

JUST-Liaison Office Report -ELEGANT Project

1. Memorandum of Understanding (MOUs).

The aim of this MOU is to find a formal agreement and partnership with a set of IT enterprises in Jordan in order to collaborate with them for a set of issues regarding entrepreneurship, innovation, consulting, training for the Center of Excellence for Innovative Projects (CEIP) at Jordan University of Science and Technology (JUST).


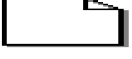
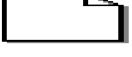
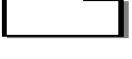
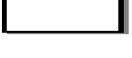
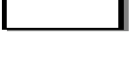
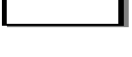
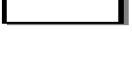
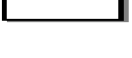
In Addition to that MOUs will nominate an internships and employment opportunities for the students of the faculty of Computer and Information Technology(CIT) that are targeted by ELEGANT. By creating many partnerships and connection with these enterprises.

An invitation has been sent to different local and international enterprises in Jordan to have a partnership and collaboration through an MOU through a set of channels like an existing external advisory board(EAB) for the CIT, a CIT graduate students in the some of the enterprises, the social relationships and communications with a leading person in some of these companies, in addition to The Information and Communications Technology (INTAJ)

Regardless if they were a signed MOU or not, many batches of students resumes had been sent to different enterprises to have either an internships or employment opportunities.

Table 1 summarizes the resent MOUs that are signed or will be signed soon, the table could be increased since the responses from other enterprises are not confirmed so far, all the information of the contacted or candidate companies are kept in a maintained database.

To summarize the contents of The MOU, it focusses on: partnerships and collaboration between the two partners in many fields such as entrepreneurships and innovation, consultation and support for the IT startups projects, internships and employments opportunities for CIT students.

No.	Date	Company	Status	Document
1	19-2-2017	Tajdeed	Refreshed 13-9-2020	
2	28-02-2021	JoLancer	Signed	
3	04-03-2021	WeTheMakers	Signed	
4	04-03-2021	Hayyan	Signed	
5	09-03-2021	Sedco	Signed	
6	31-03-2021	SecondStep	Signed	
7	27-04-2021	KTS-Jordan	Signed	
8	26-04-2021	Classera	Signed	
9	18-05-2021	Green Cycle	Signed	
10	27-05-2021	in4ma	Signed	
11	02-09-2021	altibbi	Signed	





12	26-10-2021	jo-vision	In progress	
13		Blulogix	In progress	
14		Suvana	In progress	
15		Jazri	In progress	
16		Vesalii	In progress	
17	-	Globitel	Contacted	
18	-	OpenSooq	Contacted	
19	-	MixedDimension	Contacted	
20	-	Jawaker	Contacted	
21	-	Iqr'a	Contacted	
22		Mawdoo3	Contacted	
23		Huawei	Contacted	
24	-	Atypon	Contacted	
25	-	Zamzam Exchange	Contacted	

Table1: MOUs with enterprises

2. Seminars

A set of seminars were organized through ELEGANT liaison office at CEIP-JUST table2(1 to 6). These seminars served directly the ELEGANT project objectives, they were presented online because of the pandemic and close regulations by people with different backgrounds: CIT college professionals, enterprises and expertise of special IT domains.

In addition, CIT, on its own, organized a set of seminars, that also intersect with ELEGANT project (7 to10).




No.	Date	Title	Company/Presenter	Attendees	Document	Organizer
1.	18-2-2020	Microsoft Day	Microsoft	-		ELEGANT @CIT
2.	20-2-2020	Data Science and AI	Jordan Open-Source Association	-		ELEGANT @CIT
3.	27-2-2020	Space Science and AI	AstroJo institute	-		ELEGANT @CIT
4.	01-03-2020	Microsoft Azure	Microsoft, NEXT	-		ELEGANT @CIT
5.	02-11-2021	The latest Trends in AI and Machine Learning in Industrial Applications	Dr. Isalm Shedefat, Jo-Vision Com.	70	 Document	ELEGANT @CEIP
6.	19-11-2020	The Role of the IOT in Promoting Industrial Development and Entrepreneurship	Shamal Start	10	 Document	ELEGANT @CEIP
7.	19-11-2020	Artificial Intelligence and Entrepreneurship	Mr. Hani Al-Shatter	13	 Document	ELEGANT @CEIP
8.	21-11-2020	The Effect of Using Robots on the Quality of Education	Ahmad Tawalbeh	37	 Document	ELEGANT @CEIP
9.	28-11-2020	Protein Structure Determination as a Computational Problem	San Antonio University	-		ELEGANT @CIT

10.	06-01-2021	Online Freelancing: A real opportunity for the Future	JoLancer	16	Document	ELEGANT @CEIP
11.	20-01-2021	The things we love at WeTheMakers	WeTheMakers	10	Document	ELEGANT @CEIP
12.	19-12-2021	Internship and Employment Program at Classera Company	Eng. Hudhayfa Al-Zaben- Classera, Eng. Abdullah Abu Touq -Classera	53	Document	ELEGANT @CEIP
13.	22-12-2021	Financial management of start-ups	Dr. Omar Al-Basoul	13	Document	ELEGANT @CEIP

Table2: the list of seminars

3. Workshops

During the last few months, the following workshops and webinar (table 3) were organized by CEIP and CIT in collaboration with a variety of speakers with different experiences and topic areas such as: problem solving and Competitive programming, ethical hacking and cyber security, communication skills and other market-related issues. Again, CEIP and CIT organized these workshops as mentioned in the table, CEIP organized the workshops 1 to 6 and the rest organized by the CIT.

No.	Date	Title	Presenter	Attendees	Document	Organizer
1.	25-02-2020	Google developers	Google			ELEGANT@CIT
2.	16-11-2020	The innovative group of Cyber Security and Ethical Hacking.	CIT-JUST	30	 Document	ELEGANT@CEIP
3.	18-11-2020	Innovative Competitive Programming Group	CIT-JUST	30	 Document	ELEGANT@CEIP
4.	11-12-2020	How to Enhance CIT Fresh Graduates Employment Opportunities from Academic and Industry Point of View	List of companies, faculties, Alumni	30	 Document	ELEGANT@CEIP
5.	31-12-2020	Cybersecurity workshop	Green cycle	16		ELEGANT@CIT
6.	05-01-2021	Panel discussion on Cybersecurity	CIT-JUST Alumni	37	 Document	ELEGANT@CEIP
7.	25-03-2021	Employment and Internships opportunities at Second Step Software Development – Jordan	Second Step	50	 Document	ELEGANT@CEIP
8.	01-04-2021	Digital Forensics Webinar	Ameer Al-Nemrat University of East London (UEL), UK.	19		ELEGANT@CIT
9.	08-04-2021	The Guide to Getting Your First Job	Globitel	80	 Document	ELEGANT@CEIP
10.	08-09-2021	Arab Security Cyber Wargames	Cyber Security	4		ELEGANT@CEIP&CIT


			Innovation Group			
11.	27-09-2021 06-01-2022	Introduction to Arduino	Digital Fabrication Innovation Group	13	 Document	ELEGANT@CEIP
12.	29,30,31-10-2021	JCPC Programming Contest	Programmin g Innovation Group	30		ELEGANT@CEIP
13.	13-11-2021	JUST CTF 3	Cyber Security Innovation Group	140		ELEGANT@CEIP&CIT
14.	03-12-2021	ACPC Programming Contest	Programmin g Innovation Group	6		ELEGANT@CEIP&CIT

Table3: The list of workshops

4. Projects-Expert Company Involvements

Both CEIP and the CIT have been involved in a set of industry-related projects. The involvements are carried out through the CIT students in terms of contests to leverage their skills in different topics such as AI, mobile application, presentation, and research.

No.	Date	Title	Company	Organizer	Teams
1.	18-02-2021 18-04-2021	Mowjaz Multi-Topic Labelling Task	Mawdoo3	ELEGANT@CEIP	47
2.	11-02-2021	Australia promotion App.	Australian Embassy- Amman	ELEGANT@CEIP&CIT	7
3.	18-02-2020	JUST induction at CERN	CERN	ELEGANT@CEIP&CIT	4
4.	13-09-2020	Seeds for future	Huawei	ELEGANT@CEIP&CIT	6
5.	11-08-2021	Seeds for future	Huawei	ELEGANT@CEIP&CIT	-
6.	27-09-2021	Huawei Innovation Competition 2021	Huawei	ELEGANT@CEIP&CIT	1

Table4: The list of Projects-Expert

5. Projects: Industry-related projects

Table5 summarizes the number of projects that are implemented by the students in each department of the CIT for the second semester of 2021. The topic of each project is chosen

to handle a common problem and provide a solution by building an application. The idea behind each project is closely related to the industry which will give the students credit and added value when they approach the market later on for future jobs.

The MOU also encourages the enterprises to suggest project ideas from real life and participate in the evaluation of CIT graduation projects or even the start-up companies based on such projects.

No.	Semester	Department	Groups
1.	2 ^{ed} 2020/2021	Computer Science(CS)	13
2.		Computer information Systems(CIS)	13
3.		Software Engineering(SE)	26
4.		Computer Engineering(CPE)	13
5.		Network Engineering and Security(NES)	9
		Total	86

Table5: The list of industry-related projects

Table 6 is a sample suggested projects for the students of computer science department and computer information systems in the second semester 2021.

No.	Semester	Title	Dept.	Groups
1.	2 ^{ed} 2020/2021	Online education system for schools	CS Department	11
2.		Distance monitoring of Covid-19 patients		1
3.		Jordan Covid-19 health map		1
4.		Laundry shop management system	CIS Department	1
5.		Health consulting system		1
6.		Smart parking @ JUST		1
7.		Car Damage Detection Using Deep Learning		1
8.		Zeppelin: Detecting face shape using deep learning		1
9.		JUST Bus Tracking		1
10.		taxi sharing		1
11.		University regulations page enhancement		1
12.		FPD stay safe: A project for the Jordanian Family Protection Department		1
13.		Merging Images in a Smart Way		1
14.		Electronic educational platform (ABC Platform)	1	
15.		appointment booking system	1	
16.		Irrigation water management system	1	
17.	2 ^{ed} 2020/2021	Race Cars 2021	SE Department	3
18.		E- Fitness System		3
19.		Blood Bank		3

20.	JOUR	3
21.	HandyMan Flex	3
22.	Expense Management System	4
23.	GeoEvent	2
24.	Medical Herbs Application	3
25.	The Fallen Mage	2
26.	Salehli Application	3
27.	Graduation Project Management	2
28.	Restaurant Ordering System	3
29.	Student Progress Tracker	4
30.	Jordanian COVID-19 Tracking Website	3
31.	'We Care' Clinics Reservation Website	2
32.	Health Care Tracking System	4
33.	"EZ Store" _Inventory management system (IMS)	3
34.	Diagnostic Learning Difficulties Game	2
35.	My Assistant	4
36.	Knowledge based Learning Management using Interactive Content	4
37.	BLINK System	3
38.	Craftsman App	4
39.	The 3D Virtual Store	4
40.	Items Donation App & Maps	2
41.	Homemade Food Providers	3
42.	Hobby Hub	4

Table6: A sample of project titles

6. Students in placement

The five departments at the CIT offer a 3-hour mandatory course of PRACTICAL TRAINING which should take place on one of the IT enterprises for about 8 weeks. The number of registered students is 139, many of them with an internship in a suitable enterprise (about 65).

The table below takes a glance at these enterprises and the number of students in placement at each, and the role of ELEGANT liaison office.

The complete list has been requested from the person in charge at the CIT and it needs a couple of days to be prepared.

Among the efforts of the liaison office in this activity: contact as many enterprises as possible to have an MOU with them or, at least, to have some channels to link more students with their internship programs (since most of this task is handled privately depending on faculties or student's effort); search for new enterprises to extend the range of possible choices for

student's internships; and enhance employment opportunities as mentioned in the MOU part above.

These activities are carried out by collecting the necessary information, including resumes, about the pre and post graduate students as well as their ranks, grades, skills and graduation projects and try to link them with the enterprises database through seminars and workshops as well as social media posts. The database of the student is regularly maintained and updated.

No.	Company	Student in placement	ELEGANT Actions
1.	Apps Factory	2	
2.	Classera	3	<ol style="list-style-type: none"> 1. Sign the MOU 2. Working on virtual internships platform with them. 3. Send a set of students resumes to them 4. Make a seminar about company. 5. it's a member of EAB for CS department.
3.	Mawdoo3	3	<ol style="list-style-type: none"> 1. 3 students get a job offer. 2. Organize the Mowjaz AI contest. 3. Send a set of students resumes to them
4.	Tajdeed	1	<ol style="list-style-type: none"> 1. Refresh the assigned MOU. 2. One student is employed 3. Send 3 batches of students resumes
8.	Second Step	2	<ol style="list-style-type: none"> 1. Sign an MOU with them 2. Make a seminar about company. 3. Nominate the students each semester
10	Sociumtech	2	
13	Green circle	2	<ol style="list-style-type: none"> 1. Sign an MOU with them 2. Support Cyber Security Group contests participation. 3. Nominate the students each semester.
14	We The Makers	5	<ol style="list-style-type: none"> 1. Sign an MOU with them 2. 3 students get an internship. 3. Make a seminar about company. 4. Nominate the students each semester.
15	Arab Bank	1	<ol style="list-style-type: none"> 1. Nominate a CIT student
16	altibbi	4	<ol style="list-style-type: none"> 1. Sign an MOU with them. 2. Nominate the students

17	Sedco	6	<ol style="list-style-type: none"> 1. Sign an MOU with them. 2. Nominate the students each semester
18	Jo-Vision	2	<ol style="list-style-type: none"> 1. Sign an MOU with them. 2. Nominate the students each semester. 3. The company has an incubator in CEIP
19	Globitel	1	<ol style="list-style-type: none"> 1. Send a MOU invitation. 2. Nominate the students each semester.

Table7: Students in placement (Sample Data)

7. Other Activities

7.1 Virtual Internships Platform

The idea behind this platform is to respond to the pandemic situation or any future crises. It also helps resolving the accelerated demands on internships from the academic institutions and the resource limitations in industry.

The VIP as we imagine will offer a linkage portal for the partner enterprises and students to exchange the internships and employment opportunities on one side and market the skilled candidates on the other.

Based on the contacts and discussions made with the enterprises, given their business and experience, this platform is suggested to be build.

We already have a basic technical proposal from one of these enterprise which came out after a set of meetings. Currently, we are working on the finical offer and the formal proposal before sending it to ELEGANT for approval.

7.2 External Advisory Board for Computer Science Department

A set of contacted IT enterprises were nominated to be as a member in the advisory board for the computer science department in addition to the liaison officer of ELEGANT. One of the most important objectives of this board is to enhance the department curriculum from the industry point of view, which exactly meet the ELEGANT goal. The first meeting took place on 29-4-2021.

7.3 Creating a Facebook group ([JUST To Job | Facebook](#))

This is a public group created on 6-9-2020, to facilitate contact with the students. It contains, so far, 1000+ members ranging between pre-graduate, post-graduate, alumni students,



faculty members, and people from the industry to share posts about recent internships programs or job vacancies, and to announce any related seminars or workshops.

8. Future activities

- 8.1 Arrange for more seminars and workshops with the contacted enterprises.
- 8.2 Follow up on the unsigned MOUs, and contact more enterprises
- 8.3 Work on the Virtual Internships Platform once we get the approval.
- 8.4 Update the student database and send new batches to all enterprises.
- 8.5 Work in increasing the number of student in placement at the enterprises.

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03-01-2022