



# **St. Michael's College, Cherthala**

**Alappuzha, Kerala-688 539**

**Affiliated to University of Kerala  
and Re-accredited by NAAC with 'A' Grade**



**ADD ON COURSE 2018-19**

**Name of the Programme : BASIC MATHEMATICS**

**Name of the Department : MATHEMATICS**

**Course Code : MM 085**



# St. Michael's College

**MAYITHARA P.O., CHERTHALA, ALAPPUZHA-688539**

An institution with Minority Status Affiliated to the University of Kerala and  
Re-accredited by NAAC with 'A' Grade

## Add on Course - 2018-19

**COMMERCE**

Diploma in Goods & Services  
Tax Practices (DGSTP) & Tally

**ZOOLOGY**

Vermi Technology

**CHEMISTRY**

Polymer Technology

**PHYSICS**

Materials science

**SOFTWARE  
DEVELOPMENT**

Android Development

**TOURISM  
STUDIES**

Customer Service Executive

**HINDI**

Hindi Language and Communication

**MATHEMATICS**

Basic Mathematics

**ENGLISH**

Basics of Business Communication



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**NAME OF COURSE : BASIC MATHEMATICS**

**COURSE CODE : MM 085**

**NO OF STUDENTS ENROLLED : 40**

**CONTENTS**

- **SYLLABUS**
- **CLASS SCHEDULES**
- **ATTENDANCE STATEMENT**
- **QUESTION PAPER**
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**St. Michael's College, Cherthala**  
**Department of Mathematics**  
**Certificate Course in Basic Mathematics**  
**Syllabus**

**COURSE OBJECTIVES**

- To enhance the problem-solving skills, to improve the basic mathematical skills and to help students who are preparing for any type of competitive examinations.
- Effort has been made to accommodate fundamental, mathematical aspects to instil confidence among students.
- Enrich their knowledge and to develop their logical thinking ability

**COURSE OBJECTIVES**

After successful completion of this course, students will have the knowledge and skills to

- Solve the problems easily by using Short-cut method with time management which will be helpful to them.
- to clear the competitive exams for better job opportunity. Analyze the Problems logically and approach the problems in a different manner.

**UNIT I (10 Hours)**

Average, Problems on Numbers and Ages

- Basic Concepts, Practise questions

**UNIT II (10 Hours)**

Percentage and Ratio

- Basic Concepts, Results on population, Results on Depreciation, Practise questions

**UNIT III (10 Hours)**

Time, Distance and Work

- Basic Concepts, Train problems, Calendar problems, Clock problems, Practise questions

Text Book: R. S. Aggarwal, Quantitative Aptitude (Fully solved), Reprint 2016, S. Chand.

Reference Books:

1. R.V. Praveen, Quantitative Aptitude and Reasoning, 2nd Revised Edition 2013, Prentice-Hall of India Pvt. Ltd.
2. G. K. Ranganath, C. S. Sampangiram and Y. Rajaram, A text Book of business Mathematics, 2008, Himalaya Publishing House

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**Add-On Cell**  
**St. Michael's College, Cherthala**  
**Department Of Mathematics**  
**Basic Mathematics**  
**Class Schedule 2018-19**

Date	Day	Time	Name of Teacher	Class Room No
05-11-18	1	3.30 to 4.30	Asha Babu	A13
08-11-18	2	3.30 to 4.30	Asha Babu	A13
12-11-18	3	3.30 to 4.30	Asha Babu	A13
15-11-18	4	3.30 to 4.30	Asha Babu	A13
19-11-18	5	3.30 to 4.30	Asha Babu	A13
23-11-18	6	3.30 to 4.30	Asha Babu	A13
16-11-18	7	3.30 to 4.30	Asha Babu	A13
28-11-18	8	3.30 to 4.30	Asha Babu	A13
30-11-18	9	3.30 to 4.30	Asha Babu	A13
3-12-18	10	3.30 to 4.30	Asha Babu	A13
06-12-18	11	3.30 to 4.30	Asha Babu	A13
10-12-18	12	3.30 to 4.30	Asha Babu	A13
12-12-18	13	3.30 to 4.30	Asha Babu	A13
17-12-18	14	3.30 to 4.30	Asha Babu	A13
18-12-18	15	3.30 to 4.30	Asha Babu	A13
21-01-19	16	3.30 to 4.30	Asha Babu	A13
07-01-19	17	3.30 to 4.30	Asha Babu	A13
11-01-19	18	3.30 to 4.30	Asha Babu	A13
15-01-19	19	3.30 to 4.30	Asha Babu	A13
22-01-19	20	3.30 to 4.30	Asha Babu	A13
24-01-19	21	3.30 to 4.30	Asha Babu	A13
05-02-19	22	3.30 to 4.30	Asha Babu	A13
13-02-19	23	3.30 to 4.30	Asha Babu	A13
18-02-19	24	3.30 to 4.30	Asha Babu	A13
26-02-19	25	3.30 to 4.30	Asha Babu	A13





**St. Michael's College, Cherthala**  
**Add-on Course Examination March 2019**  
**Department of Mathematics**  
**Certificate Course in Basic Mathematics**

Time: 1 Hour

Max. Marks: 30

Section A

(Answer all questions. Each question carries 1 mark)

1. Define average of a set of numbers.
2. The average lies above the lowest number of the set and below the highest number of the set. State above statement is either true or false.
3. The sum of ages of 5 children born at the intervals of 3 years each is 50 years, What is the age of youngest child?
4. The population of a city grew from 20 lakh to 22 lakh. Find the percentage change?
5. A 25% of a number is 75. Then 45% of that number is....
6. The ratio between two numbers is 3:4 and their LCM is 180. Find the first number.
7. 6 men can do a piece of work in 12 days. How many men are needed to do the work in 18 days?
8. Today is Monday. After 61 days it will be....
9. Find the angle between the hands of a clock at 10.25.
10. A train running at the speed of 60km/hr crosses a pole in 9 sec. What is the length of the train?

(10 x 1 = 10 marks)

Section A

(Answer any 5 questions. Each question carries 2 marks)

11. Find the average of 4 numbers 12,13,17,18.
12. One year ago, the ratio of Ram and Sam ages was 2:3. After 5 years from now the ratio become 4:5. How old is Sam now?
13. After three successive equal percentage rises in the salary the sum of 100 rupees turned into 40 rupees. Find the percentage rise in the salary?
14. What number must be taken from each term of the fraction  $\frac{27}{35}$  that it may become 2:3.
15. What was the day of the week on 28<sup>th</sup> May 2019?
16. At what time between 3 and 4'O clock the hands make an angle of  $10^{\circ}$ .

(5 x 2 = 10 marks)

Section C

(Answer any 1 question. Each question carries 10 marks)

17. (A) A shop sold 64 kettles of 2 different capacities. The smaller kettle cost a rupee less than the larger one. The shop made 100 rupees from the sale of large kettle and 36 rupees from the sale of small one. How many kettles of either capacity did the shop sell and what was the price for each kettle?  
(B) If the total age of Manu and Sanu is twelve years more than the total age of Sanu and Charu. Charu is how many years younger than Manu?
18. (A) The population of a village is 1 lakh. Increase rate per annum is 10%. Find the population at the starting of the fourth year.

(B) A train moves at a constant speed of 120 km/hr for 1 km and at 40 km/hr for the next 1 km. What is the average speed of train?

(1 x 10 = 10 marks)

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**Add-On Cell 2018-19**  
**St. Michael's College, Cherthala**  
**Department of Mathematics**  
**Mark List- Basic Mathematics**

Sl No.	Candidate Code	Name	Department	Max. Marks 30
1	23518136001	Aiswarya Jayapal	Chemistry	30
2	23518136002	Anakha S.	Chemistry	30
3	23518136003	Aparna S.	Chemistry	29
4	23518136009	Hezline Moses	Chemistry	28
5	23518136010	Maria Gracy A.	Chemistry	22
6	23518136011	Milan Issac	Chemistry	22
7	23518136012	Nice Theresa Paul	Chemistry	30
8	23518136015	Sreelakshmi S L	Chemistry	30
9	23518136017	Swarna K. V.	Chemistry	30
10	23518136018	Thomas K. Mariyan	Chemistry	29
11	23518136021	Akshaya Prakasan	Chemistry	30
12	23518136022	Alwin Sarathi T. S.	Chemistry	29
13	23518136024	Anagha P. S.	Chemistry	28
14	23518136032	Nable T. J.	Chemistry	30
15	23518136033	Nikhil Venu	Chemistry	30
16	23518136034	Nirmal Sarath Alby	Chemistry	28
17	23518136036	Priyanka Raja	Chemistry	29
18	23518136037	Sandra Nelson	Chemistry	30
19	23518136040	Sufiya Hashim	Chemistry	27
20	23518136041	Winnie Mariam Joseph	Chemistry	28
21	23018136002	AKSHAYA MAHESH	Physics	30
22	23018136004	AMRUTHLAL	Physics	30
23	23018136005	ANJU VINCENT	Physics	30
24	23018136006	ANUSREE B	Physics	28
25	23018136017	SAIRAJ D	Physics	29
26	23018136018	SHAJOON XAVIER	Physics	26
27	23018136021	VISMAYA ANTONY	Physics	23
28	23018136022	ABITHA PRASANNAN	Physics	30
29	23018136023	AMAL GIREESH	Physics	29
30	23018136025	ATHIRA. S	Physics	29
31	23018136032	SIVASANKAR K PRASAD	Physics	30
32	15018136005	APARNA UDAYAN	Economics	30
33	15018136017	SREELAKSHMI B	Economics	28
34	15018136023	AKSHAY ASOK	Economics	28



35	15018136033	APARNA. K. V	Economics	29
36	15018136041	JAAZNAMOL. J	Economics	30
37	15018136053	MEENU PUSHKARAN	Economics	30
38	15018136058	RAISAL MARTIN	Economics	20
39	15018136064	SANAMOL S	Economics	29
40	15018136069	SYAMA T S	Economics	20



**ST. MICHAEL'S COLLEGE**  
**CHERTHALA, ALAPPUZHA - 688 539**  
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## **ADD-ON COURSE CERTIFICATE**

*This is to certify that*.....**Miss. Aiswarya Jayapal (23518136001)**

.....**B.Sc Chemistry 2018 Admission**

*has completed Certificate/Add-on course in* .....

.....**Basic Mathematics (MM 085)**

.....  
*offered by the Department of Mathematics during the academic  
year 2018-2019. He/Shee is awarded with* .....**A**.....

**Head of the  
Department**

**Course  
Coordinator**

**Principal**

**St. Michael's College, Cherthala**  
**Department of Mathematics**  
**Certificate Course in Basic Mathematics**  
**Report**

The course aimed to enhance the problem-solving skills, to improve the basic mathematical skills and to help students who are preparing for any type of competitive examinations. Effort has been made to accommodate fundamental, mathematical aspects to instil confidence among students. Students could enrich their knowledge and developed their logical thinking ability.

A total of 40 students from various departments joined the course. An examination of 30 marks conducted after the completion of course and everyone passed in the examination with better marks. Certificates issued by Add-on cell.



  
*Principal*  
*St. Michael's College*  
*Cherthala*