

Y.A.GOV'T DEGREE COLLEGE FOR WOMEN::CHIRALA



DEPARTMENT OF MATHEMATICS

ACTIVITIES

(2021-2022)

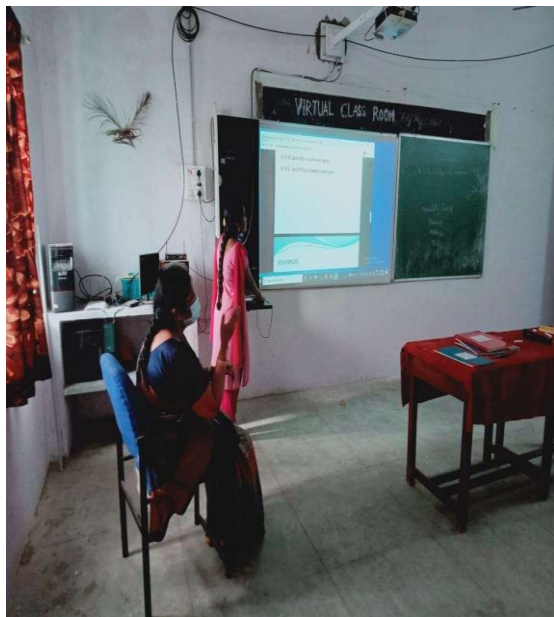
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1-Student Seminars

23-11-2021

Seminars given by Y. Meghasri , L. Sowmya , S. Rajeswari , k. Joshitha , V. Nandini on vector spaces , solutions of equations by row operations, to find inverse of A and inner product spaces.



No.of students attended: 45

2-Guest Lecture 26-11-2021

Guest Lecture on Applications of Mathematics by Dr.Ch. Manikya Rao, lecturer in Mathematics, Government Degree college, Vulavapadu on 26-11-2021 from 2:00 to 1:30 pm. Final year and First year Mathematics students of all the Groups (nearly 120 students) participated in this programme. Dr.Ch.Manikya Rao have enlighten the students with his lecture by giving the introduction on Kripto Currency, an application of finite Fields and explained about “ BITCOIN” which is the recent currency introduced. As it is the recent running topic students enjoyed by this lecture.

Programme outcomes : After completion of this lecture students learned to know the importance of Mathematics in real life.

No .of Students attended: 120



Dr. M. Manikya Rao delivering the lecture Faculty of department of mathematics
honoring the guest

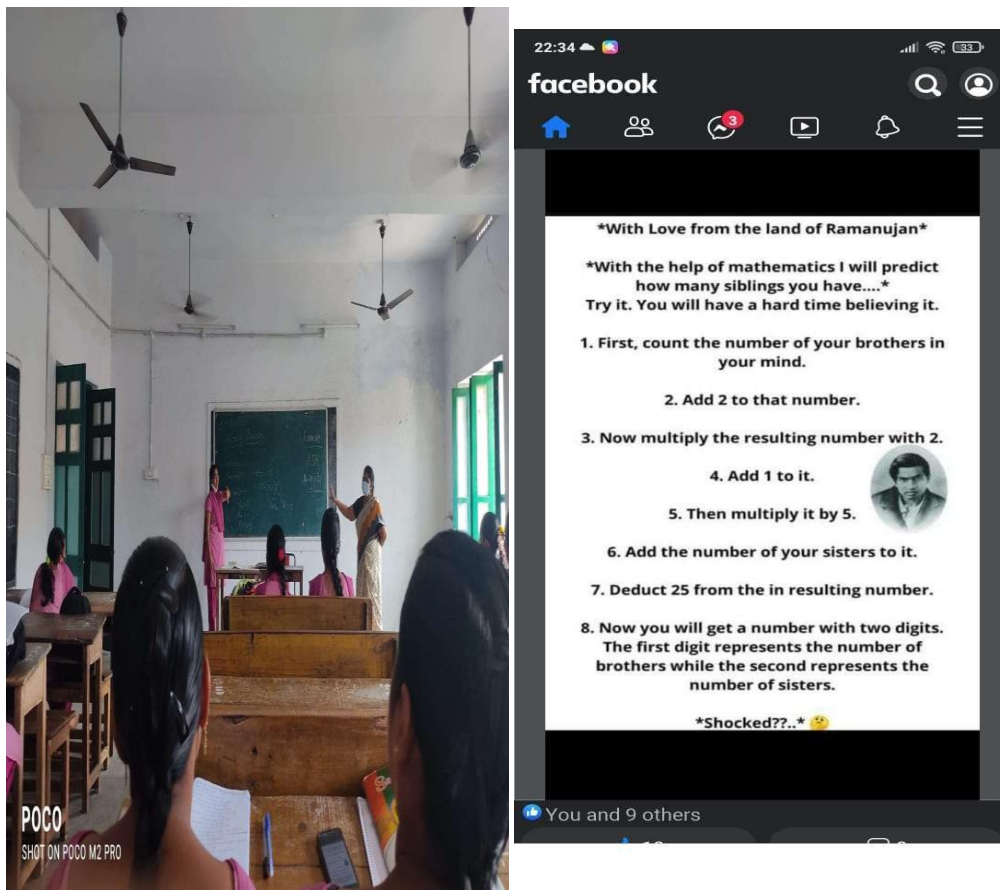
3- Group Discussions

30-11-2021

Discussion-1 III B.Sc (Mathematics all groups)

To predict how many siblings one had

Explained the procedure by Y.Meghasree



Y.Meghasree explaining the output of the Discussion

Discussion – 2. III B.Sc (Mathematics all groups)

Logical (Funny)Mathematical Solution

Explained by Nandhini

No.of students attended: 45



Solution given by Nandhini

PROVE THAT $2/10 = 2$
JAPANESE STUDENT : WRONG QUESTION
AMERICAN STUDENT : IT'S STRANGE.
HOW IS IT POSSIBLE
INDIAN RAJNIKANT SOLVED IT :
$$\begin{aligned} &2/10 \\ &= \text{TWO/TEN} \\ &= \text{WO/EN (T with T cancel)} \\ &\text{W} = 23^{\text{rd}} \text{ Letter} \\ &\text{O} = 15^{\text{th}} \text{ Letter} \\ &\text{E} = 5^{\text{th}} \text{ Letter} \\ &\text{N} = 14^{\text{th}} \text{ Letter} \\ &23 + 15 / 5 + 14 \\ &= 38 / 19 \\ &= 2 . \end{aligned}$$

4- Quiz Competition

16-12-2022

Name of the Activity: General Mathematics Quiz Competition

Aim and Objectives of the Programme: To test the student's basic knowledge on the great Indian Sri Srinivasa Ramanujan Iyangers life history and achievements and to improve the students' knowledge in various aspects.

Report : Department of Mathematics, Y.A .Government degree college for women, Chirala come forward to conduct general Quiz Competition on the occasion of National Mathematics Day Celebrations and to distribute prizes to the winners of the competition . All three year Mathematics students of all the Groups (nearly 60 students) together participated and attended in this programme.

No of students attended: 60



Students participation in Quiz competition

Quiz Score Board



I prize winners



II prize winners

5. Essay Writing Competition

17-12-2021

Aim and Objectives of the Programme:

To create awareness to the students about the great Indian Mathematician Sri.Srinivasa Ramanujan to be remembered for his unique mathematical brilliance which he had largely developed by himself and for his self-taught

Report: Faculty of Department of Mathematics conducted Elocution Competition on the Life history and contributions of the great Indian Mathematician Sri.Srinivasa Ramanujan on the occasion of **NATIONAL MATHEMATICS DAY** Celebrations. To create awareness to the students about the great Indian Mathematician Sri.Srinivasa Ramanujan to be remembered for his unique mathematical brilliance which he had largely developed by himself and for his self-taught?

Programme outcomes: After the completion of the competition the students learn about the greatness of the Indian Mathematician Sri.Srinivasa Ramanujan to be remembered for his unique mathematical brilliance which he had largely developed by himself and for his self-taught.

No of students Participated: 25



Dr.S.Savithri Conducting Essay Writing Competition

6. Elocution competition

22-12-2021

Aim and Objectives of the Programme: The purpose of elocution competition is to make the students to learn the art of public speaking that gives the students self-boost and confidence to speak in front of large audience. To make the students to know the formation, articulation, and pronunciation of speech. To motivate the students to develop their self-expression and confidence.

Report: Faculty of Department of Mathematics conducted Elocution Competition on the Life history and contributions of the great Indian Mathematician Sri. Srinivasa Ramanujan on the occasion of NATIONAL MATHEMATICS DAY celebrations. Ten contestants (five each) both in Telugu and English languages participated in this competition.

No of contestants 10

Programme outcomes: students improve the skills of public speaking. Students to develop their self-expression and confidence. Students transform their inner skills



Sk.baji's presentation



Suvarna's presentation



Meghasri's presentation

7. National Mathematics day celebrations 22-12-2022

Aim and Objectives of the Programme: To create awareness to the students about the great Indian Mathematician sri.Srinivasa Ramanujan to be remembered for his unique mathematical brilliance which he had largely developed by himself and for his self-taught. To encourage the students by conducting various competitions like Quiz, Essay & Elocution competitions and to distribute prizes for the winners of the competition.

Brief Description of the Programme: On 22nd December on the occasion of the Day Elocution competition was conducted. After that, celebrations started with the patriotic song “Vandamatharam” with all the mathematics students and faculty members. Dr.Vijayalakshmi, in charge principal and sri. John Raj, Lecturer in Economics are invited as the as the Chief guest and guest of the programme for distribution of prizes. Principal, i/c gave a brief message on the importance of the celebrations. Later Dr.S.Savithri, in charge of the department, and smt.N.Jayasree, in maths explained the students about the greatness of the mathematical genius Ramanujan sir. The programme is followed by power point presentation by kum.y.Meghasree final year student .Finally the programme ended by “national Anthem “after distribution of prizes to the winners of the competition.

No.of students participated: 100

Programme outcomes: Students got awareness about the National Mathematics Day. They came to know the greatness of the Indian mathematician sri. Srinivasa Ramanujan





Distribution of prizes to the winners of the competitions

8. GUEST LECTURE

31-01-2022

Aims and Objectives of the Programme: To create awareness on group theory, how it's useful in Algebraic structures such as Rings, fields, Vector spaces can also be seen as Groups endowed with additional operations and axioms.

Description of the programme: Department of Mathematics, Y.A. Government Degree College for women, Chirala Come forward to arrange a guest lecture to create awareness to the students about the Applications of Group theory in various Fields. Mrs. B. Sravani, lecturer in Mathematics, D.S. Government Degree College (W) Ongole has delivered the lecture on abstract algebra for I& IIB.sc students on Rings, Fields and Vector spaces derived from Groups.

Programme Out Comes: After completion of the lecture Students came to know about Rings, Fields and Vector spaces how they are derived from Groups

No.of students attended : 70



Dr.S.Savithri ,HOD addressing the students



Mrs. B. Sravani delivering the lecture

I.

10-Student Seminars (Virtual)

10-02-2021

T.Anitha II BSC (MPCS)- (Groups)

V.Devasanthi II BSC (MPCS)- (Intersection of Normal Sub Groups)

M.Pavani II BSC (MSCS) – Kernel of Homomorphism

N.Anusha II BSC (MSCS) – (N&S Condition for subgroups)



T.Anitha's presentation



V.Devasanthi's presentation



M.Pavani's presentation



N.Anusha's presentation

11 -Field Trip-1 (III Bsc)

17-02-2022

Nursery Visit- Ravi gardens- Bapatla

Aims and Objectives of the visit: The aim of the visit is to see how the Nursery is operating

And how to control Pests and Diseases. To make the Students better understand the Nursery problems so that they can develop the plantation by their own. This may help some of the students for their self-employment.

Field Report: Final BSc. Mathematics Students along with two Mathematics Lecturers held a field visit to Ravi Garden, located at Bapatla on 17-2-2022 from 10 am to 2 pm. The Nursery is established in a vast area. Students observed that the Garden consists of different types of Fruit Plantation, Flower Plantation and it consist of Rose Gardens and Poly Houses, and also a number of Palm Plants. It also has different types of Pots with Plants. In the Nursery students observed different types of Medicinal Plants , seven types of Mango Plants, five types of Guava Plants and twenty types of Rose Plants, lawns and Land Scalping varieties in the Nursery.

Outcomes : Students learn the skills of developing the plants and know how the Plants grow up into varieties of trees. They also observed the good Environment, Pollution free air, and experienced good Oxygen Levels and good weather conditions created by plantation. Through this Programmes students studied the Economic Viability of the Nursery.

Number of Students participated: 32



Department of mathematics faculty & Students visit to Ravi Gardens

12- Science Day Celebrations (Maths exhibition)

28-02-2022

Name of the activity: Participation in the Science Exhibition,

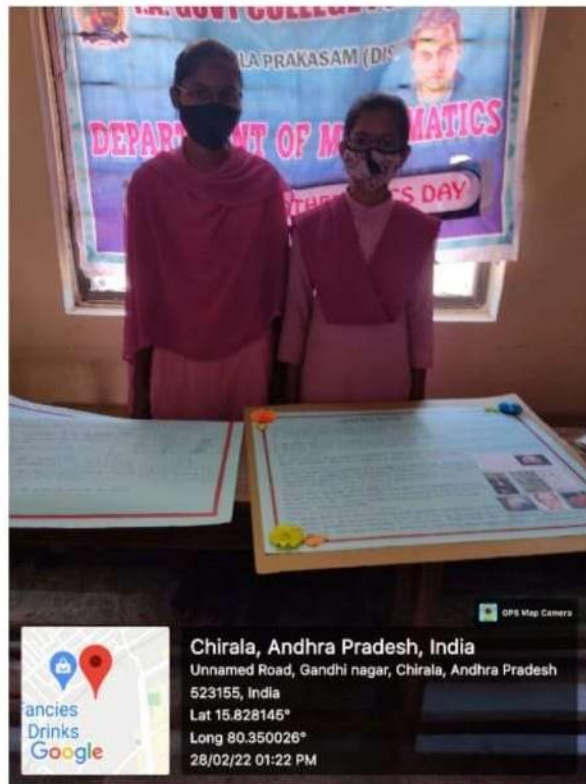
Aims and Objectives: To inculcate Mathematical Skills, to develop analytical Skills and Reasoning in the Students, to enlighten Mathematical abilities and good thinking to sharpen the young minds and also to develop Mathematical zeal in the Students through solving problems and Puzzles. To develop Quantitative aptitude and reasoning in the Students.

Report: On the occasion of Science day Department of Mathematics actively participated in the Science Exhibition which is held in our College on 28th February 2022.

All BSc., Mathematics Students participated in the Science Exhibition, Final BSc., MPCSC Student Y Megha Sree, exhibited her Project-Test your Knowledge by Calendar Problems, Missing numbers in Series and Missing numbers in Figures. IIIBSc. MSCS Student A. Nandini, presented Golden Ratio having Chart with Golden Ratio definition, history, golden spiral, Golden ratio in art and architecture and golden ratio in Nature and Human, IIIBSc, MSCS Student Thirupathamma presented different types of Puzzles in Mathematics like Number Pyramid Problems age related Puzzles, problems in relation Puzzles about Factorials and Puzzles to correct the incorrect numbers. Students also exhibited different types of photos of famous Mathematicians and renowned Scientists like Gauss, Euclid, Euler, Einstein, Srinivasa Ramanujan and Mahalanobis and etc.,

Out Comes: Students from Government Junior College for Girls, Chirala NR and PM High School and from other institutions visited the Science Exhibition enthusiastically and participated in solving the Mathematical Puzzles. The Science exhibition and Mathematical Projects helps to enlighten and develop Mathematical and Analytical Skills in the Students and also helps to enlighten Mathematical ability and Problem Solving methods.

No. of Students Participated: 20.



Mathematics student's presentations at Maths Exhibition

13- Parents Association Meeting

24-03-2022

Aims and Objectives of the Programme: The aim of the parent – teacher association meeting which is a short meeting between the parents and teachers is to discuss the students' progress at college and find solutions to academic or behavioral problems.

Description of the programme: Department of mathematics ,Y.A.GDC Women, chirala in collaboration with Dept. of Computer Sciences and dept. of Physics arranged a parents association meeting under the Chairmanship of Dr.Ramanamma, principal of our college for first year mathematics students of all groups from 11:0 am to 1:0 pm. In the meeting many things related to students' academic ability, classroom expectation from the student, punctuality and sincerity in attending the classes, students internal assessment report, infrastructure facilities of the institution etc., are informed and discussed in the meeting.

Outcomes of the program: Nearly 40 parents and the mathematics students participated and made the programme a success. Parents came to know about the facilities provided by the institution and also their child's progress. Parents are very much impressed by this meeting.

No.of parents attended: 40



14- PI-DAY CELEBRATIONS

14-03-2022

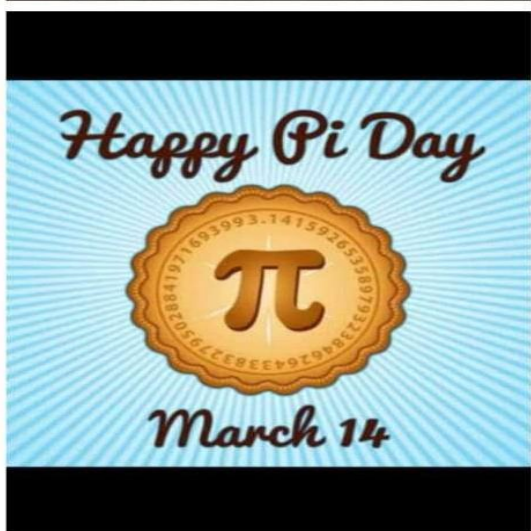
Aims and Objectives of the Programme: To create awareness among the mathematics students about the symbol pi and to know its value as decimal. Every year the day is celebrated on 14-march to recognize the constant pi.

Brief Report: March is the third month. If we express "March 14" as a decimal, we get 3.14

Which is an approximation to the number Pi day is celebrated with second and final year students by poster presentation by Nikhitha, Meghasri and with few more students. Students

Outcomes of the programme: students came to know the importance of the value of Pi and also the reason for the celebration.

No of students participated: 50



15 - Field Trip-2 (I Bsc) - Cashew Products-Vetapalem

21-09-2022

Aims and Objectives of the Programme: To acquire knowledge about the standards for storage management of Raw-cashew nuts. To know the development of efficient Raw-cashew nuts processing techniques and quality standards.

Brief Report: first year mathematics students along with Dr.S.Savithri in charge, dept. of mathematics visited Vetapalem cashew-nut processing unit on 21st September. Students observed the processing of raw cashew nuts into Edible cashew kernels from the skilled men and women workers. They also observed the process of grading different types of kernels and packing units

Outcomes of the programme: Students learned the traditional process of raw cashew nuts to edible nuts. Through this visit they understand that this unit is providing employment to many skilled women and able to know the economic viability of this unit.

No of students visited: 40

