

## PHD IN MATHEMATICAL SCIENCES - APPLIED MATHEMATICS

EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	608	Advanced Linear Algebra	3	0	3	3	None	None
AMS	621	Advanced Statistics	3	0	3	3	None	None
AMS	613	Advanced Math Programming	3	0	3	3	None	None
			Total		9	9		

FIRST YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AMS	622	Advanced Linear Models	3	0	3	3	None	None
AMS	611	Advanced Simulation Methods I	3	0	3	3	None	None
Math	603	Real Analysis	3	0	3	3	None	None
			Total		9	9		

FIRST YEAR								
<i>Summer</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	606	Functional Analysis	3	0	3	3	None	None
AMS	631	Special Topics in Mathematical Sciences I	3	0	3	3	None	None
			Total		6	6		

**SECOND YEAR***First Semester*

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	605	Advanced Abstract Algebra	3	0	3	3	None	None
AMS	602	Advanced Mathematical Modeling	3	0	3	3	None	None
AMS	612	Advanced Simulation Methods II	3	0	3	3	None	None
			Total		9	9		

**SECOND YEAR***Second Semester*

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AMS	623	Stochastic Processes	3	0	3	3	None	None
AMS	624	Multivariate Analysis	3	0	3	3		
AMS	632	Special Topics in Mathematical Sciences II	3	0	3	3		
			Total		9	9		

**SECOND YEAR***Summer*

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	631	Philosophy of Mathematics	3	0	3	3	None	None
AMS	633	Special Topics in Mathematical Sciences III	3	0	3	3	None	None
			Total		6	6		

**THIRD YEAR**

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AMS	699	Dissertation Writing				15	None	None
			Total		15	15		