

## Mathematics

Academic Year: 2017-2018

- **Course Name: Basic Mathematics**
- **Course Code : CMATH-01**

### Course Objectives:

The objective of the course is to introduce the students:

- The basic mathematics to the students. It assumes that the students have minimal knowledge to the subject.
- To help them acquire skills in solving quantitative aptitude by simple methods (mainly based on demonstration).
- During class time students are expected to engage in pair work.
- The focus of the students will be on quantitative aptitude in short span of time.

### Course Outcomes:

- Provide a platform to the students for building the fundamentals of basic mathematics for competitive examinations preparation strategy.
- Establish a framework to help students acquire knowledge and expertise necessary to secure employment opportunities in the Government sector.

### Course Contents:

Unit No.	Unit	Lectures
1	Numbers	1
2	HCF & LCM	1
3	Decimal Fractions	2
4	Simplification	2
5	Square and Cube roots	1
6	Average	1
7	Problems on Ages	2
8	Surds and Indices	2
9	Percentage	1
10	Profit and Loss	2
11	Ratio and Proportion	2
12	Partnership	2
13	Chain rule	2
14	Time and work	2
15	Pipes and cisterns	2
16	Time and distance	2

17	Problems on trains	2
18	Boats and streams	2
19	Simple and Compound interest	3
20	Surds and Indices	2
Total Lectures		36

**General Instructions:**

**Eligibility:**

Enrolled any student of Graduation Level

**Medium of Instructions:**

The medium of instructions for the course shall be English


**Examination Pattern:**

The 50 marks MCQ test will be conduct at the end of the course.

**Award of Certificate:**

The student shall be eligible for the award of the respective course certificate after he/she has successfully completed the course and has secured minimum 40 percent marks.

  
Chairman

  
**Principal**  
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