

**S.G.M. College of Commerce and Management**  
**Business Mathematics-I- BBA**  
**Semester-I**

Sr.No	Topic	Sessions required
<b>1</b>	<b>Set Theory:</b>	<b>12</b>
	-sets, subsets ,equality of two sets, null set, universal set	02
	-Complement of a set, union and intersection of sets	02
	-Difference of two sets, venn diagram, laws of algebra of sets	03
	-De Morgan laws and Cartesian product of two sets	02
	<b>Real Numbers:</b> Real numbers, Absolute value and its properties(without proof)	03
<b>2</b>	<b>Determinant and Matrix:</b>	<b>12</b>
	-Meaning, Determinants and their basic properties(without proof)	02
	-Cramer's Method	02
	-Matrices-Addition, Subtraction, Scalar multiplication	02
	-Types of matrices- Square, null, Identity, transpose of a matrices	01
	-Symmetric ,skew-symmetric, singular, non singular, inverse, adjoint of a Matrix	02
	-Only solution of a system of three linear equations using matrix theory	03
<b>3</b>	<b>Co-ordinate Geometry:</b>	<b>11</b>
	-Cartesian co-ordinate system, Distance between two points	03
	-slope of line, slope of parallel and perpendicular lines	03
	-equations of a line 1. two point form 2. point slope form 3. intercept form 4.two intercept form 5. general form	05
<b>4</b>	<b>Limit :</b>	<b>10</b>
	-Limits of a function	03
	-Limits of sum, product and quotient of two functions(without proof) and use of them for evaluating other limits	07
	<b>Total:</b>	<b>45</b>