




SAINTGITS COLLEGE OF APPLIED SCIENCES

VALUE ADDED COURSES 2017-'18

FOUNDATION IN MATHEMATICS


Dr. K. K. John
Principal
Saintgits College of Applied Sciences
Kottukulam Hills, Pathamuttom P. O.
Kottayam 686 532, Kerala



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ABOUT THE COURSE

Mathematics is the study of numbers, shapes and patterns. 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.

OBJECTIVES

The primary objective is to provide the basic concepts and applications of Mathematics suited to the needs of students appearing in the competitive examinations.

EXPECTED OUTCOMES

- Understand the basic concepts of quantitative ability.
- Understand the basic concepts of logical reasoning skills.
- Solve campus placement aptitude papers covering quantitative ability, logical reasoning and verbal ability.

DURATION

Total Duration: 30 hours

THIS COURSE IS USED TO ASSESS CANDIDATES REGARDING THEIR SKILLS, KNOWLEDGE, ABILITY AND PERSONALITY. APTITUDE TESTS ARE AN ACCURATE WAY OF PREDICTING THE POTENTIAL CONTRIBUTION OF A CANDIDATE AND THE LIKELIHOOD OF THEM ACHIEVING SUCCESS WITHIN THE ORGANIZATION.



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FEATURES

- G Combination of characteristics indicative of an individual capacity to acquire some specific knowledge and skill.
- With the development of mathematical reasoning, students recognize that mathematics makes sense and can be understood.
 - They learn how to evaluate situations, select problem-solving strategies, draw logical conclusions, develop and describe solutions, and recognize how those solutions can be applied.

SYLLABUS

Time & Distance, Time & Work, Direction, Coding Decoding, Problems based on Number & Letter Series, Ratio, Proportion, Number System, LCM, HCF, Simplification, Blood Relation, Clock Problem, Simple Interest, Compound Interest, Profit and Loss, Percentage

ADVANTAGES

Mathematics helps us to think analytically and to have better reasoning abilities. Analytical thinking refers to the ability to think critically about the world around us. It improves reasoning ability, which provides better job opportunities in Banking sector, Finance, etc.

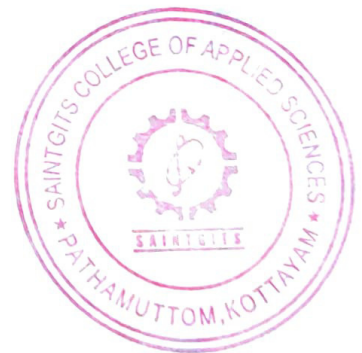



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SAINTGITS COLLEGE OF APPLIED SCIENCES

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

