



P.K.M. COLLEGE OF EDUCATION

MADAMPAM, KAITHAPRAM PO, KANNUR-670631, Website-www.pkmcollege.org Govt. Aided Teacher Education Institution affiliated to Kannur University Recognized by NCTE and included under UGC 2(f) & 12B category Accredited by NAAC with 'A' Grade, RUSA 2.0 beneficiary

PROGRAMME PORTFOLIO

DEPARTMENT OF MATHEMATICS 2021 - 23



REPORT OF MATHEMATICS OPTIONAL CLASS OF THE YEAR 2021-2022

OBJECTIVES

1. To nurture, create and mold inspiring mathematics teachers.
2. To enable and up to date student teachers to have online teaching techniques so that to make them good online teachers.
3. To acquire mastery in various techniques and hence to create efficient next generation teachers.
4. To mold excellent teachers through discussion, criticism and demonstration classes.
5. To be proficient in planning and executing lessons.
6. To develop competency in teaching exceptional children and all types of children.
7. To develop competency in student teachers to pass K-TET exams.
8. Provide opportunities to teacher student that enable learning experience to make subject Matter meaningful at secondary level.
9. To prepare dedicated teachers for improvement of the school education system.
10. To understand the history of mathematics and mathematician so that the teacher students get motivated, decrease their anxiety related to the subject, building positive attitude towards the subject and have a better understanding about mathematics.

ACTIVITIES PLANNED

1. Seminar presentations
2. International webinar
3. Workshop on google form

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4. Video editing class
 5. Pre internship orientation
 6. Preparation of K-TET questions
 7. Micro teaching
 8. Demonstration Lessons
 9. Criticism Classes
 10. Demonstration Lessons
 11. School Internship
 12. SET,K-TET,C-TET Holders
 - 13.. To draw different geometric patterns and number patterns.
 14. Collect contributions of different Mathematicians
 - 15..Fibonacci day celebration.
 - 16.Seminar presentations .
 - 17..National Mathematics day.
 - 18.e day and G.H Hardy Birthday celebration.
 - 19.Daniel Bernoulli Birthday celebration.
 - 20.Alfred North Whitehead and Ronald Fisher Birthday Celebration.
 - 21.Magazine Releasing Ceremony .
 - 22.Piday Celebration.
 - 23.Matricks-Tricks for Mathematics
 - 24.Sakuntala Devi- film

ACTIVITIES EXECUTED

SECOND,THIRD&FOURTH SEMESTER REPORT

1. SECOND SEMESTER SEMINAR

The second semester started on 01/06/2021, During the first week of June, the teacher allotted topic for the seminar. The student-teachers gathered together on the online platform and took seminars on the topics assigned to them.

Seminar topics are added below.

No.	Students Teacher	Date	Topics
1	Jisna Baby	01/07/2021	Graph, measures of central tendencies and their real life applications.
2	Jesmi George	11/08/2021	Impact of examination reform efforts in the modern senario
3	Archana Madhusoodanan	12/08/21	Importance of performance assessment
4	Toby S Abraham	12/08/21	Trends in assessment of student with disabilities.
5	Anusree M	12/08/2021	Portfolio managment
6	Sandra Biju	16/08/21	Dispersion – An overview
7	Aswathy	14/01/22	Theoretical foundation of learning and assessment
8	Maneesha Babu	01/09/21 u	New trends in evaluation



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ONLINE WORKSHOP ON GRAPH, MEASURES OF CENTRAL TENDENCIES AND THEIR REAL LIFE APPLICATIONS



PRESENTER
JISNA BABY
DEPARTMENT OF MATHEMATICS



Google meet


On 1/07/2021, at 2:00 to 4:00 pm




MODERATOR
JESMI GEORGE



PRESENTER




SANDHRA BIJU
Dept. Of Mathematics



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**WEBINAR
ON
DISPERSION -
AN OVERVIEW**

Date - 16/08/2021
Time - 1PM



MODERATOR



MANEESHA BABU
Dept. Of Mathematics




PKM COLLEGE OF EDUCATION, MADAMPAM

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MODERATOR



Fr. Toby S Abraham
Department of
Mathematics

A Seminar on "PORTFOLIO MANAGEMENT"



Google meet

Date - 12/08/2021
Time - 1 Pm -2 Pm

SPEAKER



Anusree M
Department of
Mathematics



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**SEMILAR
ON
Trends in
Assessment
of Students
With
Disabilities**

August 16, 2021
2.00 PM - 4.00 PM



PRESENTER



VINAY CHANDRAN
Dept. of Mathematics

MODERATOR



SANDHRA BIJU
Dept. of Mathematics

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Seminar
 ON
IMPORTANTAS OF PERFORMANCE ASSESSMENT

DATE-12/08/2021
TIME -12PM TO 1 PM
ON ZOOM

MODERATOR
 ANUSREE M

PRESENTER
 ARCHANA MADHUSODANAN

PKM COLLEGE OF EDUCATION, MADAMPAM
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WEBINAR
 ON
NEW TRENDS IN EVALUATION

BY
MANEESHA BABU
 DEPARTMENT OF MATHEMATICS

Platform :

 September 1, 2021
 4.00 PM

MODERATOR
 JISNA BABY

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WEBINAR
 ON
'THEORETICAL FOUNDATIONS OF LEARNING AND ASSESSMENT'

PRESENTER

 ASWATHI
 DEPT OF MATHEMATICS

MODERATOR

 ARCHANA MADHUSODANAN
 DEPT. OF MATHEMATICS


On 16-08-2021, 12:00 Pm-1:00 PM

 **ZOOM**

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Seminar
 ON
Impact of Examination Reform Efforts in the modern Scenario

Aswathi
 Moderator

 **Google meet**

Presented By
 JESMI GEORGE
 Dept of Mathematics

On 11/08/2021, At 12.15 PM -1.15 PM

2.REPORT ON INTERNATIONAL WEBINAR ON RESEARCH TECHNIQUES IN STATISTICS USING ANALYTICS

Department of Mathematics ,PKM College of education in association with IQAC and mathlovers club had conducted an international webinar on Research techniques in statistics using analytics as a part of national statistics day on 8 July 2021,at 10:30 AM virtually through Google meet platform. The main aim of the programme was to bring the people with a research mind to a single platform.

National Statistics Day is celebrated on June 29 on the birth anniversary of late Professor Prasanta Chandra Mahalanobis. Often referred to as the 'father of Indian statistics', Mahalanobis, was born on June 29, 1893, in Calcutta (now Kolkata), West Bengal. PC Mahalanobis is best remembered for the Mahalanobis distance, a statistical measure and for being one of the members of the first Planning Commission of India. He founded the Indian Statistical Institute (ISI) and contributed to the design of large-scale sample surveys. End Hunger, Achieve Food Security and Improved Nutrition and Promote Sustainable Agriculture (Sustainable Development Goal or SDG 2 of the UN) is the theme of this year's National Statistics Day. Goal 2 seeks "sustainable solutions to end hunger in all its forms by 2030 and to achieve food security. Considering the time of the resource person and and the college, the celebration was shifted to 8 July 2021.

The registration for the webinar was done using the google form and all the participants had filled the registration form. The programme starts sharply at 10:30 AM. The programme was having two sessions, the inaugural session and the technical session. The inaugural session started with the college prayer. It was followed by the welcome address delivered by the staff coordinator Dr. Sholy Joseph K. Then the presidential address was done by Dr. Jessy NC, Principal, PKM College of education Highlighting the importance of promoting research among student teachers. Then the inauguration for the webinar was given by Dr. Sabu A, pro vice chancellor of Kannur university, who highlighted the importance of statistics in the developmental planning of our nation. He also highlighted The importance of ISI in making a qualified human resource, which was an important contribution of Professor Mahalanobis and stress The importance of statistics

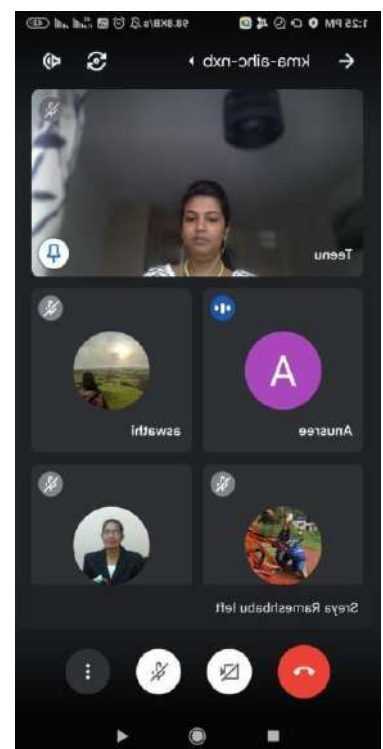
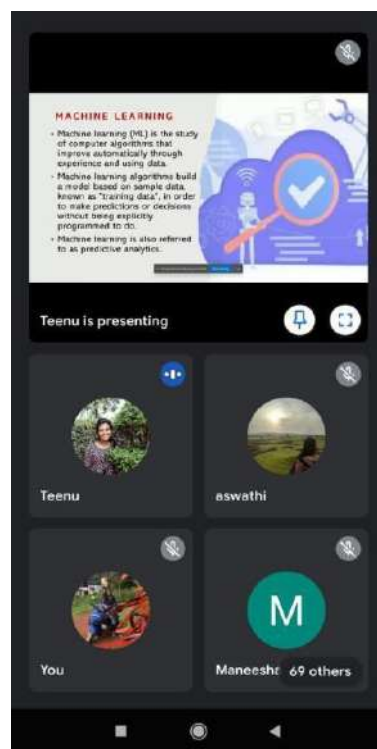
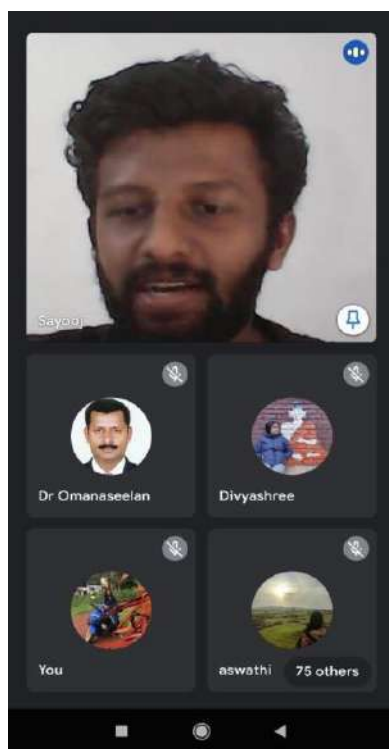


in research areas. The benedictory address was given by Rev. Fr. Philip Ramachanatt, who blessed the program with his beautiful words.

The felicitation address was given by Dr. Omanaseelan, Principal Government Brennen College of teachers education who highlighted the research techniques in statistics . He was followed by the felicitation by student council president Mr. Sayooj VV. The inaugural session came to an end by the vote of thanks by Ms. Jisna Baby, the student coordinator.

The technical session was started by the welcome speech by Ms. Manesha Babu, the student representative. Then comes the technical session by the resource person, Ms. Teenu Mariya

James, Who is doing her masters degree in big data analytics from university of Derby, England. She highlighted the importance of statistics in day to day life especially in the weather forecasting, robotics, medical field, GPT-3(generative pretrained Transformer 3- artificial intelligence), machine learning, election etc. The resource person also try to make the class more interesting by showing videos regarding the beauty of data visualisation and the ways in which the statistician use it in order to interpret a huge data to be understood by a common man. She also gave an idea to the participants on how to get started in Data Analytics with the help of her own project on heart patients. She says the importance steps are formulating hypothesis, understanding data, data cleaning, selection of data, data preparation, selection of model, model presentation and model prediction. Then she entered into one of the most important as well as interesting topics of ethics, trust and Governance of this data using the example of election of America in 2016. The session was interesting and drew the attention of the participants.



Then there was an interactive session, where participants asked their queries regarding the session. The event marked its conclusion with the Vote of Thanks delivered by Mrs. Anusree M, student representative. About 81 participants took part in the webinar. A link was given to fill the feed back form at the end of the session and the certificate was given to all participants who filled the feed back form.

INTERNATIONAL WEBINAR ON RESEARCH TECHNIQUES IN STATISTICS USING ANALYTICS

FEEDBACK FORM

*Required

Email *

Your email

Full Name *

Your answer

Designation *

Your answer

College/University

Your answer

How would you rate the overall webinar experience? *

Excellent
 Good
 Fair
 Average
 Poor

How helpful was the webinar for you? *

Extremely helpful
 Very helpful
 Somewhat helpful
 Not so helpful
 Not at all helpful

Would you say the event was interactive? *

No, the communication was one way
 Yes, it was very interactive

Would you like to attend more events like this from our organization? *

Yes
 No

The duration of the event was just right. (Not too long or not too short) *

Strongly disagree
 Disagree
 Neutral
 Agree
 Strongly Agree

Do you have any other comments / suggestions that would help us make future events better? *

Your answer

Send me a copy of my responses.

Submit

View submitted responses through Google Forms

Additional Email Data

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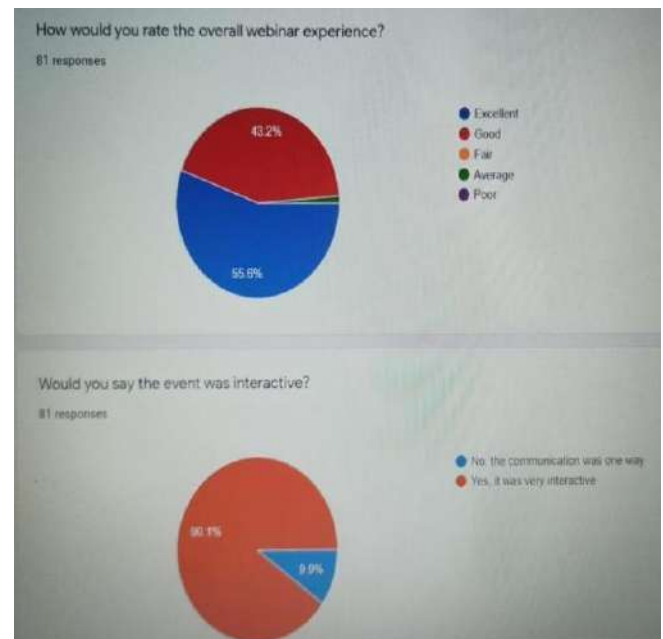


EVALUATION

3. Designation

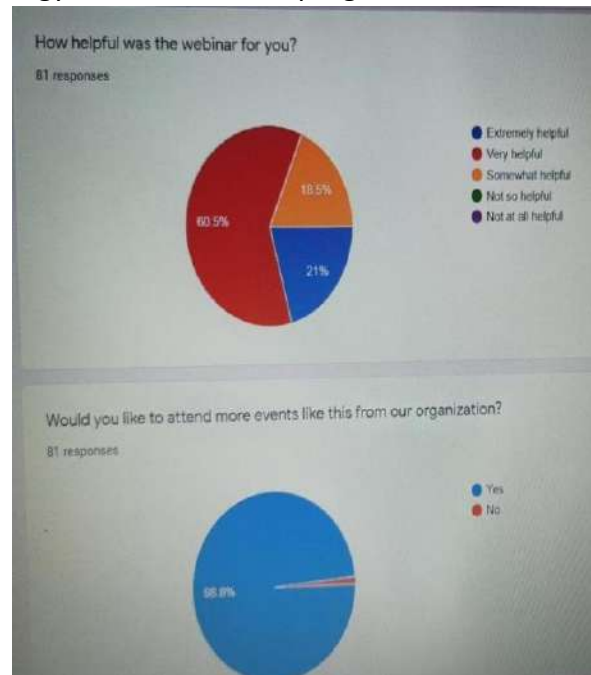
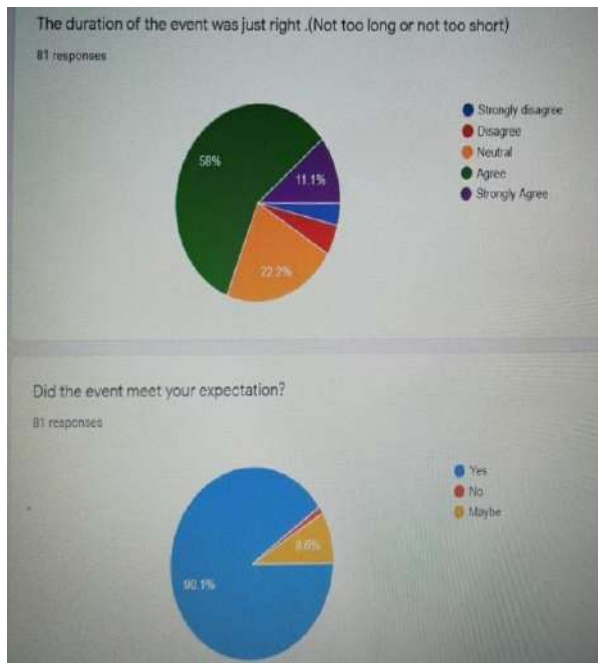
PIE CHART

- Student - 60
- Research Scholar - 2
- Faculty - 17



81 People participated in the webinar, out of which 60 were students, 2 were research Scholars and 17 were faculties. About 55.6 % of the participants rated the overall webinar experience as excellent and about 43.2% of the participants rated it as good. About 9.1 % of the participants opined that the event was very much interactive. About 11.1% of the participants strongly

agree that the duration of event was not too long or not too short and 58% of them agree to that and 22.22% it partially agree and partly disagree to this statement. Out of this 81 participants almost 21% of them, got extreme use out of this ,60.5% got very much use and 18.5% got some what use out of this seminar. Also 98.8% of the participants like to attend more such events from the college. This data gives useful information and insight on what all things we have to be careful and to improve in our future programs and gives the energy to conduct more programs like this.

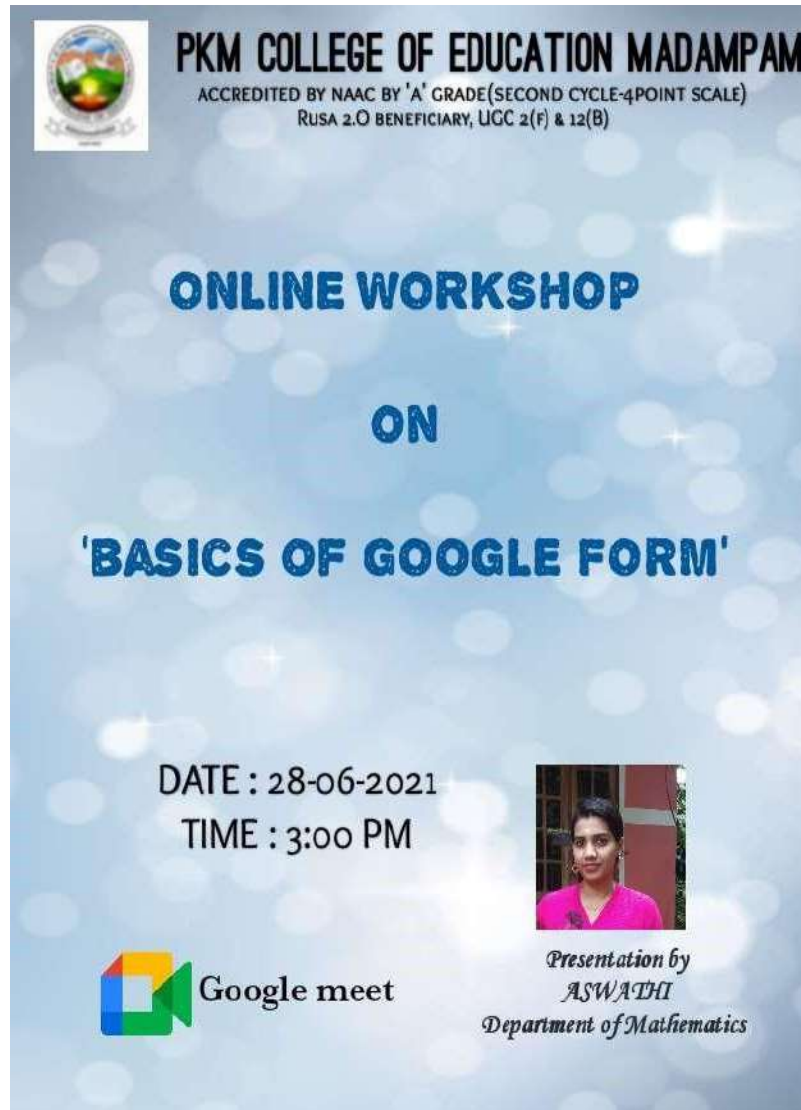



PRE-WEBINAR PLANNINGS

The first discussion off the webinar was conducted on 23rd June 2021. By 25th June 2021 Ms. Teenu mariya James was selected as the resource person for the webinar. On that day itself the staff coordinator Dr. Sholy Joseph K selected Ms. Jisna Baby as the student coordinator and asks to distribute different duties to others. Then all 8 students taken up different parts. Registration form was made by Ms. Maneesha Babu, brochure by Mrs. Archana Madhusoodanan, the feedback form and certificate was made by Ms. Sandhra Biju and Ms. Jesmi George and the responsibility of the WhatsApp group was taken by Mrs. Anusree M and Ms. Aswathi. The program was scheduled by Ms. Sandhra Biju and sharing during the program was done by Ms. Maneesha Babu. The anchoring for the whole program was done by Ms. Aswathi. The whole program was recorded by Ms. Jesmi George and Ms. Maneesha Babu. The news paper report was made by Toby S Abraham. All coordinated well and all 8 students do their part as best as possible.

3.WORKSHOP ON GOOGLE FORM

Mathematics department of PKM college of education has organized an online workshop on the application of google forms for the second year mathematics students. It was conducted on 11 of August, 2021, through google meet platform at 11:00 am. The workshop was headed by Aswathi of second year mathematics. All 8 students actively participated in the online workshop and made a google form on their own. It was a one hour workshop which came to an end by 12:00 pm.




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ONLINE WORKSHOP


ON

'BASICS OF GOOGLE FORM'

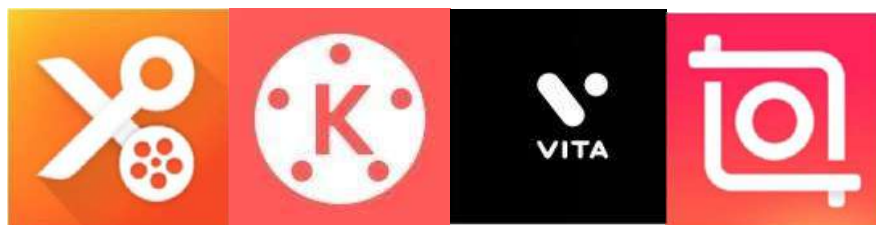
DATE : 28-06-2021
TIME : 3:00 PM



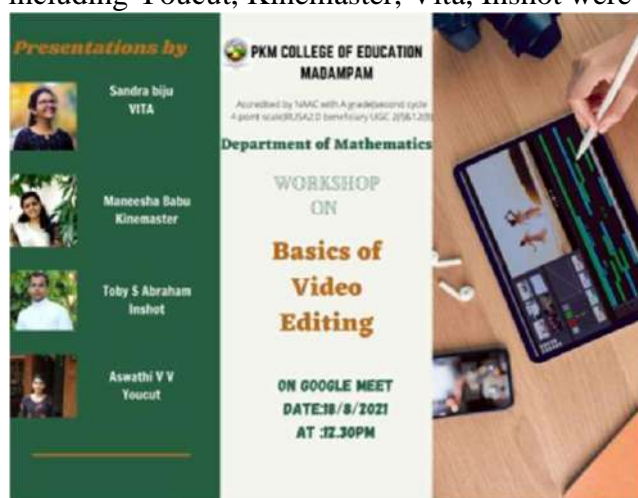
Presentation by
ASWATHI
Department of Mathematics

 Google meet

4. VIDEO EDITING CLASS (18/08/2021)



2020-22 batch students of mathematics department conducted a tutorial class on video editing. All the 8 students of the mathematics department actively participated in all the sessions. The aim of the session was to equip student teachers to prepare video lessons. The class was conducted in 4 sessions. Each session was led by students of the department. A total of 4 video editing apps including Youcut, Kinemaster, Vita, Inshot were introduced in the class.



APP DETAILS	SESSION LED BY
Youcut	Aswathi
Kinemaster	Maneesha Babu
Vita	Sandhra Biju
Inshot	Toby S Abraham

5.REPORT ON PRE-INTERSHIP ORIENTATION ON RECENT TRENDS IN LESSON PLAN PREPARATION, TEACHING LEARNING PROCESS AND EVALUATION IN EDUCATION

Department of mathematics PKM college of education, Madampam had conducted a preinternship orientation programme on RECENT TRENDS IN LESSON PLAN PREPARATION, TEACHING LEARNING PROCESS AND EVALUATION IN EDUCATION on 1st september 2021 at 7.00pm virtually through google meet platform.



The programme was started with the welcome address by Dr. Sholy Joseph K, Assistant Professor of Mathematics, PKM college of education. The felicitation address was given by Mrs. Praveena K V, Assistant Professor, Mahatma college of education, Nileshwar.

Then comes the orientation class by the resource person, Mrs. Jismy Georgekutty, UPST, Vayathur UP school, Ulikkal. She pointed out the importance of preparation and lesson planning for teachers. She shared her experiences in teaching, explaining different tips for grabbing the attention of students, different teaching methods, and modern trends in lesson planning. Also the resource person highlighted the importance of incorporating games and other fun activities into the mathematics classroom. The session was very interesting. It was followed by the interactive session. The participants asked their queries regarding teaching and lesson planning. She cleared all the doubts through sharing her experiences.



The session came to an end by the vote of thanks by Ms. Maneesha Babu, the student representative. The event ended at 9.00pm.

About 29 participants, including teachers and student teachers from various B Ed colleges, attended the meeting. The programme was scheduled by Mrs. Archana madhusoodanan and it was recorded by Ms. Jesmi George and Ms. Maneesha Babu. The recorded video of the programme was uploaded to department's youtube channel by Ms. Aswathi . YouTube link <https://youtu.be/hZhhIKm5WC8>



6.K-TET QUESTION BANK PREPARATION

Second year Mathematics B Ed students prepared question bank for KTET examination with the aim that each student should qualify the examination before the end of their B Ed course.

Aswathi was appointed as the coordinator for question bank preparation. The strategy taken for preparation was that, the total syllabus for the examination was divided into 8 equal parts, each of the part is given to each student, and they were asked to prepare a minimum of 25 questions from their corresponding section. Each student prepared their questions in multiple choice model. On 07/09/2021 all the questions were merged; final pdf was made and it was given to all students. Exam preparations were made on the basis of the question bank, 2 students qualified KTET and 3 students qualified set examination.

7. MICRO TEACHING

For learning various skills in Mathematics the teacher trainees of mathematics department of PKM College took micro teaching classes under the guidance of Dr Sholy Joseph K, Head of mathematics department.

The topics handled by all the 8 teacher trainees is mentioned below.

SL NO	NAME	DATE	TOPIC
1	Maneesha Babu	05/08/2021	Tangents
2	Jesmi George	05/08/2021	Ratio and proportion
3	Archana Madhusoodanan	05/08/2021	Sum of interior angles of a triangle
4	Anusree M	05/08/2021	Similar Triangles
5	Aswathi	06/08/2021	3D shapes Cube
6	TobyS Abraham	06/08/2021	Interest
7	Jisna Baby	06/08/2021	Proof of zero factorial equal to 1
8	Sandhra Biju	06/08/2021	Mathematical induction

8. DEMONSTRATION CLASSES

The students of 2020-2022 batch observed the demonstration classes of the following teachers about the given topic.

First observed the vedio class of Ms Arsha about area of circle, next observed the class of Mr Jismon Mathew about new numbers, next observed the class of Ms Yamuna about regular polynomial, next observed the class of Mr Raveendran about second degree polynomial, last observed the class of MrS Sindu about equal triangles. After watching all these classes each and every student made the corresponding demonstration lesson plan in word format.

9. CRITICISM CLASS

As an essential part of B.Ed course criticism classes of mathematics students of 2020-22 batch was conducted from 23/09/21 to 30/09/21.

Students made video classes on selected topics. After watching video classes of each one a discussion was conducted and critically examine positive aspects and the points need to improve. All students and teacher participated in discussion. The criticism classes was very helpful for every students to improve their teaching skills.

SL NO	NAME	DATE	TOPIC
1	Maneesha Babu	23/09/21	Introduction to arithmetic progression
2	Jesmi George	24/09/21	Area of circle
3	Archana Madhusoodanan	25/09/21	Sum of interior angles of regular polygon
4	Anusree M	26/09/21	Introduction to identical triangles
5	Aswathi	27/09/21	Sets
6	TobyS Abraham	28/09/21	Probability
7	Jisna Baby	29/09/21	Area of Rhombus
8	Sandhra Biju	30/09/21	Introduction to pascal's triangles

10. SCHOOL INTERNSHIP

School internship for the academic year 2020-22 began on 11/10/2022. In the beginning, classes were taken on online mode. From the first week of November offline internship started and student teachers joined in their respective schools. Classes started for 8th and 9th standard students on 08/11/21 and 15/11/21 respectively. Around 20 lesson plans were taken for both 8th and 9th standard students. 10 video lessons and 20 peer lessons were taken during the internship. Student teachers participated actively in every program conducted in their respective schools and made School activities record according to that. Total 8 records were prepared and presented by each students on the basis of school internship. Fibonacci day (24/11/21) and National Mathematics Day (22/11/21) were celebrated successfully on each school and different Mathematics related competitions and events were conducted.

List of students and their schools

Name of student	School
Anusree M	GHSS Irikkur
Archana Madhusoodanan	Sacred Heart HSS Payyavoor
Aswati	GHSS Sreekandapuram
Jesmi George	GHSS Irikkur
Jisna Baby	Maryland High School Madampam
Maneesha Babu	Sacred Heart HSS Payyavoor
Sandhra Biju	Maryland High school Madampam
Toby S Abraham	Maryland High School Madampam

11. THIRD SEMESTER SEMINAR

The third semester started on the 10th of October. The Internship Program was conducted in schools until the 31st of December. The student-teachers then gathered together on the online platform and took seminars on the topics assigned to them.

Seminar topics are added below

No.	Students Teacher	Date	Topics
1	Jisna Baby	01/07/2021	Graph, measures of central tendencies and their real life applications.
2	Jesmi George	11/08/2021	Impact of examination reform efforts in the modern senario
3	Archana Madhusoodanan	12/08/21	Importance of performance assessment
4	Toby S Abraham	12/08/21	Trends in assessment of student with disabilities.
5	Anusree M	12/08/2021	Portfolio managment
6	Sandra Biju	16/08/21	Dispersion – An overview

7	Aswathy	14/01/22	Theoretical foundation of learning and assessment
8	Maneesha Babu	01/09/21	New trends in evaluation

No.	Students Teacher	Date	Topics
1	Jesmi George	06/01/22	Programmed Learning
2	Toby S Abraham	07/01/22	Identifying learners strength and weaknesses, Activity enriching mathematics learning
3	Jisna Baby	10/01/22	Mathematics club Mathematics fairs/Exhibition Mathematics Olympiad
4	Anusree	11/01/22	Exceptional children in mathematics- Mathematically gifted, slow learners, under achiever
5	Sandra Biju	12/01/22	Learning difficulties in mathematics (dyscalculia)-symptoms, identification and strategies to overcome dyscalculia
6	Maneesha Babu	13/01/22	Mathematical creativity Concept of multiple intelligence Governmental and nongovernmental initiatives in improving mathematics learning
7	Aswathy	14/01/22	Technology integration strategies for mathematics education Familiarizing program for teaching mathematics in education

8	Archana Madusoodharan	15/01/22	Using internet for accessing information, websites for authoritative information like ERIC, INFLIBNET etc Audio-visual aids, improvised aids- meaning and importance
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12. SET,K-TET,C-TET Holders

In preparation for the set exam, the student-teachers came together on an online platform to discuss the syllabus and previous year's question papers, and each student prepared probabilistic questions on each subject. Four students from the Mathematics section appeared for the set examination held on January 09, 2022 and two students, Maneesha Babu and Jisna Baby qualified for the set. Sandhra Biju and Jisna Baby qualified for K-TET and C-TET.



FIRST SEMESTER REPORT

13.Geometrical pattern& Number pattern

Every Student Teachers submitted an assignment consisting of 15 geometric patterns and 15 number patterns.

14.Contributions of Mathematicians

Every Student Teachers submitted an assignment consisting of 15 Mathematicians and their contributions.

15.FIRST SEMESTER SEMINAR

The first semester started on 03/11/2021, During the first week of December the teacher allotted topic for the seminar. Seminar topics are added below.

No	Student teacher	Date	Topic
1	Akhila James	10/01/22	Correlation
2	Haritha P V	21/01/22	Techniques of teaching Mathematics
3	Joyamol T Baby	03/03/22,04/03/22	Orientation to Theories
4	Jwala Mariya Cyriac	17/02/22	Reforms in Mathematical curriculum,Professional growth of a Mathematical teacher,SCERT,NCERT

5	Manjusha N	11/02/22	Principles of Curriculum Construction.
6	Sanjiya Benny	07/12/22	Qualities and competencies of good mathematics teacher.
7	Sneha V	24/01/22	Project method, Problem solving method.

16. FIBONACCI DAY CELEBRATION

In mathematics, the Fibonacci numbers, commonly denoted F_n , form a sequence, called the Fibonacci sequence, such that each number is the sum of the two preceding ones, starting from 0 and 1. The Fibonacci sequence is significant because of the so-called golden ratio of 1.618, or its inverse 0.618. In the Fibonacci sequence, any given number is approximately 1.618 times the preceding number, ignoring the first few numbers.

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FIBONACCI DAY CELEBRATION

Department of Mathematics
with Math lovers club

Programme

On: 24/11/2021

At : 11.30 am

At: Mathematics
method lab



Prayer:

Welcome : Jisna Augustin
presidential address: **Dr.Sholy Joseph K**
(Assistant Professor in
Mathematics)

Presentation: Jwala Mariya Cyriac

Felicitation : Sneha V

Vote of Thanks :Manjusha N

Department of mathematics together with Math lovers club celebrated Fibonacci day on 24th November 2021 about 12:00 p.m. at mathematics method lab. Miss Jisna Augustine delivered the welcome speech and the presidential address was delivered by Dr.Sholy Joseph, assistant professor in Mathematics, followed by that Ms. Jwala Mariya Cyriac delivered a presentation on Fibonacci sequence and Fibonacci day.

She explained that why November 23rd is celebrated as Fibonacci day, November 23rd is celebrated as Fibonacci day because when the date is written in mm/dd format 11/23 the digit in the date form a Fibonacci sequence 1,1,2,3. She gave a detailed explanation on how Fibonacci sequence works, what is the history of Fibonacci series and examples of Fibonacci sequence in nature. Followed by Jwala's presentation felicitating speech was given by Sneha V and Manjusha shared gratitude for the wonderful presentation.



**17.NATIONAL MATHEMATICS DAY
CELEBRATION**

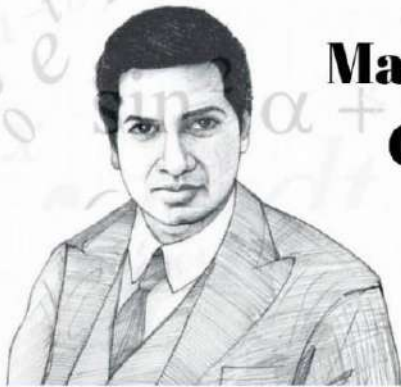
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In Association with
Mathematics Department and Mathematics Club
Organizes

National Mathematics Day Celebration



22/12/ 2021
at
9.30 AM

PROGRAMMES

Presentation

Math Magic

Guess Me!!

Prize
Distribution

Planning

Dr.Sholy Joseph.K , the assistant professor, department of mathematics , PKM college of education Madambam initiated the Planning of National Mathematics Day programme by selecting the convenor Joyamol T Baby and the accompanying team members Akhila James , Haritha P. V , Jisna Augustine , Jwala Mariya Cyriac, Manjusha N , Sanjiya Benny , Sneha V , Elsitta Jose , Ahana Thomas on 6th Dec 2021. The debut meeting of the committee was held under the governance of the professor Sholy joseph during class Hours on 7 th December 2021 in the Mathematics class cum method lab. The meeting primarily discussed about the programmes and Brochure . In the subsequent days the committee members engaged in deciding the diverse programs for the occasion. It was decided to Conduct two online puzzle competitions for first year B.Ed students of PKM college. The puzzle competitions were held on 8th and 15th

Execution



National Mathematics Day was observed by Mathematics Department in association with Maths lovers club on 22nd December 2021, in the general hall of PKM college of Education, Madampam. The glorious morning was sanctified with prayer . The welcome address was delivered by the maths lovers club joint convenor Elsitta Jose



It was followed by the Presidential address of Dr. Sholy Joseph.K, Assistant professor, Department of mathematics. The Inaugural address was given by Dr . Sr. Jessy NC, the principal of PKM College of Education, Madampam





Presentation



PowerPoint presentation was done by Ms. Jisna Augustine. She began the talk by detailing the history of national mathematics day. Later she introduced Srinivasa Ramanujan to the audience and explained his life story including stories and various incidents. She concluded the presentation by playing the teaser of the film 'The Man Who Knew Infinity'.

Math Magic

It was followed by a Math magic conjured by Ms. Haritha P V. She requested a few from the audience to aid her in her magic trick, where in the first game Arya K I, a teacher-student of physical science optional volunteered and in the second game Ms. Maya J Pillai, Assistant professor, came forward to accompany the Magician.

Guess me

This was followed by Ms.Jwala Mariya Cyriac conducting a 'Guess me' game. It required the partakers to rearrange the puzzle and identify the man hidden in it. A pair of each optional students participated in the task. Team physical science (Niha, Arya) got the first prize and the team natural science (Indukumari, Harsha) received the second prize. The third prize was awarded to team social science (jomal, Anusree).



Prize distribution

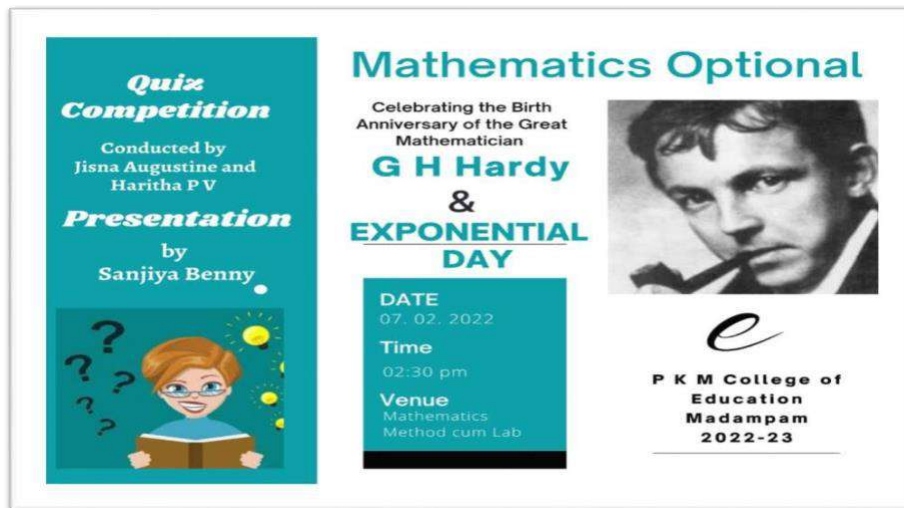
The prize ceremony followed the Guess me game .The first puzzle competition winner was Anjana chandran and second puzzle competition winner was Christina raju. Ms.Manjusha.N ,teacher student of mathematics optional gave vote of thanks.The entire programme was compered by Joyamol T Baby.



18. NATIONAL 'e' DAY & G.H.HARDY'S DAY

Planning

Dr. Sholy Joseph K, the assistant professor, department of mathematics, PKM college of education Madambam initiated the planning of National “e” Day & G H Hardy’s day on 31 st January 2022. The student teachers of mathematics optional of batch 2021-23 participate in the planning



The debut meeting of the committee was held under the governance of the professor Dr. Sholy Joseph during class hours on 31 st January 2022 in the Mathematics class cum method lab. The meeting primarily discussed about the programmes and brochure. It was decided to conduct presentation on the constant “e” and a quiz competition for the first year mathematics students of PKM College.

Execution

National “e” Day and G H Hardy’s Day were observed by Mathematics department on 7 Th February 2022, in the Mathematics class cum method lab. The welcome address was delivered by Ms. Sneha V. Ms. Jwala Maria Cyriac took up the role of moderator for the event. It was followed by the presidential address of Dr. Sholy Joseph K, Assistant professor, department of mathematics.

Presentation



NATIONAL 'e' - DAY
7th February 2022
SARLIYA BENNY

the day of Mathematical constant e on 7th February every year.

What is "e"? (Euler's Number)

$e = 2.71828182845$ (and more...)
 • e is an irrational number and cannot be written as a simple fraction that is it has a decimal expansion that will continue forever without repetition.
 • (An irrational number is a real number that cannot be written as a simple fraction.)
 • No doubt e (Euler's Number) is the second most famous mathematical constant after π .

Now let us see the history of e number? Where did it come from?

In the 17th Century, Euler's Number was first discovered by Jacob Bernoulli when he studied the problem of Compound Interest.
 He tried to calculate the interest as $(1 + \frac{1}{n})^n$ where n tends towards infinity.
 This is one way of calculating e .

At that time Jacob Bernoulli did not have a computer and only told that the value of e lies between 2 and 3.
 After some years, Leonhard Euler managed to calculate the value of e correct up to 18 decimal places.
 He discovered:
 $e = 1 + \frac{1}{1} + \frac{1}{2} + \frac{1}{6} + \frac{1}{24} + \frac{1}{120} + \dots$
 (where, $2!$ means 2×1 , $3! = 3 \times 2 \times 1$, and is the factorial function.)
 It is said that the more you calculate, more close value of e you will get.

Why is e- Day celebrated on 7th February?

• No one is sure who invented e - Day.
 • Mostly, it is said that might be it was invented the same as π .

The number e is one of the most important numbers in mathematics. Like Pi Day, e day is also celebrated. It is also known as Euler's number after Leonhard Euler.

Leonhard Euler

Jacob Bernoulli

In the real world,

power point presentation was done by Ms. Sanjiya Benny. She detailed the constant number e, it's history, applications and significance.

Quiz programme



Later a Quiz conducted by Ms.Jisna Augustine and Ms.Haritha P V related to the Birthday of G H Hardy. Students participated as groups of two. The team including Ms.Manjusha N and Ms.Jwala Maria Cyriac won the first position. Ms.Manjusha N delivered vote of thanks.

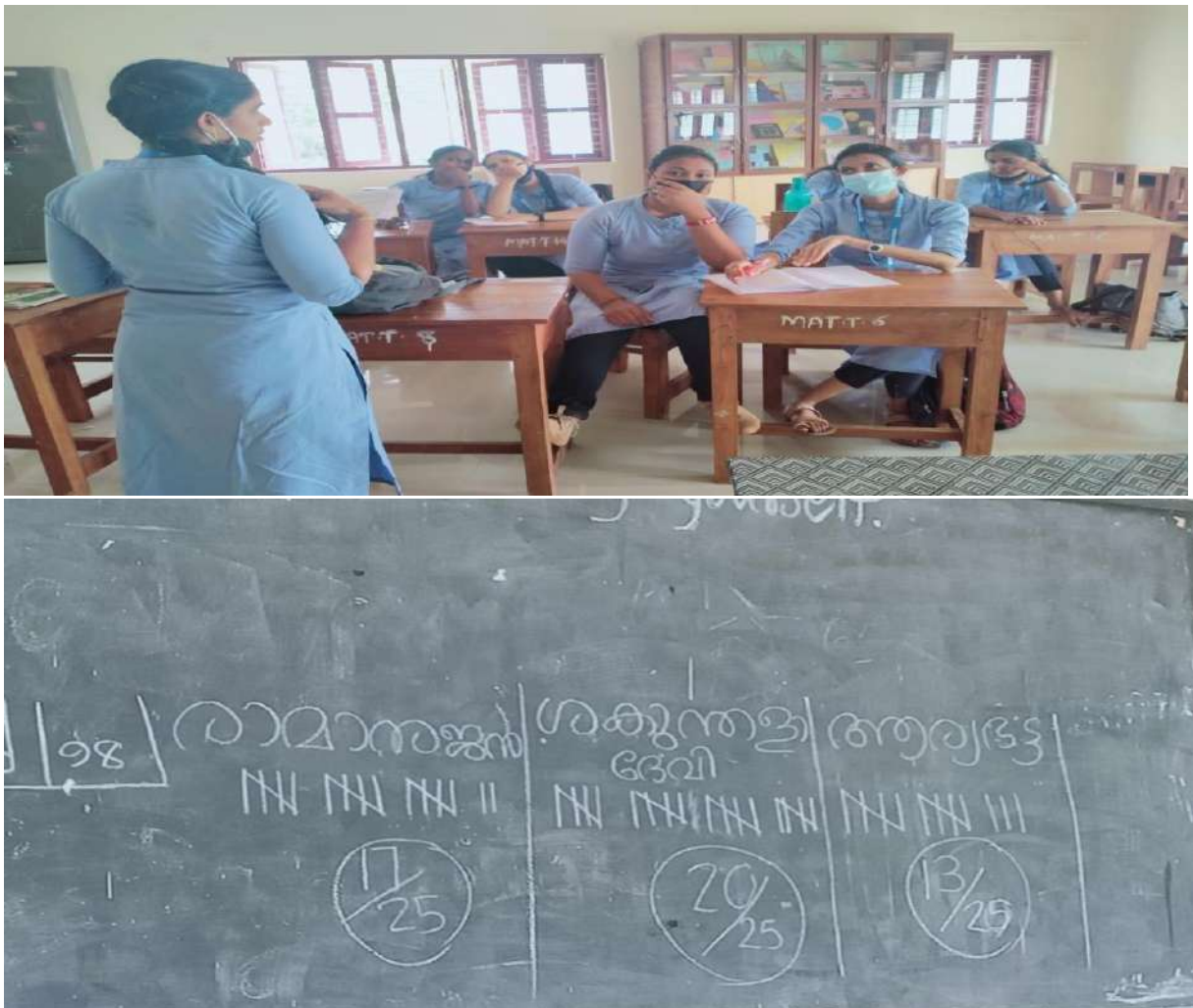
Analysis



Prof.Dr.Sholy Joseph K and Ms.Sneha V gave feedback to the programme and they congratulated all who worked behind the programme and appreciated the effort put in coordinating the event.

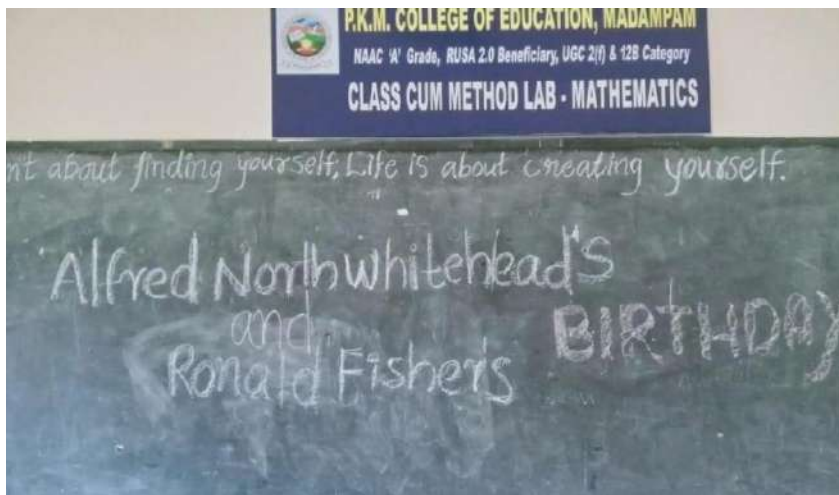
19. Daniel Bernoulli's Birthday: Quiz Competition

Mathematics optional of P.K.M College of Education Madampam celebrated Daniel Bernoulli's Birthday on 9th February 2022 by conducting a quiz competition. The quiz competition was begun at 2:30 pm in the mathematics class cum method lab. Manjusha N, Jwala Mariya Cyriac were the quiz masters. The group Shakuntala Devi (Jisna Augustine, Haritha P.V) won the first prize, group Ramanujan (Sneha V, Sanjiya Benny) won the second prize and group Aryabhata (Akhila James, Joyamol T Baby) won the third prize.



20. Alfred North Whitehead's Birthday and Ronald Fisher's Birthday: Quiz Competition

Mathematics optional of P.K.M College of Education , Madampam celebrated birthday of Alfred North Whitehead and Ronald Fisher on 24th February 2022 by conducting a quiz competition .The quiz competition was begin at 2:30 pm in the mathematics class cum method lab. Sneha v and Sanjiya Benny were the quiz masters. The group 1 (Akhila James, Haritha P.V, Manjusha N) won the first prize and group 2 (jwala Mariya Cyriac, Joyamol T Baby, Jisna Augstine) won the second prize .



21. Magazine Releasing Ceremony

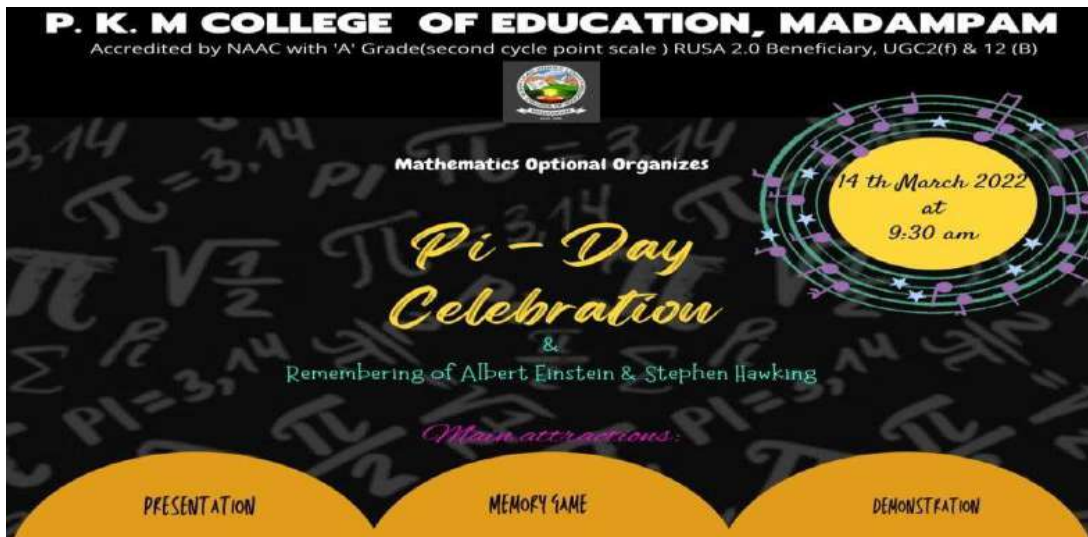
16-02-2022

The meeting was held at PKM college Auditorium on 2022 February 16 at 9:30 a.m. Sanjiya Benny welcomed the gathering. Then Haritha PV, the editor of the magazine, explained about the formation and content of the magazine. Principal Sr. Dr. Jessy N C handed over the magazine 'SIGMA' to Dr. sholly Joseph,

the section head of Mathematics optional, and published it. Later Principal appreciated the effort of the students. At the end the programme concluded with the felicitation of Sneha V.



22.Pi day Celebration



Planning

Dr. Sholy Joseph K, the assistant professor, mathematics optional, PKM College of Education Madampam initiated the planning of Pi day celebrations on 22nd February 2022. Akhila James was selected as the coordinator of this programme. It was decided to conduct a treasure hunt. It was decided to start a new project for helping student teachers in competitive exams. A presentation on Pi and a memory game were planned.

Treasure hunt

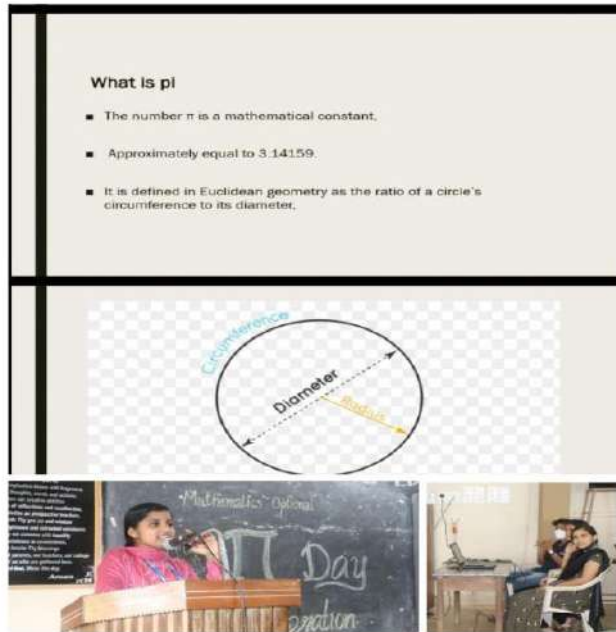
Mathematics Optional conducted a treasure hunt as part of pi day on 11 March 2022 at 1.00 pm at P K M college of education. From the optionals English, Malayalam, Natural science, Physical science and Social science there were ten participants. Finally physical science optional won the game and the game was ended at 1.30 pm.

Execution

Pi Day was observed by Mathematics Department on 22nd December 2021, in the general hall of PKM college of Education, Madampam at 2.30. The programme coordinator Akhila James delivered the welcome speech.



Presentation



PowerPoint presentation was done by Ms.Joyamol T Baby. It include what is Pi, history of Pi and importance of Pi.

Memory game



The student teachers of mathematics optional, Manjusha N and Sneha V conducted a memory game in accordance with Pi Day. There were total five participants each from each optional. Also, the Coordinators gave an opportunity to the audience for participating in the game. The game was to memorize the value of Pi till the maximum decimals. Sharanya L from the audience won the game.

Demonstration

Mathematics optional gave a demonstration of their new initiative “Competitive maths”. The demonstration was in the leadership of Jwala Mariya Cyriac and Jisna Augustine. The demonstration included four questions.



Remembering of Albert Einstein & Stephen Hawking

We conducted a video presentation to remember Albert Einstein and Stephen Hawking.

Ms. Haritha PV delivered the vote of thanks to this function



Evaluation

Mr Prasanth Mathew, the vice principal evaluated the programme. He commented that everybody enjoyed this programme. He congratulated everyone who were behind this programme.

23. Matricks-Tricks For Mathematics

PKM College of Education, Madampam

MATRICKS

TRICKS FOR MATHEMATICS

SPECIAL FEATURES

- WITH IN SECONDS
- ONE DAY ONE QUESTION
- SHORTCUT METHODS
- COMPLETELY FREE

Each day we will send you one question through what's app , after 24 hours you will get the correct answer.

MATHEMATICS DEPARTMENT

&

MATH LOVERS CLUB

We have started an online platform for tricky mathematics. It will help you to increase your numerical ability and aid you in various competency exams.

“

- SSC Level
- PSC Level
- SET Level
- K TET Level
- C TET Level

The online program "MATRICKS -Tricks for Maths" was launched on March 14, 2022, under the leadership of the Mathematics Students and Mathematics Club, to help children find easy answers to mathematical questions in competitive exams and to develop an interest in mathematics. , Jwala Mariya Cyriac, Manjusha, Sanjiya Benny, Sneha, Haritha, Akhila James and Joyamol T Baby posted the question in the WhatsApp group on 14th, 15th, 16th, 17th, 18th, 19th, 20th and 21st in the order of one question a day and its easy answer. It should be continued in the coming day

24. Sakuntala Devi-film

'Shakuntala Devi 'Film Festival was organized by Math lovers club on 25th march 2022 at 1.30 pm in general hall of PKM College of Education. Dr. Sholly Joseph delivered the presidential address to this programme. Math lovers club member Vishnuprathap.M was the coordinator. Everyone enjoyed the film. The programme was ended at 3.30 pm.



Evaluation

The planned programmes were executed in this year through online and offline modes.

MATHEMATICS OPTIONAL GROUP PHOTO

