## **ERASMUS+ ELEGANT PROJECT**

## ENTERPRISE SURVEY QUESTIONNAIRE

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## ENTERPRISE SURVEY QUESTIONNAIRE





ELEGANT is an EU-funded project aimed at improving the University-Enterprise cooperation for the benefit of all stakeholders. The objectives of this cooperation are:

- a. To improve the curricula of the IT Faculties (Computer Science and Computer Engineering areas) of universities in order to reflect the needs of the ICT sector companies and improve the employability of ICT graduates; and
- b. To facilitate the transfer of knowledge from universities to the ICT sector.

It is generally agreed that University graduates do not always possess the knowledge and skills required by companies, i.e., there is a mismatch between graduates' knowledge and skills and what the companies need.

This Enterprise Survey is designed to identify the gaps in the knowledge and skills of graduates with a view to improving their study programmes and enable the graduates to be ready for the world of employment. The survey also aims at identifying and assessing different forms of cooperation between universities and enterprises.

Your participation in this survey is therefore crucial for identifying the IT graduates' knowledge and skill gaps. The survey is voluntary and you can stop the interview at any time if you so wish. The results of individual questionnaires will not be discussed or shared with anybody outside the research team. The overall results will be published in aggregate form for the benefit of universities and government departments dealing with higher education institutions.

The Lebanese participating institutions of the ELEGANT project (Modern University for Business and Sciences, Beirut Arab University and the Syndicate of Computer Sciences of Lebanon) are grateful for your time.

## I. GENERAL QUESTIONS ABOUT THE COMPANY

- 1. Name of Company:
- 2. Location (Town/City) Website Address:
- 3. Legal status:
  - a. Individual proprietorship
  - b. Partnership
  - c. Corporation (joint stock company)
  - d. Other (please specify)
- 4. Ownership:
  - a. Domestic

b. Foreign c. Joint venture		
5. Sector of activity:  Please indicate your main sector of activity:		_
6. What is your position in the company?  a. Manager/Owner/CEO  b. Manager or a member of staff of Human Resources Depart c. None of the above	rtment	
If the answer is (c), please terminate the survey.		
7. Year of establishment:		
8. Number of employees in your enterprise at the end of 2019:		
9. On average, what proportion (%) of your company's sales in the la 2019) was from exports?%	ast 3 ye	ars (2017, 2018 and
II. SKILLS AND KNOWLEDGE GAPS OF IT GRADUATES	AND T	RAINING
10. Do you think there is a significant gap or deficiency (at least in s skills and knowledge of recent computer science or computer engine have employed or considered for employment and the skills and knowledge?	eering g	raduates that you
a. Yes b. No (please go to Question 16)		
11. If yes, please specify the general areas where you feel there are only those areas that are relevant to your company). You may select		· <del>-</del>
<ul> <li>a. Programming</li> <li>b. Artificial Intelligence and Machine Learning</li> <li>c. Data Science and Big data</li> <li>d. Cybersecurity</li> <li>e. Internet of Things</li> <li>f. Telecommunication</li> <li>g. Hardware and Embedded Systems</li> <li>h. Web design and related areas</li> <li>i. Cloud Computing</li> <li>j. Others (please specify)</li> <li>12. How big is the gap between the skills and knowledge of your re</li> </ul>	cently e	employed
university graduates and the skills and knowledge your company ne (please mark only those areas that are relevant to your company)?	_	
1 2 3	4 :	Not Applicable

a. Programming b. Artificial Intelligence and Machin c. Data Science and Big data d. Cybersecurity e. Internet of Things f. Telecommunication g. Hardware and Embedded Systems h. Web design and related areas i. Cloud Computing j. Others (please specify)  13. In addition to the technical and subject rexpected to have some or all of the followin From your point of view, how important are	elated g skill	knowles (some	etimes 1			
	1	2	3	4	5	Not Applicable
1 = Not important; 5= Very important						TT ·····
a. Leadership skills b. Problem solving skills c. Communication skills d. Digital business skills e. Creative thinking f. Teamwork g. Cultural awareness h. Knowledge of a foreign language i. Others (please specify):		employe	ed univ	ersity g	raduates	s meet your
	1	2	3	4	5	Not Applicable
1 = To a large extent; $5 = Only to a small ex$	tent					
a. Leadership skills b. Problem solving skills c. Communication skills d. Digital business skills e. Creative thinking f. Teamwork g. Cultural awareness h. Knowledge of a foreign language i. Others (please specify)						

1 = Minor gaps; 5= Very large gaps

	lo you close the g el your company i	-			_			v employees
a. b. c. d. e. f.	On the job training Training through Training through Training through Self-study by new Others (please sp	universities (on l private companio government supp employees	es (on li ported so	ne/face chemes	to face)		face)	
III. HIRI	NG PROCEDUI	RES						
16. In you	r hiring procedur	es, how relevan	t are the	e follov	ving fac	tors?		
			1	2	3	4	5	Not Applicable
1 = Not re	elevant; 5= Very	relevant						
b. c. d. e.	Formal education The reputation of Recommendation Work experience. Other (please spe  DUATE EMPLO you employed any	f institution they from trusted pectify):	graduc ersons — PERIEN	nted fro	m			
a.	Yes	b. No				vere unsu	-	l
	how extensively employees?	were the follow	ing me	thods u	sed to r	each yo	ur pros	pective
			1	2	3	4	5	Not Applicable
1 = Not us	sed at all; 5= Use	ed extensively						
b. c. d. e. f. 0 g. h.	Public announcer Recommendation Through the Nation Through partner Through universi Graduates approa Internships and s Others (please sp	s from friends, jonal Employmen universities (if career centre ach our company cholarships offerecify):	nt Offic applicates sy ered to t	e ble) univers	ity stud	ents	ective g	raduate

employees?

- a. Lack of necessary technical skills b. Lack of other skills (such as communication, teamwork, leadership, problem solving, cultural awareness and language skills). c. Incompatibility of personal characteristics with your company's culture d. Others (please specify): 20. How would you rate the contribution of your graduate employees to the following activities of your company in the past three years? 1 2 3 4 5 Not Applicable 1 = Not important; 5= Very important a. Developing ideas for new or improved products and services b. Engaging with, and embracing, new technologies c. Widening the company's network d. Others (please specify):\_\_\_ IV. UNIVERSITY-ENTEPRISE COOPERATION 21. Over the past three years have you cooperated with universities? a. In your country Yes No b. Abroad Yes No If answer is yes, please continue with the next question. If the answer is no, please go to Question 25. 22. Which of the following describes best the nature of your cooperation with universities? You may select more than one answer. a. Participation in university events (teaching, conferences and seminars) b. Participation in curriculum development c. Internships offered to university students d. Knowledge and technology transfer to support the company's product or process development e. Training or further study for Company employees f. Joint applications for nationally or internationally funded projects g. Others (please specify) 23. What motivated your cooperation with universities? You may select more than one
  - answer.
    - a. Government funded programmes
    - b. Public procurement of services or goods
    - c. Domestic funded project
    - d. Internationally funded project (e.g. EU-funded CBHE, etc.)

f. You	iversity approd er company app ners (please sp	proached the U	Universi	•				
24. How wou	ıld you evaluat	e your cooper	ation wi	th univ	ersities	?		
a. Excellent	b. Good	c. Fair	d. Po	oor	e. Vo	ery Poo	r	
	pinion, how imy of graduates?	_	e follow	ing for	ms of co	ooperati	ion for i	mproving the
			1	2	3	4	5	Not Applicable
1 = Not impo	ortant; 5= Very	y important						
c. Net d. Set e. Inte f. Uni g. Kne h. Oth  26. Does you a. W b. W c. W	iversity staff powork of alumn ting up university and so versity-based to wersity-based to wers (please sport for company offer offer internshift e are willing to be do not offer in	sity-enterprise sholarships to training progratechnology transecify):  Ter internships ips to university consider offerinternships  AND FUTUR	coopera recruit is rammes f asfer from to unive y students ng interns	ation ce talented for ente m unive ersity str s ships if	entres I studente I st	ats taff to the bare versity ap	pproache <b>TS</b>	s us
			1	2	3	4	5	Not Applicable
1 = Not signi	ficant; 5= Ver	y significant						TT
b. Los c. Abc d. Los e. Los f. Del	ss of domestic sass of foreign sa andonment of r ass of establishe ass of skilled em ays in producta aers (Please sp	ules new product/se ed supply lines uployees in the ion and other i	IT Depo business	artment activit		innova	tions	

	1	2	3	4	5	Not Applicable
1 = Not important; 5= Very important						
a. Transition to digital communi	cation wi	th custo	mers a	nd supp	liers	
b. Penetration of new market nic						
c. Adjustment to work in virtual			O			
d. Use of social media to promot		siness				
e. Application for public funds	•					
· · · · · · · · · · · · · · · · · ·						
f. Change management						
f. Change management g. Others (please specify):			-			
g. Others (please specify):			-  - 1		.C	<b>f</b>
<ul><li>g. Others (please specify):</li><li>29. In your opinion, how relevant will the property of the p</li></ul>	ne followi Covid-19	world?		•		
<ul><li>g. Others (please specify):</li><li>29. In your opinion, how relevant will the property of the p</li></ul>	ne followi	_	ds be for	the per	forman 5	Not
g. Others (please specify):29. In your opinion, how relevant will the enterprises in your industry in the post-0	ne followi Covid-19	world?		•		Not
g. Others (please specify):29. In your opinion, how relevant will the enterprises in your industry in the post-0	ne followi Covid-19	world?		•		Not
g. Others (please specify):29. In your opinion, how relevant will the enterprises in your industry in the post-0.  I = Not relevant; 5= Very relevant  a. Virtual team working skills	ne followi Covid-19 1	world?		•		Not
g. Others (please specify):29. In your opinion, how relevant will the enterprises in your industry in the post-0	ne followi Covid-19 1	world?		•		Not
g. Others (please specify):	ne followi Covid-19 1	world?		•		Not
g. Others (please specify):  29. In your opinion, how relevant will the enterprises in your industry in the post-open section of the post-o	ne followi Covid-19 1 media)	world?		•		

THANK YOU FOR YOUR TIME. YOU HAVE BEEN MOST GENEROUS AND HELPFUL.