



**Pakistan Urdu School- Kingdom of Bahrain**  
**Curriculum Implementation Plan for Business Mathematics - Grade XI Com.**

**1<sup>st</sup> Term**

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency, Standards, Themes)	Total Periods
<b>Unit 10 – Matrices</b>					
1	April/4 <sup>th</sup>	23-04-2018	Matrices ,Properties of Matrices, Types of Matrices	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>Identify Matrices ,ways of representing matrices &amp; effects of operations in various situations.</li> </ul>	15
2			Addition ,subtraction & Transpose of matrix	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>Manipulate different types of Matrices &amp; apply operations on it.</li> </ul>	
3			Additive identity and additive inverse		
4			Discuss whether the given matrices are conformable for multiplications apply the Properties of Multiplication.	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>Identify Matrices ,ways of representing matrices &amp; effects of operations in various situations.</li> </ul>	
5			Inverse of a matrix	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>Manipulate different types of Matrices &amp; apply operations on it.</li> </ul>	
6			Solution of linear equations by inverse of a matrix and verify that $AA^{-1} = A^{-1}A = I$		
7			Solution of a linear equations by Cramer’s rule		
<b>Unit 09 – Binary Number system</b>					
8	May/4 <sup>th</sup>	24-05-2018	Binary system , Describe the following number systems: a) Binary ( base 2 ) b) Decimal ( base 10 )	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>Identify number, ways of representing numbers &amp; effects of operations in various situations.</li> </ul>	7
9			Conversion of binary number to decimal number and vice versa		
10			Fundamental arithmetic operations in binary numbers		

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<b>Unit 01 – Ratio and Proportion</b>					
1	August	28-08-2018	Ratio	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>• Compute frequently with fractions , decimals &amp; percentages</li> </ul>	5
3			Proportion		
4			Types of Proportion		
<b>Unit 02 – Percentages</b>					
5	September	23-09-2018	Percentage	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>• Compute frequently with fractions , decimals &amp; percentages.</li> </ul>	5
6			Mark up and mark down		
7			Percentage of increase and decrease		
8			Discount and commission		
<b>Unit 03 – Simple and Compound Interest</b>					
9	September	30-09-2018	Simple interest	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>• Compute frequently with fractions , decimals &amp; percentages</li> </ul>	7
10			Compound interest		
11			Time & Rate		
<b>Unit 04 – Annuity</b>					
12	October	09-10-2018	Introduction of Annuity	<b>Numbers and Operations</b> <ul style="list-style-type: none"> <li>• Compute frequently with fractions , decimals &amp; percentages</li> </ul>	8
13			Interest and annuities		
14			Annuity due and ordinary annuity.		
15			Present value of annuity and Future value of annuity.		

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<b>Unit 05 – Functions and Graphs</b>					
16	November	21-11-2018	Rectangular coordinate system	<b>Measurements &amp; Geometry</b> <ul style="list-style-type: none"> <li>Recognize , analyze , draw and interpret the functions.</li> </ul>	8
17			a) Binary relation b) Domain and Range		
18			Linear and quadratic functions		
19			Interpret the graphs of linear and quadratic functions		
20			Intercept form		
21			Quadratic functions		
22					
23				<b>2<sup>nd</sup> Term Examination</b>	

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency/Standards/Themes)	Total Periods
<b>Unit 05 – Functions and Graphs(Cont.)</b>					
1	December	31-12-2018	Quadratic Functions	<b>Measurements &amp; Geometry</b> <ul style="list-style-type: none"> <li>Recognize, analyze, draw and interpret the functions.</li> </ul>	8
2			Linear function		
3			Linear function		
4			Application of functions in Business and Economics		
<b>Unit 06 – Linear Equations</b>					
5	January	13-01-2019	Linear equation in one Unknown	<b>Algebra</b> <ul style="list-style-type: none"> <li>Solve non-linear equation numerically</li> </ul>	8
6			Solve linear equation in one variable		
7			Application of linear equation in one variable		
<b>Unit 07 – Quadratic equations</b>					
8	January	23-01-2019	Quadratic equation	<b>Algebra</b> <ul style="list-style-type: none"> <li>Analyze attribute of quadratic equations</li> </ul>	11
9		04-02-2019	Different type of methods in second degree equation.		
10		11-02-2019	Quadratic formula		

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<b>Unit 08 – Simultaneous Systems of Equations</b>					
11	February	10-02-2019	Quadratic equation	<b>Algebra</b> • Analyze attribute of quadratic equations	12
12			Elimination and Substitution method		
13			Application of quadratic equation in one unknown.		
14				<b>Revision</b>	
15				<b>Preliminary Examination 2019</b>	

Prepared by : Mr. Shahzad Umran