Employer Evaluation Survey (EES) - Mathematics Department1440-1441

Table (1) Likert Scale

Statement	Interval length
Strongly disagree	1 to 1.79
Disagree	1.8 to 2.59
True sometimes	2.6 to 3.39
Agree	3.40 to 4.18
Strongly agree	4.19 to 5

The weighted mean of the data will be calculated and compared with the weighted values of the five- Likert scale to determine the attitude toward the item.

The following results were obtained from the analysis of the questionnaire of employers according to the items of the questionnaire for a statistical sample size (n = 17).

Employer Evaluation Survey:

The questionnaire included five main themes in addition to the open questions:
1. Knowledge (4 Statements).
2. Cognitive skills (3 Statements).
3. Communication skills (3 Statements).
4. Personal skills (5 Statements).
5. Work skill (6 statements).

Table (2)

Knowledge

S.No.	First Item	Strongly disagree	Disagree	True sometimes	Agree	Strongly agree	Weighted mean	Percentage	Standard deviation	Attitude
		Frequency	Frequency	Frequency	Frequency	Frequency				
		%	%	%	%	%				
1	Graduate has high technical education level in the area of work	1	1	10	1	4	3.35	67	1.115	True sometimes
		5.9	5.9	58.8	5.9	23.5				
2	Graduate understands the ethical and professional liabilities in the major	0	2	10	1	4	3.41	68	1.004	Agree
		0	11.8	58.8	5.9	23.5				
3	Graduate can identify and describe the problems and recommend appropriate solutions to them	2	2	7	2	4	3.24	65	1.300	True sometimes
		11.8	11.8	41.2	11.8	23.5				
4	Graduate comprehends the role and the impact of the discipline in the	0	3	9	1	4	3.35	67	1.057	True sometimes
		0	17.6	52.9	5.9	23.5				

		Strongly disagree	Disagree	True sometimes	Agree	Strongly agree	Weighted mean	Percentage	Standard deviation	Attitude
	national context									
	Cognitive Skills	**3**	**8**	**36**	**5**	**16**	**3.34**	**67**	**0.972**	True sometimes
		4.41	11.76	52.94	7.35	23.53				

It is clear from the above table that the weighted arithmetic mean for the opinion of the employers regarding the knowledge is (3.34), which indicates the presence of neutrality in this item, based on the weighted values of the five-point Likert scale.

Table (3)

Cognitive Skills

م	Second item	Strongly disagree Frequency %	Disagree Frequency %	True sometimes Frequency %	Agree Frequency %	Strongly agree Frequency %	Weighted mean	Percentage	Standard deviation	Attitude
1	Graduate have the ability to relate theory with application in the domain of work	0 / 0	2 / 11.8	9 / 52.9	2 / 11.8	4 / 23.5	3.47	69	1.007	Agree
2	Graduate can gather and analyze information	0 / 0	2 / 11.8	10 / 58.8	1 / 11.8	4 / 28.5	3.41	68	1.004	Agree
3	The graduate has the ability to deal with and solve problems	0 / 0	0 / 0	4 / 28.5	10 / 58.8	3 / 17.6	3.12	62	0.993	True sometimes
	Cognitive Skills	0 / 0	4 / 7.8	23 / 45.1	13 / 25.49	11 / 21.57	3.33	67	0.935	True sometimes

It is clear that the weighted arithmetic mean for the opinion of the employers regarding cognitive skills is (3.33), which indicates the presence of neutrality in this item, the lowest satisfaction rate for the statement in this item was (62%) in the third statement, based on the weighted values of the Likert quintuple scale.

Table (4)

Communication Skills

	Third item	Strongly disagree	Disagree	True sometimes	Agree	Strongly agree	Weighted mean	Percentage	Standard deviation	Attitude
		Frequency %	Frequency %	Frequency %	Frequency %	Frequency %				
1	Graduate is able to orally communicate and converse in the field of work	3	1	10	3	0	2.76	55	0.97	True sometimes
		17.3	5.9	58.8	17.3	0				
2	Graduate is able to deal with Computers	2	4	7	1	3	2.94	59	1.249	True sometimes
		11.8	23.5	41.2	5.9	17.3				
3	Graduate is able work in group to achieve goals	1	4	7	1	4	3.18	64	1.237	True sometimes
		5.9	23.5	41.2	5.9	23.5				
	Communication skills	6	9	24	5	7	2.96	59	0.539	True sometimes
		11.8	17.6	47.1	9.8	13.7				

It is clear from the above table that the weighted arithmetic mean for the opinion of employers regarding communication skills is (2.96), which indicates neutrality on this item. As for the statements, the employers expressed a neutral opinion for all statements, based on the weighted values of Likert scale.

Table (5)

Personal Skills

م	Fourth item	Strongly disagree Frequency %	Disagree Frequency %	True sometimes Frequency %	Agree Frequency %	Strongly agree Frequency %	Non response Frequency %	Weighted mean	Percentage	Standard deviation	Attitude
1	Graduate has leadership skills	2 / 11.8	1 / 5.9	7 / 41.2	2 / 11.8	5 / 29.4	0 / 0	3.41	68	1.326	Agree
2	Graduate can adapt to modern technology	2 / 11.8	3 / 17.6	5 / 35.3	2 / 11.8	4 / 23.5	0 / 0	3.18	64	1.334	True sometimes
3	Graduate enjoys the capacity of independent thinking	0 / 0	4 / 23.5	10 / 58.8	1 / 5.9	2 / 11.8	0 / 0	3.06	61	0.899	True sometimes
4	Graduate has a high professional ethics	2 / 11.8	2 / 11.8	8 / 47.1	2 / 11.8	2 / 11.8	1 / 5.9	3.00	60	1.155	True sometimes
5	Graduate has the drive to work and develop continuous learning in the domain of work	2 / 11.8	0 / 0	12 / 70.6	1 / 5.9	2 / 11.8	0 / 0	3.06	61	1.029	True sometimes
	Personal skills	8 / 9.5	10 / 11.9	42 / 50	8 / 9.5	15 / 17.86	1 / 1.2	3.15	63	1.019	True sometimes

It is clear from the above table that the weighted arithmetic mean for the opinion of the employers regarding personal skills is (3.15), which indicates neutrality. As for the statements, the employers approved the first statement only with satisfaction rate of (68%), based on the weighted values of the five-point Likert scale.

Table (6)

Employment Skills

S.No.	Fifth item	Strongly disagree Frequency %	Disagree Frequency %	True sometimes Frequency %	Agree Frequency %	Strongly agree Frequency %	Non response Frequency %	Weighted mean	Percentage	Standard deviation	Attitude
1	Graduate has the capacity to grasp the nature of the institution work	1 / 5.9	3 / 17.6	8 / 47.1	4 / 23.5	1 / 5.9	0 / 0	3.06	61	0.966	True sometimes
2	Graduate can undertake efficiently the tasks assigned to him/her	2 / 11.8	2 / 11.8	8 / 47.1	3 / 17.6	2 / 11.8	0 / 0	3.06	61	1.144	True sometimes
3	Graduate provide creative ideas that enhance the work	1 / 5.9	3 / 17.6	7 / 41.2	4 / 23.5	2 / 11.8	0 / 0	3.18	64	1.074	True sometimes
4	Graduate is able to manage time efficiently	1 / 5.9	1 / 5.9	7 / 41.2	4 / 23.5	4 / 23.5	0 / 0	3.53	71	1.125	Agree
5	Graduate has adequate knowledge of safety and security fundamentals in the area of work	1 / 5.9	4 / 23.5	9 / 52.9	1 / 5.9	2 / 11.8	0 / 0	2.94	56	1.029	True sometimes
6	Graduate has creativity skills and innovative thinking in the domain of work	0 / 0	2 / 11.8	10 / 58.5	1 / 5.9	3 / 17.6	1 / 5.9	3.31	66	0.946	True sometimes
	Employment Skills	6 / 5.9	15 / 14.7	49 / 48.0	17 / 16.7	14 / 13.7	1 / 9.8	3.17	80	0.86	True sometimes

It is clear from the above table that the weighted arithmetic mean for the opinion of the employers regarding the employment skills is (3.17), which indicates neutrality on this item. As for the statements, the employers approved the third statement with a satisfaction rate of 71% The lowest satisfaction rate for the statement in this item was (56%) in the fifth statement, based on the weighted values of the Likert pentagonal scale.

The open questions concentrated around the following points:
1. Activating the communication channels between employers and the department.
2. The importance of training students on skills and knowledge that keep pace with the Kingdom's Vision 2030
3. Provide the basic skills needed by the labor market such as communication skills, teamwork, creative thinking, and other which called soft skills