SWAMY SASWATHYKANANDA COLLEGE, POOTHOTTA

DEPARTMENT OF MATHEMATICS

SYLLABUS FOR CERTIFICATE COURSE

1. TITLE OF THE COURSE

CERTIFICATE COURSE IN MATHEMATICAL APTITUDE

2. AIM

The aim is to make learning mathematics meaningful and an enjoyable activity rather than acquiring manipulative skills and reducing the whole thing an exercise in thumb rules.

3. OBJECTIVES

The syllabi are framed in such a way that it will provide a more complete and logic frame work in almost all areas of basic mathematics.

4. DURATION OF THE COURSE

The duration of the course of study is 6 months.

5. ASSESSMENT AND EVALUATION

a) External

   A written examination of 2 hour duration will be conducted. The exam will be of 75 marks. A minimum of 40 % is required to pass the examination.

b) Internal

   The internal assessment will based on the percentage of attendance, assignments and viva. It is out of 25 marks.

Classification of internal marks.

Attendance	10
Assignment	10
Viva	5

Components of evaluation

Components of evaluation programme	Marks

Internal evaluation	25
Examination	75
Total	100

6. SCHEME

Course code	Course Title	Course Category	Teaching Hours
SSCMAT01	Mathematical Aptitude	Add-on	30

Mathematical Aptitude (30 Hrs.)

Module –I (10 Hrs.)

Number system, HCF and LCM of numbers, Fractions, Ratio and Proportion, Simplifications.

Module –II (10 Hrs.)

Percentage, profit and loss. Simple and compound interest, Coding, Blood relation

Module –III (10 Hrs.)

Area and perimeter of polygons, Time and work. Time and distance, Elementary Algebra, Average

Reference

1.M.Tyra & K Kundan-Concepts of Arithmetic