WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

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Supporting documents for SOFT SKILL ENHANCEMENT Activities

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1. <mark>Film Fests</mark>

Every year film Fests are conducted by the Department of Mass Communication and Journalism and Dept. of Social work, to enhance the organizing skills and public speaking ability of students A film fest was conducted on 10 July 2018. The debut performer and emerging director in Malayalam film industry Ms. Leela Kanav, director of Karinthandan, inaugurated the festival; the fest was a notable one for its selection and discussion of exhibited films. Details of films: Kammattipadam, Children of Heaven, The Sales man. After each session, a discussion on the exhibited film was conducted. It helped the participants to explore beyond the surface of the films. During these discussions, students learn the art of active listening. The ability to absorb diverse perspectives and viewpoints enhances their interpersonal skills, fostering an environment of mutual respect and understanding.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2018-2019	10-07-2018	100
2	2021-2022	08-08-2021	268
3	2021-2022	08-08-2022	30
4	2018-2019	22-02-2019	35

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On the 22nd and 23rd of February 2019, the Department of Mass Communication organized a captivating film fest titled 'Cinema Mon Amour.' The event was graced with the presence of Jijo Joseph, a renowned playwright, and director, who inaugurated the fest. The program proved to be highly engaging and captivating, offering an array of intriguing films and cinematic experiences for the audience.

Department of social work conducted a program named Celluloid on 8th August 2021. The program includes, Film festival and Awareness campaign on women protection. Adv. Glory

George was the resource person. 268 members participated in the program. She interacted with the students on the topic of "women's right and gender equality.

2. Preparation of Manuscript Magazines

Every year students of various departments prepared manuscript magazines. It helps to foster the development of essential soft skills among our students. The preparation of the Manuscript Magazine brings together students from diverse backgrounds. The magazine provides a canvas for creative minds to flourish and the students learn the art of collaboration.

Sl. No	Academic year	Date of Commencement of the program	No. Of Participants
1	2017-2018	18-12-2017	34
2	2017-2018	23-03-2018	32
3	2018-2019	24-01-2019	23
4	2018-2019	04-11-2018	34
5	2019-2020	14-11-2019	38
6	2020-2021	17-02-2021	31
7	2021-2022	18-12-2021	30
8	2021-2022	05-08-2021	36

On December 18, 2017, Arabic magazine 'Al Ahlam.' Was released. Ms. Usha Kumari, the esteemed District Panchayath President of Wayanad, had the honor of unveiling the magazine, marking the beginning of a remarkable event.

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On the day of the association inauguration, the Department of Arabic proudly unveiled a captivating magazine titled "IBDA'A." This magazine was a testament to the creativity and talent of the students within the department. With a strong commitment to fostering literary passions, the department took the initiative to encourage students to express themselves and nurture their love for literature
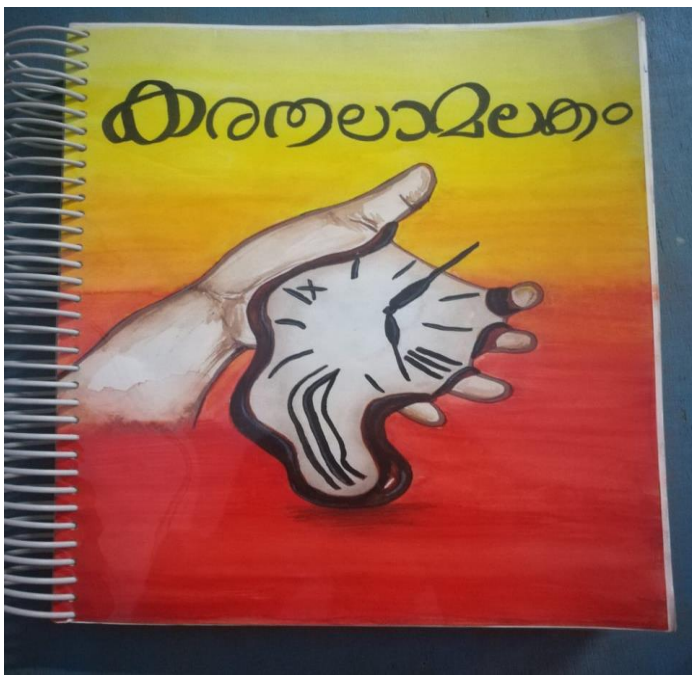

One of the most excruciating concerns during pandemic was the student life in campus. Students all over the world missed their campus life and we have seen its significance via News media. Student from department of Physics however showed their enthusiasm and came up with a beautiful magazine for which the whole department gave immense support. Students adapted to the situation and decided on an online magazine. Mr. Shameemudheen KA coordinated the efforts as the student editor. Students contributed to the magazine by providing articles and other creative ideas. Readers can look up the magazine here
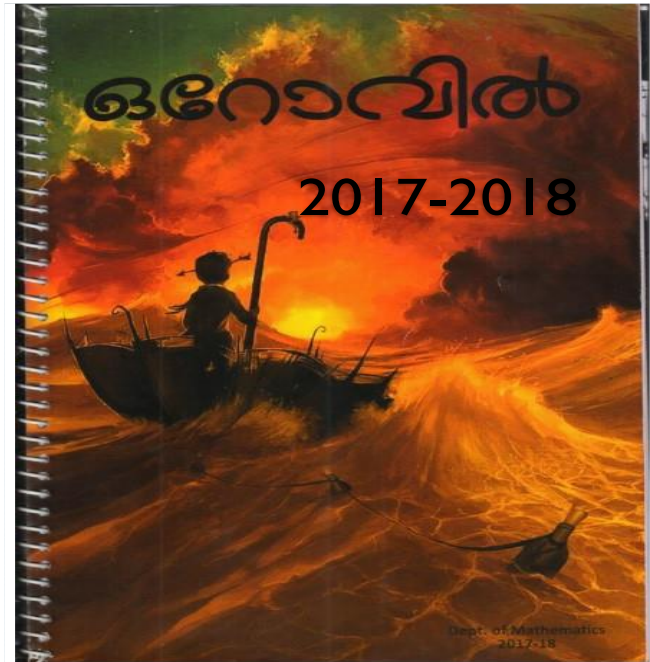
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https://online.fliphtml5.com/ppdig/gkxc/#p

Students of Dept. of Mathematics bring out manuscript magazines every year from 2010 onwards. Due to the pandemic induced situation, the magazine for the year 2020-21 വസന്തം ഇങ്ങനെയായാൽ പൂക്കളോട് പോലും ഞങ്ങൾ കലഹിച്ചു പോകും 'was published as E-magazine on 5-8-2021. Sri Kalpetta Narayanan released the E Magazine and delivered the inaugural address. Mr Ajnas P and Ms Anu K Basheer are the student editors of the magazine for the year 2020-21.

https://online.fliphtml5.com/wrxox/gmcp/?1628131013594#.YQtO87gawB4.whatsapp

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ലസിനും
ഇരുണ്ടഗാംബുലിൽ
ഇരുന്നോട് പോയ്‌ എന്ന്
ആഗ്രഹിച്ചു പോകും

Department of Mathematics
WMO Arts and Science College, Muttil 2020-2021

കരലാമലകം

നുരിയ

Samples of manuscript magazines

3. <mark>Mathematical Problem Contests.</mark>

With the aim of motivating the students, Mathematics Problem Contests are conducted every month which is designed to challenge the students and bring the best in them to the fore. The problems are of a very different nature from the problems students usually encounter during their college curriculum. Winners are honoured with prizes during the meetings of the Mathematical Circle. During the lockdown period, 22 online Mathematical Problems Contests were conducted by Teachers, Alumni, and students using online platforms. Students, Teachers, and Alumni of the department took turns to organize the contests. Prizes were sponsored by Teachers and Alumni. Sarang M J, Rashid A, Sajin Gopi, Basil Eldho, Saneesh Babu, Vishnu P V, Akhil Joseph, Rishana, Muhammed Sahal O T, Joseph Joy, Farseena E K and Deepthi were the winners.

Samples of the related documents

MATHEMATICS PROBLEM CONTEST – No. 86

1. In the figure below, each letter represents a distinct single digit among 0, 1, 2, 3, 4, 5, 6,7, 8 and 9. They are positioned in such a way that

$$A \times B \times C = B \times G \times E = D \times E \times F$$

What digit does the letter G represent?

2. Appu and Babu just become friends with Ramu, and they want to know when his birthday is. Ramu gives them a list of 10 possible dates:

May		15	16			19
June				17	18	
July	14		16			
August	14	15		17		

Ramu then tells Appu and Babu separately the month and the day of his birthday respectively.

Appu: I don't know when Ramu's birthday is, but I know that Babu doesn't know too.
Babu: At first I don't know when Ramu's birthday is, but I know now.
Appu: Then I also know when Ramu's birthday is.
So when is Ramu's birthday?

3. Find the number of rectangles in a 10 x 12 chessboard.

Submit the solutions in the department of Mathematics on or before **October 30, 2017.**

MATHEMATICS PROBLEM CONTEST – No. 86   7

Date of Announcement   : 25·10·2017

Last date for submission
   of solutions   : 30·10·2017

List of Participants
1. Vivek T·R   (D₂ maths)   ⎫
2. Vishakh ·T·R   (″   ″)   ⎬ Winners
3. Muhammed Sahal O·T (D₁ mathematics)   ⎭
4. Muhammad Shaheer·C (D₃ mathematics)   ⎫
5. Harrumaisa·M (D₃ Mathematics)   ⎪ Complimentary
6. Basil Eldhe   (D₁ mathematics)   ⎬   Prize
7. Shidha·K (D₁ Mathematics)   ⎭
8. Abhirami·B (M₂ statistics)   Late submission

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MATHEMATICS PROBLEM CONTEST – No. 89

1. How many triangles are in a fully connected pentagon with all its diagonals?
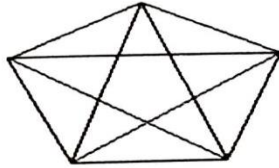
2. Logic Problem : Which offer is better?
   1. You are to make a statement. If the statement is true, you get exactly $100. If the statement is false, you get either less than or more than $100 but not exactly $100.
   2. You are to make a statement. Regardless of whether the statement is true or false, you get more than $100.

3. How many digits are there in the smallest natural number which is composed entirely out of fives (e.g. 55555) and which is divisible by 99?

Submit the solutions in the department of Mathematics on or before **February 7, 2019.**

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MATHEMATICS PROBLEM CONTEST No. 88

Date of Announcement : 26.06.2018

Last Date for Submission
of Solutions : 03.07.2018

List of Participants:

1. Basil Eldho   (D₂ Maths)   ⎫ Winners
2. Neerada   (D₂ Maths)   ⎬
3. Adarsh.M.V   (D₂ Physics) → Complementary Prize

Mathematics Problem contest No.89,

Date of announcement – 30.1.2019,
Date of Submission – 7.2.2019,

Complimentary Prize – Basil Elho, D₂ Mathematics.

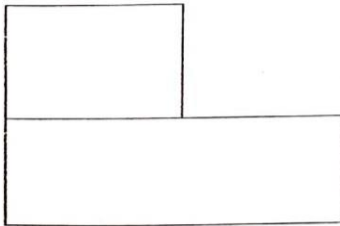Mathematics Problem contest No.90,

Date of announcement : 22.3.2019,
Last date of submission : 29.3.2019

Winner : Kavya P.V
D₃ Mathematics.

MATHEMATICS PROBLEMS CONTEST-No:94

1. The integers from 1 to 2015 are written on the blackboard. Two randomly chosen numbers are erased and replaced by their difference giving a sequence with one less number. This process is repeated until there is only one number remaining. Is the remaining number even or odd? Justify your answer.

2. The five persons in couples weigh 129 Kg, 125 Kg, 124 Kg, 123 Kg, 122 Kg, 121 Kg, 120 Kg, 118 Kg, 116 Kg and 114 Kg on a weighing machine.
What was the weight of each one of the five persons if taken separately?

3. Divide the following figure into four equal parts (parts should be of the same shape and of the same size, they may be rotated by different angles however they may not be disjoint and reconnected).

Submit the solutions in the Department of Mathematics on or before February 18, 2020.

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Mathematics Problems Contest No. 94.

Date of announcement : 11.2.2020.

Last date of Submission : 18.2.2020.

Participants.

1. Drishwan.V
2. Aysha Liya
3. Sana k.k.
4. Devika Jayaprakash
5. Swetha.T.S.

Winner - Devika Jaya Prakash.

MATHEMATICS PROBLEMS CONTEST
during Lockdown Period.

April 12, 2020 to May 31, 2020.

Twenty two mathematics Problems contests were conducted during the lockdown period by students, Alumni and teachers in the department.

The problems or puzzles were posted by various teams or persons in isolation.

The answers were submitted to one of the phone numbers of the team or person within a stipulated time. The team selected winner/ winners of the contest.

The teachers and students submitted answers. Prizes were sponsored by teachers and Alumni.

The first contest was conducted by Vivek T.R and Vishakh T.R on April 12, 2020.

Winners of MPCT.
1. Rashid.A
   Research Scholar, NIT
   Surathkal and
   Alumni of WMO college.
2. Sarang M.T, I BSc Maths
   Alumni student.

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1. Mathematics Problem Contest No. 1.
   Conducted by : Vivek T.R, Visakh.T.R
   Winners : Rashid A, Sarang M.J

2. Mathematics Problem Contest No. 2.
   Conducted by : Sarang M.J, Dilshad Akthar.
   Winners : Soyan Gopi, Rashid A and Basil Eldho.

3. Mathematics Problem Contest No. 3.
   Conducted by : Rashid.A.
   Winners : Saneesh Babu, Soyan Gopi Sarang M.J.

4. Mathematics Problem Contest No. 4.
   Conducted by : Akhil Joseph and Rishana.
   Winners : Soyan Gopi, Rashid.A, Basil Eldho, Vishnu P.V.

5. Mathematics Problem Contest No. 5.
   Conducted by :- Deepthy A, Basil Eldho
   Winners :- Akhil Joseph, Rashid A, Saneesh babu, Rishana.

6. Mathematics Problem Contest No. 6
   Conducted by : Lubana Shida K.
   Winners : Muhammed Sabal O.T

7. Mathematics Problem Contest No. 7.
   Conducted by : Saneesh babu.
   Winners : Basil Eldho, Akhil Joseph, Rishana, Vishu P.V.

8. Mathematics Problem Contest No. 8
   Conducted by : Lubana Shida K, Shadi.
   Winners : Basil Eldho, Rashid A, Saneesh Babu, Muhammed Sabal O.T.

9. Mathematics Problem Contest No. 9
   Conducted by : Sajin Gopi
   Winners : Rashid A, Saneesh Babu, Rishana.

10. Mathematics Problem Contest No. 10.
    Conducted by : Vivek TR, Visakh T.R.
    Winners : Ist- Akhil Joseph, Rishana.
    2nd- Rashid A. Joseph Joy.

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MATHEMATICS PROBLEM CONTEST – No. 101

1. How many digits are there in the smallest natural number which is composed entirely out of fives (e.g. 55555) and which is divisible by 99?

2. **Logic Problem** : Which offer is better?

   1. You are to make a statement. If the statement is true, you get exactly Rs 100. If the statement is false, you get either less than or more than Rs 100 but not exactly Rs 100.
   2. You are to make a statement. Regardless of whether the statement is true or false, you get more than Rs 100.

   Justify your answer.

3. The average age of a 10-members committee is the same as it was 4 years ago, because an old member has been replaced by a young member.

   How much younger is the new member, compared to the old member?

Submit the solutions in the Department of Mathematics on or before **January 21, 2022**

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4. National Science Day Celebrations

The Department of Physics takes the leadership to organize various programs in the college to celebrate National Science Day every year. The programs organized are aimed to enhance the abilities of students for scientific thinking. Science Day programs often expose students to a diverse range of topics and perspectives, fostering a broader worldview and cultural sensitivity. A Science Fest was conducted in collaboration with Kerala State Council of Science Technology and Environment on 27th February 2018. It included exhibition, students' presentations and invited talks.

Sl. No	Academic Year	Date of Commencement of the program	No. of Participants
1	2017-2018	27-02-2018	38
2	2018-2019	28-02-2019	35
3	2020-21	28-2-2021	65
4	2021-2022	28-02-2022	67

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On the 28th of February 2019, the Department of Physics, in collaboration with KSCSTE, joyfully celebrated National Science Day. This special event offered a platform for students, researchers, and science enthusiasts to come together and delve into the captivating realm of Physics and its profound influence on society. Through various activities and engaging discussions, participants had the opportunity to deepen their understanding of scientific principles and their real-world applications. The celebration of National Science Day was a delightful and enlightening occasion, promoting a passion for Physics and fostering a sense of curiosity and wonder for the world of science among the attendees.

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Department of Physics and Dept. of Mathematics organized various programs through online platforms to celebrate the National Science Day 2021. Ms Aparna KM was the chief guest. The program was conducted on 28th February 2021 via Google meet. Students' presentations were conducted on various topics. Special Mathematical Circle was arranged to celebrate National Science Day 2022 on 28-2-2022. Presentations by students, Quiz, Games and debates were conducted.

Conducting Science Day programs at WMO College offers a multitude of benefits that extend beyond the realm of academics. From nurturing scientific curiosity to enhancing problem-solving skills, these events contribute significantly to the overall growth and development of students.

5. The Mathematical Circle

The Mathematical Circle is a platform functioning in the college to promote mathematical recreations and explore mathematical concepts. Students and teachers, who wish to experience the challenges and thrill of Mathematics, are the members. Students of the department are divided into a number of groups, and they lead meetings of the Mathematical Circle performing various events like Exploration of new mathematical ideas, Mathematical games and puzzles, Short math quizzes, Math magics, Problem contests, etc. It helps in posing and solving non-routine problems, developing creativity and healthy habits of discovery and self-learning.

A register is kept to record the participation of the students and teachers. Each group coordinating the Mathematical Circle Meet prepared a report of the event and recorded it in the register. There was active participation and discussions in each meeting. Prizes for the winners

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of the short competitions during the meeting were sponsored by staff and students. Alumni members also contributed to the coordination of the Circle meets by helping the students to choose topics for presentations and by sponsoring gifts. The students' feedback about the programmes of the Mathematical Circle was overwhelming.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2017-2018	3-8-2017	115
2	2018-19	25-7-2018	120
3	2019-20	4-8-2019	110
4	2020-2021	18-8-2020	95
5	2021-2022	04-6-2021	98

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Sample document for the activities of the Mathematical Circle

Circle meeting - 15

Date :- 03-08-2017
Time :- 3:30 - 4:30
Venue :- D₂ Maths
Team
1. Avina A.S
2. Ashley Parvin K.P
3. Hisana Jasmine
4. Shezin Shahana
5. Nabeesa Misiriya P
6. Jukaira K.P
7. Sarangh M.J
8. Ajith Mathai
9. Vivek T.R

Sl.no	Name	Class	Signature
1	Riya Scaria	D₃ Maths	
2	Husunnusa M	"	
3	Asya Aravind	"	
4	Nithala Nhesheem K	"	
5	Farsana K	"	
6	Dhijo T Eldho	"	
7	Shamseetha T.M	"	
8	Nafeesathul M Sriya	"	
9	Haneena Jasmin M	"	
10	Blessy Jose	"	
11	Raseena K	D₂ Maths	
12	Pavana K.M	"	
13	Fasna Femin K	"	

Sl.no	Name	Class	Signature
14	Jishana Shemin K	D₂ Maths	
15	Rubeena P.T		
16	Snadi Nilofer	D₁ Maths	
17	Anshudha B.N	"	
18	Jafny M.J	"	
19	Lukana P.K	"	
20	Ahsiya Roobi	"	
21	Amaithya Anil	"	
22	Neenda S Rakshmi	"	
23	Ajmila T.M	"	
24	Rinshu Febin J	"	
25	Fatha Hnao P	"	
26	Rafeela Mumthas	"	
27	Aysha Nitha	"	
28	Febina Shameer	"	
29	Ahsana Fathima	"	
30	Basil John	D₂ Maths	
31	Ranoop O.K	"	
32	Ronil C.C	"	
33	Aysha Rinu K.A	"	
34	Ansila T.P	"	
35	Misna K	"	
36	Jechin P	"	
37	Nitha Athenyam P	"	
38	Muhammed Shafi	"	
39	Aneesha Babu	"	
40	Abdul Basith K	"	
41	Jishna R	"	
42	Renjith P	"	
43	Nithala P	"	
44	Kadeejabeen Shaniya	B.Sc Maths	
45	Deepthy A	"	

No.	Name	Class	Signature
46	Fathimath Juhara T	Bsc Maths D₁	
47	Meshwarya V P	"	
48	Afrinsha Lis	"	
49	Fasna T	"	
50	Fasna N K	"	
51	Shidha K	"	
52	Dilshad Akhtar V K	Bsc Maths D₂	
53	Tony Joseph	"	
54	Basil Eldho	Bsc Maths D₁	
55	Akhil Joseph	Bsc Maths D₁	
56	Muhammad Sahal a.p	Bsc Maths D₁	
57	Mujeeb Rahman K	Bsc Maths D₂	
58	Jafas N Mattal	"	
59	Ramshad V	D₂ Mathematics	
60	Vishakh T R	D₂ Mathematics	
61	Raseena Mol	"	
62	Kavya PV	"	
63	Fasna K	"	
64	Subaith K K	"	
65	Fathima Shamiha	"	
66	Thasleena Shirin	"	
67	Asmila Jasmin	"	
68	Kabrin Theene	"	
69	Bismiya K	"	
70	Muhsina P K	"	
71	Aamala M T	"	
72	Fasana sruthi K	"	
73	Fazeena E K	"	
74	Maya M	"	
75	Sooya Raju VR	"	
76	Karibika MV	"	
77	Reseena mol	"	

No.	Name	Class	Signature
78	Tomol George	Bsc Maths. D₂	
79	Aiswarya P	"	
80	Athulya P s	Bsc Maths	
81	Unnimaya Vinod	D₂ Maths	
82	Arefa c	B₁ Maths	
83	Anjala Nasjees N s	D₂ Maths	
84	Jubaina K P	"	
85	Nabeesa Misziya	"	
86	Ashley Parvin k P	"	
87	Sherin Shabana	"	
88	Avina B s	"	
89	Hisana Jasmine	"	
90	Vivek T R	"	
91	Sanangh M J	"	

Report

Our group 'MATH VIRUS' (D₂ Mathematics) conducted the circle meeting on 3-8-2017 thursday at 5.30pm. (Venue - D₂ Mathematics) Finally, Dr Viji Paul - HOD of mathematics gave an opening speech. Then Miss Blessy (D₂ Mathematics) welcomed all especially the first year students, new members of our family.

Ashley Parvin K.P introduced the group members. Avina A.s talked about applications of logarithms and Ritcher scale. After that Vivek T.R performed two puzzles. One was based on number sequence and the other was regarding number of squares. One of the puzzles was answered by Fasna K (D₂ Mathematics). Nabeesa Misziya P and Jubaina k.P conducted a quiz program. Kavya and team won the prize. Another game was to solve the Rubik's cube. Dilshad Akhtar (D₂ Mathematics) was the winner. He mentioned about various types of Rubik's cubes

and algorithms. Hisana Jasmine and Sherin Shabana (D₂ Mathematics) introduced another puzzle on coins. Vishakh T.R and Muhammed Sahal (D₁-Mathematics) solved the puzzle. Sanangh M J performed a magic with playing cards. Kavya P.V (D₂-Mathematics) and Basil Joseph (D₁ Mathematics) also participated. Ramshad V (D₂-Mathematics) explained the trick behind the magic (the binary numbers). Prices were distributed. (Prices sponsored by Ajith Mathai). We also payed homage to Iranian Mathematician (who passed away on July). Maria Mirzakhani first women who won the Field's Medal. Ashley welcomed Mr. Shaheel, Department of Statistics to the math family. At last Sanangh thanked all. Meeting was dissolved at 4.30 pm.

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REPORT OF THE MEETING.

Group Algebra (D. Mathematics) conducted the programme for circle meeting on 7th February 2018. at 3.00pm Our group member Aiswarya welcomed the gathering and introduced the group members. Neerada started the programme by delivering about the mathematician G. H. Hardy whose birthday was on the same day. Then a bun puzzle solving competition was conducted by sneha and shifa Thaseena gave a brief introduction of Messenne prime. Then a group quiz was conducted by Aiswarya. The winner were Sarang and team. Later Aysha fidha conducted a Match stick puzzle as a group competition. It was very funny and interesting. Then Akhil presented an amazing class on Mobious strip and its properties. Then on this Occassion sajin sir appreciated the team leaders of Maths department for winning fine arts festival. Finally Aiswarya thanked the gathering. The meeting was dispersed at 4.30 pm.

Report

The 'e', 5th group of D_2 mathematics has conducted the Circle meeting on 31.01.19 at 3:30 pm. Group member shadi Nilofer Welcomed The gathering and she introduced other audience.

Fidha khan introduced the Scientist Euler who was a renowned mathematician having many important results in many branches of mathematics to his credit. shidha. K Spoke on pick's Theorem which is used to find the area of lattice polygon The Pick's Theorem is proved using the Euler's formula $v - e + f = 2$, where v, e, f denotes number of Vertices, Edges and faces On a convex polyhedron. Euler's formula is true in the case of planar graphe. It was mentioned that the Simple formula $v - e + f = 2$ is Known as Grem of Euler. And A book of David. S. Richerson entitled "Euler's Gem" deals with the applications of the formula in Various field. Then khadeejathul Shamja talked about some interesting facts on number theory. Arshadha gave a detailed explanation about Euler's diagram and Euler's line. In between Some Questions were asked and prizes were won by vivek of D_3 mathematics and Basil of D_2 math. Finally shadi Nilofer Explained the 12 pentagon theorem which can be proved using Euler's formula. The meeting was dispersed by 4.30 pm

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1. **Programme poster, Video presentations, Slides and Images.**
2. **Conducted on 20/03/2021, Saturday at 7.30 pm through google meet platform.**

PROGRAMME REPORT:

- The mathematics circle by team MATINS began with a welcome speech by Irfan Ashraf.He was the host and coordinator of the circle. He enlightened us with the importance of mathematics in the contemporary world.
- Rifah presented the most relevant mathematics news with the help of a powerpoint presentation. The presentation took about 10 minutes . She began with the question What's happening in the world of mathematics. The main headlines included Cybersecurity Pioneers Win the Abel Prize, The Ramanujan machine,New solution for 'SUM OF CUBES' discovered and Mathematician suggests a scheme for solving telegraph equations . The powerpoint presentation was rather attractive and informative, making the audience read and understand the news topic.
- We all have days when we run late to lectures.But did it do us any good? Muhammed Labeeb told an inspirational story about a young boy who solved two open problems in statistical theory which he had mistaken for homework after arriving late to a lecture. If he had been on time the problem might still be unsolved and he might not become the great mathematician George Dantzig.
- Farhana presented about the topic digital roots.The digital root or digital sum of a non-negative integer is the single-digit value obtained by an iterative process of summing digits, on each iteration using the result from the previous iteration to compute the digit sum. The process continues until a single-digit number is reached.
- A puzzle is a game, problem, or toy that tests a person's ingenuity or knowledge. In a puzzle, the solver is expected to put pieces together in a logical way, in order to arrive at the correct or fun solution of the puzzle. There are different genres of puzzles, such as crossword

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puzzles, word-search puzzles, number puzzles, relational puzzles, and logic puzzles.Mathematical puzzles make up an integral part of recreational mathematics. Shamna came up with picture puzzle and number puzzles. It was quite a fun game. It was rather refreshing and enjoyable. Everyone present in the meet responded and interacted with her. She showed certain pictures and asked us to identify the hidden numbers.

- Conjectures pave the way to set up theorems. Hasna presented about "conjectures in mathematics ". She explained about what is meant by conjectures, importance of conjectures in mathematics and also described two famous conjectures in mathematics, the Christian goldbach conjecture and collatz conjecture. Both are simple but remain unsolved because either the math and technology doesn't exist yet or some connection between current fields has not been established. It was quite an informative session.
- Entertainment is a form of activity that holds the attention and interest of an audience or gives pleasure and delight. It can be an idea or a task. Our team organized a tongue twister event and many students as well as teachers participated in it.
- Aiswarya elaborated on the topic of Ptolemy's theorem.
  Ptolemy's theorem: For a cyclic quadrilateral (that is, a quadrilateral inscribed in a circle), the product of the diagonals equals the sum of the products of the opposite sides. AC BD = AB CD + AD BC.
  We can also prove the Pythagoras theorem using Ptolemy's theorem. She showed various proofs along with diagrams.
- Then a quiz was conducted by Farhana . It was conducted via google form with a 10 minute duration.
- Meanwhile entertainment programs were conducted such as songs, recitation etc.
- Then Farhana announced the winners .Basil eldho(3rd year maths)got 1st position by scoring 13 points and rahila(1st year maths)got the 2nd position by scoring 11 points. And finally Irfan concluded with a vote of thanks and invited students and teachers for feedback.
- The circle meet took about one and half hours to conclude.

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Sample brochures of the Mathematical Circle meets

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6. Enrichment camps

Special camps are organized every year for the benefit of students providing students with opportunities to learn, explore, and evolve in diverse dimensions. The experiences and friendships formed during college camps create memories that students cherish long after their college years. Camp schedules are often prepared, requiring participants to manage their time effectively. This skill is invaluable in the academic and professional worlds, where time management is crucial. Bhoomithrasena, a Club of WMO Arts and Science organized a two day study camp PARISTHITHIKAM on 10th and 11th of February 2018. The program was sponsored by the Department of Environment and Climate Change Govt. of Kerala.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2017-2018	10-02-2018	37
2	2018-2019	19-09-2018	35
3	2019-2020	22-09-2019	57

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On the 15th of October 2018, the PG Department of Social Work orchestrated an enriching camp named RANTHAL 2K19. The primary objective of this camp was to discover and nurture the diverse interests and skills of the participating students. The event turned out to be a resounding success, providing a platform for students to explore their talents and passions. Through a series of engaging activities and interactive sessions, the camp proved to be both enjoyable and informative for all involved. RANTHAL 2K19 played a significant role in fostering a sense of camaraderie among the students and helping them recognize their potential in various areas, further enhancing their academic and personal growth.

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The PG Department of Social Work meticulously organized a transformative rural camp named "NELLIKKA" from September 15th to 22nd, 2019, at Nellarchaal, 16th ward, Wayanad. During this camp, the students embarked on a meaningful mission to enhance the safety and well-being of the village community. The students collected various reusable materials from different areas of Nellarchaal and utilized them to construct a protective fence around a local well. This thoughtful initiative aimed to create a safer environment for the villagers, allowing them to walk fearlessly even during the night. The project not only addressed a practical need within the community but also fostered a sense of unity and camaraderie among the students and villagers.

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Service Activities

7. Observance of Pi Day

Every year students of the Department of Mathematics conduct various programs to celebrate Pi Day and for capacity building of students. The activities provide opportunities for skill development that extends beyond the realm of mathematics. These programs equip students with critical thinking, problem-solving, and collaboration skills that are applicable in various academic, professional, and personal contexts.

Observing Pi Day 2018, various programmes including presentations, Quiz and puzzles were conducted by first year BSc Mathematics students and prizes were distributed to the winners.

Observing Pi Day during 2019-20, various programmes including presentations, Quiz and puzzles were conducted by BSc Mathematics students and prizes were distributed to the winners

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The Pi Day celebrations (Ludolphian 2022) were co-ordinated by I MSc Mathematics students on 14 - 3- 2022. The programs were inaugurated by Mr. Siby Joseph, Associate Professor and Head, Dept of Electronics. Saradha S of I BSc Mathematics delivered a talk on the 'Importance of Pi'. A Puzzle corner was set up near Athimarachuvadu for students of other departments. An interdepartmental Treasure hunt was conducted in the campus. Students of II year B Com Computer Applications won the first prize and cash award

8. National Mathematics Day (MAGMA)

Students of the Department of Mathematics conducts various programmes under the title MAGMA to celebrate National Mathematics Day and for enriching soft skills and capacity building of students. MAGMA 2018 was conducted during 2018 August 3-4, with the financial support of KSCSTE(Kerala State Council for Science Technology and Environment). The Programmes included Mathematics Exhibition, Invited talks, a Presentation competition and a Poster Exhibition. Principal Dr Muhammed Fareed inaugurated the programme by raising a banner for MAGMA2018. He delivered a message regarding National Mathematics Day during the occasion and students paid tribute to the great mathematician Srinivasa Ramanujan. All banners, brochures and certificates were designed and prepared by the students themselves. A Mathematics exhibition was conducted for college students. About nine hundred students from different institutions visited the exhibition. Enthusiastic students put forth intriguing models,

mathematical games, puzzles, geometrical attractions, manuscript magazines and mathematics problem contests which revealed the notion that mathematics is the language with which God has written this universe. The exhibits were profoundly educative and the response from participants was overwhelming. The following students won cash prizes for the problem contests and for solving challenging mathematical puzzles.

During the academic year 2019-20, MAGMA- 2019 was conducted at W. M. O. Arts & Science College, Muttil during 18,19 December 2019. The Programs included an Invited talk, Math Maze, a Presentation competition, Treasure Hunt, and a Poster exhibition. All banners, brochures and certificates were designed and prepared by the students themselves.

The formal inauguration of National Mathematics Day celebrations was held on December 18, 2019. Principal Dr Muhammed Fareed and Dr Aswathy R K, NIT, Kozhikode, an alumnus of the college, inaugurated the programme by solving a puzzle 'Turn the circle into a square'. The Principal delivered a message regarding National Mathematics Day during the occasion and students paid tribute to Srinivasa Ramanujan.

MAGMA 2020 was conducted using online platforms on 22-12-2020. Ms. Viji C B, Assistant Professor, Maharajas College, Ernakulam, who is also an alumnus of our college, inaugurated the program. The Programmes included exploratory talks, Slide presentations, Quiz, Mathematical games poster presentations.

MAGMA- 2021 was organized with various programs on 22-12-2021. Dr. Muhammed Fareed T P, Principal W M O Arts and Science College inaugurated the program. The Programmes included Exploratory talks by students, Slide presentations, quizzes, Mathematical puzzles, and games. A Christmas Carol was performed by the students celebrating Christmas. The cultural program was organized as part of the celebrations which showcased the talents of students.

Sl. No	Academic Year	Date of Commencement of the program	No. of Participants
1	2018-19	4-8-2018, 22-8-2018	150
2	2019-20	18-12-2019 to 21-12-2019	120
3	2020-2021	22-12-2020	80
4	2021-2022	22-12-2021	60

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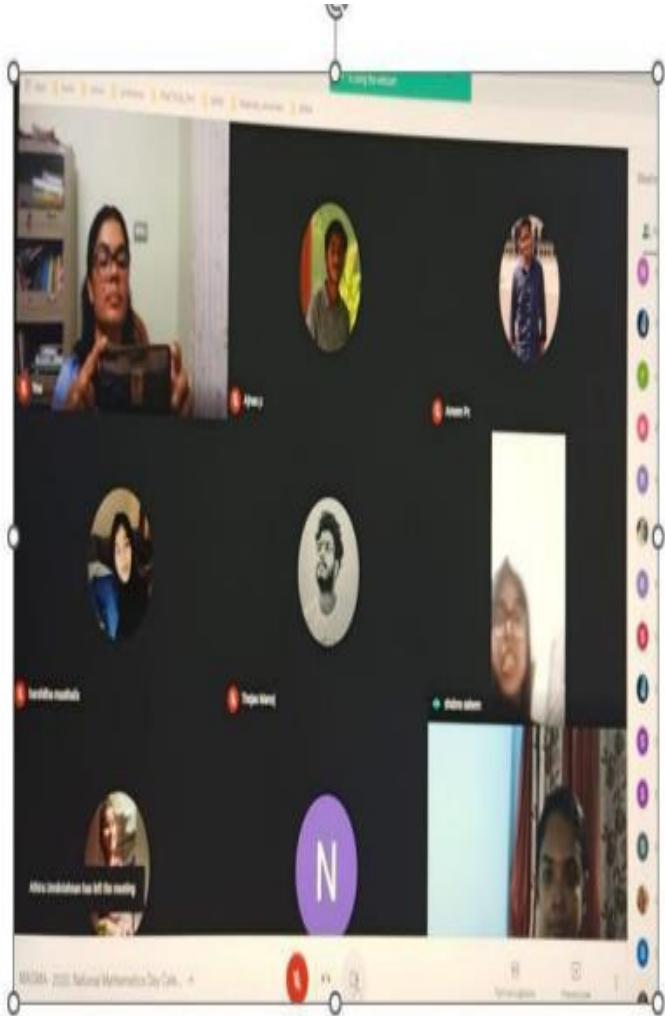
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9. Effective Communication Technique.

PG Department of English organized a workshop on Effective communication Techniques on 19 November 2019. This session helped the students to enrich their communication techniques. Mr. Aboobacker Siddique, managing director, Shone Education Centre Dubai interacted with the students.

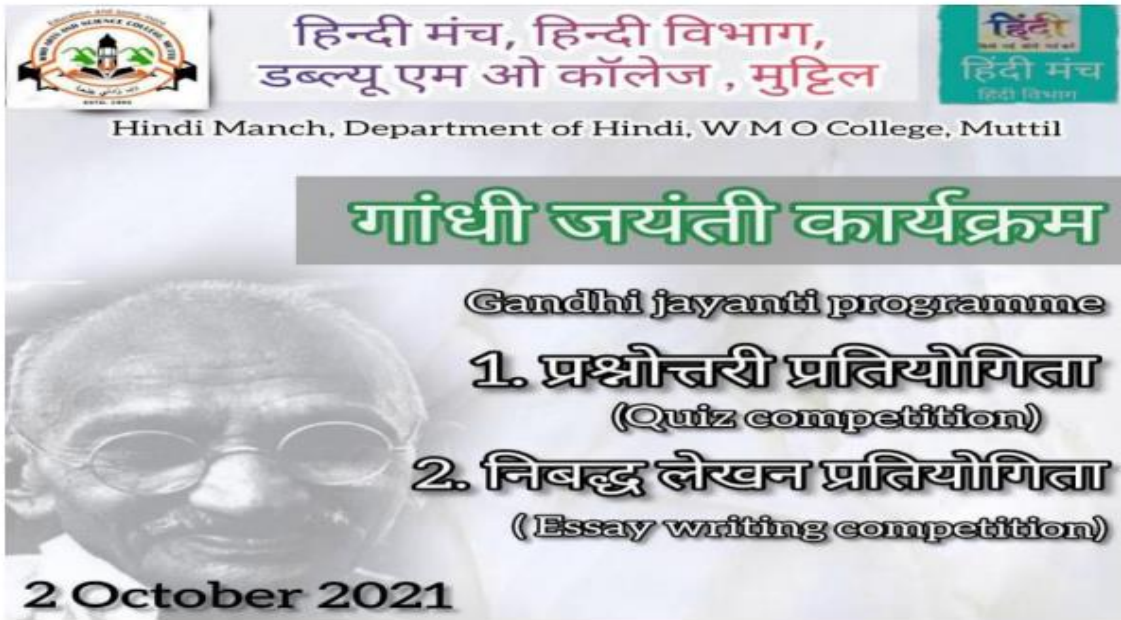| Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2019-2020	19-11-2019	48

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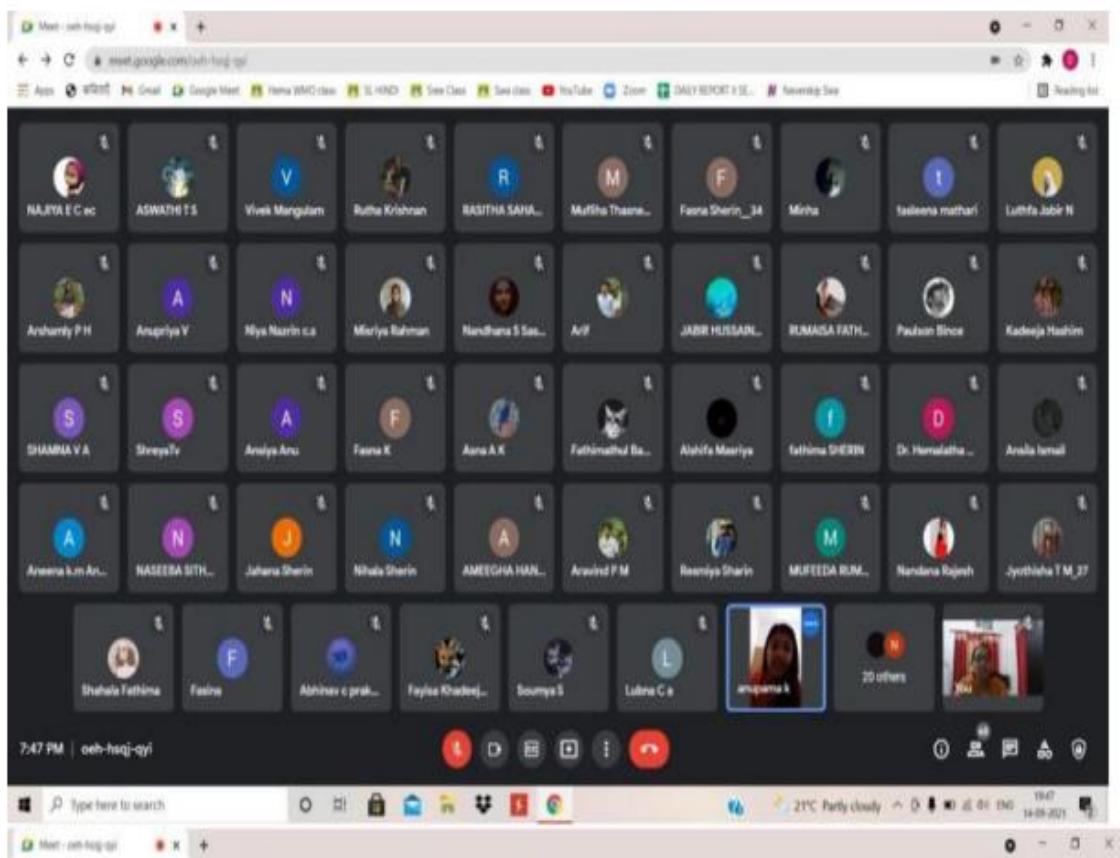W.M.O. Arts & Science College
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10.   Gandhi Jayanthi program

The Department of Hindi organized quiz competition and essay writing competition in connection with Gandhi Jayanthi.

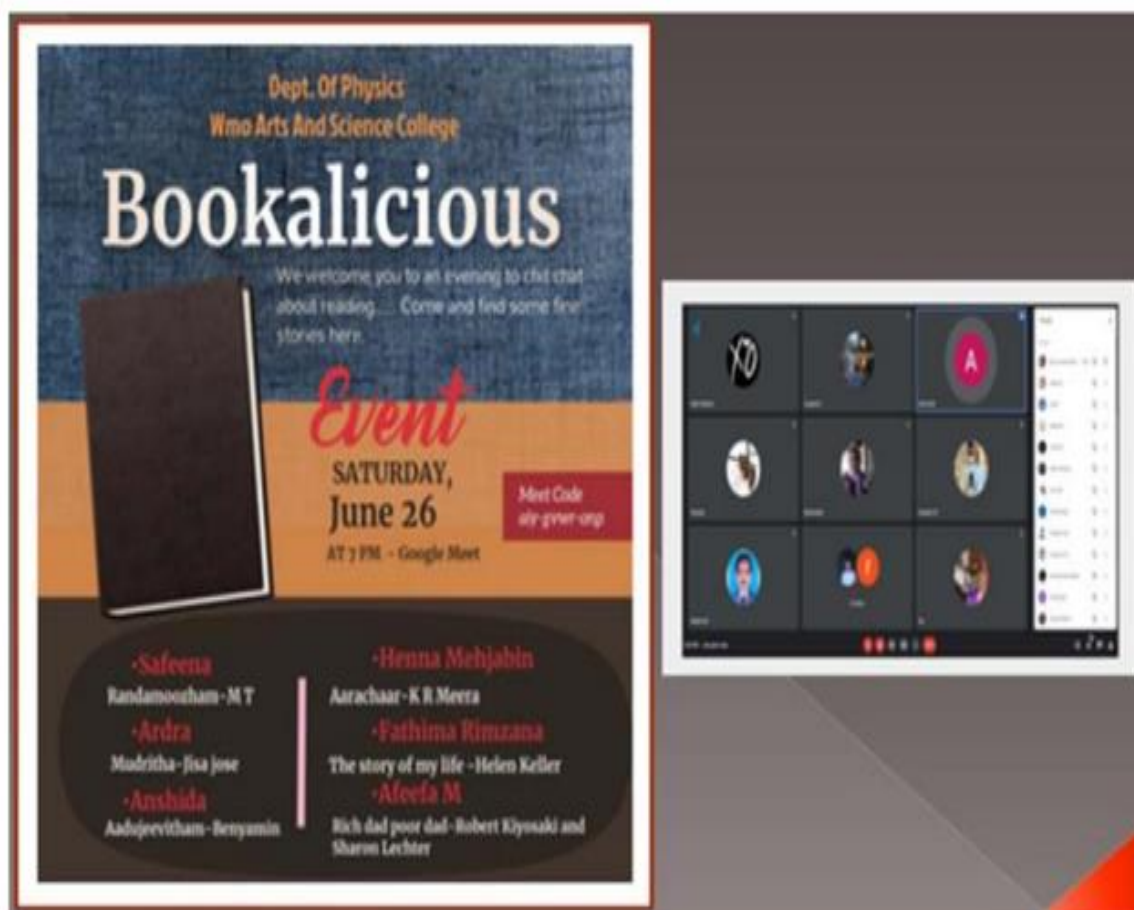| Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2021-2022	02-10-2021	40
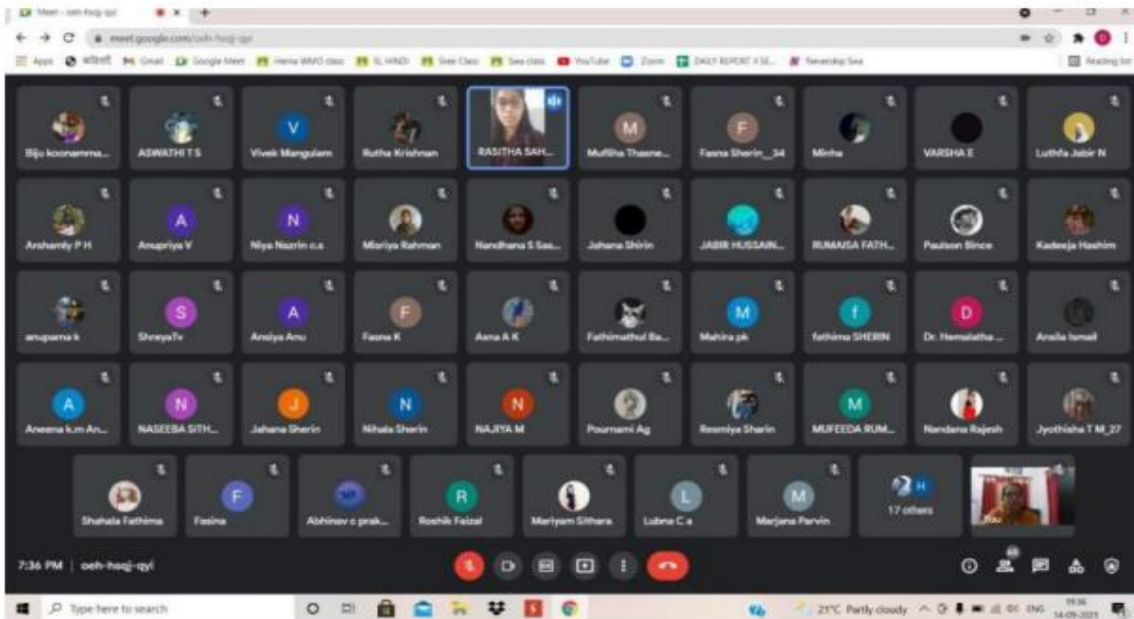
11. Reading Week Celebration.

The Department of Physics organized a Reading week celebration from 26th June 2021. Ardra Sunil, Anshitha Aboobacker, Fathima Rimsana, Henna Mehjabin, Anupama, Safeena A and Afeefa M shared their reading experience. It was a wonderful event conducted by the students.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2021-2022	26-06-2021	30

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12.   Space week Celebrations

Department of Physics has celebrated space week with two online talks. Dr. Sidharthan, Rtd. Scientist ISRO, has delivered a talk on History of space expeditions on 08/10/2021 and Mr. Manikandan P E, Scientist; ISRO gave a talk on Geo Satellite operations on 09/10/2021. Both of them were conducted through Google meet.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2021-2022	08-10-2021 to 1510-2021	22

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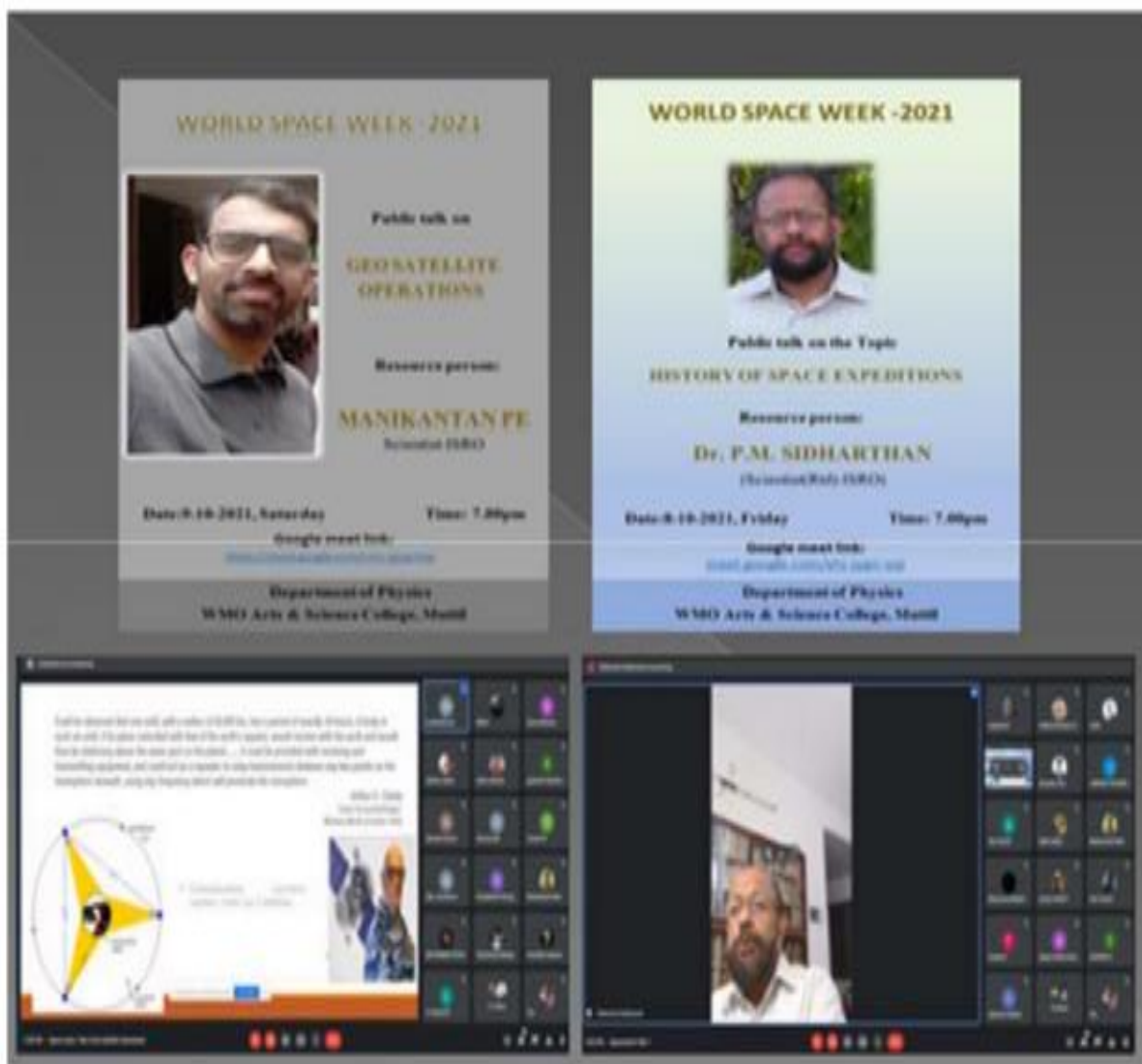
13.   Student Presentations.

Department of Physics conducted a presentation program. This program was part of the Student Presentation Series. Ms. Shana Shirin presented a paper on 26/03/2022.

Sl. No	Academic Year	Date of Commencement of the program	No. Of Participants
1	2021-2022	26-03-2022	33

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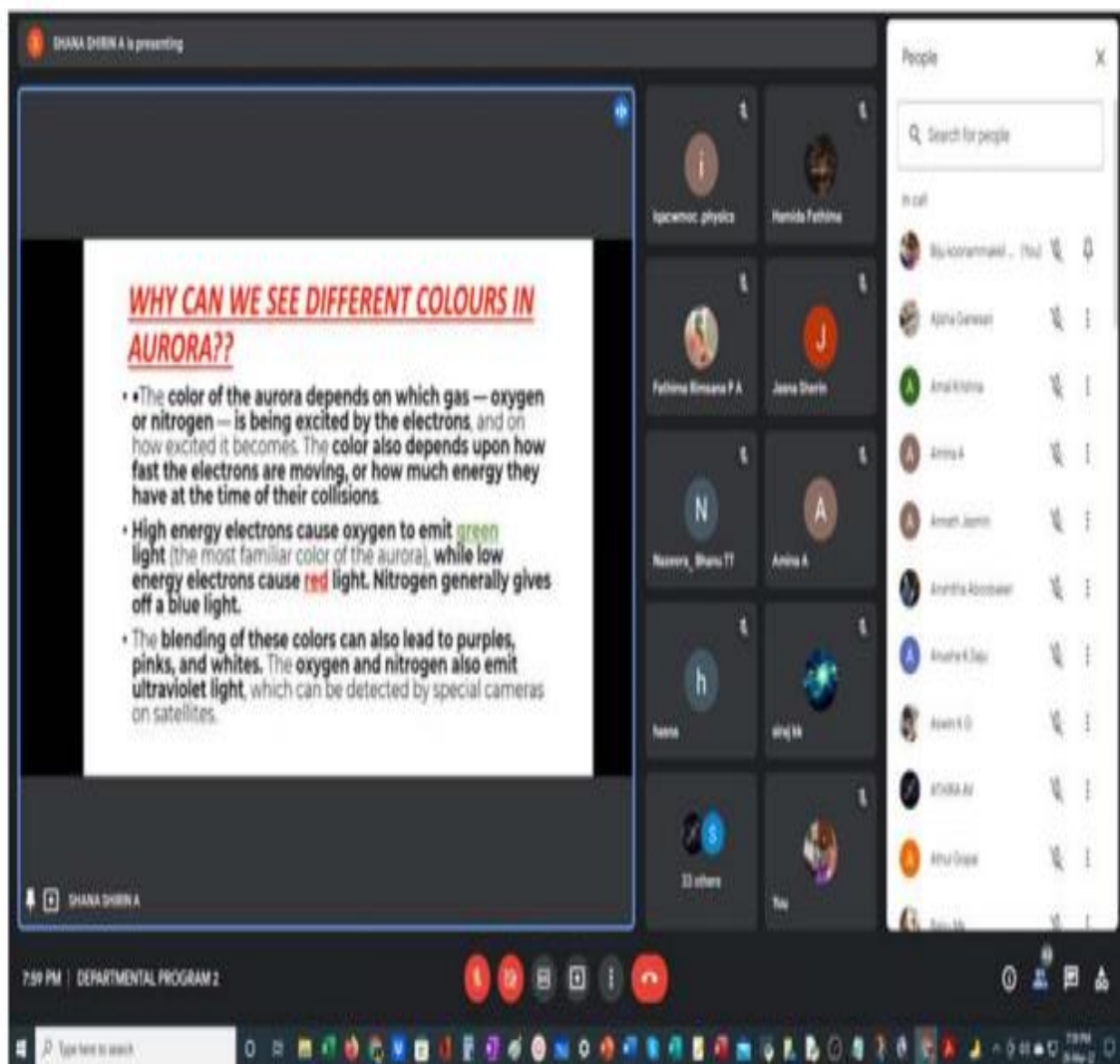
Nandhitha Endowment Programs are organized every year for Skill development of students. Department of English organized I TALK in connection with Nanditha Endowment. It was an intercollegiate competition. Many students participated in the program from various colleges in Wayanad.

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