

**MILAGRES COLLEGE  
KALLIANPUR**

***DEPARTMENT OF MATHEMATICS***

***DEPARTMENT PROFILE***

**2017-2018**

**Plato said “ god is a geometer”. Jacobi changed this to “god is an arithmetician”. Then came kronecker and fashioned the memorable expression “god created the natural numbers and all the rest is the work of man”.**

**- FELIX  
KLEIN**

# OBJECTIVES

- 1. TO MAKE MATHEMATICS INTERESTING AND POPULAR.**
- 2. TO IMPROVE THE MATHEMATICAL APTITUDE AMONG THE STUDENTS**
- 3. TO GENERATE ORIGINAL THINKING.**
- 4. TO MOTIVATE THE STUDENTS TO CONTINUE THEIR STUDIES IN MATHEMATICS AFTER GRADUATION.**

## **FACULTY**

<b>NAME</b>	<b>QUALIFICATION</b>	<b>DESIGNATION</b>	<b>EXPERIENCE</b>
<b>Dr. Surekha</b>	<b>M.Sc , Phd</b>	<b>Associate professor</b>	<b>30 years</b>
<b>Mrs.Sindhura Rao</b>	<b>M.Sc ,B.Ed</b>	<b>Lecturer</b>	<b>4yrs</b>

## **NUMBER OF TEACHING STAFF-2**

### **ACTION PLAN FOR ODD SEMESTER (2017-2018)**

1. Bridge course for I B.Sc
2. Periodic tests
3. Remedial classes for slow learners
4. Guest Lectures
5. Guidance for advance learners
6. Model Test
7. Competitions
8. Science Association activities
9. Class room seminars and seminar competitions
- 10.Students lecture training program

## **OUTCOME BASED ACTION PLAN**

### **1. Bridge course :**

A students who passes pre – university course and joins B.Sc course needs to develop some mathematical skills and abilities. Among the students admitted to the I B.Sc course , there are slow learners as well as advance learners. The bridge course is a sincere effort to help both the categories of the students ,in view of getting themselves acquainted with the fundamental concepts necessary to understand the subject.

Syllabus:

- Function
- Limits
- Trigonometry
- Continuous function
- Differentiation
- Integration

The above topics were discussed with illustrations and examples.

Later test was conducted .

### **2. Periodic Test:**

Conducted monthly test after each unit and assignments are given.

### **3. Remedial Class**

We conducted remedial classes for slow learners. We listed their names from each class and took classes for them. Later test was conducted for them.

### **4. Advance learners**

Advance learners were encouraged to take up classes for slow learners. Also encouraged to write some articles about mathematics.

### **5. Model Test**

Model test was conducted for B.Sc students at the end of each semesters. It helps and develops their confidence to write university exam.

## **SUMMARY OF UNIVERSITY RESULTS**

### 2018-19 DEC-APRIL EVEN SEM

CLASS	APPEARED	PASSED	%
I B.Sc (II Sem)	36	34	94%
II B.Sc(IV Sem)	18	17	94%
III B.Sc(VI Sem)	25	25	100%

### 2018-19 JUNE-DEC ODD SEM

CLASS	APPEARED	PASSED	%
I BSC	46	44	97%
II BSC	36	34	94%
IIIBSC	18	18	100%

### 2018-19 DEC EVEN SEM

CLASS	APPEARED	PASSED	%
II B C A (IVSEM)	26	25	96%

**STUDENTS ACHIVEMENTS :**

1. 100% results from outgoing batch 2018
2. All the slow learners excelled in the university examinations.
3. Two students of III B.Sc secured full marks in Paper 7
4. Kavya of II B.Sc secured full marks
5. Kavya and Amitha of I B.Sc secured full marks
6. Swathi of III BCA secured full marks
7. Many students have joined post graduation (M.Sc in Mathematics) at MAHE, Manipal University, Manipal and Mangalore University.
8. Many students have joined for Wipro TCS and Infosys under campus selection.

- **Students participation**

- In the under graduate level intercollegiate “**MATH FIESTA**” competitions organized by Department of Post Graduate Studies and Research in Mathematics, St. Aloysius College, Mangalore, in memory of Late Prof. Krishnamoorthy on 4<sup>th</sup> September 2017, our college has bagged 3 prizes.
  1. Jovita Caroline Andrade, III BSC , **Ist Prize** in “Math-Montage” collage competitions
  2. Abhishek&Rakesh, III BSC, ,**Ist Prize** in “Math-MANIA” gaming with Mathematics competitions.
  3. Sushmitha, III BSC, **Ist Prize** in “Number-Hunt” playing with numbers competitions.
  4. And our college bagged **overall champions trophy**.
- Miss Pragathi and Miss Ashika of third BSc participated in the Lecture program by Dr B.R. Shankar Professor in NITK Surathkal , held on 29.8.2017 at Poornaprajna college Udupi.

## **STAFF ACHIVEMENT**

- Dr.Surekha and MrsSindhura have participated in one day national workshop on “Analysis and Topology” on 27.9.2017 organised by Department of Mathematics of Dr.G. Shankar Govt. Women’First Grade College Ajjarkadu.
- Dr Surekha is the member of B.O.S and B.O.E of Mangalore university for the year 2017-18
- MrsSindhura participated in cultural program arranged by Milagres college , organized by the management of the college.



### **BEST PRACTISES:**

1. Departmental Notice Board
2. Clippings of articles related to Mathematics are displayed on the wall magazine and file of articles is maintained.

3. Issue of books and question papers from the department library to the students.
4. Problem solving sessions and theorem writing sessions, class room seminars were conducted
5. Free internet facility is given to the students in the department.

## **ACTIVITIES OF THE DEPARTMENT**

### **GUEST LECTURE**

- Mathematics Department had organized a guest lecture on the topic “Vedic Mathematics and Numerical Ability” on 14<sup>th</sup> July 2017 at Audio Visual hall at 2.30pm. The resource person Mr. VadirajaBhat, a B.E. in computer science who has over 20 years of experience as a software professional. He is a freelance consultant, trainer and service provider associated with Children’s education in the field of Mathematical Skill Development using the methods of alternate educational concepts in Vedic Mathematics.
- MrVadirajBhat taught the students simple way to find squares, difference, products etc. which will be of great help for students in competitive exams. Dr. Vincent Alva the principal, presided over the session. H.O.D. of Mathematics Dr. SurekhaBhat and Prof. SindhuraRao were present for the same. Ms. Hephzibah of 3rd BSc. compered the session, Ms. Pragathi of 3rd BSc. welcomed the gathering and Ms. Shreya of 3rd BSc. proposed the vote of thanks. All the BSc. students were present inthe program and learnt alternating problem solving skill using Vedic mathematics.

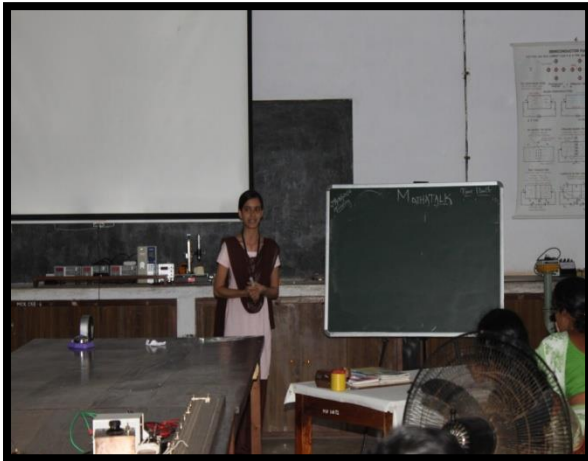




### **Competitions conducted by Mathematics Department**

Department organized competitions for the science students on 29<sup>th</sup> August 2017 from 2:30 pm to 3:30 pm.

- Poem writing competition 'Mathomusic' was organised in room no 206. Twenty four students participated in it. The topic given was 'Zero'. Uchitha of third BSc won first prize, Subramanya of third BSc won the second prize, Madhura of first BSc won the third prize and Roshny of first BSc won the consolation prize.
- Seminar competition 'Mathatalk' was conducted in the physics laboratory. Six students participated in it. The students were allowed to choose any topic of their choice. Kavya of second BSc won the first prize, Sushmitha of third BSc won the second prize and Hephzibah of third year BSc won the third prize. Crisel of third BSc, Vincent of third BSc and Poornesh of first BSc won the consolation prizes. Mrs. Sindhura and Mrs. Reena were the judges for the competition.
- Art competition 'Art Manthra' was conducted in the physics laboratory. Seventeen students participated in it. The topic, 'Design a logo for your own company using circles and triangles' was given on the spot. Leona of third Year BSc won the first prize, Shashank of first BSc won the second place, Sandesh of first BSc won the third place and Shreya of third BSc won the consolation prize.







- **Science Association activities**

Actively participated in all science association activities  
FrDcruz memorial science seminar and other competitions were held on 23-02-18 .Students from several colleges of Mangalore universities participated in it.Six students from different colleges participated in Mathematics seminar competitions.

- Valedictory function of activities of Science association was held on 26-03-2018.Miss Sushmitha and Miss Vinitha of third BSC gave tribute Late Stephen Hawking the great scientist of the century, by giving a seminar about him.Winners of Mathematics competitions were given prizes.

- **GUEST LECTURE:**

Mathematics Department organized a guest lecture on the topic “Vedic Mathematics and Numerical Ability” on **14th July 2017** at Audio Visual hall at 2.30pm. Mr. VadirajaBhat, B.E. in computer science was the Resource person.

**Competitions conducted by Mathematics Department:** Department organised competitions for the science students on 29<sup>th</sup> **August 2017** from 2:30 pm to 3:30 pm.

- **Poem writing competition 'Mathomusic'.** The topic given was '**Zero**'.-Uchitha, III BSc won the first prize, Subramanya III BSc

won the second prize, Madhura, 1<sup>st</sup> BSc won the third prize and Roshny 1<sup>st</sup> BSc won the consolation prize.

- **Seminar competition 'Mathatalk'**laboratory.-Kavya II BSc won the first prize, Sushmitha III BSc won the second prize and Hephzibah, III BSc won the third prize. Crisel III BSc, Vincent III BSc and Poornesh 1<sup>st</sup> BSc won the consolation prizes. Mrs. Sindhura and Mrs. Reena were the judges for the competition.

- **Art competition 'Art Manthra'** laboratory. Seventeen students. The topic, ' **Design a logo for your own company using circles and triangles'**

Sr. Leona III BSc won the first prize, Shashank 1<sup>st</sup> BSc won the second Prize, Sandesh I BSc won the third Prize and Shreya III BSc won the consolation prize.

Student lecture program: Two students of 2nd BSc., Miss Ramya and Miss Kavya Pai have taken the classes for 1st year BSc students on Optimisation Problems on 16-9-2017.

### **NATIONAL MATHEMATICS DAY 22.12.2018**

National mathematics day was celebrated in the college by conducting a guest lecture on the topic of applications of mathematics in day-to-day life.

