

# SAINTGITS COLLEGE OF APPLIED SCIENCES

## Value Added Course

### FOUNDATION IN MATHEMATICS

#### Course Code - VMTHFIM001

Mathematics is defined as the science of quantity, measurement and spatial relations. It deals with quantitative facts, relations as well as with problems involving space and form. The knowledge acquired by the student is greatly used for solving problems. The students can always verify the validity of mathematical rules and relationships by applying them to novel situations. Concept and principles become more functional and meaningful only when they are related to actual practical applications. Such a practice will make the learning of mathematics more meaningful and significant.

The course will give knowledge inputs to the candidates and expose them to the operational processes and daily life. The primary objective is to provide the basic concepts and applications of Mathematics suited to the needs of students appearing in the competitive examinations. There are several topics that could be included; the ordering of the chapters reflects the most desirable sequence of topic average, while at the same time allowing for flexibility in the choices of topics.

#### **Salient Features**

- To provide students an integrated view of theory and applications of mathematics.
- High quality academic rigour and specially prepared courseware.
- Enable students to learn at their own pace.
- The course will make the candidates job ready.
- The course is so designed that most employers would value it for talent scouting.

#### **Syllabus:**

##### **Quantitative Aptitude**

Numbers, HCF and LCM, Fraction, Ratio and Proportion, Percentage, Profit and Loss, Simple and Compound Interest, Distance and Time, Work and Time, Area and Volume

##### **Mental Ability and Test of Reasoning**

Letter and Number Series, Blood Relation, Coding – Decoding, Sense of Direction, Seating Arrangement

##### **Learning Materials:**



1. Text Books, Work book.
2. Handouts that aid better understanding of the subject.
3. Home assignments in relevant topics.
4. Reference books

**Instructional Techniques:**

1. Lecture Format
2. Theory and solved problem format
3. Blackboard

