Pakistan Urdu School- Kingdom of Bahrain

Curriculum Implementation Plan for MATHEMATICS Grade - XII Sc

1st Term

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency/Standards/Themes)	Total Periods
Unit 1 – Functions & Limits					
1	May/4th	20-05-2018	Types of Functions	**Algebra** • Interpret function, calculate rate of function and also find limits.	14
2			Inverse of Function		
3			Limit of a Function		

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency/Standards/Themes)	Total Periods
			Unit 1 – Functions & Limits (Cont.)		
4	August/5th	28-08-2018	Continuous & Discontinuous Function	**Algebra** • Analyze attributes of functions and give their graphical representation.	4
5			Graphs		
			Unit 7 – Vectors		
6	Sep. /1st	03-09-2018	Introduction of vector in a plane	**Measurement and Geometry** • Identify vector in space and apply vector addition cross and dot product, scalar triple product.	10
7			Introduction of vector in a Space		
8			Scalar Product of two Vectors		
9			Vector product of two Vectors		
10			Scalar triple Product of Vectors		
			Unit 5 – Linear programming		
11	Sep./3rd	18-09-2018	Linear Inequalities & their Graphs	**Algebra** • Identify linear inequalities and their graphs and also linear programming.	6
12			Feasible Solution of Set		
13			Linear Programming		

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			Unit 2 - Differentiation		
14	Sep/4th	27-09-2018	Derivative of a Function	**Algebra** • Identify theorems on differentiation and also discuss about function of trig.	14
15			Theorems on Differentiation		
16			Chain Rule		
17			Differentiation of Trigonometry & Inverse Trigonometric Functions		
18			Differentiation of Exponential & Logarithmic Functions		
19			Differentiation of Hyperbolic & Inverse Hyperbolic Functions		
			Unit 3 - Integration		
20	Oct./3rd	17-10-2018	Introduction	**Algebra** • Evaluate rules of integration and also integration using partial fraction.	19
21			Rules of Integration		
22			Integration by Substitution		
23			Integration by Parts		
24			Integration using Partial Fractions		
25			Definite Integrals		
26				**Revision**	
27				**2nd Term Examination**	

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Unit 3 – Integration (Cont.)					
27	Dec./5th	30-12-2018	Integration by limit	**Algebra** • Evaluate definite integrals by numerical method.	7
28			Integration using differentiation		
29			Integration state mental questions		
Unit 4 - Introduction to Analytic Geometry					
30	Jan./1st	09-01-2019	Coordinate System	**Measurement and Geometry** • Evaluate about coordinate system and identify about two or three straight lines and also homogenous equation.	12
31			Translation & Rotation of Axes		
32			Equations of Straight Lines		
33			Two & Three Straight Lines		
34			Homogeneous Equations of 2nd degree in two variable $x \& y$		
Unit 6 – Conic Section					
35	Jan./4th	27-01-2019	Introduction to Circle	**Measurement and Geometry** • Identify and analyze conic section (circle, parabola, ellipse and hyperbola).	15
36			Introduction to Parabola		
37			Introduction to Ellipse		
38			Introduction to Hyperbola		
39				**Revision**	
40				**Preliminary Examination 2019**	

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