



First Level					
Requirement type	Course Name	No. of Theoretical hours	No. of Practical Hours	No. of Units	Symbol
University requirements 14 units (12 compulsory units + 2 elective units)	Human Rights	1	0	1	
	Democracy	1	0	1	NTU 100
	English Language 1	2	0	2	NTU 101
	Computer Principles 1	1	2	3	NTU 102
	Computer Principles 2	1	2	3	NTU 103
	Arabic Language	2	0	2	NTU 104
	Sport	1	1	2	NTU 105
	French language	2	0	2	NTU 106
Institute requirements require 9 compulsory units	Principles	1	2	3	TINI100
	Administration Principles	1	2	3	TINI101
Specialized Requirements 32 units (29 compulsory units + 3 elective units)	Programming in C++	2	2	4	CST100
	Fundamentals Of databases in SQL	2	2	4	CST105
	Digital Logic	1	2	3	CST101
	Algorithms	2	0	2	CST102
	Fundamentals in Web Design	1	2	3	CST106
	Mathematics	2	2	4	CST103
	Programming in Java	2	2	4	CST104
	Systems Analysis	2	0	2	CST107
	Computer Maintenance	1	2	3	CST108
	Object Oriented Programming in C++	1	2	3	CST109
	Programming in Python	1	2	3	CST110
Sum		30	27	57	

Second Level

Requirement type	Course Name	No. of Theoretical hours	No. of Practical Hours	No. of Units	Symbol
University requirements 4 compulsory units compulsory units + 2 elective units)	English Language 2	2	0	2	NTU200
	professional ethics	2	0	2	NTU201
Institute requirements 2 compulsory units	Electronic business management	1	2	3	TINI200
Specialized Requirements 36 units (32 compulsory units + 4 elective units)	Data Structure	2	2	4	CST201
	Advanced Database in SQL	2	2	4	CST202
	Computer Networks	1	2	3	CST203
	Visual programming language V.B. NET	2	2	4	CST204
	Advanced in Web Design	1	2	3	CST205
	Computer Architecture	1	2	3	CST209
	Operating Systems	1	2	3	CST210
	Cryptography and Computer Security	1	2	3	CST211
	Mobile Application Development	1	2	3	CST212
	Multimedia Software	1	2	3	CST213
	Research Project	1	2	3	CST208
	Fundamentals of Computer Drawing	1	2	3	CST206
	Numerical Analysis	2	0	2	CST207
	Computer Ethics	2	0	2	CST214
Internet of Things	2	0	2	CST215	
Sum		26	26	52	

