"Dissemination of Education for Knowledge, Science and Culture"
- **Shikshanmaharshi Dr. Bapuji Salunkhe**

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

RAJE RAMRAO MAHAVIDYALAYA, JATH
Dist- Sangli

UGC Recognition under 2F & 12 (B) UGC Act 1956

(Affiliated to Shivaji University, Kolhapur)

NAAC Reaccrediated: "B" (Third Cycle)

DEPARTMENT OF MATHEMATICS

SYLLABUS FOR CERTIFICATE COURSE
In

"MATHEMATICS FOR COMPETITIVE EXAMINATIONS"

Syllabus to be implemented from Jan 2020 to onwards.

Aims and Objectives:-

1. The aim of the certificate course is to use the basic concepts of math's calculations in day to day life.

2. From these course students acquires the knowledge about different types of the math's tricks used in regular life.

3. Also it creates awareness about the importance of the math's formulae and tricks in regular life.

Course Outcomes:-

1. Student acquire knowledge about functioning and use of the maths tricks

2. Operates the percentage trick of calculation in various things of the day todays life.

3. Operates the process of calculating areas of different figures is very important is day to day life.

Intake Capacity:-

The intake capacity of the course is 30students from class B.Sc-I, II, III

Period:-

The duration of the course is 30 days (30 lectures of 48 minutes)

Evaluation System:-

Course Title	**Marks**				
Mathematics for Competitive Examinations	Attendance	Home Assignment	Unit Test	Final Exam	Total
	10 marks	20 marks	20 marks	50 marks	100 marks

Title of Course: **Mathematics for Competitive Examinations**

Theory: 24 Hrs. (30 Lectures of 48 minutes) Marks – 100

Unit I: Averages **02 lects**

1.1 Defination
1.2 Formulae
1.3 Examples

Unit II: Problems on Ages **03 Lects**

2.1 Definition
2.2 Formulae
2.3 Examples

Unit III: Surds and Indices **04 Lects**

3.1 Definition
3.2 Formulae
3.3 Examples

Unit IV: Percentages **03 Lects**

4.1 Definition
4.2 Formulae
4.3 Examples

Unit V: Profit and Loss **03 Lects**

5.1 Definition
5.2 Formulae
5.3 Examples

Unit VI: Ratio and Proportion **03 Lects**

6.1 Definition
6.2 Formulae
6.3 Examples

Unit VII: Time and work **04 Lects**

7.1 Definition
7.2 Formulae
7.4 Examples

Unit VIII: Time and Distance **04 Lects**

8.1 Definition
8.2 Formulae
8.3 Examples

Unit IX: Problems on Train **04 Lects**

9.1 Definition
9.2 Formulae
9.3 Examples

Reference Books:

1. Quantitative Aptitude-Dr. R. S. Aggarwal (S.Chand)
2. Objective Arithmetic- Dr. R. S. Aggarwal (S.Chand)
3. Quantitative Aptitude for Banking Examination-Vijay Shankar Shrivastva (S.Chand)