi, 2011: Hamdan, 2017) results where there was no statistically significant differences in training needs between staff members according to qualification. In same time this result differs with (Ishaq, 2011; Abdullah & Abo Elfadl, 2014) results where there were statistically significant differences in training needs staff members between qualification according to towards Master degree staff.

Although there were no significant differences in training needs for staff members in all aspects qualification, according to Master degree holders were in more need for training in light of 21st century skills in each aspect and in overall degree.

Researcher attribute this to that PhD holders acquire experience and modern methods. which help in facilitating their teaching. In addition to knowing about recent cognition trends and their ability to benefit from and apply it in different fields in the form, which helps them to their develop teaching practices, which is not available for Master degrees holders, and so First hypothesis accepted.

To test second hypothesis independent "T" test used to find out differences staff members between responses to training need in of 21st light century skills according to scientific department variable, as illustrated in the table below:

Table (13)

Means and standard deviations and "T" value for differences in staff members responses according to scientific department variable Granting departments (n=16), non-granting departments (n=91)

S. No	Aspect	Granting Departments		Non- granting Departments		T value	Significance Level
		Mean	SD	Mean	SD		
1	Innovation and creativity skill.	4.24	.97	4.10	0.88	0.343	Insignificant
2	Critical thinking	4.37	.04	4.21	0.96	0.364	Insignificant
	and problem solving skill.						

Follow Table (13) Means and standard deviations and "T" value for differences in staff members responses according to scientific department variable Granting departments (n=16), non-granting departments (n=91)

\mathbf{r}							
S. No	Aspect	Granting Departments		Non- granting Departments		T value	Significance Level
		Mean	SD	Mean	SD		
3	Information and technological culture skill.	4.72	.87	4.62	0.91	0.260	Insignificant
4	Communication skill.	3.53	.92	3.31	1.06	0.521	Insignificant
5	Cooperation, leadership and responsibility skill.	4.48	0.99	4.44	0.92	0. 091	Insignificant
6	Flexibility and adaptability skill.	3.95	1.08	3.69	0.94	0.580	Insignificant
7	Self- directing and productivity skill.	4. 51	0.97	4. 47	1.03	0.093	Insignificant
General average		4.26	0.93	4.12	1.01	0.333	Insignificant

(T) significant at (0.05) level and 24 DF= 2.07

Table (13)results reveal statistically insignificant difference according to scintefic department (granting, non-granting) at 0.05 level in all study aspects. This result is in line with (Ishaq, 2011; Al-Buhairi. 2011: Abdullah & Elfadl. Abo 2014) results where there was no statistically differences significant in training needs between staff members according to sintific department. In same time this result differs with (Al-Sharif, 2006) results where there were significant statistically differences in training needs between staff members according to scientific department.

Although there were no differences significant in training needs for staff members in all aspects scientific according to department, Staff members in granting departments were in more need for training in light of 21st century skills in each aspect and in overall degree. Researcher attributes this to training needs importance in

granting departments because of the educational experience and life skills they give to their

students in order to prepare and qualify them to engage in labor market, deal with and upgrading society. Thus to carry out tasks assigned to them, whether through teach ing for future generations, preparing distinct players pain and qualify them to participate in higher level local and international tournaments. Also through dealing with sport institutions in society, aiming to upgrade it to be able to deal and face 21st requirements. So century second hypothesis accepted.

Recommendations and proposals:

In light of study results, the following could be recommended:

1- Considering training needs reached in current study as objectives of any training program that university seeks to implement it for developing staff members performance in light of 21st century skills

2- Design training programs for staff members at Faculty of Physical Education, Al-Azhar University in light of training needs in this study in light of 21st century skills according to their priority and importance in staff members opinion

3- Preparing

comprehensive training plan to develop staff members skills based on accurate identification of training needs accordance to scientific methods, taking into account future changes to build training programs in light of new needs and future roles of staff member.

4- Activating distance-

training methods for staff members, using modern technology in a way ensuring interaction, goals achievement, and improving economic feasibility for presented training programs.

5- Conducting an evaluative study to measure the effect of training courses for staff members based on their needs on their performance.

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