



KKTM GOVERNMENT COLLEGE

PULLUT, KODUNGALLUR, THRISSUR-680663, KERALA, INDIA

(Affiliated to the University of Calicut & Re- accredited by NAAC with 'A' Grade (3.10 CGPA))

Website: <https://govtkktmcollege.ac.in> Email: kktmcollege.dce@kerala.gov.in Phone: +91 480 2802213

POST GRADUATE DEPARTMENT OF MATHEMATICS

ANNUAL REPORT

ACADEMIC YEAR 2023-24

The department of Mathematics conducted the following activities during the academic year 2023-24.

1. Pi approximation day
2. Two Day National Seminar on Linear Algebra and Its Applications on 2,3 November 2023 sponsored by DCE, Thiruvananthapuram
3. Mathematics Association Day
4. HSSTP Reunion
5. Pi day

Pi Approximation Day Celebration

Pi approximation day is observed every year on July 22 all around the world. The fraction $22/7$ is an approximate value of Pi, and there behind lays a specific reason why this day is observed on July 22.

In connection with Pi approximation day, Postgraduate Department of Mathematics, K.K.T.M Government College organised a seminar on the topic "What is Pi" on 25-07-2023.

Inaugural function started with the prayer by Ms. Aswathi Ramesh, Second semester MSc Mathematics, at 11.00 am in the audio visual room.

Dr.Resmi T, Associate Professor, Department of Mathematics welcomed the gathering. The programme was inaugurated by Dr. Shaji E.M, Principal, K.K.T.M Government College. Dr. Sujathan P.K, IQAC Co-ordinator felicitated the function. Dr. Sabna K.S, Assistant Professor, Department of Mathematics proposed the vote of thanks. The inaugural ceremony concluded at 11.30 am.

After the inaugural ceremony, our technical session started at 11.30 am itself. Mr. Murali T.K, Assistant Professor, Department of Mathematics introduced the resource person Dr. Rahul Rajan to the gathering. Dr. Rahul Rajan, Assistant Professor, Department of Mathematics, St.Aloysius College, Elthuruth delivered a talk on the topic “What is Pi”. He discussed the significance of celebrating Pi Approximation Day. Students found his talk to be quite insightful and interesting. The session concluded at 1.00 pm. A motion to appreciate the resource person was made by Ms. Sahla P.K, a second-semester M.Sc. mathematics student.

About 60 participants including teachers and students attended the programme. The students have the chance to interact with the resource person so they may become familiar with current developments in mathematics. The entire programme was very informative to our students and was a great success.





TWO DAY NATIONAL SEMINAR ON LINEAR ALGEBRA AND ITS APPLICATIONS (NSLAA 2023)

Organized by

**POST GRADUATE DEPARTMENT OF MATHEMATICS
in association with IQAC on 2-3 November 2023
PROGRAMME REPORT**

- Date: 2-3 November 2023
- Venue: Seminar Hall, Muziris Convention Centre
- Inaugural Function was conducted at 10.00am- 10.45 am on 2nd November 2023

Programme was inaugurated by Dr. Praveen I., Asst. Professor, Department of Mathematics, Amrita Vishwa Vidyapeetham, Coimbatore. Principal Dr. Bindu Sharmila T.K. presided over the function. Dr. Resmi T., Associate Professor in Mathematics delivered words of welcome and Dr. Lovely George, IQAC coordinator offered felicitations. Mr. Murali T.K., Asst. Professor in Mathematics and Seminar coordinator concluded the session with vote of thanks.

- First technical session was handled Dr. Praveen I. on 'Linear Algebra and Cyber Security from 11.00am to 12.30 pm followed by other technical sessions as per the brochure. Paper presentation was conducted in II year B.Sc. Class room on 3rd November simultaneously.
- On 3rd November programme was concluded by the valedictory function. Mr. Balaji M.N. delivered welcome speech. Participants gave oral and

written feedback. Participation Certificate were distributed. Seminar Coordinator Murali T.K. delivered vote of thanks.

- Two Day Seminar was successfully completed with Valedictory function by 3.30pm on 3rd November 2023.
- 43 participants are there including teachers and students

Brochure

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**TWO DAY NATIONAL SEMINAR
ON
LINEAR ALGEBRA AND
ITS APPLICATIONS
(NSLAA-2023)**
2nd & 3rd November 2023

Organized by
**Post Graduate Department of
Mathematics in association with
IQAC, KKTM Govt. College, Pullut**

Sponsored by
**Directorate of Collegiate Education,
Govt. of Kerala**

Venue:
**Seminar Hall,
Muziris International Convention Center,
KKTM Govt. College, Pullut**

Respected Sir/Madam,
The Post Graduate Department of Mathematics,
KKTM Govt. College, Pullut is organizing a Two- Day
National Seminar on 'Linear Algebra and its
Applications' on 2nd and 3rd November 2023. We
cordially invite your faculty members, research
scholars and PG students of your esteemed
institution to participate in this Seminar.

Principal Head of the Department

Organizing Committee
Dr. Bindu Sharmila T. K. Principal
Dr. Lakshmy V.P. HoD
Dr. Resmi T.
Dr. Sabna K.S.
Mr. Murali T.K.
Ms. Megha P.M.
Mr. Balaji M.N.
Dr. Deepthi A.N.
Ms. Vidyalakshmi P.V.

For more details:
Mr. Murali T. K.
Coordinator
Mob: 9447719414
Email: tkmurali@govtkkmtcollege.ac.in

For registration: [Click here](#)
or Scan QR Code



About the College:
Kodungallur Kunhikuttan Thampuran Memorial
Government College, situated at Pullut, near
Kodungallur is named after the great scholar-poet
Kunhikuttan Thampuran who came to be called
'The Kerala Vyasa' for his brilliant rendering of the
great epic, 'The Mahabharatha' into the
vernacular.

About the Department:
The Post Graduate Department of Mathematics
was established in the year 1965. The Degree
Course in Mathematics was started in the year
1981 and the Post Graduate Programme was
started in 2012.

About the Seminar:
The seminar's goals are to give participants a
basic understanding of some key concepts of
Linear Algebra and how they are used in other
fields of mathematics and other disciplines.

Call for Abstract:
Those who are interested in paper
presentation may send their abstract by post
or email to the coordinator on or before
27.10.2023



Schedule of the Programme

02.11.2023 (Thursday)

9.30am-10.00am Registration

10.00am-10.45 am Inauguration

10.45am-11.00am Tea Break

11.00am-12.30pm : Session 1



Speaker: Dr. Arvind Ayyer,
Associate Professor,
Department of Mathematics,
IISc Bangalore

Topic: Linear Algebra to the Rescue of Combinatorics

12.30pm -1.15 pm: Lunch Break

1.15pm – 2.45pm : Session 2



Speaker: Dr.Sarath Gopi
Scientist-F
NPOL, DRDO

Topic: Linear Algebra in Singal Processing and Communication

2.45pm-3.00pm: Tea Break

3.00pm- 4.30pm : Session 3



Speaker: Dr. R.K. Sunil Kumar
Assistant Professor,
Department of Information Technology,
Kannur University

Topic: Advances in Harmonic Analysis and Applications

03.11.2023 (Friday)

9.45am-11.15am : Session 4



Speaker: Prof. (Dr.) Indulal G.,
Principal,
St. Aloysius College,
Edathua, Alappuzha

Topic: Linear Algebra in Graph Theory

11.15am-11.30 am: Tea Break

11.30am-1.00pm: Session 5



Speaker: Dr. Deepak T.G.,
Professor,
Department of Mathematics,
IIST, Thiruvananthapuram

Topic: Markov Chain and its Matrix Representation

1.00pm-1.45pm : Lunch Break

1.45pm-2.30pm: Paper Presentations

2.30pm-4.00pm: Session 6



Speaker: Dr. Praveen I.,
Assistant Professor(SG),
Department of Mathematics,
Amrita Vishwa Vidyapeetham,
Coimbatore

Topic: Linear Algebra and Cyber Security

4.00pm -4.30pm: Valedictory Function

Newspaper Report

കെ.കെ.ടി.എം. ഗവ.കോളജിൽ ഗണിത ശാസ്ത്ര ദ്വിദിന ദേശീയ സെമിനാർ

പുല്ലൂറ്റ്: കെ.കെ.ടി.എം. ഗവ.കോളജിൽ ഗണിത ശാസ്ത്ര ദ്വിദിന ദേശീയ സെമിനാർ ഉദ്ഘാടനം ചെയ്തു. മുസിരിസ് അന്തർദ്ദേശീയ കൺവൻഷൻ സെന്ററിൽ കോളേജ് വിദ്യാഭ്യാസ വകുപ്പിന്റെ സാമ്പത്തിക സഹായത്തോടെ 'ലിനിയർ ആൾജിബ്ര ആന്റ് അപ്ലിക്കേഷൻസ്' എന്ന വിഷയത്തിൽ നടത്തുന്ന ഈ സെമിനാറിന്റെ ഉദ്ഘാടനം കൊയമ്പത്തൂർ അമൃത വിശ്വവിദ്യാപീഠം ഗണിതശാസ്ത്ര വിഭാഗം അസി.പ്രൊഫസർ ഡോ. കെ. പ്രവീൺ നിർവ്വഹിച്ചു. കോളേജ് പ്രിൻസിപ്പാൾ ഡോ. ബിനു ശർമ്മിള കിരക, അദ്ധ്യക്ഷത വഹിച്ചു.

കോളേജ് ഗണിതശാസ്ത്ര വിഭാഗം അസോ. പ്രൊഫസർ ഡോ. രശ്മി ടി. സ്വാഗതം ആശംസിച്ച ചടങ്ങിൽ, ഗണിത ശാസ്ത്ര വിഭാഗം മേധാവി ഡോ. ലക്ഷ്മി വി.പി., കോളേജ് ഐ.ക്യു.എ.സി. കോർഡിനേറ്റർ ഡോ. ലാലി ജോർജ്ജ് എന്നിവർ ആശംസകൾ അറിയിച്ചു.



കെ.കെ.ടി.എം. ഗവ.കോളജിൽ ഗണിത ശാസ്ത്ര ദ്വിദിന ദേശീയ സെമിനാർ കൊയമ്പത്തൂർ അമൃത വിശ്വവിദ്യാപീഠം ഗണിതശാസ്ത്ര വിഭാഗം അസി.പ്രൊഫസർ ഡോ. കെ. പ്രവീൺ ഉദ്ഘാടനം ചെയ്യുന്നു

സെമിനാർ കോർഡിനേറ്റർ ഗണിത ശാസ്ത്ര വിഭാഗം അസി. പ്രൊഫസർ മുരളി കിരക, ചടങ്ങിൽ അദ്ധ്യക്ഷതയ്ക്കായി നന്ദി രേഖപ്പെടുത്തി.

എൻ.പി.കെ.എൽ സയന്റിസ്റ്റ് ഡോ. ശരത് ഗോപി, എടത്യാ സെന്റർ അലോഷ്യസ് കോളേജ് പ്രിൻസിപ്പാൾ പ്രൊഫ. (ഡോ.) ജി.ഇ.എസ്.എൽ, കണ്ണൂർ സർവ്വകലാശാലാ ഇൻഫർമേഷൻ ടെക്നോളജി വിഭാഗം അസി. പ്രൊഫസർ ഡോ. സുനിൽ കുമാർ ആർ.കെ., തിരുവനന്തപുരം ഐ.ക്യു.എ. സി. ഗണിതശാസ്ത്ര വിഭാഗം പ്രൊഫസർ ഡോ. ദീപക് ടി.ജി. എന്നിവർ രണ്ട് ദിവസങ്ങളിലായി പ്രഭാഷണങ്ങൾ നടത്തും.

നീക്കംകൊള്ളാൻ വിചാരിച്ച അന്ധൻ പ്രൊഫ. ബാലാ. അശ്വതിയെ നഗ്നനായി കയ്യിൽ കെട്ടിപ്പിടിച്ചുവെക്കുകയും ചെയ്തു. പ്രൊഫ. ഗണേശൻകൊടുത്ത വിചാരിച്ച പ്രൊഫ. ബാലാ. മിനി മിഷൻ ഫ്ലാറ്റിൽ പ്രൊഫ.ബാലാജി അമ്മയ്ക്ക്.



Thrissur, Kerala, India
6806+092, Thrissur, Kerala 680663, India
Lat 10.239941°
Long 76.211182°
02/11/23 02:08 PM GMT +05:30

GPS Map Camera

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Feedback Samples

National Seminar on Linear Algebra and Applications
2023 November 2 & 3
Feedback

For each of the following areas, please indicate your reaction: Put a tick mark

Sl No	Item	Excellent	Good	Needs Improvement
1	Selection of the resource persons	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Relevance of the topic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Organization of the seminar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	class by Dr. Praveen I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	class by Dr. Sarath Gopi	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Class by Dr. Sunilkumar K N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Class by Dr. Indulal G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Class by Dr. Deepak T.G.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Food & Refreshments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Overall rating of the seminar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Suggestions for improvement: *Please conduct more seminars on applications to*

Any other Remarks:

Mathematics Association Day

Mathematics Association for the academic year 2023-24 was inaugurated on 13-12-2023. Inaugural function started with the prayer at 11.00 am at College auditorium. Dr. Sabna K S, Assistant Professor, Department of Mathematics welcomed the gathering. Dr. Bindhu Sharmila T K, Principal, K.K.T.M Government College presided over the function. Mathematics association was inaugurated by Lt. Dr. Jaison Jacob, Head & Assistant Professor, Department of Mathematics, St. Aloysius College, Elthuruth, Thrissur. Dr. Lovely George, IQAC Co-ordinator and Ms. Arya Damodharan, Assistant Professor of Statistics were felicitated the function. Mohammed Shahin, Association Secretary, IV Semester, B.Sc. Mathematics proposed the vote of thanks. The inaugural ceremony concluded at 11.30 pm.

After the inaugural ceremony, our technical session started at 11.30 am itself. Lt.Dr. Jaison Jacob, Assistant Professor, Department of Mathematics, St.Aloysius College, Eithuruth delivered a talk on the topic “Formulae of Life by Mathematics Maestros”. He discussed about the life and contributions of many mathematicians. His talk was really motivating and interesting. The session concluded at 1.00 pm. A feedback about the talk was given by Ms. Snehalakshmi K G, a second-semester M.Sc. Mathematics student.

About 55 participants including teachers and students attended the programme. The students have the chance to interact with the resource person so they may become familiar with current job and higher education opportunities in mathematics. Students learned a lot from the entire program, which was a huge success.



HSSTP –Reunion

The first reunion of HSSTTP 2022 was held at KKTm Government College Pullut on February 10, 2024. The programme was jointly organized by the Department of Mathematics and HSSTTP participants. Around 35 participants participated in this program. The get-together was organized to celebrate the retirement of three teachers from the group. Mementos were given to retired ones as a token of love. Everyone shared their experience after their HSSTTP Programme. The programme led to memories of those days among the participants. A variety of programmes were arranged as part of it. Following the program, a lunch was provided. After lunch, everyone departed with the expectation of a future meeting.





Pi- Day Celebration

Pi day is celebrated every year on March 14th all around the world. The approximate value of Pi is 3.14, and there behind lays a specific reason why this day is observed on March 14th.

In connection with Pi day, Postgraduate Department of Mathematics, K.K.T.M Government College organised various programs for students on 14-03-2024.

Inaugural function started with the prayer by Ms.Aswathi Ramesh, Second semester MSc Mathematics, at 11.30 am in front of the main block. Dr. Deepthi A N, Assistant Professor, Department of Mathematics welcomed the gathering. Dr. Resmi T, Associate Professor, Department of Mathematics presided over the function. The programme was inaugurated by Dr. Bindhu Sharmila T K, Principal, K.K.T.M Government College. Dr. Lovely George, IQAC Co-ordinator and Anamika A, College Union Vice Chairperson were felicitated the function. Snehalakshmi K G, II M.Sc. Mathematics delivered a talk on the

importance of Pi-Day. Aadhisha Baburajan, IV Semester, B.Sc.Mathematics proposed the vote of thanks. The inaugural ceremony concluded at 12.30 pm.

After the inaugural ceremony, various competitions and an exhibition was organised for the students in our college.

1. Treasure Hunting

A treasure hunting competition was arranged. Students were very enthusiastically participated in it. The Treasure Hunting Winners are (BTTM 3rd year students).

1. Akshay
2. Arjun
3. Sai
4. Adarsh
5. Albin

Cash prize given to them at the end of the program.

2. Quiz Competition

A quiz competition was arranged for the students. 22 students were participated in it. Quiz competition winners are

First: Anupa (2nd M.Sc Mathematics)

Second: Akshaya (2nd M.Sc Mathematics)

3. Exhibition

An exhibition is also arranged in connection with Pi-Day. The following were the main themes of the exhibition.

- * Applications of pi in real life
- * About some famous mathematicians
- * Re introducing Pi
- * Geometric string art

- * Geometric charts
- * Geometric paper arts
- * Pi in different languages.
- * Magic square chart
- * Love formula Graph
- * Math dance chart
- * Tangram
- * Display of Pi
- * Geometric tree

4. Games

Games were also arranged to increase interest in Mathematics among students. The following are some of them.

- * Most accurate pi value prediction
- * Pi digits arrangement
- * Geometric shapes arrangement
- * Find the missing number
- * Puzzles
- * Move 1 stick
- * Finding squares

Pi day Selfie Point, Ice cream and refreshments stall were also arranged. About 90 participants including teachers and students attended the programme. The entire programme was very informative to our students and was a great success. The programs were ended at 4pm.



