



Faculty of Engineering

Mechatronics Engineering Department

1066

Community Service Training

Final Course Project

31 May 2020

COVID-19

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Spring 2019-2020

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Abstract

Coronaviruses are a large family of the viruses (Covid-19 one of this family) that cause illness from the common cold to more severe diseases. **COVID-19** is an infectious disease caused by a newly discovered coronavirus (severe **acute respiratory syndrome coronavirus 2 (SARS-CoV-2)**). (Covid-19) is the greatest threat facing the countries of the world (developed and developing),as this virus caused a humanitarian, economic ,and social crisis that affected the fundamental rights of citizens. Egypt is one of the countries that were affected economically, socially, healthly , educationally, environmentally, and touristly by the Corona virus. Italy was also affected by the coronavirus ,and we will compare between the health status of Egypt and Italy using graphs and statistics.

Chapter 1:

Introduction

The Corona Virus crisis hit the economic sectors in Egypt, and caused to Stopped the tourism activities ,Close touristic sites , all public places ,archaeological sites ,mosques ,and churches ,suspended schools, universities(suspension of studies leded to use the online Learning which students suffered from it) ,and cancel Gatherings. the numbers of confirmed cases increase, due to the behavior of citizens .street traffic decreased, and the quarantine is expected to achieve an improvement in the environment.

Chapters 2

Economically

Corona virus affected the Economic sectors in Egypt strongly. The global effect of COVID-19 spread to the Egyptian economy, causing hardships to the sectors of **Tourism**, and **Manufacturing**, and the **Stock exchange**; unlike food and retail sectors. The viral pandemic only affects 15 percent of agricultural exports. Transportation **has** seen a 95 % drop in passenger numbers due to the spread of coronavirus and the state's preventative measures. COVID-19 affected **Cairo Metro** (as The Cairo Metro is running on an amended schedule), **Internet** (An increase in mobile internet usage by 18% and increase in home internet by 87%). and also affected the Egyptian sport and football.

Suez Canal (Traffic through Egypt's Suez Canal has not been affected by the coronavirus pandemic and shipping is proceeding at normal rates).



Tourism

THE IMPACT OF CORONAVIRUS ON TOURISM IN EGYPT

Tourism is one of the main sources of income in Egypt, and Coronavirus caused a halt in it. The Egyptian government has taken many decisions that will reduce the spread of COVID-19:

The Egyptian government has closed airports and stopped the travel from Egypt or travel to another country.

The government has cleared all hotels, and all tourist areas visited by tourists according to the recommendations of the World Health Organization.

(Marsa Alam as quarantine area)

the quarantine hotels (in Marsa Alam city, South the Red sea) were sterilized, and their staff were trained on prevention and health measures in accordance with the standards of the World Health Organization.

As it received the first group of Egyptians from abroad, to spend the quarantine period, to avoid the outbreak of the Corona virus.

(a number of 293 Egyptian adults and 13 infants were quarantined for 14 days after they were repatriated from Washington, US) the returnees underwent medical examination for Covid-19 upon their arrival at Marsa Alam Airport.

Socially

The Egyptian government forced Extraordinary measures to close the Borders and cancel Gatherings. Education in schools, universities, and prayer in mosques and churches was suspended till the situation improves. Close all public places and archaeological sites. Quarantine and emergency measures to limit the spread of the virus.

The Egyptian government has disinfected all governmental buildings, universities. public transport, roads, and trains. It spread a big campaign in all means of media to educate the people against the danger of virus.

But, many irregular workers in Egypt are turning a blind eye to the curfew and measures imposed by authorities and heading to work, as they are concerned about making ends meet.



Chapters 3

Educationally

With public and private schools and universities closed because of Covid-19, measures to secure the academic future of students have included the rolling out of online learning platforms as well as the postponement and sometimes cancelling of exams. Final exams from third year primary school to eighth grade have been cancelled, but students are required to submit a research paper in every subject online and More than one student can participate in the research. and those who don't submit the required research paper will start the upcoming academic year two weeks earlier than scheduled. The Higher Education Ministry along with the Supreme Council of Universities has cancelled mid-term testing for all public and private universities and postponed final year exams until 30 May. A number of universities have adopted their own plans to adapt to the new circumstances. (using Zoom APP, LMS, and WhatsApp group to contact with the students). final exams for all university's students (excepted graduation students) according to the course professor (project or exam or research paper).



Healthy and the government cautions and precaution

The epidemiological situation of (COVID-19) in Egypt remains stable by comparing with global rates. but in the current status; the numbers of confirmed cases increase, and the reason for this increase in numbers "is due to the behaviour of citizens, which must be changed, to we can coexist with Corona, until a vaccine appears. The Egyptian government has taken several steps to avoid the spread of the Corona virus: Launch a website that monitors statistics of virus infections worldwide, Airlines suspended, postponed sports activities and events, suspended all activities that included any gatherings of citizens, suspending studies in schools and universities, Awareness campaigns to protect from the virus, Publishing the symptoms of virus through different media, Cancel the electronic fingerprint, and deployment of medical teams in the Egyptian Streets.

Environmentally (less pollution Ozone depletion)

Although Egypt is under a partial lockdown, forcing people to learn ,stay, and work at home. but, behind this change and a fear of the unknown, coronavirus has brought advantages. AS the quarantine is expected to achieve an improvement in the environment especially the Atmosphere(As street traffic decreased, pollution rates decreased, and the huge ozone hole over the North Pole began to prepare to close. Aviation traffic has fallen to near zero levels, bringing with it the rate of carbon dioxide emissions in the world).

Chapter 4

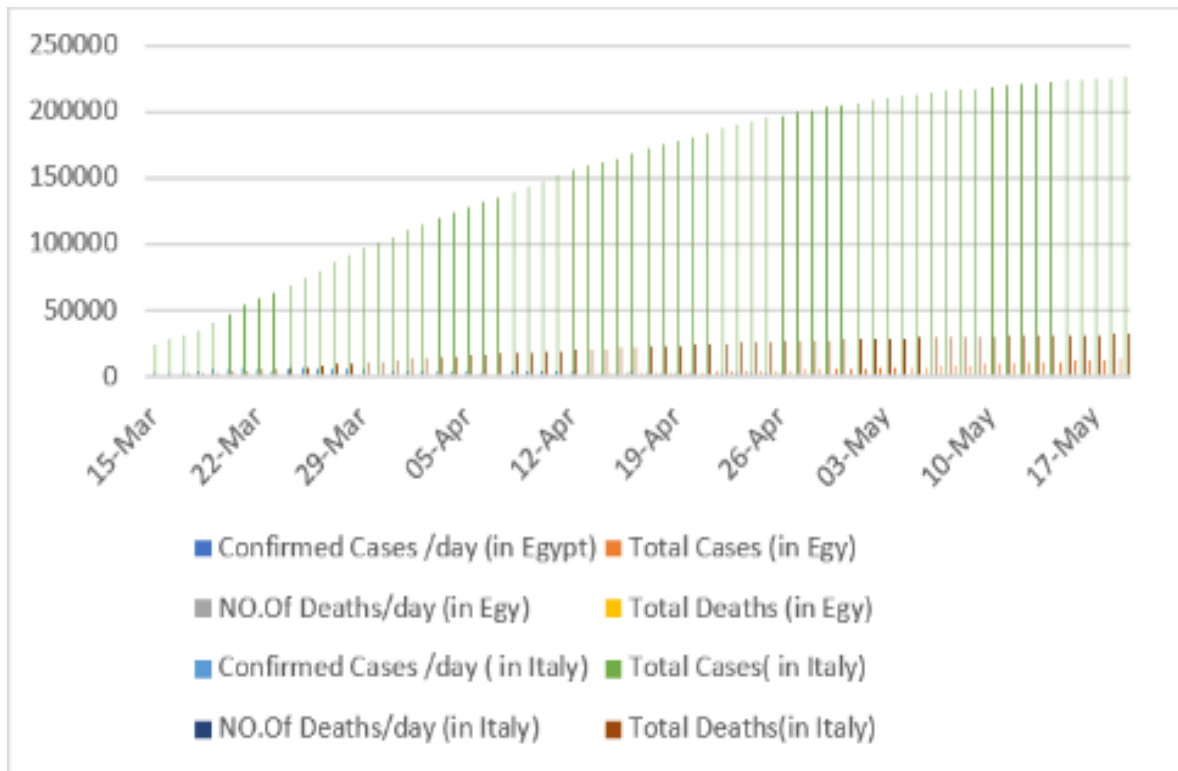
Comparing between the health status of Egypt and Italy using graphs and statistics.

	Confirmed Cases /day (in Egypt)	Total Cases (in Egy)	NO.Of Deaths/day (in Egy)	Total Deaths (in Egy)	Confirmed Cases /day (in Italy)	Total Cases(in Italy)	NO.Of Deaths/day (in Italy)	Total Deaths (in Italy)
15-Mar	12	126	2	2	3509	25000	368	1809
16-Mar	40	166	2	4	3000	28000	349	2158
17-Mar	30	196	2	6	2749	31506	345	2508
18-Mar	14	210	0	6	4207	35713	475	3000
19-Mar	46	256	1	7	5322	41035	427	3405
20-Mar	29	285	1	8	5986	47021	627	4032
21-Mar	9	294	2	10	6500	53578	793	4825
22-Mar	33	327	4	14	5560	59138	651	5476
23-Mar	39	366	5	19	4789	63927	602	6077
24-Mar	36	402	1	20	5249	69176	743	6820
25-Mar	54	456	1	21	6800	74386	683	7503

26-Mar	39	495	3	24	6153	80539	712	8166
27-Mar	41	536	6	30	5959	86498	969	9134
28-Mar	40	576	6	36	5974	92472	889	10023
29-Mar	33	609	4	40	5217	97689	756	10779
30-Mar	47	656	1	41	1648	101739	812	11591
31-Mar	54	710	5	46	4053	105792	837	12428
01-Apr	69	779	6	52	4782	110574	727	13155
02-Apr	86	865	6	58	4668	115242	760	13915
03-Apr	120	985	8	66	4585	119827	766	14681
04-Apr	85	1070	5	71	4805	124632	681	15362
05-Apr	103	1173	7	78	4316	128948	525	15887
06-Apr	149	1322	7	85	3599	132547	636	16523
07-Apr	128	1450	9	94	3039	135586	604	17127
08-Apr	110	1560	9	103	3836	139422	542	17669
09-Apr	139	1699	15	118	4204	143626	610	18279
10-Apr	95	1794	17	135	3951	147577	570	18849
11-Apr	145	1939	11	146	4694	152271	619	19468
12-Apr	126	2065	13	159	4092	156363	431	19899
13-Apr	125	2190	5	164	3153	159516	566	20465
14-Apr	160	2350	14	178	2972	162488	601	21066

15-Apr	155	2505	5	183	2667	165155	578	21645
16-Apr	168	2673	13	196	3786	168941	525	22170
17-Apr	171	2844	9	205	3493	172434	575	22745
18-Apr	188	3032	19	224	3491	175925	482	23227
19-Apr	112	3144	15	239	3047	178972	433	23660
20-Apr	189	3333	11	250	2256	181228	454	24114
21-Apr	157	3490	14	264	2729	183957	534	24648
22-Apr	169	3659	12	276	3370	187327	437	25085
23-Apr	232	3891	11	287	2646	189973	464	25549
24-Apr	201	4092	7	294	3021	192994	420	25969
25-Apr	227	4319	13	307	2357	195351	415	26384
26-Apr	215	4534	10	317	2324	197675	260	26644
27-Apr	248	4782	20	337	1739	199414	333	26977
28-Apr	260	5042	22	359	2091	201505	382	27359
29-Apr	226	5268	21	380	2086	203591	323	27682
30-Apr	269	5537	12	392	1872	205463	285	27967
01-May	358	5895	14	406	1965	207428	269	28236
02-May	298	6193	9	415	1900	209328	648	28710
03-May	272	6465	14	429	1389	210717	174	28884
04-May	348	6813	7	436	1221	211938	195	29079

05-May	388	7201	16	452	1075	213013	236	29315
06-May	387	7588	17	469	1444	214457	369	29684
07-May	393	7981	13	482	1401	215858	274	29958
08-May	495	8476	21	503	1327	217185	243	30201
09-May	488	8964	11	514	1083	218268	194	30395
10-May	436	9400	11	525	802	219070	165	30560
11-May	346	9746	8	533	744	219814	179	30739
12-May	347	10093	11	544	1402	221216	172	30911
13-May	338	10431	12	556	888	222104	195	31106
14-May	398	10829	15	571	992	223096	262	31368
15-May	399	11228	21	592	789	223885	242	31610
16-May	491	11719	20	612	875	224760	153	31763
17-May	510	12229	18	630	675	225435	145	31908
18-May	535	12764	15	645	451	225886	99	32007
19-May	720	13484	14	659	813	226699	162	32169



Chapter 5

Conclusion

COVID 19 has spread rapidly throughout EGYPT and the world. and Humanity needs solidarity and leadership to defeat this Pandemic.

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