Department of Mathematics Academic Course Description General Mathematics Branch

First year								
First semester				Second semester				
	Hours				Hours			
Subject	THEO	Pract.	Units	Subject	THEO	Pract.	Units	
Calculus 1	3	-	3	Calculus 2	3	-	3	
Fundamental of mathematics 1	3	-	3	Fundamental of mathematics 2	3	-	3	
Linear Algebra 1	3	-	3	Linear Algebra 2	3	-	3	
Mathematical methods	3	-	3	Physics	2	-	2	
Computer 1	-	1	1	Computer 2	-	2	1	
Human Rights	1	-	1	Arabic Language 2	1	-	1	
Arabic Language 1	1	-	1	English Language	2	-	2	
				Freedom and Democracy	1	-	1	

Second year									
First semester				Second semester					
	Hours				Hours				
Subject	THEO	Pract.	Units	Subject	THEO	Pract.	Units		
Advanced calculus	3	-	3	Ordinary differential equations	3	-	3		
Method of ordinary differential equations solution	3	-	3	Applications in group theory	2	-	2		
Finance mathematics	3	-	3	Hypothesis testing	2	-	2		
Introduction of group theory	2	-	3	Algorithms and programming language	2	2	3		
Principles of statistic	2	-	1	Vector analysis	2	-	2		
Computer 3	-	1	1	Computer 4	-	2	1		
Women and law	1	-	1	Civilian leaders	1	-	1		
				English language	2	-	2		

Third year									
First semester				Second semester					
	Hours				Hours				
Subject	THEO	Pract.	Units	Subject	THEO	Pract.	Units		
Mathematical Analysis 1	4	-	4	Mathematical analysis 2	4	-	4		
Partial Differential Equations 1	3	-	3	Partial differential equations 2	3	-	3		
Numerical Analysis 1	3	2	4	Numerical Analysis 2	3	1	4		
Ring Theory	2	-	2	Mathematical statistic 2	3	-	3		
Probability Theory	3	-	3	Module theory	3	-	3		
Operation Research 1	3	-	3	Operation Research 2	3	-	3		
English Language	2	-	2						
Scientific research method	1	-	1						

Fourth year									
First semester				Second semester					
	Hours				Hours				
Subject	THEO	Pract.	Units	Subject	THEO	Pract.	Units		
General topology	3	1	3	Subjects in topology	3	1	3		
Theory of differential equations 1	3	1	3	Theory of differential equations 2	3	1	3		
Complex analysis 1	4	1	4	Complex analysis 2	4	1	4		
Mathematical modeling	3	1	3	Biological mathematics	3	1	3		
Functional analysis	3	1	3	Approximation theory	3	1	3		
Integral equations	3	1	3	Graph theory	3	1	3		
English language	2	-	2	Graduation Research project	2	-	2		