

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

BoS in Physics (Photonics)

Bridge Course in Mathematics for M.Sc. Physics

(w.e.f. Academic Year 2019-20)



Prepared by

Department of Physics and Electronics

Rajarshi Shahu Mahavidyalaya, Latur

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Contents

Sr.No	Module	Lectures
I	Quadratic Equation and its Solution	02
II	Binomial Theorem (Binomial Theorem and Binomial Theorem for positive integral index)	02
III	Logarithms (Indices, Natural and Common Logarithm laws of logarithms of 1, Change of base, Using log table, Using log for calculation, Antilog of negative number)	02
IV	Trigonometry (Angle, System of Measurement of an angle Definition of a radian, Trigonometrical Ratios of allied angles, Trigonometric identities)	02
V	Differentiation (Constant Rate of Change, Rate of change that is Not Constant, Differential Coefficient or derivative of a function, Theorems of Differentiations, Differential Coefficients of :Trigonometric Functions; Logarithmic and Exponential Functions)	02
VI	Integration (Fundamental Formulae of Integration, Theorems of Integration, Definite integral, Application of integration in physics, Some important Integration formulas)	02