



Rayat Shikshan Sanstha

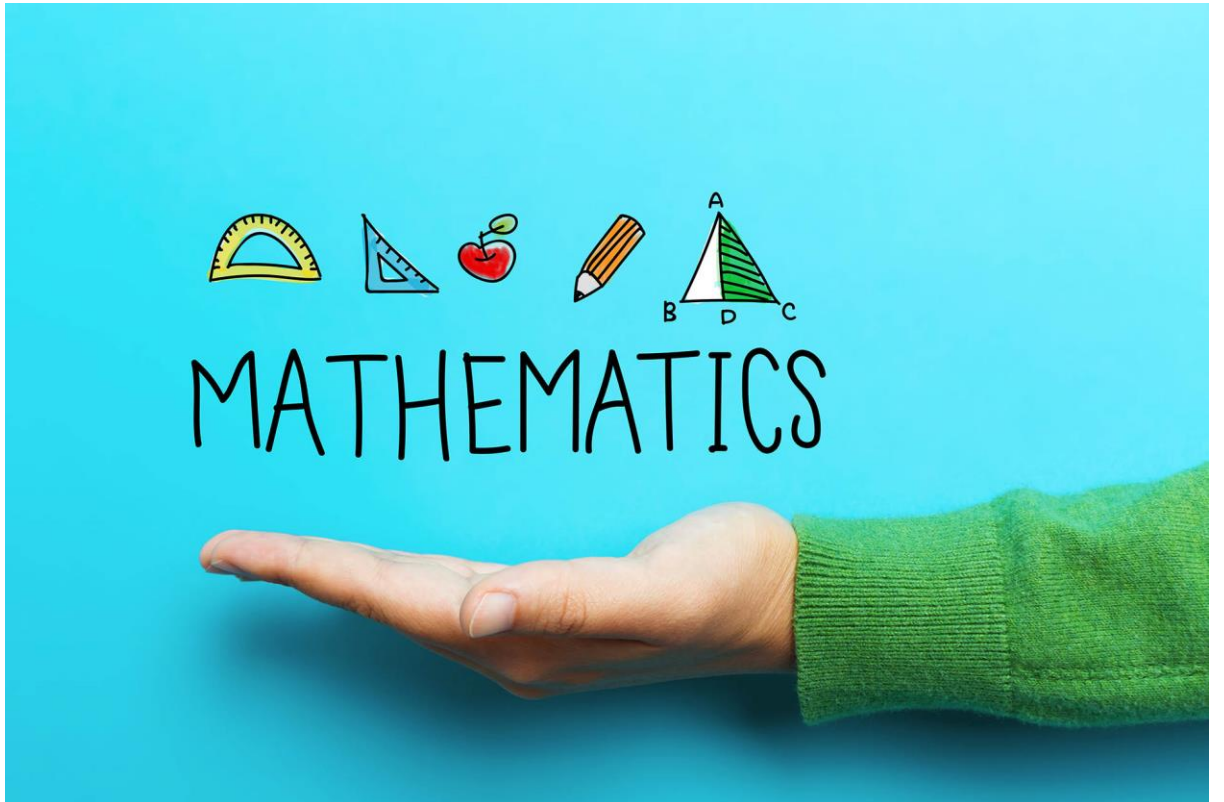
Rayat Shikshan Sanstha's



**Rao Bahadur Narayanrao Borawake College,  
Shrirampur**

**Department of Mathematics**

*(Mathematics is Queen of all Sciences)*



**Presented by**

**Prof. R. R. Jagtap  
Prof. A. B. Pathak  
Prof. R. B. Shelke**

**Prof. D.R. Chouhan  
Prof. P. S. Salunke  
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# **What is Mathematics?**

**Mathematics** is the science of numbers and their operations, interrelations, combinations, generalizations, and abstractions and of space configurations and their structure, measurement, transformations, and generalizations”.

## **Eligibility for B. Sc. Mathematics**

S. Y. B. Sc (with Mathematics) or T. Y. B. Sc Computer Science

## **Eligibility for M. Sc. Mathematics**

Bachelor of Science with Mathematics

OR

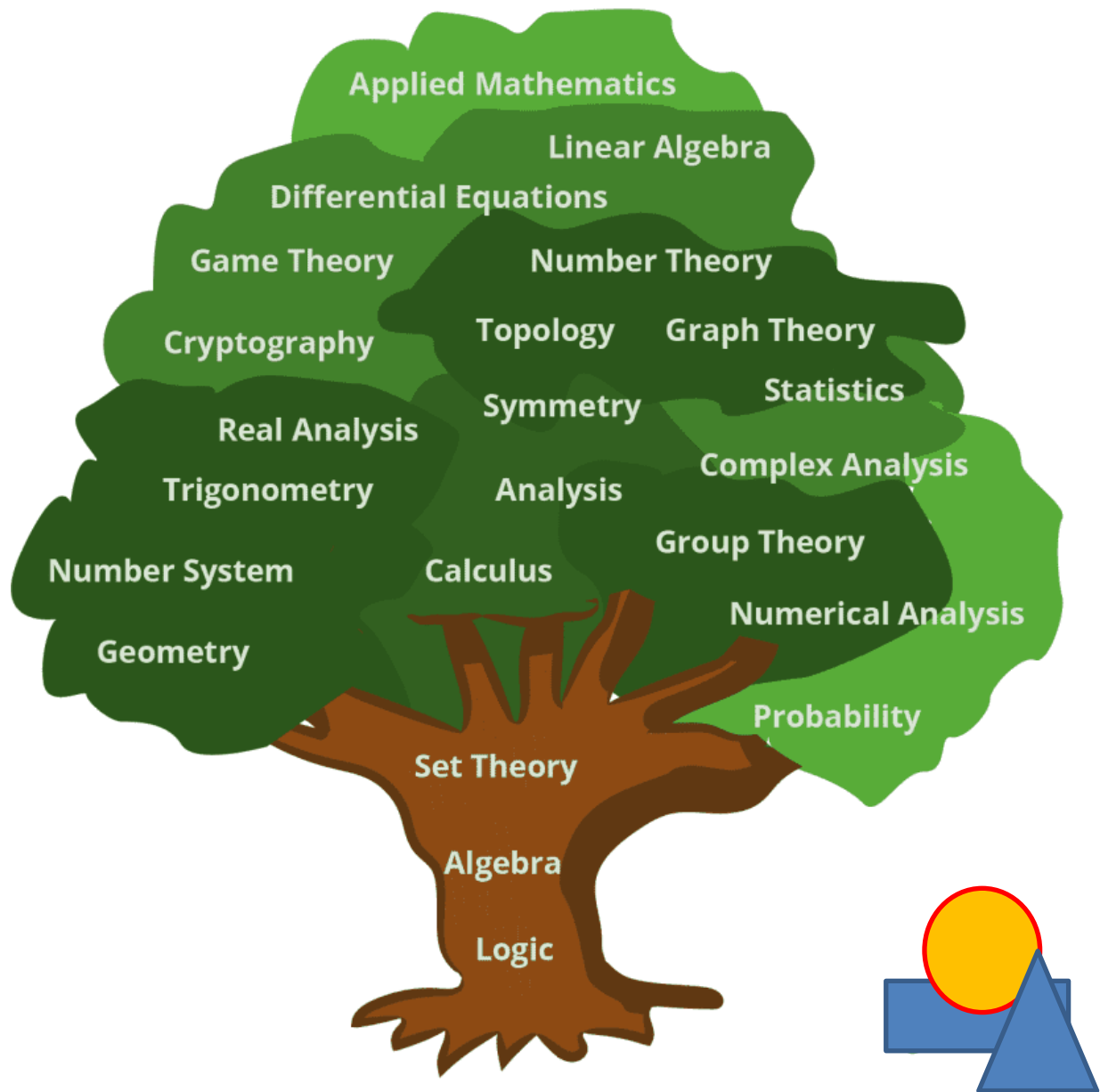
Mathematics at least upto second year B.E/ B. Tech /B.Sc.

## **Branches of Pure Mathematics**

Pure mathematics can be simply described as the study of mathematical concepts purely based on mathematics and independent of any concept outside of mathematics. Here is the list of branches of Pure Mathematics:

- Algebra
- Number Theory
- Geometry
- Arithmetic
- Topology
- Combinatorics
- Mathematical Analysis

# Branches of Mathematics



## Branches of Applied Mathematics

Applied Mathematics uses the applications of varied other disciplines and combines it with mathematical concepts. It is simply the combined application of mathematics with specialised knowledge.

Here are the branches of applied mathematics:

- Statistics and Probability
- Set Theory
- Calculus
- Trigonometry

## **Career Opportunities in Mathematics**

In recent years, “Mathematics” has become one of the best choices among students to choose as their career. There is a lot of scope for a career in Mathematics and the person in this field can find employment opportunities in the following areas.

## **Career Opportunities After BSc Mathematics**

- Post-Graduation in Mathematics/Statistics/Data Science.
- Jobs in Software Companies (Like Infosys, Wipro, TCS)
- Job as technical Assistant in Research institute and Factory (DRDO, ISRO, ISSER, TIFR, BARC).
- Indian Armed Force, Indian Navy, Indian Air force
- Civil Services (MPSC, UPSC)
- Data Analyst
- Machine Learning Engineer
- Operational Researcher
- Self-Employment (Private Tutions)
- Banking Sector
- Financial/Investment Analyst
- Research Assistant
- Actuarial Science
- Accountancy and Professional Service
- Teacher in schools and High schools
- Government Jobs after B.Sc. Mathematics
- Online Tutoring/ Textbook Solutions.

# **Career Opportunities After M. Sc. Mathematics**

- Jobs in Software Companies (Like Infosys, Wipro, TCS)
- Job as Technical Assistant/ Research Assistant in Research institute and Factory (DRDO, ISRO, ISSER, TIFR, BARC).
- Data Analyst
- Doctor of Philosophy in Mathematics (with JRF)
- M. Tech in IIT/NIT
- Machine Learning Engineer
- Operational Researcher
- Research Assistant/Scientist (Research and Development firms)
- Indian Armed Force, Indian Navy, Indian Air force
- Civil Services (MPSC, UPSC)
- Self-Employment (Private Tutions)
- Banking Sector
- Financial/Investment Analyst
- Actuarial Science
- Accountancy and Professional Service
- Professor in Colleges/University
- Government Jobs after M.Sc. Mathematics
- Online Tutoring/ Textbook Solutions.
- Economic Research firms
- Market Research firms