

SYLLABUS FOR THE YEAR 2017-2018

BUSINESS MATHEMATICS (XII Standard)

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| June | Applications of Matrices and Determinants | I | Inverse of matrix, Systems of linear equations | 1-25 |
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| July | Applications of differentiation-I | I | Functions in economics and commerce | 77-91 |
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| | Applications of differentiation-II | IV | Maxima and minima | 110-122 |
| August | Applications of differentiation-II | I | Application of maxima and minima | 122-134 |
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| | Applications of integration | IV | Fundamental theorem of integral calculus | 150-156 |
| September | Applications of integration | I | Geometrical interpretation of definite integral as area under a curve | 156-161 |
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| | | III & IV | Quarterly Exam | |
| October | Differential Equations | I | Formation of differential Equations First order Differential Equations | 1-28 |

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| October | Differential Equations | II | Second order differential equations with constant coefficients | 28-37 |
| | Interpolation and fitting a straight line | III | Interpolation- Newtons formula- Lagranges formula - fitting a line | 38-68 |
| | Probability distributions | IV | Random variable- mathematical expectation- discrete and continuous distributions | 69-110 |
| November | Sampling and statistical inference | I | Sampling and types of errors- estimations- hypothesis testing | 111-146 |
| | Applied statistics | II | Linear programming- correlation- regression- time- series analysis- index numbers- statistical quality control | 146-217 |
| | | III | Revision | |
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| December | | I | Revision | |
| | | II | Half-yearly exam | |
| January | I Model Exam | | | |
| February | II Model Exam (optional alone) | | | |