

**MILAGRES COLLEGE  
KALLIANPUR**

**DEPARTMENT OF MATHEMATICS**

**DEPARTMENT PROFILE**

**2019–20**

**“Mathematics- the unshaken Foundation of  
sciences , and the plentiful Foundation of  
Advantage to human affairs”**

**Isaac Barrow**

# **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**

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

<b>NAME</b>	<b>QUALIFICATION</b>	<b>DESIGNATION</b>	<b>EXPERIENCE</b>
<b>Prof. Surekha</b>	<b>M.Sc , Ph.D</b>	<b>Associate professor</b>	<b>32 yrs</b>
<b>Mrs.Sindhura Rao</b>	<b>M.Sc</b>	<b>Lecturer</b>	<b>6yrs</b>

## **ACTION PLAN**

1. Bridge course for I B.Sc
2. Remedial classes for slow learners
3. Guest Lectures and Seminars
4. Guidance for advance learners
5. Model Test

## **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

2019-20 JULY-DEC ODD SEM

CLASS	APPEARED	PASSED	%
I B.Sc(I Sem)	51	50	98
II B.Sc(III Sem)	54	54	100
III B.Sc(V Sem)	33	33	100

CLASS	APPEARED	PASSED	%
I B C A (I SEM)	36	31	86
II B C A (III SEM)	27	27	100

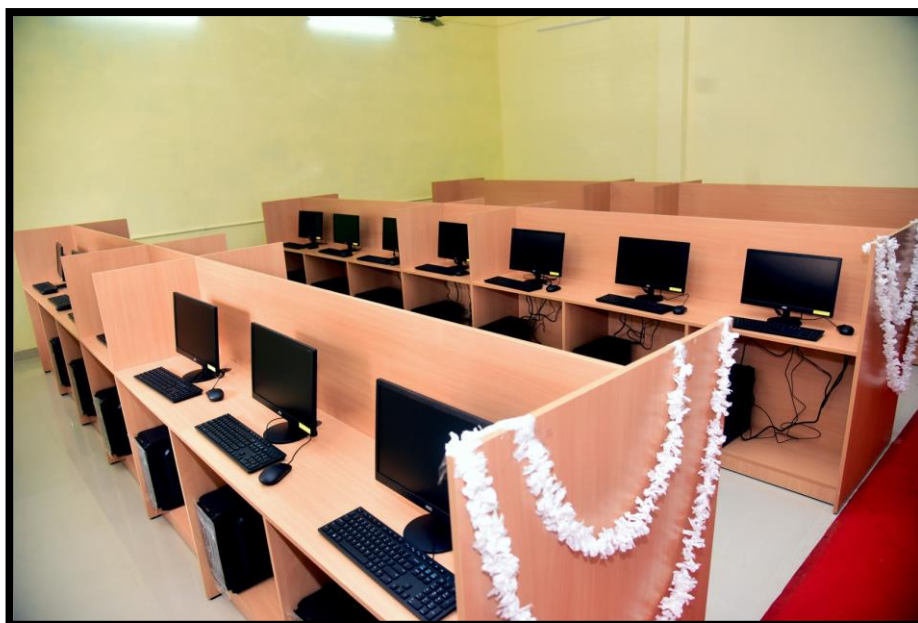
### **BEST PRACTISES:**

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**

**MATHEMATICS LABORATORY:** As per the instructions of Mangalore University for BSC course our college introduced Mathematics Laboratory for the students in the year 2019-2020. The Lab is having 28 computers with the free and open Source Software {FOSS}, Maxima and Scilabs, tools for computer programs. This will enable the teacher to demonstrate mathematical ideas by using concrete objects, models, graphs, pictures with the help of FOSS tools on a computer. First B.Sc students have 3 hours of practical classes per week.

The Department has organised intercollegiate Mathematics seminar competition on the occasion of Fr.D'Cruz Science seminar competition held on 22.02.2020. The Department has been actively participating in all activities conducted by Science Association of the college.



- Science Association was inaugurated on 21<sup>st</sup> of August 2019 at Milagres College Kallianpur. The Chief Guest of the programme was Dr A.P. Bhat, Retired principal and Associate Professor in Physics, Poornaprajna College, Udupi. Following students were appointed as the Office Bearers of Science Association for the academic year 2019-20. President – Mr. Poornesh Hegde, Secretary – Ms. Roshny D'Souza, Treasurer – Ms. Kavya. The Chief Guest gave the talk on 'India's Second Lunar Exploration mission Chandrayaan-2. He also gave the information about Solar Eclipse and Annular Solar Eclipse. He showed the instrument called pin hole apparatus which is used to see the solar eclipse.



### ➤ Motivational programme:

Science Association and the Physical Education Department of Milagres College organised Motivational Programme to the Students on 13th September 2019. Mr. Ronald Rajesh Lewis, famous entrepreneur at Hongkong was the Resource person. When you fall, have the courage to get up, when you are sorrowful, have the courage to smile. Then you will achieve something in life said the Resource person Mr. Ronald Rajesh Lewis, the alumnus of BSC. in 1992. His own experience helped the students to strive harder to achieve the best. Dignitaries honoured Mr. Ronald Rajesh Lewis. 111 science students and 45 sports person participated in the programme.





➤ Managerial skill programme:

Science Association along with the Chemistry Department organised Development of Managerial Skills to the Students on 18<sup>th</sup> September 2019 at 3:30 p.m. at Silver Jubilee Hall of the Milagres College. Dr Guru Tej and Dr Francisca Tej (Alumnus) guided the students through different skills, puzzles, group dynamics and physiological skills. 111 science students reaped the benefits of it.



➤ A Career guidance programme:

A Career Guidance programme was conducted by Science Association on 13<sup>th</sup> January 2020. The resource person of the programme was Ms. Amline D'Souza, K.A.S. Mangalore. The dignitaries honoured Ms. Amline D'Souza for passing the KAS exam in the young age.





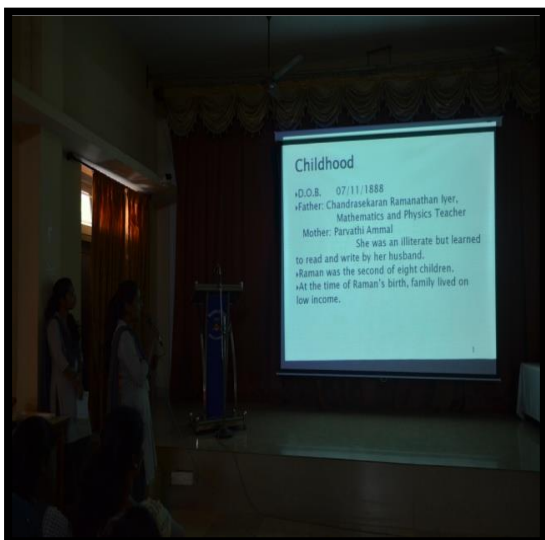
### **Late V. Rev. Fr. D'Cruz Memorial Inter-Collegiate Science competitions**

Science Association of the college in collaboration with Association of Physics Teachers of Mangalore University and Association of Chemistry Teachers of Mangalore University conducted Late V. Rev. Fr. D'Cruz Memorial Inter-Collegiate Science competitions 2019-20 on 22nd of February 2020. The chief guest of the program was Prof. Archana K. Dabade, Retired professor in Physics, Milagres College, Kallianpur. Chief Guest of the Valedictory program was Prof. Venkatesh Bhat, Associate professor in Physics, Vijaya College, Mulki. Poornaprajna College, Udupi bagged the Championship trophy and Bhandarkar's College of Arts and Science bagged the Runners up trophy.



### **National Science Day**

Science Association and B.Sc. students celebrated National Science Day on 3rd of March 2020 at A.V. Hall at 3.30 pm. Students of III B.Sc. gave presentation on the Life History, Achievements of Sir C.V. Raman and also explained about the Raman Effect and its applications.



Student achievement:

- Ms Kavya Pai secured 4<sup>th</sup> rank in Bachelor of Science Examination held in 2019 under Mangalore University.



