

MILAGRES COLLEGE

KALLIANPUR

DEPARTMENT OF MATHEMATICS

DEPARTMENT PROFILE

2021– 22

**“ As far as the laws of mathematics refer to reality, they are not certain,
and as far as they are certain, they do not refer to reality.”**

-Albert Einstein

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

NAME	QUALIFICATION	DESIGNATION	EXPERIENCE
Prof. Surekha	M.Sc , Ph.D	Associate professor	33 yrs
Mrs.Sindhura Rao	M.Sc ,B.Ed	Lecturer	07 yrs

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 :

Students who pass pre – university course and join 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 engaged 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 of Mathematics.

5. Model Test

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

SUMMARY OF UNIVERSITY RESULTS

2020-21 JAN-APRIL EVEN SEM

CLASS	APPEARED	PASSED	%
I B.Sc(II Sem)	54	53	98
II B.Sc(IV Sem)	33	30	91
III B.Sc(VI Sem)	41	41	100

2010-11 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
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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

National Mathematics Day –Celebration

Program Name: National Mathematics Day.

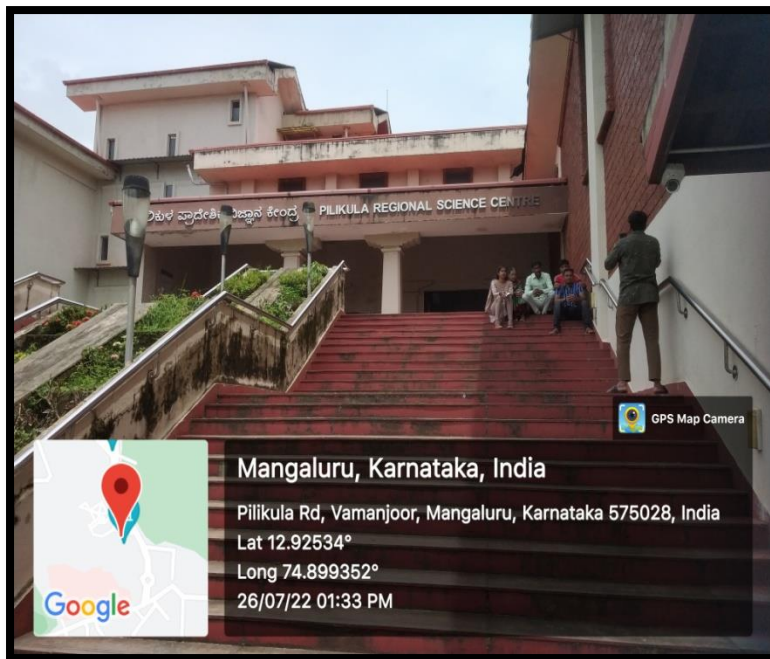
Date: Wednesday, 22/12/2021

Place: A.V Hall Milagres College

Participants: All BSc students

On 22/12/2021 Department of Mathematics of Milagres college celebrated birth anniversary of Mathematical genius Srinivasa Ramanujan , which is celebrated in India as National Mathematics Day. Young BSc students presented talks, power point presentations on Srinivasa Ramanujan – life and contribution to Mathematics and rewards. Students are encouraged with prizes for their presentation. Miss Nidhi Mathias of final BSc was honored for securing 100 marks in Mathematics as well as in Physics and Chemistry. Mrs Sindhura of Mathematics Dept gave her comments on the presentations. Mrs Sophiya Dias vice principal and Dr Surekha H.O.D was present on the occasion . Miss Dale of 2nd BSC compered the program.

Organised Educational tour : one day picnic was organized for all the three year BSc students on 26-7-22 to Pilikula- Regional Science centre, Planetarium, Heritage village, Biological park.



SYNANTIEMAI : Part of organizing inter-college activity Fr D.L D'Cruz Memorial seminar and other competitions SYNANTIEMAI on 03-08-22.

The Science Association conducts various programmes to help the students of B Sc. to make them creative thinkers, and effective leaders of tomorrow. With the aid of Physics, chemistry and Mathematics departments' science Association organizes skill oriented programmes to students.

INAUGURATION AND WORK SHOP ON WASTE MANAGEMENT AND DEVELOPMENT OF GREEN CAMPUS: Science Association was inaugurated on 03-03-2022 by Mr. Joseph Rebello. Dr Vincent Alva, the Principal Presided over the Programme. Mr. Arronha Alex D'Souza and Mrs. Monica Mendonca were elected as Student office bearers of Science Association- 2022. During the inaugural Programme distinction holders and achievers were honoured. After the formal programme there was a work shop on '**Waste Management Programme**' in the Audio Visual Hall in which 57 students and 6 staff members participated in the event which had inputs, discussion and action Plan. Mr. Joseph Rebello, was the resource person. Sweets were distributed to mark an occasion.

VISIT TO SWAMI VIVEKANANDA PLANETARIUM, SCIENCE MUSEUM AND BIOLOGICAL PARK AT PILIKULA, MANGALORE: All staff members of Science faculty and all 56 students visited Pilikula, Mangalore on 26-08-2022 and spent an entire day refreshing. Refreshing memories at heritage museum, Exposure to nature at Zoological Park, creativity expressions in Science Museum and visuals of Planetarium added new scope for development and also spirit of Research for future in students.

SCIENCE FEST 'SYNANTIEMAI' FOR PU, UG AND PG STUDENTS OF SCIENCE STREAMS

Fr G. L. D'Cruz memorial Science Fest/Get together 'Synantiemai' was organized along with Science Association on 03-08-2022 in AV Hall, Silver Jubilee Hall, MCCE Hall and Chemistry Lab to PU, UG and PG students of Science streams. Ardent and passionate lovers of Science from the PU, Degree Colleges and Post Graduate Centres of 13 colleges numbering about 200 enthusiastically attended the Fest. the Correspondent of Milagres Educational Institutions and the Rector of the Milagres Cathedral V. Rev. V. Rev. Fr Valerian Mendonca presided over it. Mr. Derik Mascarenhas, the Vice-Principal of Dr T. M. A. pai Polytechnique was the Chief guest. For the inaugural programme. The students exhibited their talents in various science events like Rangoli, Collage, Science Seminar, Speech, Model preparation and quiz. The leadership qualities of students were unveiled.

In the concluding programme, Dr Vincent Alva, the Principal Presided over the programme and Former Principal Dr. Gerald Pinto was the Chief Guest. All the winners of various competitions held during the day were presented with trophies on this occasion. Former lecturers who served in the Milagres College, especially in Science streams, Prof. Subramanya Joshi, Prof Archana Dabade, Prof. Joseph Peter Fernandes and many others participated in the event to demonstrate their solidarity.

It was an unique programme with festive look and meticulous plan and well organization. Student Volunteers contributed in a big way to arranging venues for competitions, welcome arc, Rangoli, Cartoons of Scientists, decorations with balloons etc. to give a real festive look to the Science block of the College and AV Auditorium.