



The Pedagogical and Cultural Courses "Two Semester's System" First Semester

First Year								
Course Number	Subjects name	Theoretical Hours	Practical Hours	Total	Class works	Oral	Written	Total
ED111	Education and Day Issues	2	_	2	30	-	70	100
	Optional Cultural Courses	2	_	2	30	-	70	100
A111	Arabic Language	2	_	2	30	-	70	100
		6		6				

Second Year

Course	Subject Name	Theoretical	Practical	Total	Class	Oral	Written	Total
Number		Hours	Hours		works			
CURR211	micro- Teaching(1)	-	2	2	30	20	-	50
ED211	Classroom and School administration	1+1		2	30	-	70	100
PSY211	Psychology of Education	2	1	3	35	15	75	125
		4	3	7				

Third Year

			IIII u I	- Cur				
Course	Subject Number	Theoretical	Practical	Total	Class	Oral	Written	Total
Number		Hours	Hours		works			
Curr311	Methodology1	2	1	3	35	15	75	125
Curr312	Educational	1	2		15	15	70	
	Technology							
	Specialty2			5				150
Curr313	- Computer in	1	1					
	specialty				25	25	-	

Fourth Year

Course	Subject Number	Theoretical	Practical	Total	Class	Oral	Written	Total
Number		Hours	Hours		works			
Curr411	Methodology	2	1	3	35	15	75	125
Psy411	Mental health and psychological counseling	2		2	30	-	70	100
Curr412	Curriculum	2		2	30	-	70	100
		6	1	7				

Student chooses one of the following scheduled courses:

(Curr111) Scientific Culture

(Curr112 -Environment Education

-(Phil) philosophical and scientific thinking

(Curr113) -Health Education

The pedagogical and cultural subjects "Two semester's system" Second semester

First Year								
Course Number	Subjects name	Theoretical Hours	Practical Hours	Total	Class works	Oral	Writt en	Total
ED121	The teacher and the teaching profession	2		2	30	-	70	100
ENG121	English language (all divisions except E) Second foreign language for E	2	2	4	45	20	85	150
PSY121	growth psychology	2	_	2	30	-	70	100
		6	2	8				

Second Year

Course	Subjects name		Practical	Total	Class	Oral	Written	Total
Number		Theoretical	Hours		works			
		Hours						
Curr221	Micro-Teaching2		2	2	30	20	_	
								50
ED211	Optional pedagogical	2	_	2	30	-	70	100
	course							
CURR222	Educational Technology	2	2	4	45	15	90	150
		4	4	8				

Third Year

Course	Subject Number	Theoretical	Practical	Total	Classworks	Oral	Written	Total
Number		Hours	Hours					
ED321	pedagogical Thought	2	-	4	30	-	70	200
ED322	and its applications - Adult education - its origins and methods	2	-		30	-	70	
PSY321 CURR321	The psychology of special needs - The methodology of special needs	2 2	-	4	30 30	-	70 70	200
		8	_	8				

Fourth Year

Course Number	Subject Number	Theoretical Hours	Practical Hours	Total	Class works	Oral	Writte n	Total
PSY421	Individual differences and psychometrics	2	1	3	35	15	75	125
ComEd411	The education system in Egypt and contemporary trends	2	-	2	30	_	70	100
		4	1	5				

Student chooses one of the following scheduled courses:

School and community (Ed223)

International Education (Ed222)

Educational Supervision (Ed221)

Social Psychology (Psy222)

The psychology of talent and excellence (Psy223)

Personal psychology (224)

Mathematics Section First Year

First Term

		Hours Num	ber		Subject	degree(Last Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
110M	Introduction to Computer	2	1	3	35		90	125
	Advanced Mathematics	2	-	-	30		70	
111M 112M	A- Fundamentals of Mathematics B-Advanced Algebra	2	2	7	70		140	300
113M	Calculation1	3	2	5	60		140	200
114M	The principles of mechanics	4	2	6	70		180	250
111Ph 112Ph	Physics 1(A properties of the material B)- Electricity and magnetism	2 2	1	6	20 20	20	85 85	250
	Pedagogical And Cultural	6	-	6				
				33				

Second Term

		Hours Num					egree(Last Year)		
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total	
121 M	Philosophy and the history of mathematics	2	1	3	35		90	125	
122M	Analytic geometry in the level	2	2	4	45		105	150	
123M	Calculation2	3	2	5	60		140	200	
124M	Mechanics	4	2	6	70		180	250	
121Ph	Physics 2 A-Heat B - geometric optics	2	1	6	20	20	85	250	
122Ph		2	1		20	20	85		
	Pedagogical And Cultural	6	2	8					
		•		38					

Mathematics Section

Second Year

			First Term	l				
		Hours Num	ber		Subject of	degree(I	Last Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
216M	Linear Algebra	2	1	3	35		90	125
213M	Calculation 3 Math	2	2	7	45		105	275
219M	Applications	2	1		35		90	
214M	Statics	4	2	6	70		180	250
215M	Introduction to Computer Programming	2	1	3	35		90	125
211Ph	Physics 3 A. Thermodynamic B. Modern	2	2	7	20	25	105	275
216Ph	Physics	2	1		35		90	
	Pedagogical and Cultural	4	3	7				
				33				

Subject name Space Engineering	Hours Number Theoretical	Practical	Total	Subject deg Class	gree(Last ') Oral	Year) Written	Total
name Space Engineering			Total		Oral	Written	Total
Engineering	2	2		works		VVIICCII	Total
		<i>L</i>	4	45		105	150
Differential Equations	2	2	4	45		105	150
-Dynamics - - Probability theory	4 3	2 1	10	70 50		180 125	425
Physics 4Physical Optics Alternating Current	2 2	1	6	15 15	20 20	90 90	250
Pedagogical and Cultural	4	4	8				
O A C	-Physical optics Iternating urrent edagogical	-Physical ptics 2 Iternating urrent 2 edagogical 4 nd	-Physical ptics 2 1 Iternating 2 1 edagogical 4 4	Physical ptics 2 1 6 lternating 2 1 edagogical 4 4 8 nd ultural	Physical ptics 2 1 15 6 15 lternating urrent 2 1 8 edagogical 4 4 8 8 edagogical and ultural	Physical ptics 2 1 5 20 lternating urrent 1 1 15 20 edagogical 4 4 8 and ultural	Physical ptics 2 1 1 5 20 90 lternating 2 1 1 5 20 90 edagogical 4 4 8 nd

Mathematics Section Third Year

		First T	erm						
		Hours Nur	nber	Sub	ject degr	ee(La			
Course	Subject name	Theoretic	Prac	Total	Class	Or	Writt	Total	
Number		al	tical		works	al	en		
312M	Emerald theory	3	-	3	45	-	105	150	
311M	General Topology	2	1	3	35	-	90	125	
313M	Real Analysis	3	-	3	45	-	105	150	
316M	Applied Mathematics								
	-Rigid body dynamics	3		6	45	_	105	300	
316M	Electric-	3			45	_	105		
318M	Optional courses	3	-	3	45	-	105	150	
	(student choose one								
	course)								
	- Engineering								
	postulates								
319M	- Chaos Theory								
	Pedagogical and	3	5-	8		-			
	cultural								
	Field Training1	Full Day	•	•	25 2	5		50	
				26					

		S	econd Teri	n				
]	Hours Numbe	r		Subject d	egree(L	ast Year)	
Course Number	Subject name	Theoret ical	Practica 1	Tota	l Class works	Oral	Written	Total
328M	Numerical Analysis	3	-	3	45	-	105	150
323M	Special functions and Partial Differential Equations	3	-	3	45	-	105	150
325M	Statistical analys	sis 3	_	3	45	-	105	150
326M	Applied Mathematics							
324M	-Analytical dynamics	3	-	6	45	-	105	300
	-Multimedia Mechanics	3	-		45		105	
321M	Optional Course choose Ne)	s(3	-	3	45	-	105	150
322M	-Engineering fractures -Astronomy and Space Mechanics							
	Pedagogical and Cultural		-	8				
	Field Training	Full Day		26	25	25		50

Mathematics Section Fourth Year

		First	Term					
		Hours Num	ber		Subject d	legree(Last Year	<u>')</u>
Course Number	Subject name	Theoretical	Practical	Tota	l Class works	Oral	Written	Total
412M	Rings and fields	3	_	3	45	-	105	150
413M	Functional Analysis	3	-	3	45	-	105	150
415M	Operations Research	3	-	3	45	-	105	150
414M	Applied Mathematics	3	-	6	45		105	300
416M	-The relativity theory -Fluid Dynamics1	3	-		45		105	
418M	Optional Courses(choose oNe) - Educational	3	-	3	45		105	150
419M	Technology -Advanced statistical methods							
	Pedagogical and cultural	6	1	7				
	Field Training1	Full Day			25	25		50
				25				

		Sec	cond Ter	m				
		Hours No	umber		Subject d	egree(La	ast Year)	
Course Number	Subject name	Theoret ical	Practi cal	Total	Class works	Oral	Written	Total
423M	Complex Analysis	3	-	3	45	-	105	150
425M	Software packages in mathematical applications	2	1	3	35	-	90	125
426M	Applied Mathematics	3	_		45		105	
424M	Fluid Dynamics2Quantum mechanics	3	-	6	45	-	105	300
422M	Differential Engineering	3	-	3	45	-	105	150
428M	Optional Courses(choose oNe)	3	-	3	45	-	105	150
429M	-Vital Mathematics -Statistical mechanics							
	Pedagogical And Cultural	4	1	5				
	Field Training 2	Full Day			25	25		50
				23				

Chemistry First Year

			First	Term				
		Hours Num	ber		Subject de	gree(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
118 MS	Mathematics 1	2	-	2	30		70	100
111Ph	General Physics1	3	1	7	50	25	100	300
112Ph	-Material properties -electricity and magnetism	2	1		35	15	75	
11B 112B	General Biological sciences1	4	4	8	45	45	210	300
111Ch	General Chemistry1	3	2+1	6	35	35	155	225
	Pedagogical and cultural	6	-	6				
				29				

			Second Ter	m				
		Hours Nu	mber		Subject degre	e(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
128MS	Mathematics 2	2	1	3	35		90	125
121ph 122ph	General Physics 2 -Geometric optics Heat-	2 2	1	6	20 20	20 20	85 85	250
112Z 122B	General Biological sciences2	3	4	7	35	35	180	250
122Ch 123G	General Chemistry2 Geology	3	1+2	6 2	35 20	35	155 55	225 75
1200	Pedagogical and Cultural	6	2	8				75
				32				1

Chemistry Second Year

		Fi	rst Term					
		Hours Num	ber		Subject	degree	(Last Yea	r)
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
	MATHEMATICS 3	2	1		35		90	
216MS 217MS	LinearAlgebra- -Probabilities and	2	1	10	35		90	425
217MS 218MS	statistics Calculation-	3	1	10	25		150	425
Curr211	Ecology1	2	_	2	30		70	100
231Ch	Physical Chemistry1 Analytical	2	2	4	20	25	105	150
211Ch	Chemistry1	2	3	5	25	25	125	175
211Ch	Organic Chemistry1	3	3+1	7	40	40	170	250
	Pedagogical and Cultural	4	3	7				
				35				

		S	econd Terr	n				
		Hours Num	ber		Subject de	gree(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
226MS	Mathematics 4 Differential Equations	2	1	3	35		90	125
222Ph 214Ph	General Physics 3 -Modern Physics Biophysics-	2 2	1	6	20 20	20 20	85 85	250
232Ch	Physical Chemistry II	3	1	4	25	25	125	175
222Ch	Inorganic Chemistry I	3	_	3	45	_	105	150
223Ch	Organic Chemistry II	3	3+1	7	40	40	170	250
	Pedagogical and Cultural	4	4	8 31				

Chemistry Third Year

First Terr	m							
		Hours Nu	mber	S	ubject degree	(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Classworks	Oral	Written	Total
331Ch	Physics Chemistry III	3	2	5	30	30	140	200
301Ch	Environmental Chemistry	2	2	4	20	25	105	150
321Ch	Organic Chemistry III	3	1	4	25	25	125	175
Curr311	Ecology(2)	2		2	30		70	100
318MS	Mathematics 5 Differential Equations	2	2	4	45	_	105	150
	Pedagogical And Cultural	3	5	8				
	Field Training	Full	Day		25	25		50
				27				

		S	econd Tern	n				
		Hours Num	ber		Subject	degree	(Last Yea	r)
Course	Subject	Theoretical	Practical	Total	Class	Oral	Written	Total
Number	name				works			
332Ch	Physics							
	Chemistry	3	3+1	7	35	35	180	250
	IV							
312Ch	Analytical							
	Chemistry II	3	3	6	35	30	160	225
322Ch	Organic							
	Chemistry	4	4	8	40	50	210	300
	IV							
	Mathematics							
	6							
328MS	- Special							
	Functional	3	_		45	_	150	
329MS	+ Partial			6				275
	Equations	2	1		35		90	
	- groups							
	Theory							
	Pedagogical							
	and cultural	8	_	8				
	Field		Day					
	Training 2	Full			25	25		50
				35				

Chemistry Fourth Year

]	First Term					
		Hours Nu	mber		Subject degre	ee(Las	st Year)	
Course Number	Subject name	Theoretic al	Practic al	Tota l	Class works	Ora l	Writte n	Tota 1
433Ch	-Physics Chemistry V Fundamentals of materials science	3 2	2	8	30 20	30 20	n 140 85 70 170 35 70	325
411Ch	Inorganic Chemistry II Organic	2	_	2	30		70	100
412Ch	Chemistry V	3	4	8	40	40	170	300
423Ch	Organic Chemistry VI	1	_	8	15	_	35	300
414Ch	electric circuits	2		2	15	15	70	100
Curr411	Integrated Science	2	_	2	15	15	70	100
	Pedagogical and Cultural	6	1	7				
	Field Training(1)	Full	Day		25	25		50
				29				

Second Term		T N 1		1	G 1	/T / T	7	
		Iours Numb			Subject degree	1		
Course	Subject name	Theoreti	Practical	Total	Class works	Oral	Written	Total
Number		cal						
	Physics Chemistry							
431Ch	VI	3	2	5	30	30	140	200
	Physics Chemistry							
432Ch	VII	2	4	6	30	30	140	200
	Inorganic							
	Chemistry III	2	4		30	30	140	
412Ch	Inorganic			8				300
	chemistry IV	2	_		30	_	70	
414Ch	· ·		_					
	Organic							
422Ch	Chemistry VII	3	3		30		165	
	- Organic			8		30		325
424Ch	Chemistry VIII	2	_		30		70	
	·							
	Pedagogical and							
	Cultural	4	1	5				
		7	1	J				+
	Field Training(2)	Fall	Dov		25	25		50
		Full	Day	22	25	25		50
				32				

Physics First year

First Ter	m							
		Hours Number			Subject degree(Last Year)			
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
111Ph	General Physics(1) Matter Properties	2	1	6	20	20	85	250
112Ph	Electricity and Magnetism	2	1		20	20	85	
118MS	Mathematics 1	2	_	2	30		70	100
111B 121B	General biological sciences(1)	4	4	8	45	45	210	300
111Ch	General Chemistry (1)	3	2+1	6	35	35	155	225
	Pedagogical and cultural	6	_	6				
				28				

			Second Te	rm				
		Hours Num	ber		Subject degree(Last Year)			
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
121 Ph 122 Ph	General Physics (2) - Heat - Geometric Optics	2 2	1	6	20 20	20 20	85 85	250
128MS	Mathematics (2) Calculation (1)	2	1	3	35	-	90	125
121Ch	General Chemistry 2	3	1+2	6	35	35	155	255
112 Z 122 B	General biological sciences(2)	3	4	7	35	35	180	250
123 G	Geology	2		2	30		70	100
	Pedagogical and Cultural	6	2	8				
				32				

Physics Second Year

			First Tern	n				
		Hours Nu	mber		Subject degr	ee(Last '	Year)	
Course Number	Subject name	Theoretical	Practical	Tota		Oral	Written	Total
211 Ph 212 Ph	Thermodynamics -Vibrations and waves	2	2	8	20	25 25	105 105	300
213 Ph	Astronomical and meteorological Physics	2	_	2	30		70	100
Curr211	Ecology 1	2	_	2	30		70	100
211 Ch	Chemistry 1	2	2	4	20	25	105	150
216MS 217MS	Mathematics3 - linear Algebra - Statistics and	2 2	1		35 35		90	375
218MS	probabilities - Calculation2	2	1	9	35		90	
	Pedagogical and cultural	4	3	7				
				32				

			Second Ter	rm				
		Hours Num	ber		Subject de	gree(Last	t Year)	
Course	Subject	Theoretical	Practical	Total	Class	Oral	Written	Total
Number	name				works			
221 Ph	Alternating	2	1	6	20	20	85	250
222Ph	Current							
	- Biophysics	2	1		20	20	85	
223Ph	Physical Optics	2	2	4	20	25	105	150
221Ch	Chemistry 2	2	2	4	20	25	105	150
226MS	Mathematics 4 - Differential Equations	2	1		35		90	255
228MS	- Applied Mathematics 1 - Applied	2	1	9	35		90	375
229MS	Mathematics 2	2	1		35		90	
	Pedagogical and Cultural	4	4	8				
				31				

Physics Third Year

		Hours Num	ber		Subject of	degree(L	ast Year)	
Course Number	Subject name	Theoreti cal	Practical	Total	Class works	Oral	Written	Total
311Ph	Atomic and spectra physics	2	3	10	25	25	125	
312Ph	Electronic optics	2	٣		25	25	125	350
313Ph	Quantum mechanics1	2	-	5	30	-	70	225
314Ph	- Relativity Theory	2	1	3	35	-	90	223
315Ph	Statistical Physics	2	1	3	35		90	125
318Ms	Mathematics 5 Differential Equations	2	2	4	45		105	150
Curr311	Ecology 2	2	-	2	30		70	100
	Cultural pedagogy	3	5	8				
	Field Training1	Full	Day		25	25		50
				32				

			Second 7	Гerm				
		Hours Num	ber		Subject of	legree(L	ast Year)	
Course Number	Subject name	Theoreti cal	Practical	Total	Class works	Oral	Written	Total
Ph321	Nuclear Physics1	2	2		20	25	105	
	Solid Physics1			8				300
Ph322		2	2		20	25	105	
323Ph	Quantum mechanics2 Mathematical	2	1		35		90	250
322Ph	physics	2	1	6	35		90	250
325Ph	The use of computers in physics	2	2	4	20	25	105	150
328MS	Mathematics 6 Special Functional + Partial							
329Ms	Equations Groups Theory	3			45		105	275
		2	1	6	35		90	
	Cultural and pedagogical	8	-	8				
	Field Training 2	Full	Day		25	25		50
				32				

Physics Fourth Year

			First Te	rm				
		Hours Num	ber		Subject of	degree(I	ast Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
411Ph	Nuclear Phsics2 Solid	2	2		20	25	105	300
412Ph	Physics 2	2	2	8	20	25	105	
413Ph	Laser Physics	2	2		20	25	105	
414Ph	Electronic circuits	2	2	8	20	25	105	300
415Ph	Plasma Physics	2	1		35		90	250
416Ph	electrical dynamics	2	1	6	35		90	230
Curr411	Integrated Sciences	2	-	2	30		70	100
	Cultural And Pedagogical	6	1	7				
	Field Training 1	Full	Day		25	25		50
				31				

			Second T	'erm				
		Hours Num	ber		Subject of	degree(L	ast Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
421Ph	Radiological physics	2	2		20	25	105	
422Ph	New and renewable energies	2	2	8	20	25	105	300
423Ph	Material Physics	2	2		20	25	105	
424Ph	Logical and digital circuits	2	2	8	20	25	105	300
425Ph	magnetic resonance	2	1		35		90	225
	History and Philosophy of			5				225
427Ph 426Ph	Science Essay and research	2	1	3	30 35	-	90	125
	Cultural And Pedagogy	4	1	5				
	Field Training 2	Full	Day		25	25		50
				29				

Basic Biological Section - Geology Branch First Year

			First Te	rm				
		Hours Num	ber		Subject of	legree(L	ast Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
B11	General Biology	2	2	8	20	25	105	300
B112	Biological diversity	2	2	O	20	25	105	300
Ch111	General Chemistry1	3	3	6	35	35	155	225
Ph111	General Physics - Material	2	1					
Ph112	Properties.			6	20	20	85	250
PIIIIZ	Electricity and Magnetism	2	1	0	20	20	85	
Ms118	Mathematics 1	2		2	30		70	100
	Cultural And Pedagogical	6		6				
				28				

			Second	d Term						
		Hours Num	ber		Subject de	Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total		
Z 121	The human body	2	2	7	20	25	105			
	Morphology and anatomy of	1		,				250		
B122	plant		2		15	15	70			
G123	General Geology	1	1	2	12	10	53	75		
Ch122	General chemistry 2	3	3	6	35	35	155	225		
Ph122	General Physics 2 Geometric Optics	2	1	6	20	20	85	250		
Ph121	Heat	2	1		20	20	85			
Ms128	Mathematics 2	2	1	3	35		90	125		
	Pedagogical and Cultural	6	2	8						
				32						

Basic Biological Section - Geology Branch Second Year

		F	First Term					
		Hours Nu	mber	Sı	ıbject degi	ree(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Z211	Invertebrates	3	2		30	30	140	
	Histology and Microscopic techniques			9				350
Z212	•	2	2		20	25	105	
B213	Microbiology	2	2		20	25	105	
B214	Algae	2	2	8	20	25	105	300
G215	Earth Materials	1	2	3	15	15	70	100
	Chemistry	2	2	4	20	25	105	150
Curr211	Ecology 1	2		2	30		70	100
	Cultural and pedagogical	4	3	7				
				33				

			Secon	d Term				
		Hours Num	ber		Subject degre	e(Last	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Classworks	Oral	Written	Total
Z221	Chordates	2	2	4	20	25	105	150
Z222	Animal Physiology1	2	2	4	20	25	105	150
B223	Plant environment Economic Plant	3	4	7	35	40	175	250
B224	Plant Physiology1	2	2	4	20	25	105	150
B225	Mineralogy and economic resources	1	2	3	15	15	70	100
	Cultural and Pedagogical	4	4	8				
				30				

Basic Biological Section - Geology Branch Third Year

					First 7	Term					
			H	Iours N	umber		,	Subject de	egree(La	st Year)	
Course	Subje	ect name	Th	eoretica	al Pra	ctical	Total	Class	Or	al Written	Total
Number								works			
311Z	Cytol	logy	2		2			20	25	105	
	Mole	cular									
	Biolo	ogy					8				300
312Z	Embi	ryology	2		2			20	25	105	
313B	Arch	ijohnaat	1		2			15	15	70	
314B	Viru	s + bacteria	3		2		8	30	30	140	300
315G	Strata	a Science	1		2		3	15	15	70	100
	and E	Earth									
	Histo	ory									
311Ch	Bioch	nemistry	2		2		4	20	25	105	150
311Curr	Ecolo	ogy 2	2				2	30		70	100
		gogical and	3		5		8				
	Cultu										
	Fi	ield Trainin	g 1	Full	<u> </u>	Day		25	25		50
	L					•	33				

		Se	econd Term					
	Hours 1	Number	Subject deg	ree(Last	t Year)			
Course Number	Subject name	Theoretica 1	Practical	Total	Class works	Oral	Written	Total
321 Z	Animal Physiology 2	2	2	4	20	25	105	150
322 Z	Parasitology and immunology	2	2	4	20	25	105	150
323B	Classification of plant + advanced Anatomy plant	2	4	6	30	30	140	200
325 G	Sedimentary rocks + synthetic geology	3	2	5	35	40	175	250
324B	Environmental Microbiology	2		2	30		70	100
326B 327B 327B	Studeent choose oNe Applied Microbiology Radio Biology Optional Topics	2	2	4	20	25	105	150
	Cultural and Pedagogical	8		8				
	Field Training 2	Full	Day	33	25	25		50

Basic Biological Section - Geology Branch Fourth Year

			First Ter	m					
		Hours Num	ber		Subject d	Subject degree(Last Year)			
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total	
411Z	Comparative anatomy of vertebrates Organic evolution	3	2	5	30	30	140	200	
412Z	Animal environment + animal behavior	2	2	4	20	25	105	150	
413B	Plant Physiology 2	2	2	4	20	25	105	150	
414B	Mycology	2	2	4	20	25	105	150	
415G	Environmental geology + Astronomy	4		4	60		140	200	
	Cultural and Pedagogical	6	1	7					
	Field Training 1	Full	Day		25	25		50	
				28					

Second Te	erm							
		Hours Nu	ımber		Subject	degree(Last Yea	r)
Course	Subject name	Theoretic	Practic	Tota	Class	Ora	Writte	Tot
Number		al	al	1	works	1	n	al
421Z	Entomology	2	2		20	25		
	Aquariums + economic						105	
422Z	animal	2	2	8	20	25	105	300
	Heredity	3	3	6	35	35	155	225
	Egyptian flora							
423 B	Biotechnology	2	2	7	20	25	105	
425G	Geophysics							275
		2						
			1		15	20	90	
	Student Choose oNe	2		2	30		70	100
	Applied insects							
	The history of biology							
	Optional topics							
	Pedagogical And Cultural	4	1	5				
	Field Trainning2	Full	Day		25	25		50
				28				

Basic Geological Section - Biological branch First Year

				First	t Term						
				ours Num			Subject	t degi	ree(La	ast Year)	
Course Number	Subject name		The	eoretical	Practical	Total	Class works		Oral	Writte	n Total
111B	General biolog	gy	2		2	8	20		25	105	
112B	Biological Di	versity	2		2		20		25	105	300
111Ch	General Chem	nistry1	3		3	6	35		35	155	225
111Ph	General Physi Material prosp	cs1 perities	2		1		20		20	85	
	Electricity and Magnetism	d				6					250
112ph			2		1		20		20	85	
118Ms	Mathematics1		2		-	2	30			70	100
	Cultural and pedagogical		6		-	6					
	Frangagaran					28					
				Secon	d Term		1		-1	l .	<u> </u>
		Hours	Num	ber		Subjec	t degre	e(La	st Yea	ır)	
Course Number	Subject name	Theoret	tical	Practica	l Total	Class work		Ora	1	Written	Total
121Z 122B	Human Body Morphology and anatomy of plant	1		2	7	20		2515		105 70	250
123G	General Geology	1		1	2	12		10		53	75
122Ch	General Chemistry2	3		1+3	6	35		35		155	225
122Ph 121Ph	General Physics2 Geometric Optics	2		1	6	20		20		85 85	250
128Ms	Heat Mathematics 2	2		1	3	35				90	125
	Cultural and pedagogical	6		2	8						
				I	32	1		l	1		

Basic geological Section - biological branch Second Year

			First T	'erm						
		Hours Num	ber		Subject degree(Last Year)					
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total		
211G	Mineralogy and land resources	2	2	4	20	25	105	150		
212G	The orbit of the sky and solar Group	2	1	3	15	20	90	125		
312G	Invertebrates Animal	3	2	5	30	30	140	200		
413B	Histology + animal environment	1+1	2+2	6	20	25	105	150		
212B	Morphology and anatomy of plant Ecology 1	2	2	6	20	25	105	250		
CURR211		2	-		15	15	70			
	Cultural and pedagogical	4	3	7						
				31						

			Second '	Term				
		Hours Num	Subject d	Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
223G	Igneous and metamorphic rocks	2	2	4	20	25	105	150
327G	Sedimentary rocks	2	2	4	20	25	105	150
221Z	Chordates	3	2	5	30	30	140	200
311B	Animal Physiology	2	2	4	20	25	105	150
224B	Plant environment	2	2	4	20	25	105	150
	Cultural and pedagogical	4	4	8				
				29				

Basic Geological Section –Biological Branch

Third Year

			First Ter	m					
		Hours Num	ber		Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total	
311G	Astronomy2 Galaxies and stars	1	2	3	15	15	70	100	
312G	Invertebrates fossils	2	2	4	20	25	105	150	
313G	micro-fossils Organic evolution	2	2	6	20	25 15	105 70	250	
422B	Aquariums + algae	2+2	2	6	35	40	175	250	
Curr311	Ecology2	2	-	2	30		70	100	
	Pedagogical And Cultural	3	5	8					
	Training Field 1				25	25		50	
				29					

			Second To	erm				
		Hours Num		Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
326G	synthetic Geology	2	2	4	20	25	105	150
322B	Environmental Geology + meteorology	1+1	2+2	6	30	30	140	200
324G	Lithostratigraphy	2	2	4	20	25	105	150
323B	classifying flowering plants	1	2	3	15	15	70	100
	Pollen	1	2	3	15	15	70	100
	Cultural and pedagogical	8		8				
	Field training 2	Full	Day		25	25		50
				28				

Basic Geological Section –Biological Branch Fourth Year

								st Tern	
		Hours Num		Subject d	Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total	
411G	Geophysics 1	2	2	4	20	25	105	150	
412G	field mapping geology	2	2	4	20	25	105	150	
413G	Geomorphology Embryology	2	2	4	20	25	105	300	
312B		2	2	4	20	25	105		
412B	Insects	2	2	4	20	25	105	150	
	Cultural and Pedagogical	6	1	7					
	Field Training 1	Full	Day		25	25		50	
				27					

			Second	d Term				
		Hours Num	ber		Subject deg	gree(Last Y	(ear)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
412G	Geophysics 2	2	2	4	20	25	105	150
422G	Egypt Geology	2	1	5	15	20	90	225
424G	Geological hazards	2			30		70	
423G	Computer Applications in Geology	1	2	3	15	15	70	100
422B	Cell and Molecular	2	2	8	20	25	105	300
	Biology Plant evolution and diversity	2	2		20	25	105	
	Integrated sciences	2		2	30		70	100
	Cultural and pedagogical	4	1	5				
	Field training 2	Full	Day		25	25		50
				27				



Student chooses one of the following scheduled courses: (Curr111) Scientific Culture
)(Curr112 -Environment Education
-(Phil) philosophical and scientific thinking
(Curr113) -Health Education

Student chooses one of the following scheduled courses: School and community (Ed223) International Education (Ed222) Educational Supervision (Ed221) Social Psychology (Psy222) The psychology of talent and excellence (Psy223) Personal psychology (224)

Mathematics Division Basic Education First Year

			First Tea					
		Hours Num			Subject de	egree(La	st Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed121	The teacher and educational profession	2		2	30		70	100
A111	Arabic language Religion education(religion and	2	2	8	45		105	
R111	life)	2	2	0	45		105	300
Eng121	English language	2	2	4	45		105	150
H424 Geog412	history and geography of modern Egypt	4		4	60		140	200
0111M	Mathematics Fundamentals of Mathematics	2	-	5	30		70	225
0112M	Algebra	2	1	3	35		90	
0110M	Introduction to computer	2	1	3	35	15	75	125
			G I I	24				
	ш	ours Number	Second To		uhiaat daama	o(Lost V	(aom)	
Course Number	Subject name	Theoretic al	Practical	Total	ubject degre Class works	Oral	Written	Total
ED111	Education and the issues of the day	2	-	2	30		70	100
PS121	Psychology	2	-	2	30		70	100
0123M	Calculation 1	2	1	3	35		90	125
K122	Children's Literature	2	-	2	30		70	100
0122M	Analytic geometry in the level	1	1	2	20		55	75
M.ED121	Motor skills Musical skills	1	3	8	35	45	45	250
		1	3		35	45	45	
111Ch	General Chemistry	2	2	4	45	20	85	150
				22				

Mathematics Division Basic Education Second Year

			First Terr	m				
		Hours Num	ber		Subject d	egree(La	ast Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
ED211	classroom and school Administration	2	-	2	30		70	100
ED211	Optional Education course	2	-	2	30		70	100
Curr211	Ecology 1	2	-	2	30		70	100
R211	Religion and Issues of the day	2	-	2	30		70	100
0214M	Applied mathematics 1	2	2	4	45		105	150
0212M	Linear Algebra Calculation 2	2	2	8	45		105	300
0213M		2	2		45		105	
Curr211	Micro- Teaching	-	2	2 22	20	30	-	50

			Second Te	erm				
		Hours Number		St	ubject degr	ee(Last	Year)	
Course	Subject name	Theoretica	Practical	Total	Class	Oral	Written	Total
Number		1			works			
Psy211	Psychology of learning	2	1	3	35	15	75	125
Curr222	Educational Technology 1	2	2	4	45	20	85	150
0226M	Mathematics History	2	-	2	30	-	70	100
Art+2 211	Manual and technical skills	1	3	4	35	35	55	125
Drama211	Child Drama and Theater	2	-	2	30	-	70	100
0222M	Analytic Geometry in Vacuum	2	2	4	45		105	150
0224M	Applied Mathematics 2	2	2	4	45		105	150
Curr221	Micro- Teaching 2	-	2	2	20	30		50
				25				

Mathematics Division Basic Education Third Year

			First Ter	m		·		
	Hours Number				Subject degree(Last Year)			
Course Numbers	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Curr211	Methodology 1	2	1	3	35	15	75	125
Curr312	Educational Technology (in specialty)	1	2	3	30	30	40	100
0314M	Applied linguistics 3	2	2	4	45	-	105	150
0315M	Introduction to Computer programming	2	1	3	35	15	75	125
0313M	Ordinary Differential equations	3	1	4	50	-	125	175
111Ph	Physics Material properties Electricity and	2	1	6	35	15	75	250
112Ph	Magnetism	2	1		35	15	75	
121Ch	General Chemistry 2	2	2	4	45	20	85	150
	Field training 1	Full	Day		25	25	-	50
-				27				

			Second Te	erm				
	Н	lours Number		Su	bject degree	e(Last Ye	ear)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed321	Educational Thought and its Educational Application	2	-	2	30		70	100
Psy321 Curr321	The psychology of special categories The Methodology of	2	-	4	30		70	200
	special categories Optional Cultural Course	2	-	2	30		70	100
Ed322	Adult Education ,Assets and Methods	2	-	2	30		70	100
0322M	Geometry Fundamentals	3	2	5	60		140	200
0324M	Applied mathematics 4	2	2	4	45	-	105	150
0325M	Probability Theory	2	1	3	35	-	90	125
	Field Training 2	Full	Day	22	25	25		50

Mathematics Division Basic Education Fourth Year

	First Term										
		Hours Num	ber		Subject deg	ree(Last Y	Year)				
Course	Subject name	Theoretical	Practical	Total	Class	Oral	Written	Total			
Number					works						
Curr411	Methodology 2	2	1	3	35	15	75	125			
Psy411	Mental health and psychological counseling	2	-	2	30		70	100			
Curr412	Curriculum	2	-	2	30		70	100			
0412M	Abstract algebra	2	2	4	45		105	150			
0414M	Applied Mathematics 4	2	2	4	45		105	150			
121Ph	Geometry optics	2	1	3	35		90	125			
211Ch	General	2	1		35	15	75	150			
	Chemistry 1			6							
Curr411	Integrated sciences	2	1		35	15	75				
	Field Training 1	Full	Day		25	25		50			
				24							

		Seco	nd Term					
		Hours Nu	mber		Subject degre	e(Last `	Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Psy421	individual differences and psychometrics	2	1	3	35		90	125
Ed421	Education Systems and Contemporary trends	2	-	2	30		70	100
0422M	General Topology	2	1	3	35		90	125
0428M	Software packages	2	1	3	35		90	125
0425M	Statistics Methods	2	1	3	35		90	125
211Ph	Thermodynamics	2	2	4	45	20	85	150
212Ph	Physics Vibrations and waves Modern Physics	2	2	6	45 30	20	70	250
222Ph								
	Field Training 2	Full	Day		25	25		50
				24				

Science Division Basic Education First Year

			First Terr	m				
		Hours Num	ber		Subject d	egree(La	ast Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed121	Teacher and Educational profession	2		2	30		70	100
A111		2	2	8	45		105	300
R111		2	2		45		105	
Eng121	English language	2	3	4	45		105	150
H424 Geog412	Geography and History of Modern Egypt	4	-	4	60		140	200
Curr211	Ecology 1	2	_	2	30		70	100
0111MSA	Mathematics Mathematics Fundamentals	2	-	5	30		70	225
0112MSA	Algebra	2	1	3	35		90	445
123G	Geological and biological sciences General Geology	1	1	2	20		55	75
				27				

			Second Ter	rm				
		Hours Numb	er		Subject de	egree(Las	t Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed111	Education and day Issues	2	-	2	30	-	70	100
122Ph	General Physics.	2	1		15	20	90	
	Geometry Optics			6				250
121Ph	Heat	2	1		15	20	90	
Psy121	Psychology	2	-	2	30		70	100
A211	Children Literature	2	-	2	30		70	100
0122MSA	Mathematics	1	1		20		55	
	-Analytic geometry			5				225
0125MSA	in level -Calculation	3	-		45		105	
111Ch	General Chemistry 1	2	2	4	20	25	105	150
111B	Geological and Biological science General Biology	2	2	4	20	25	105	150
				25				

Science Division Basic Education Second Year

		Fi	rst Term		·			
		Hours Num	ber		Subject deg	ree(Last	t Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed211	Classroom and School Administration	2	-	2	30		70	100
Curr311	Ecology 2	2	-	2	30		70	100
102Ch	Organic Chemistry	2	2	4	20	25	105	150
Ed	Optional educational course	2	-	2	30		70	100
M111	Musical skills	1	2	6	20	20	60	200
	Motor Skills	1	2		20	20	60	
122B	Geological and Biological sciences Plant morphology and anatomy + taxonomy plant	1+2	2	5	30	30	140	200
211G	Earth materials + Economic Geology	3	2	5	30	30	140	200
Curr211	Micro - teaching	-	2	2	20	30	_	50
				28				

		Sec	ond Term					
		Hours Num	ber		Subject deg	gree(Last	t Year)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Psy211	Learning psychology	2	1	3	35	15	75	125
Curr222	Educational Technology	2	2	4	45	20	85	150
122MSA	analytic engineering in a vacuum	2	-	2	30		70	100
D211	child drama and theater	2	-	2	30		70	100
Z211 Z221	Geological and Biological Siences Invertebrates + Chords	2	2	4	20	25	105	150
Art211	Manual and technical skills	1	3	4	25	30	70	125
121Ph	Physics Heat	2	1	6	15	20	90	250
122Ph	Optics	2	1		15	20	90	
Curr221	Micro teaching 2	-	2	2 27	20	30		50

Science Division Basic Education Third Year

		F	irst Term					
	Hour	s Number		Subj	ect degre	e(Last Y	'ear)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Curr311	Methodology 1	2	1	3	35	15	75	125
Curr312	Educational Technology (In specialty)	1	2	5	15	15	70	150
Curr313	Computer in specialty	1	1		25	25	_	
221Ch	Inorganic Chemistry	3	2	5	30	30	140	200
222Ph	Biophysics	2	1	3	15	20	90	125
R211	Religion and Day Issues	2		2	30		70	100
	Geological and Biological Sciences Molecular	2	2		20	25	105	
212G	Biological Cell+ Embryos			6				250
	Space Solar Group	2	-		30	-	70	
	Field training 1	Full	Day		25	25		50
				21				

		Se	cond Term	1				
	Hour	s Number		Subj	ect degree	(Last Y	ear)	
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Ed321	Educational Thought and its Educational Application	2	-	2	30		70	100
	Optional Cultural Course	2	-	2	30		70	100
Ed322	Adult education assets and methods	2	-	2	30		70	100
231Ch	Physics Chemistry	3	2	5	30	30	140	200
112Z	Biological and Geological Science Human Body Biology	2	2	8	20	25	105	300
	Plant physiology + heritage	2	2		20	25	105	
111Ph	Physics Matter properties	2	1		15	20	90	
	Electricity and			6				150
112Ph	Magnetism	2	1		15	20	90	
	Field Training 2	Full	Day		25	25		50
				25				

Science Division Basic Education Fourth Year

			First Ter	m				
		ber		Subject degree(Last Year)				
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Curr411	Methodology 2	2	1	3	35	15	75	125
Psy411	Mental health and psychological counseling	2		2	30		70	100
Curr412	Curriculum	2		2	30		70	100
B213	Biological and Geological Sciences Fundamentals of Microbiology + Biotechnology	1+1	2	4	20	25	105	150
224Ch	General Chemistry 2	3	2	5	30	30	140	200
212Ph	Physics Vibrations and waves	2	2	7	20	25	105	275
216Ph	Modern Physics	2	1		15	20	90	
	Field Training 1	Full	Day		25	25		50
				23				

		Seco	nd Term					
	Hours Number			Su	Subject degree(Last Year)			
Course Number	Subject name	Theoretical	Practical	Total	Class works	Oral	Written	Total
Psy321	The psychology of special categories The psychology of special			4	30		70	200
Curr321	categories	2			30		70	
Ed421	Education systems an contemporary trends	nd 2	-	2	30		70	100
403 B	Geological and Biological sciences Insects and parasites,	2	2	8	20	25	105	300
322 G	Environmental	2	2		20	25	105	
	geology + Egypt Geology							
231Ch	Organic Chemistry	3	2	5	30	30	140	200
213Ph	Astronomical and meteorological Physic	cs 2		2	30		70	100
Curr411	Integrated Sciences	2		2	30		70	100
Psy421	Individual differences and psychometric	s 2	1	3	35		90	125
	Field training 2	Full	Day		25	25		50
				23				

