



Arab Republic of Egypt  
Ministry of Communications  
and Information Technology

# Information and Communications Technology Indicators Bulletin

September 2017 | Quarterly Issue



■ ICT Sector's Infrastructure Indicators

■ ICT Sector's Role in Development

## Indicators in Brief

Data item	Unit	Jul - Sep 2016	Apr- Jun 2017	Jul - Sep 2017	Quarterly Growth Rate(%)	Annual Growth Rate(%)
<b>ICT Sector:Infrastructure Indicators</b>						
Mobile Subscriptions	Million	96.26	100.31	99.40	-0.91	3.26
Mobile Penetration *	%	108.49	111.56	110.06	-1.50	1.57
Fixed Line Subscriptions	Million	5.90	6.29	6.54	3.92	10.78
Fixed Line Penetration *	%	7.16	6.82	6.83	0.01	-0.33
Mobile Internet Subscriptions	Million	26.18	32.07	32.76	2.17	25.15
USB Modem Subscriptions	Million	3.34	3.28	3.27	-0.08	-1.93
ADSL Subscribers	Million	4.41	4.77	4.95	3.83	12.3
International Internet Bandwidth	Gbps	1,032.77	1,213.86	1,406.12	15.84	36.15
Number of Post Offices	Post office	3926	3937	3944	0.18	0.46
<b>ICT Sector's Role in Development</b>						
Capacity Building Program Provided by ITIDA	Thousand Graduates	19.96	21.36	21.65	1.36	8.47

\* Growth rates are calculated as the difference between penetration rates in different time intervals.

- The number of internet users reached 33.7 Million users with 41.2% penetration rate according to ICT access and use by households and individuals 2016/2017
- The number of telecenters reached 77 telecenters

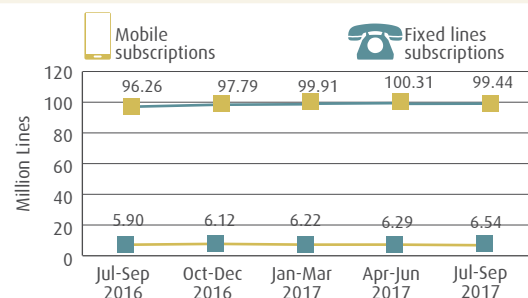
## ICT Sector's Infrastructure Indicators

- Mobile subscriptions (July-September 2017): 99.40 million
- Mobile penetration (July-September 2017): 110.06%
- Fixed line subscriptions (July-September 2017): 6.54 million
- Fixed line subscriptions in urban areas(July-September 2017): 5.22 million, rural areas 1.32 million.
- Internet users through mobile(July-September 2017): 32.76 million.
- USB Modem users(July-September 2017): 3.27 million users.
- ADSL subscribers (July-September 2017): 4.95 million.
- International Internet bandwidth (July-September 2017): 1,406.12 Gbps.
- Number of post offices (July-September 2017): 3944 Post offices.
- Number of Beneficiaries of Pensions' Payment Service through post offices(July-September 2017) 5.53 million beneficiary

### Fixed Lines and Mobile Subscriptions

■ The number of fixed line and mobile subscriptions was 105.93 million at the end of July-September 2017, compared to 102.16 million at the end of July-September 2016.

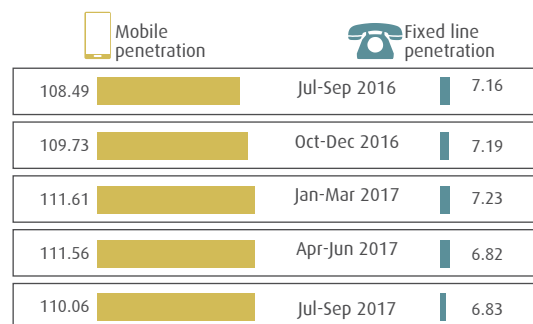
- The number of mobile subscriptions was 99.40 million at the end of July-September 2017, compared to 96.26 million at the end of July-September 2016. The mobile subscriptions recorded 94% of total telephone service.



Source:Ministry of Communications and Information Technology, Telecom Egypt, National Telecom Regulatory Authority

### Fixed Line and Mobile Penetration

■ Mobile penetration reached 110.06% at the end of July-September 2017, compared to 108.49% at the end of July-September 2016, representing an annual change rate of 1.57%. On the other hand, fixed line penetration reached about 6.83% by the end of July-September 2017.

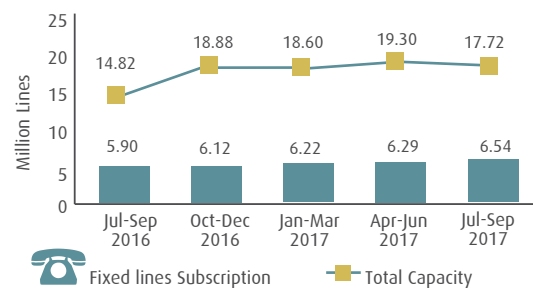


Source:Ministry of Communications and Information Technology, Telecom Egypt, National Telecom Regulatory Authority

### Fixed Lines Subscription and Local Exchange Capacity

■ Total number of fixed line subscriptions has reached 6.54 million subscriptions at the end of July-September 2017 compared to 5.90 million subscriptions at the end of July-September 2016.

- The capacity of local exchanges increased to 17.72 million lines at the end of July-September 2017, compared to 14.82 million at the end of July-September 2016. This represents an annual change of 2.89 million lines and an annual change rate of 19.52%.

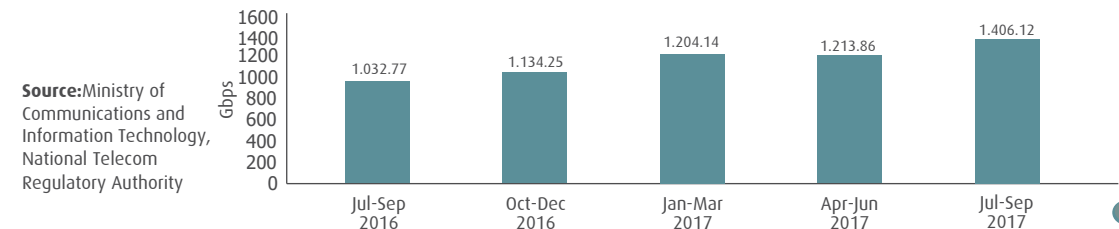


Source:Ministry of Communications and Information Technology, Telecom Egypt



### International Internet Bandwidth

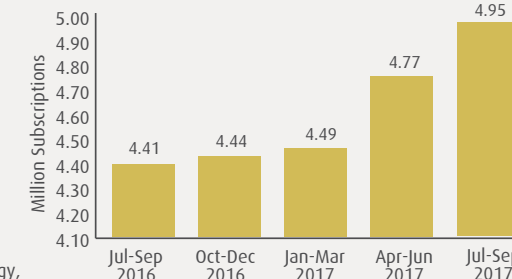
- International Internet bandwidth increased to 1,406.12 Gbps at the end of July-September 2017 compared to 1,032.77 Gbps at the end of July-September 2016 representing an annual growth rate of 36.15%.
- The international internet bandwidth per inhabitants reached 15570.0 Bit/sec. per person at the end of July-September 2017 compared to 11640.4 Bit/Sec. per person at the end July-September 2016 with and annual growth rate of 33.76%.



Source:Ministry of Communications and Information Technology, National Telecom Regulatory Authority

### ADSL Subscriptions

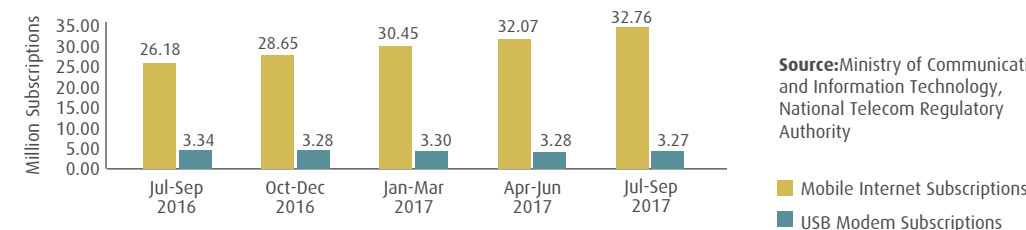
- The number of ADSL subscriptions reached 4.95 Million Subscriptions by the end of July-September 2017 compared to 4.41 Million Subscriptions at the end of July-September 2016 with an annual change 0.54 Million and annual change rate 12.3%.



Source:Ministry of Communications and Information Technology, National Telecom Regulatory Authority

### Mobile Internet and USB Modem Subscriptions

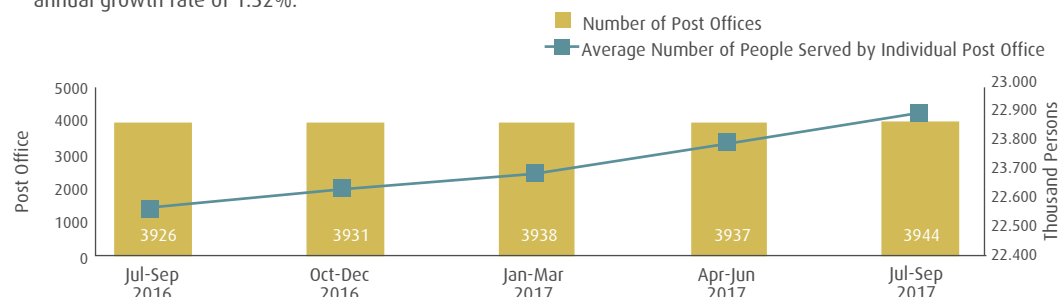
- The number of mobile internet subscriptions reached 32.76 Million Subscriptions by the end of July-September 2017 compared to 26.18 Million Subscriptions at the end of July-September 2016 with an annual change rate 25.15%.
- The number of USB Modem subscriptions reached 3.27 Million Subscriptions by the end of July-September 2017 compared to 3.34 Million Subscriptions at the end of July-September 2016.



Source:Ministry of Communications and Information Technology, National Telecom Regulatory Authority

## Post Offices

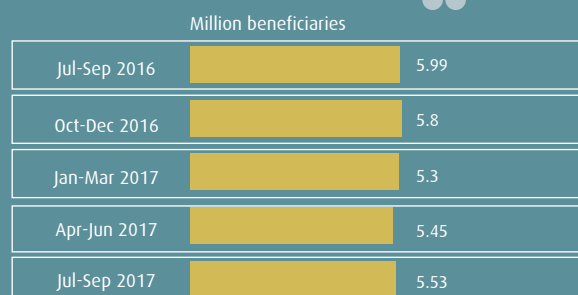
- The total number of post offices increased to 3944 at the end of July-September 2017, compared to 3926 at the end of July-September 2016, reflecting an annual growth rate of 0.46%.
- The average number of people served by individual post offices was 22,898 thousand persons at the end of July-September 2017, compared to 22,599 thousand persons at the end of July-September 2016, representing an annual growth rate of 1.32%.



Source: Ministry of Communications and Information Technology, Egypt Post

## Number of Pensions Distributed through Postal Offices

- Number of beneficiaries of pensions distributed through postal offices has increased to about 5.53 million beneficiaries in July-September 2017 compared to about 5.99 million beneficiaries in July-September 2016.



Source: Ministry of Communications and Information Technology, Egypt Post

## Number of Newly Established ICT Companies and Issued Capital

- Number of newly established ICT companies reached 333 companies in July-September 2017 compared to 193 companies in July-September 2016 with increase of 140 companies.
- Number of issued capital of newly established ICT companies reached 190.37 Million EGP in July-September 2017 compared to 66.43 Million EGP in July-September 2016.

		Jul-Sep 2017
Total number of newly established ICT companies	Companies	333
Total number of issued capital of newly established ICT companies	Million EGP	190.37

Source: Ministry of Investment, General Authority for Investment and Free Zones.



## ICT GDP at fixed prices (Billion EGP)

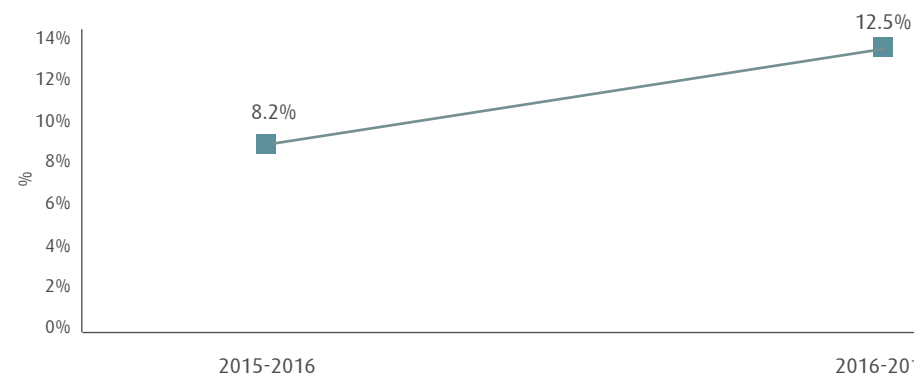
- ICT GDP for the year 2016/2017 has reached 64 billion EGP in the fixed prices of the base year of the ex-governmental plan, compared to 57 billion EGP in fixed prices that were realized in the year 2015/2016.



Source: Ministry of Communications and Information Technology, Central Department for Information, and Decision Support.

## ICT GDP Real Growth Rate (%)

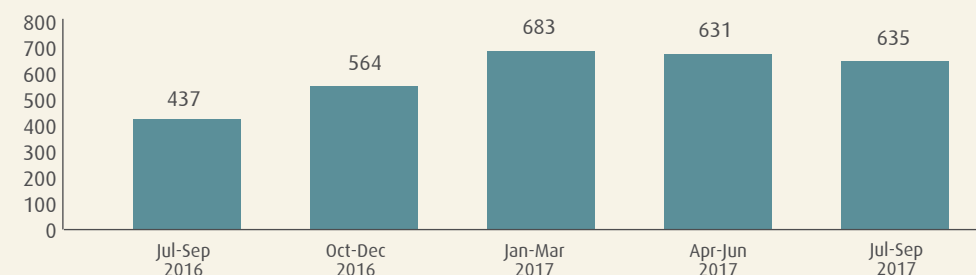
- ICT GDP real growth rate of reached 12.5% recording one of the highest sectoral growth rates on the macro-economic level in that year, compared to 8.2% realized in 2015/2016.



Source: Ministry of Communications and information Technology – Central Department for Information and Decision Support.

## Egypt's Stock Exchange Telecommunications Index

- The telecommunications index in Egypt's stock exchange reached 635 points during July-September 2017 compared to 437 points during July-September 2016.



This index includes three companies operating in the ICT Sector and listed in Egypt Stock Exchange. These companies are: Telecom Egypt, Global Telecom Holding and Orascom Telecom Media and Technology Holding.

Source: The Egypt's Exchange

## The ICT Sector's Role in Development

- Proportion of schools using computer: 96.3%.
- Proportion of schools accessing internet using fixed broadband: 32.5%.
- Proportion teachers using computer: 92%.
- Proportion students using computer: 90%.
- Proportion students using computer preparing researches, school reports and research papers: 38.4%.
- Proportion teachers using internet in preparing educational content and searching for information: 21.3%.
- Proportion teachers using computers in teaching the educational content: 44.9%.
- Number of graduates to receive software training by ITIDA till September: 21.65 thousand trainees.
- Number of graduates of ITI till September 2017: 11.54 thousand trainees.

### Infrastructure for the use of communications and information technology in schools in pre-university education sector

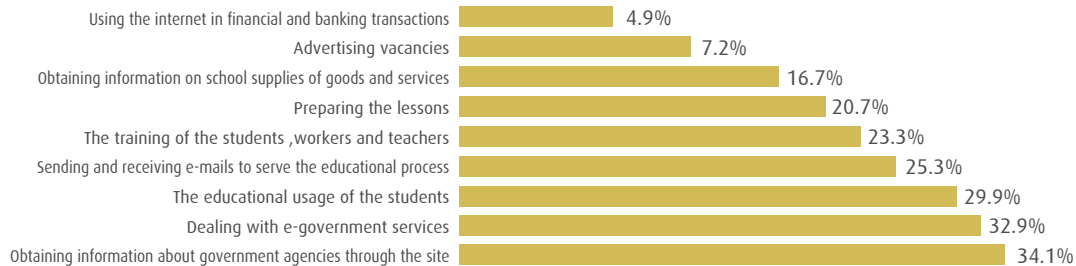
- The percentage of schools with a computer is about 96.3%, while 61.1% of schools have a fixed line. 48.5% of schools use Internet access.



Source: "survey of ICT usage in Pre University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Internet Activities Undertaken in schools

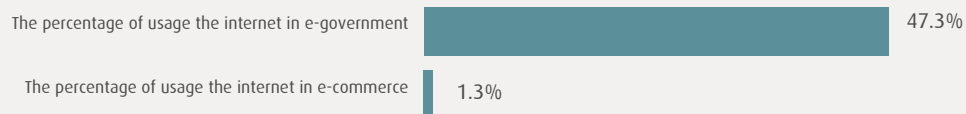
- The percentage of using the internet in schools in obtaining information about government agencies through their sites on the internet is 34.1%, 32.9% in dealing with e-government services, 29.9% in the educational usage of the students, 25.3% in sending and receiving e-mails to serve the educational process, 23.3% in the training of the students, workers and teachers, 20.7% in preparing the lessons, 16.7% in obtaining information on school supplies of goods and services, while 7.2% is in advertising vacancies, finally 4.9% in using the internet in financial and banking transactions.



Source: "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### The internet usage in e-commerce and e-government in schools

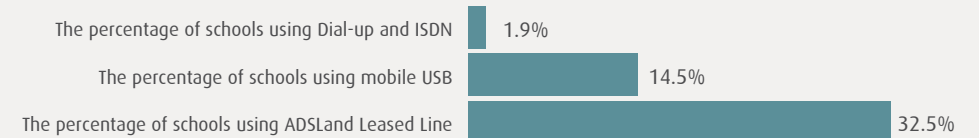
- It's clear that the percentage of the internet usage in e-government is 47.3%, on the other hand the percentage of its usage in e-commerce is only 1.3%.



Source: "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Types of internet connection in the pre-university education sector

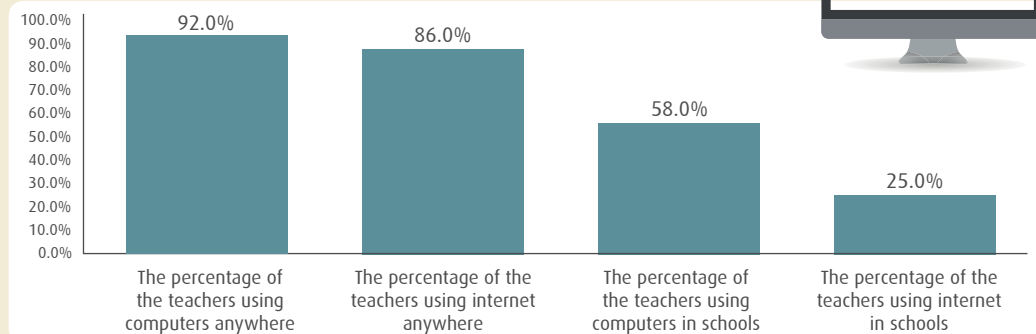
- The percentage of schools using ADSL and Leased Line 32.5%, 14.5% using mobile USB and finally 1.9% of schools using Dial-up and ISDN.



Source: "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### The teachers usage of ICT

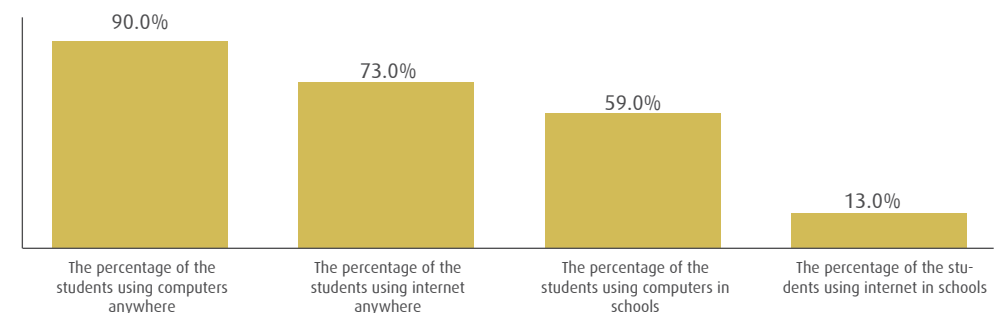
- The percentage of the teachers using computers anywhere is 92%, 86% of the teachers use the internet anywhere, 58% of the teachers use computers in schools and 25% of teachers use the internet in schools.



Source: "Survey of ICT Usage by Households and Individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Students usage of ICT

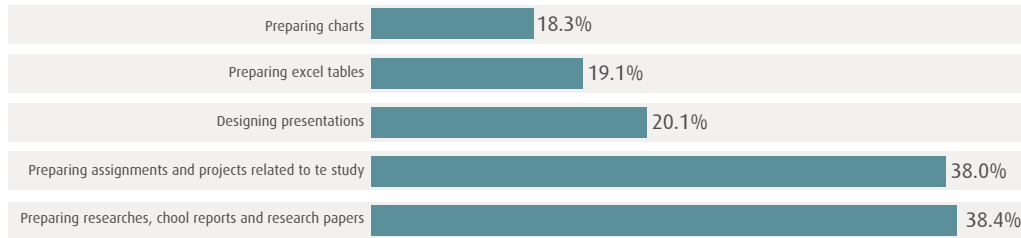
- The percentage of the students using computers anywhere is 90%, 73% of the students use the internet anywhere, 59% of the students use computers in schools and 13% of students use the internet in schools.



Source: "Survey of ICT Usage by Households and Individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Educational Activities Undertaken by Students on the Computers

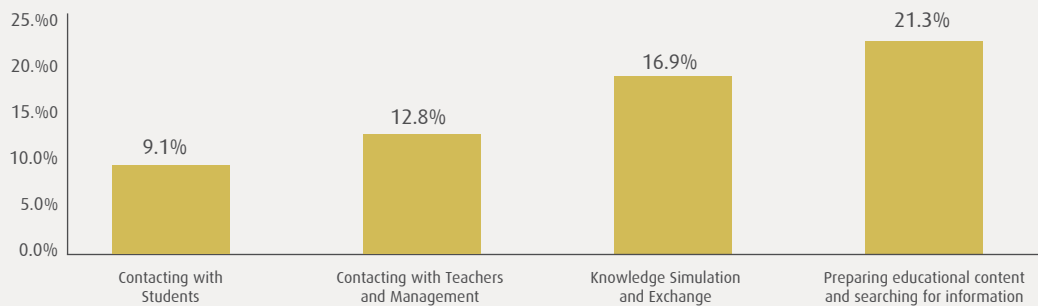
■ The percentage of the students' usage to the computers in preparing researches, school reports and research papers is 38.4%, in preparing assignments and projects related to the study is 38%, in designing presentations 20.1%, in preparing excel tables 19.1% and finally the percentage of the students' usage to the computers in preparing charts is 18.3%.



**Source:** "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS),2016/2017.

### Educational Activities Undertaken by Teachers on the Internet

■ The percentage of the teachers' usage to the internet in preparing educational content and searching for information is 21.3%, sharing knowledge / and experiences by communicating with others in your field is 16.9%, e-communication with (school administration / teachers) through e-mail / school site / social media networks..... etc is 12.8% and finally the percentage of the teachers' usage to the internet in e-communication with students through e-mail/ school site/ social media networks..... etc is 9.1%



\***Source:** "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS),2016/2017.

### Educational Activities Undertaken by Teachers on the Computers

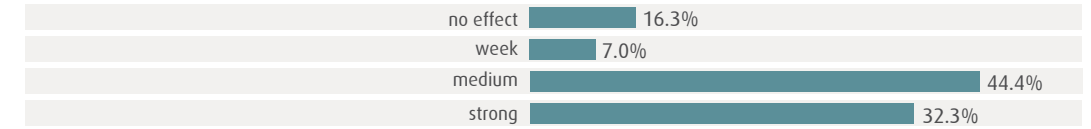
■ The percentage of the teachers' usage to the computers in teaching the educational content is 44.9%, in designing presentations and explaining the content is 40.8%, in preparing the educational content is 35.8% and finally the percentage of their usage to the computers in follow-up students and evaluating their level is 13.2%.



**Source:** "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS),2016/2017.

### The effect of ICT usage effect on students

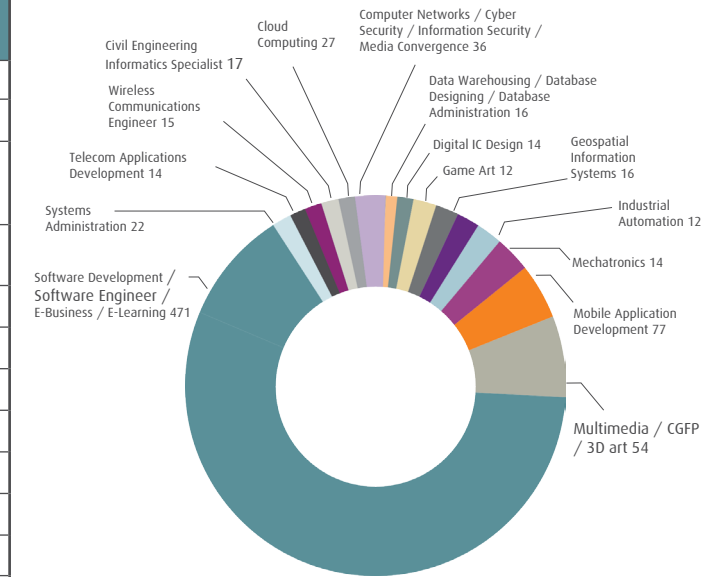
■ The percentage of the strong effect of using communications and information technology tools in the educational process on the students is 32.3%, the percentage of the medium effect is 44.4%, the percentage of the weak effect is 7.0% and the percentage of no effect is 16.3%. On the other hand, the strong effect of using communications and information technology tools in the educational process on the teachers is 36.7%, the percentage of the medium effect is 42%, the percentage of the weak effect is 5.7% and the percentage of no effect is 15.7%.



**Source:** "survey of ICT usage in Pre-University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS),2016/2017.

### Capacity Building Program Provided by Information Technology Institute (ITI)

Training Track	2017
Civil Engineering Informatics Specialist	17
Cloud Computing	27
Computer Networks / Cyber Security / Information Security / Media Convergence	36
Data Warehousing / Database Designing / Database Administration	16
Digital IC Design	14
Game Art	12
Game Development	12
Geospatial Information Systems	16
Industrial Automation	12
Mechatronics	14
Mobile Application Development	77
Multimedia / CGFP / 3D art	54
Software Development / Software Engineer / E-Business / E-Learning	471
Systems Administration	22
Telecom Applications Development	14
Wireless Communications Engineer	15
<b>Total</b>	<b>829</b>



**Source:** Ministry of Communications and Information Technology- Information Technology Institute

\*According to the latest figures.

## ICT Sector's Infrastructure Indicators

- Mobile subscribers increased to 99.40 million in July-September 2017, compared to 96.26 million in July-September 2016, representing an annual change rate of 3.26%.
- Mobile penetration reached 110.06% in July-September 2017, compared to 108.49% in July-September 2016, representing an annual change rate of 1.57%.
- Mobile Internet subscriptions increased to 32.76 million in July-September 2017, compared to 26.18 million in July-September 2016, representing an annual change rate of 25.15%.
- USB Modem subscriptions reached 3.27 million in July-September 2017 compared to in 3.34 million in July-September 2016 representing an annual change rate of -1.93%.
- ADSL subscribers increased to 4.95 million in July-September 2017, compared to 4.41 million in July-September 2016, representing an annual change rate of 12.3%.

## ICT Sectors Role in Development

- The percentage of schools connected to the internet reached 48.35% while the percentage of schools with mobile broadband reached 14.5%.
- The percentage of teachers using internet reached 86% while percentage of teachers using computers in schools reached 58%.
- The percentage of the strong effect of using communications and information technology tools in the educational process on the students is 32.3%,.
- The number of ITI graduates to receive software training till September 2017 reached 11.54 Thousand trainees.
- The number of graduates to receive software training till July-September 2017: 21.65 Thousands graduates.