

Section: Optics Technologies			Technical Medical College				Northern Technical University	
Level 1								
The symbol	The pavement if any	Material type	Semester	Number of units	Number of practical hours	Number of theoretical hours	Course name	Requirement type
							In English	
NTU 100		General	F1	2	-	2	Human rights and democracy	University requirements
NTU101		General	F1	2	0	2	English language	
NTU102		General	F2	2	1	1	Computer	
NTU103		General	F1	2	-	2	Arabic	
NTU104	One subject is selected.	General	F2	2	1	1	Physical education	
NTU105		General			0	2	French	
20.8%	ratio			10	1	5	Total university units	
MTC101		help	F1	4	4	2	Principles of Medical Biology	College Requirements
MTC102		help	F2	4	4	2	Medical Microbiology	
16.7%	ratio			8	8	4	Total college units	
OPT 101		Specialized	F1	5	4	3	Head and neck anatomy	Scientific Department Requirements
OPT 102		Specialized	F2	5	4	3	Eye anatomy	
OPT 103		help	F1	5	4	3	Principles of Chemistry	
OPT 104		help	F2	5	4	3	Biochemistry	
OPT 107		Specialized	F1	5	4	3	Optical physics	
OPT 108		Specialized	F2	5	4	3	Medical Physics	
62.5%	ratio			30	24	18	Total units of the scientific section	
				48			Total units of the first level	

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Level 2								
The symbol	The pavement if any	Material type	Semester	Number of units	Number of practical hours	Number of theoretical hours	Course name	Requirement type
							In English	
NTU200		General	F2	2	-	2	English language	University requirements (cognitive requirements)
NTU201		General	F2	2	1	1	Computer	
NTU202		General	F2	2	-	2	Arabic	
NTU203		General	F1	2	-	2	The crimes of the Baath regime in Iraq	
NTU204		General	F2	2	.	2	Professional behaviour	
20.8%	ratio			10	1	9	Total university units	
MTC201		help	F1	2	-	2	Medical psychology	College Requirements
MTC202		help	F2	3	2	2	Metabolism	
MTC203		General	F1	3	2	2	Biostatistics	
MTC204		---		Completed				
16.7%	ratio			8	4	6	Total college units	
OPT201		Specialized	F1	3	3	2	Physiology of the eye and vision	Departmental Specialization Requirements
OPT202		Specialized	F2	3	3	2	Physiology of the retina eye	
OPT203		Specialized	F1	4	4	2	Optical devices and tools	
OPT204		Specialized	F2	4	4	2	Advanced Optical Equipment	
OPT205		Specialized	F1	4	3	3	Ocular health	
OPT206		Specialized	F2	4	3	3	Eye problems	
OPT207		Specialized	F1	3	3	2	Reactive	
OPT208		Specialized	F1	2	-	2	pharmacology	
OPT209		Specialized	F2	3	2	2	Laser in ophthalmology	
62.5%	ratio			30	25	20	Total units of the scientific section	
				48			Total level 2 units	

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Level 3									
The symbol	The pavement if any	Material type	Semester	Number of units	Number of practical hours	Number of theoretical hours	Course name		Requirement type
							In English		
									University requirements (cognitive requirements)
0.0%	ratio			0	0	0	Total university units		
MTC301		General		2	2	1	computer applications		College Requirements
MTC302		help		2	-	2	Safety in laboratories		
MTC303		help		2	-	2	Medical research methods		
MTC304		---		Completed			Summer training		
18.8%	ratio			6	2	5	Total college units		the total
OPT301		Specialized		3	3	2	Eye problems in internal diseases		Departmental Specialization Requirements
OPT302		Specialized		3	3	2	Eye problems in nervous diseases		
OPT303		Specialized		3	3	2	Prescription glasses		
OPT304		Specialized		3	3	2	Glasses Problems		
OPT305		Specialized		3	3	2	Squint		
OPT306		Specialized		3	3	2	Squint Problems		
OPT307		Specialized		3	3	2	Refractive Errors		
OPT308		Specialized		3	3	2	Optical Testing Devices		
OPT309		Specialized		2	2	1	Treatment of ocular diseases by laser		
81.3%	ratio			26	26	17	Total units of the scientific section		
				32			Total units of the third level		

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Level 4								
The symbol	The pavement if any	Semester	Number of units	Number of practical hours	Number of theoretical hours	Course name		Requirement type
						In English		
NTU400		General	2	-	2	Scientific research methodology		University requirements (cognitive requirements)
5.4%	ratio		2	0	2	Total university units		
MTCD402	One subject is selected.	help	2	-	2	Preventive and social medicine		College Requirements
MTCD403		help		-	2	Serology and Vaccines		
MTCD404	---		4	-	-	Graduation Project		
16.2%	ratio		6	0	4	Total college units		
OPT401		Specialized	3	3	2	Eye Diseases		Departmental Specialization Requirements
OPT402		Specialized	3	3	2	Diseases Retina		
OPT403		Specialized	3	3	2			
OPT404		Specialized	3	3	2	Squint Treatment		
OPT405		Specialized	3	3	2	Glasses and contact lenses		
OPT406		Specialized	3	3	2	kind alternatives		
OPT407		Specialized	3	3	2	Eye Prosthesis		
OPT408		Specialized	3	3	2	Pediatric ophthalmology		
OPT409		Specialized	3	3	2	Eye rays and sonar		
OPT410		Specialized	2	4	-	Workshop of optical Technique		
78%	ratio		29	31	18	Total units of the scientific section		
			37			Total units of the fourth level		
			165			Total units for all levels		
			Total	Department Requirements	College Requirements	University requirements	Requirement type	
			165	115	28	22	Total units required (for all levels)	
			100%	70%	17%	13%	Total percentages according to the requirement (for all levels)	