First Semester

Course Code and pre-requisites	Course Title	Credit Hours	Course Category	Cours	е Туре	
MAF101	General Chemistry	2	Specialized course	Compulsory course		
MAF102	Introduction to Statistics	2	Specialized course	Compulse course	Compulsory course	
MAF103	Dynamics1	2	Specialized course	Compulse course	ory	
MAF104	Statics1	2	Specialized course	Compulse course	ory	
MAF105	Analytical Geometry 1	2	Specialized course	Compulse course	ory	
MAF106	Properties of matter and temperature	2	Specialized course	Compulse course	ory	
MAF107E	Introduction to algebra	2	Specialized course	Elective course	Student chooses	
MAF108E	Introduction to Computer Science	2	Specialized course	Elective course	one of them	
EDF108	Active learning strategies	2	Educational course	Compulse course	ory	
EDF109	Teaching profession and teacher's role	2	Educational course	Compulse course	ory	
GR131	History and civilization of Egypt	3	Cultural course	Elective course	Student chooses	
EL111	Communication skills in English 1	3	Cultural course	Elective course	one of them	
ARBN	Arabic language	0	Cultural noncredit course	Compulse course	ory	
Total number of Credit Hours for This Term is 21Credit Hours						

1

Second Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Cours	е Туре	
MAS109	Algebra	2	Specialized course	Compuls course	Compulsory course	
MAS110	Calculus1	2	Specialized course	Compuls course	Compulsory course	
MAS111 Prerequisite MAF103	Dynamics2	2	Specialized course	Compuls course	Compulsory course	
MAS112 Prerequisite MAF104	Statics 2	2	Specialized course	Compuls course	ory	
MAS113	Introduction to Number Theory and Logic	2	Specialized course	Compuls course	ory	
MAS114	Electricity, Magnetism and Alternating Current	2	Specialized course	Compuls course	ory	
MAS115E	Graph Theory	2	Specialized course	Elective course	Student chooses	
MAS116E	Space Mechanics and Astronomy	2	Specialized course	Elective course	one of them	
EDS117	Educational Leadership	1	Educational course	Compuls course	ory	
EDS118	Education Technology and Digitalization	2	Educational course	Compuls course	ory	
GR118	Life Skills and Coexistence	3	Cultural course	Elective course	Student chooses	
EL112 Prerequisite EL111	Communication Skills in English 2	3	Cultural course	Elective course	one of them	
FTS11	Field Training 1	1	Field Training	Compuls course	ory	
ENGN	English Language	0	Cultural noncredit course	Compuls course	ory	
Total number of Credit Hours for This Term is 21Credit Hours						

Third Semester

Creativity and Talent 2 Educational Elective	Course Code and pre-requisite	Course Title	Credit Hours	Course Category	Course Type		
MAF218 Group Theory 2 Specialized course course MAF219 Prerequisite MAS110 Calculus 2 2 Specialized course Cours	ΜΔΕ217		2	Specialized	Compuls	ory	
MAF219 Prerequisite MAS110 MAF220 Real Analysis MAF221 Prerequisite MAF105 MAF222 Analytical Geometry 2 MAF222 Mathematical Analysis EDF226 Developmental Psychology EDF227E EDF227E EDF228E Maistio Calculus 2 Specialized Course Course Course Course Compulsory Course Course Course Course Compulsory Course Course	IVIAI 217	of Mathematics	2	course	course		
MAF219 Prerequisite MAS110 Real Analysis Analytical Geometry 2 MAF221 Prerequisite MAF222 Numerical Analysis MAF223E Maf224E Mathematical Analysis Developmental Psychology EDF227E EDF227E EDF228E Course Course Compulsory course Course Compulsory course Course Compulsory course Course Compulsory course Cours	MΔF218	Group Theory	2	Specialized	Compuls	ory	
Prerequisite MAS110 Real Analysis 2 Specialized course course course Compulsory course MAF221 Prerequisite MAF105 MAF222 Numerical Analysis 2 Specialized course course Compulsory course Compulsory course Compulsory course Student course Conspect course Compulsory course Compulsory course Compulsory course Elective course course Compulsory course Compulsory course Compulsory course Compulsory course Compulsory course Compulsory course Chooses one of them Student course Compulsory course Co	WAILE	Group Tricory		course	course		
MAF220 Real Analysis 2 Specialized course Compulsory course MAF221 Prerequisite MAF105 MAF222 Numerical Analysis 2 Specialized course Course Course MAF222 Multimedia Mechanics MAF223E Mathematical Analysis 2 Specialized course Course Course Specialized course Course Course MAF224E Mathematical Analysis 2 Specialized course EDF226 EDF227E Educational and Administrative Theories Creativity and Talent Development Course Course EDF228E EDF228E EDS231E Micro-Teaching 1 Micro-Teaching 1 Micro-Teaching 1 Field Compulsory Student chooses one of them Course Cours	MAF219			Specialized	Compuls	ory	
MAF220 MAF221 Prerequisite MAF105 MAF222 Numerical Analysis MAF223E Mathematical Analysis EDF226 EDF227E EDF228E MAF2230 Real Analysis 2 Specialized course Compulsory course Specialized course Compulsory course Compulsory course Specialized course Student chooses one of them Student course Student course Specialized course Specialized course Specialized course Specialized course Specialized course Specialized course Student chooses one of them Student course Student cou	Prerequisite	Calculus 2	2	course	course		
MAF221 Prerequisite MAF105 MAF222 MAF222 MAF223E Mathematical Analysis EDF226 EDF227E EDF228E MAF228E MAF220 Real Analysis Analytical Geometry 2 Analytical Geometry 2 Specialized course Compulsory course Specialized course Compulsory course Specialized course Specialized course Course Specialized course Specialized course Course Specialized course Course Specialized course Course Specialized course Course Student chooses one of them Student course Course Educational and Administrative Theories Creativity and Talent Development EDF228E Creativity and Talent Development Education for Sustainable development Administrative Theories EDF230 Miscro-Tasching 1 Field Compulsory Student chooses one of them Compulsory	MAS110						
MAF221 Prerequisite MAF105 MAF222 Numerical Analysis MAF223E Mathematical Analysis EDF226 EDF227E EDF228E Development	MAF220	Real Analysis	2	· ·	-	ory	
Prerequisite MAF105 MAF222 Numerical Analysis MAF223E Multimedia Mechanics MaF224E Mathematical Analysis EDF226 EDF227E EDF227E EDF228E Development Course Analytical Geometry 2 Specialized course Course Specialized course Course Course Specialized course Course Course Specialized course Course Course Course Course Elective course Course Course Course Educational course Course Course Course Course Course Course Educational Elective course Course Course Student chooses course Course Educational Elective course Course Course Educational Elective course Course Educational Elective course Course Course Course Student chooses course Course Educational Elective course Course Course Course Course Course Student chooses course Course Educational Elective course Course Course Course Student chooses course Cour		, , , , , , , , , , , , , , , , , , ,		t			
MAF222 Numerical Analysis MAF223E Multimedia Mechanics MAF224E Mathematical Analysis EDF226 Developmental Psychology EDF227E EDF227E EDF227E EDF228E Creativity and Talent Development EDF228E Development EDF228E Development EDF228E Development Dev			2		Compuls	ory	
MAF223E Maf224E Mathematical Analysis EDF226 EDF227E EDF227E EDF228E Marcolled Course Marcolled Mechanics 2 Specialized course Course Course Course Educational and Administrative Theories EDF228E EDF228E Creativity and Talent Development Education for Sustainable development EDF230 Microlled Analysis 2 Specialized course Elective course Course Course Elective course Course Course Educational Elective course Course Course Educational Elective course Course Educational Elective course Course Course Field Compulsory Student Chooses one of them Educational Elective course Field Compulsory	•	Analytical Geometry 2	2	course	course		
MAF223E Maf223E Multimedia Mechanics Maf224E Mathematical Analysis EDF226 EDF227E EDF227E EDF228E Course Specialized course course chooses one of them Course Chooses One of them Chooses One of them Chooses Course Course Course Course Course Course Course Course Course Chooses One of them Chooses Course			Specialized		Compulsor		
MAF223E Multimedia Mechanics Mathematical Analysis EDF226 Developmental Psychology EDF227E EDF227E EDF228E EDF228E Development Creativity and Talent Development EDF228E EDF228E EDF228E EDF228E EDF228E Development EDF228E Development EDF228E Development EDF228E Development EDF228E Development EDF228E EDF228E Development EDF228E Development EDF228E EDF230 EDF23		Numerical Analysis	2	I .			
MAF223E Mathematical Analysis Developmental Psychology EDF227E EDF228E Development Creativity and Talent Development EDF228E EDF228E Development EDF228E EDF228E Development EDF228E Development Educational and Compulsory course Educational and Course Course Educational Elective course Course						Ctudont	
MAF224E Mathematical Analysis Developmental Psychology EDF227E EDF227E EDF228E Development Creativity and Talent Development Education for Sustainable development EDS231E Micro-Teaching 1 Development D	MAF223E	Multimedia Mechanics	2	•			
MAF224E Mathematical Analysis Developmental Psychology EDF227E EDF227E EDF228E Development Creativity and Talent Development Education for Sustainable development Development Development EDF230 Micro-Teaching 1 Development Course Educational Compulsory Course Course Educational Compulsory Educational Elective course Course Student chooses one of them Field Compulsory			2				
EDF227E EDF227E EDF227E EDF227E EDF228E EDF230 EDF228E EDF28E EDF228E EDF22	MAF224E	Mathematical Analysis	2	•			
Psychology EDF227E Educational and 2 Educational Elective course Creativity and Talent Development EDF228E EDF228E EDF228E Creativity and Talent Development Education for sustainable development EDF230 Micro-Teaching 1 Course course Educational Elective course one of them Field Compulsory		Davidanasantal	2				
EDF227E Educational and Administrative Theories Creativity and Talent Development EDS231E EDS231E Educational Elective course Creativity and Talent Development Education for Sustainable advelopment Education and Elective course one of them Field Compulsory	EDF226	· ·	2		·	ory	
EDF228E Administrative Theories course course Creativity and Talent Development 2 Educational chooses one of them EDS231E Sustainable course development 2 course course course course course course course course file them Student chooses one of them Field Compulsory		· • • • • • • • • • • • • • • • • • • •	2				
EDF228E Creativity and Talent Development 2 Educational chooses one of them EDS231E Education for Sustainable course development 2 Compulsory Micro-Teaching 1 1 Field Compulsory	EDF227E		2				
EDF228E Development Education for sustainable development Development Education for sustainable course development Development Educational course course one of them Field Compulsory			2			Student	
EDS231E Education for sustainable development 2 Educational course course them Education for sustainable course 2	EDF228E	-	2			chooses	
EDS231E sustainable 2 course course them development EDE230 Micro-Teaching 1 1 Field Compulsory						one of	
development Field Compulsory	EDC221E		2			them	
FDE230 Micro-Teaching 1 1 Field Compulsory	ED3231E		2	course	course		
FDF230 Micro-Teaching 1 1 ' '		development		Field	Compuls	orv	
	EDF230	Micro-Teaching 1	1		•	OI y	
Total number of Credit Hours for This Term is 19 Credit Hours							

Forth Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Cours	е Туре
MAS225	Topology	2	Specialized course	Compulse	ory
MAS226	Spherical Geometry	2	Specialized course	Compulse course	ory
MAS227	Calculus Equations	2	Specialized course	Compulse course	ory
MAS228	Physical Chemistry	2	Specialized course	Compulse course	ory
MAS229 Prerequisite MAF219	Calculus3	2	Specialized course	Compulse course	ory
MAS230	Analytical Dynamics	2	Specialized course	Compulse course	ory
MAS231E	statistical Analysis	2	Specialized course	Elective course	Student chooses
MAS232E	Inferential Statistics	2	Specialized course	Elective course	one of them
EDS238	Learning Assessment	2	Educational course	Compulse course	ory
EDS239E	Psychological and educational counseling	2	Educational course	Elective course	Student
EDS240E	Contemporary Approaches in Teaching Specialization	2	Educational course	Elective course	chooses one of
EDS243E	International organizations and education development	2	Educational course	Elective course	them
EDS242	Micro-Teaching 2	1	Field Training	Compulse course	ory
TECN	Communication and Information Technology in Teaching and Research	0	Cultural noncredit course	Compulsory course	
Total number of Credit Hours for This Term is 19 Credit Hours					

Fifth Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Cours	Course Type	
MAF333	Fluids	2	Specialized course	Compuls	ory	
MAF334	Software for Mathematical and Statistical Applications	2	Specialized course	Compuls	Compulsory	
MAF335	Ring and Field Theories	2	Specialized course	Compuls course	ory	
MAF336	Linear Algebra	2	Specialized course	Compuls course	ory	
MAF337	Functional Analysis	2	Specialized course	Compulsory course		
MAF338	Quantum Mechanics	2	Specialized course	Compuls course	ory	
MAF339E	Probability and Statistics	3	Specialized course	Elective course	Student chooses	
MAF340E	Electromagnetic Theory	3	Specialized course	Elective course	one of them	
EDF350	Contemporary Trends in Psychology	1	Educational course	Compulsory course		
EDF351	Special Needs Inclusion	1	Educational course	Compuls course	ory	
EDF352E	Alternative Assessment and Its Applications	2	Educational course	Elective course	Student	
EDF353E	Education and Entrepreneurship	2	Educational course	Elective course	chooses one of	
EDF354E	Electronic Education	2	Educational course	Elective course	them	
FTF32	Field Training 2	1	Field Training	Compulsory course		
Total number of Credit Hours for This Term is 20 Credit Hours						

Sixth Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Course Type		
MAS341	Complex Analysis	2	Specialized course	Compulso	ory course	
MAS342	Operation Research	2	Specialized course	Compulso	ory course	
MAS343	Biomathematics	2	Specialized course	Compulso	ory course	
MAS344	English Readings in the Specialty	2	Specialized course	Compulsory course		
MAS345	Integral Equations	2	Specialized course	Compulso	ory course	
MAS346E	Elasticity	3	Specialized course	Elective course	Student chooses	
MAS347E	Calculus Geometry	3	Specialized course	Elective course	one of them	
MAS348E	Theory of Relativity	3	Specialized course	Elective course		
EDS362	International and Comparative Education	1	Educational course	Compulso	ory course	
EDS363	School curriculum	1	Educational course	Compulso	ory course	
EDS364E	Mentorship and Reflection on Professional Practices	2	Educational course	Elective course	Churdont	
EDS365E	Subject and Interdisciplinary-Based Learning	2	Educational course	Elective course	Student chooses one of them	
EDS366E	Multiple Intelligences	2	Educational course	Elective course	шеш	
FTS33	Field Training 3	1	Field Training	Compulsory course		
Total number of Credit Hours for This Term is 18 Credit Hours						

Seventh Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Course Type	
ED40F	D40F Graduation Project (1) 1		Educational	Compulsory	
25401	Graduation Project (1)	_	course	course	
ED41F	Action Research (1)	1 Educational course	Educational	Compulsory	
LD41F	Action Research (1)		course		
FTF44	Field Training 4	5	Field	Compulsory	
F1F44	Field Halling 4	,	Training	Compulsory course Compulsory course Compulsory course	
Total number of Credit Hours for This Term is 7 Credit Hours					

Bachelor's Program Plan of Science and Education Math Specialization (Credit Hour System)

Eighth Semester

Course Code and pre- requisite	Course Title	Credit Hours	Course Category	Course Type	
ED40S	Graduation Project (2)	2	Educational	Compulsory	
		course	course	course	
ED41S	Action Research (2)	1 Educationa course	Educational	Compulsory	
LD413	Action Research (2)		course	course	
FTS45	Field Training 5	5	Field	Compulsory	
F1343	Field Halling 5	3	Training	Compulsory course Compulsory course Compulsory course	
Total number of Credit Hours for This Term is 8 Credit Hours					