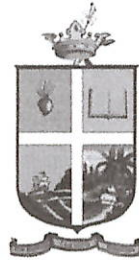




SACRED
HEART
COLLEGE
Autonomous



DEPARTMENT OF MATHEMATICS
ORGANIZES
VALUE ADDED COURSE
"BASIC MATHEMATICS LEARNING PROGRAMME"
2014-15
FOR
ALL BA/BSc/ B.COM STUDENTS

For more details please contact Mathematics Department

SACRED HEART COLLEGE, THEVARA, KOCHI
DEPARTMENT OF MATHEMATICS

Value added Course Code: 14MATVAC01

Course Title: “BASIC MATHEMATICS LEARNING PROGRAMME”

Eligible Students: BA/BSc/B.COM Semester-V Students.

This course enables students to face competitive examinations.

Learning objectives

- To get an idea about basic trigonometry
- To get a basic idea about number theory and set theory
- To solve problems in statistics especially probability
- To solve problems about distance and measurements

Syllabus (40 Hours)

Hour	Topic
1	Entry Test
2	Number System
3	Number System
4	H.C.F AND L.C.M
5	Simplifications
6	Square roots and Cube roots
7	Surds and Indices
8	Sequence and Series
9	Logarithm
10	Average
11	Percentage
12	Problems on Ages
13	Ratio & Propositions
14	Ratio & Propositions
15	Polynomials & Factorization
16	Linear Equations
17	Quadratic Equations
18	Time & Work
19	Time & Distance
20	Profit and Loss
21	Simple and Compound Interest
22	Simple and Compound Interest
23	Simple and Compound Interest

24	Measurements
25	Area, Volume, Surface Area
26	Area, Volume, Surface Area
27	Area, Volume, Surface Area
28	Trigonometry Identities
29	Height Distance
30	Height Distance
31	Statistics
32	Statistics
33	Statistics
34	Statistics
35	Statistics
36	Matrices
37	Matrices
38	Set Theory
39	Set Theory
40	Exit Test

Reference Text

1. S L Loney, Plane Trigonometry
2. *Prealgebra*, 5th Edition by Blair, Tobey, Slater;
3. Bank Coaching Text Book

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