

MASA Newsletter

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The Postgraduate
Department
of Mathematics



**ST. ALOYSIUS
COLLEGE
EDATHUA**

Principal's Message



Dear Students and esteemed Faculty members,

It gives me immense pleasure to address you on the occasion of the release of the Mathematics Newsletter, MASA, for the academic year 2023-24. I extend my heartfelt congratulations to the Department of Mathematics, under the capable leadership of Smt. Deena C Scaria, for the guidance and motivation she imparts to both faculty and students alike. This newsletter serves as a testament to the myriad activities undertaken by the department throughout the year.

The department's vibrant engagement in Rainbow Programs, the celebration of various days of mathematical significance, extension programs, colloquiums, quizzes, and career guidance sessions are all beautifully encapsulated in this newsletter. These initiatives not only enrich our academic environment but also foster a culture of learning and curiosity among our students.

However, we are also united in profound sorrow as we remember the late Prof. K I Abdul Lathif, the founding Head of the Department and the soul and life of the Department of Mathematics. His 33 years of dedicated service to this institution embodied nobility and humility, qualities that stood high above his academic excellence. Prof. Abdul Lathif, along with other devoted teachers, nurtured this institution during its formative years. His legacy will undoubtedly continue to inspire and guide the department.

As we approach the Diamond Jubilee year of our institution, there is an air of excitement and anticipation. I encourage the Department of Mathematics to participate actively in the forthcoming celebrations with renewed enthusiasm. Let us strive to make our department and institution more vibrant, both academically and in extracurricular pursuits.

Wishing you all a successful and inspiring year ahead.

Prof Dr. Indulal G

Principal, St. Aloysius College, Edathua

Message from HOD



Celebrating 45 years of mathematical excellence, we mark a major milestone in our department's journey. We proudly present the latest edition of MASA, a testament to our department's enduring legacy. Through the unwavering passion and expertise of our faculty, we've created a vibrant community that inspires students to explore, question, and shape the world around them. This publication is a tribute to the collaborative spirit and dedication that defines us. Here's to many more years of mathematical innovation and excellence!

Best regards,
Deena C Scaria



In this latest volume of MASA, we are excited to highlight the outstanding achievements and progress made by our dedicated faculty and passionate students. The academic year 2023-2024 has been marked by innovation and excellence, and this publication aims to capture the remarkable journey we have embarked upon.

This edition of MASA stands as a testament to the collaborative spirit that is deeply ingrained in our department, creating an environment where the pursuit of knowledge and the spirit of discovery thrive. It is an honour to share our accomplishments with you, and we extend our heartfelt thanks to everyone who has played a part in making this academic year a tremendous success.

As you explore the following pages, we invite you to celebrate the extraordinary journey of our department and our collective commitment to excellence. Thank you for being a part of our academic community, and we look forward to your continued support and involvement in the years to come.

Deena C Scaria

A Tribute to Prof. K. I. Abdul Lathif: The Soul of St. Aloysius College's Department of Mathematics



With heavy hearts and profound sadness, we bid farewell to Prof. K. I. Abdul Lathif, a luminary whose presence breathed life into the Department of Mathematics at St. Aloysius College, Edathua. Since his arrival in 1965, Professor Abdul Lathif nurtured the department with incomparable dedication, shaping it from its nascent stages into an illuminant of academic excellence. His journey spanned 33 remarkable years, during which his humility and simplicity left an indelible mark on the institution and its community.

A man of unparalleled modesty, Prof. Abdul Lathif's academic prowess was matched only by his gentle spirit. He possessed a rare combination of intellect and kindness, which endeared him to students and colleagues alike. His approachability and graciousness created an atmosphere of unity and brotherhoods, making the department not just a place of learning, but a second home for many. It was under his guidance that the department evolved, becoming a UG department in 1985 and a PG department in 1994, milestones that stand as a testament to his vision and perseverance.

Prof. Abdul Lathif's influence extended far beyond the classroom. He was a cornerstone of the college community, contributing to its growth and development with quiet strength and determination. His retirement in 1998 marked the end of an era, yet the legacy he left behind continues to inspire those who follow in his footsteps. The values he embodied and the path he set forth are now guiding lights for future generations, reminding us of the power of dedication and humility.

As we reflect on his life, we find solace in the countless lives he touched and the knowledge that his spirit lives on in the hearts of all who knew him. Though he has journeyed to the great beyond, from which no traveler returns, the memory of Prof. K. I. Abdul Lathif remains a cherished treasure, forever a part of the fabric of St. Aloysius College. His pleasant demeanor and invaluable commitment to education forged a sense of unity among the Aloysian family, a bond that will endure as a testament to his enduring influence.

A Fond Farewell to Sri. Jogy Joseph and Dr. Mary George: Honouring Pillars of Dedication and Leadership

The Department of Mathematics bids a heartfelt farewell to Sri. Jogy Joseph, who has been a pivotal figure in our academic community. Since joining our department as a faculty member in 1996, Sri. Jogy



Joseph has consistently shown his dedication to excellence in education and leadership. Over the years, he has taken on various roles, including NSS Programme Officer and Bhoomithra Sena Coordinator. In June 2022, his exemplary service and commitment were recognized with his appointment as Principal-in-Charge of the College. His impactful tenure as Vice Principal has already made a significant difference, and his new role also continued to benefit the entire college community. His leadership, vision, and compassion have inspired many students and colleagues, making him a cherished part of our history.



Dr. Mary George, who joined our department in 2008, has been a source of knowledge and guidance. Before joining us, she served as an Assistant Professor at St. Theresa's College, Ernakulam, for 12 years. Dr. Mary George earned her Ph.D. from Kerala University in 2008. As the Head of the

Department, she has guided the Mathematics Department with a blend of scholarly rigor and empathetic leadership. Her responsibilities have extended beyond the classroom, as she also served as the Senior Assistant Superintendent of University Examinations, where her organizational skills and dedication ensured the smooth conduct of exams. Dr. Mary George's commitment to academic excellence and her supportive approach have greatly influenced both students and colleagues.

Both Sri. Jogy Joseph and Dr. Mary George have made lasting contributions to our department and college. Their leadership, passion for education, and significant service will continue to inspire us all as we move forward. We wish them the very best in their future endeavors and thank them for their invaluable contributions.

Mathematics Association

The Mathematics Association office bearers for the academic year 2023-2024 are as follows:

Dr. Jubin Antony, Association President

Ms. Krishnapriya K, Association Secretary, 3rd BSc

Mr. Anandhu S, Treasurer, 3rd BSc

Mathematics Association Inauguration

The Mathematics Association for the academic year 2023-24 was officially inaugurated on October 11, 2023. The event featured Mr. Ligin P Mathew, an Assistant Professor from the Department of Mathematics at St. Thomas College, Kozhencherry, as the chief guest. The meeting was presided over by the association president, Dr. Jubin Antony. Speeches were delivered by Prof. Dr. Indulal G, the Principal, and Dr. Mary George, the Head of the Department. Ms. Krishnapriya K, the association secretary, extended a warm welcome to all attendees, and the vote of thanks was given by Mr. Anandhu S, the association treasurer.



Seminar

On October 11, 2023, the Mathematics Association hosted a seminar titled "Some Digital Tools - Unlocking Productivity and Creativity." The featured speaker was Mr. Ligin P Mathew, Assistant Professor in the Department of Mathematics at St. Thomas College, Kozhencherry. The seminar attracted a diverse audience of students from both undergraduate and postgraduate programs in the department.



Freshers' Day

The Mathematics Association held an unforgettable welcome event and Freshers' Day on October 11, 2023, to warmly greet the new undergraduate and postgraduate students. The seniors entertained their juniors with a delightful combination of fun activities and delicious food.



Release of Newsletter 2023

On November 23, 2023, the Department of Mathematics proudly unveiled its newsletter for the academic year 2022-23. The Principal, Prof. Dr. Indulal G presented the inaugural copy to Deena C Scaria, the editor of MASA. This newsletter, filled with insightful articles, department highlights, and student achievements, stands as a testament to the dedication and creativity of the department's members.



Release of E - Newsletter 2023

On March 14, 2024, the postgraduate students of the Department of Mathematics at St. Aloysius College, Edathua, proudly unveiled the inaugural edition of their E-newsletter, "E-Ganitham" Volume 1. The release event, marked by enthusiasm and scholarly fervor, featured the participation of esteemed faculty members and dedicated students. Dr. Indulal G., Principal of St. Aloysius College, commended the students' initiative and encouraged them to maintain high academic

standards. "E-Ganitham" Volume 1 showcased contributions from renowned mathematics scholars. Guided by Staff Advisor Deena C Scaria and diligently edited by Swathi Suresh, a first-year M.Sc. Mathematics student, the newsletter served as a platform to disseminate knowledge and share research findings.

Department Manuscript Magazine

On March 12, 2024, the Department of Mathematics at St. Aloysius College, Edathua, proudly unveiled its annual manuscript magazine, "Dimentions." Led by student editor Ms. Anjali S. and supported by a talented editorial team, including sub-editors Ms. Niranjana Saji, Ms. Gayathri Devi S., and Ms. Soubhagya P S., with Ms. Deena C Scaria serving as the staff editor, the magazine showcased a diverse array of student contributions such as articles, drawings, puzzles, and intriguing mathematical facts. This publication not only highlighted the students' creativity and intellectual prowess but also their passion for mathematics. Officially released by Prof. Dr. Indulal G., Principal of St. Aloysius College, the magazine reflects the college's dedication to promoting academic initiatives and recognizing student achievements.



Irene Mary Mathew Memorial Mathematics Quiz Competition

On January 25, 2024, the Department of Mathematics at St. Aloysius College, Edathua, hosted the Kum. Irene Mary Mathew Memorial Mathematics Quiz Competition, honouring the late Kum. Irene Mary Mathew. Aimed at fostering intellectual curiosity and a competitive spirit, the event saw 32 enthusiastic participants from 13 schools. Prof. Dr. Indulal G., Principal of St. Aloysius College, inaugurated the event, while Dr. Mary George, Head of the Mathematics Department, welcomed participants, emphasizing the importance of such



certificates by Smt. Kochu Thresiamma Joseph, celebrating the students' achievements and motivating them to excel academically.

Mathematics Alumni Association Meeting - FOMSA

The Alumni Meet of the Department of Mathematics at St. Aloysius College, Edathua, held on February 10, 2024, at Fr. Punnappadam Hall, was a memorable gathering of over 65 former students, esteemed teachers, and current faculty. The event celebrated academic achievements, with notable alumni Arya Chandran and Vidya M Nair being felicitated for their Ph.D. and B.Ed. first rank, respectively. Former teachers Smt. Rosamma Thomas, Sri K.U. Zacharia, and Smt. Kochu Thressiamma Joseph added a nostalgic touch. Alumni shared



fond memories and discussed the impact of their education, while plans were set for the next meeting in February 2025. New office bearers were elected, including Sri. George Philip as President, ensuring continued alumni engagement. Principal Prof. Dr. Indulal G. inaugurated the event, emphasizing the importance of alumni involvement. The retiring teachers, Sri. Joggy Joseph and Dr. Mary George, were honoured for their service. The meet was a resounding success, reaffirming the strong bonds fostered by the institution.

Mathematics Association Valedictory



The Mathematics Department at St. Aloysius College, Edathua, held its Mathematics Association Valedictory Function on March 12, 2024, celebrating the achievements and contributions of students and faculty. Mr. Jubin Antony warmly welcomed attendees, creating an inviting atmosphere. Dr. Jubin Antony, the Association President, presented a detailed report highlighting the department's activities and accomplishments throughout the 2023-24 academic year, showcasing its commitment to academic excellence. Principal Prof. Dr. Indulal G. delivered an inspiring keynote address, encouraging perseverance and dedication. Dr. Mary George, Head of the Department, extended felicitations to meritorious students, who were honoured with mementos for their outstanding academic achievements. The event was a momentous occasion of recognition and appreciation, emphasizing the importance of striving for excellence.

Farewell to the Retiring Teachers and the Final year students

On March 12, 2024, a heartfelt farewell ceremony was held for Sri Jogy Joseph, Vice Principal, Dr. Mary George, Head of the department, and the departing final year undergraduate and postgraduate students of the department. Prof. Dr. Indulal G delivered an inspiring address to the gathering. The graduating students shared fond memories of their time on campus during the event. The ceremony concluded with a convivial high tea, where faculty members extended their warmest wishes to the students for success in their upcoming university examinations and future pursuits.



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Extension Programmes

Edutainment Programme

On July 19, 2023, the Department of Mathematics at St. Aloysius College, Edathua, hosted an inspiring edutainment programme led by Sri Sreeraj Parackal, the Training and Placement Officer at St. Thomas College of Engineering and Technology, Changanoor. This event, designed specifically for first-year UG students, explored innovative self-branding strategies, seamlessly blending education with entertainment for a uniquely engaging



experience. Sri Sreeraj Parackal's dynamic presentation captivated the audience, offering valuable insights and practical techniques for personal and professional development. The program not only emphasized the importance of self-branding but also left a lasting impact on the students, equipping them with the tools to navigate their future careers with confidence.

Parents' Meeting

The productive and transparent dialogues held during the parents' meeting fostered a deeper insight into students' academic progress and provided an opportunity for collaborative efforts in addressing any concerns or feedback raised by parents.

First Year BSc - 17th October 2023

Second Year BSc - 17th October 2023

Third Year BSc - 17th October 2023

First Year MSc - 17th October 2023

Second Year MSc - 30th October 2023

Certificate Course



During the academic year 2023 - 24, the department organized two certificate courses. "Basic Course in MATLAB" coordinated by Dr. Jubin Antony and "Typesetting using LaTeX" coordinated by Sri. Jijo Joy.

Peer Teaching



Enhance teaching efficacy and deepen subject understanding, our classes actively embrace peer instruction. This approach operates in two modes: one guided by teachers and another where students autonomously take charge. Dedicated students eager to participate in peer teaching receive additional support to prepare for their roles, with topics chosen based on student preferences and peer feedback.

Onam Celebrations



The department's Onam festivities were held on August 23 2023. Dr. Mary George conveyed the Onam greetings, while Sri Jogy Joseph, Vice Principal, warmly addressed the audience. The celebration included traditional Onappattu performances, Thiruvathira dance, and a range of enjoyable games, adding joy and cultural richness to the event.

Keral Piravi Dinam Celebration



To commemorate Kerala Piravi, the department hosted a quiz competition on November 1, 2023. Students from diverse disciplines demonstrated remarkable enthusiasm as they enthusiastically participated in the event, showcasing their knowledge and spirit of celebration.



Statistics Day Celebration

As part of the National Statistics Day celebrations, the Inter-Department Quiz competition was organized on June 27, 2023. Students from across departments showed exceptional enthusiasm and participated actively, making the event a vibrant and engaging affair.

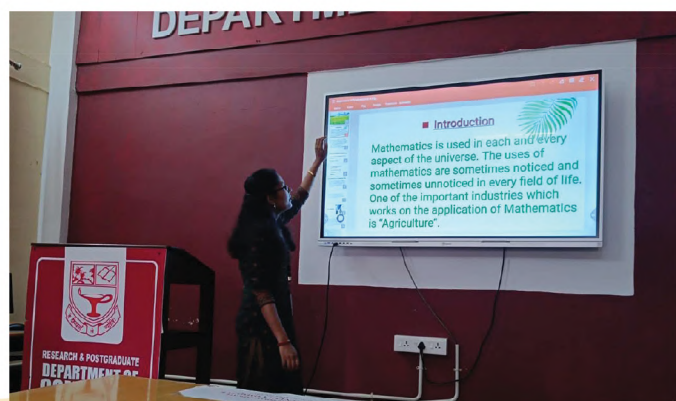


National Mathematics Day Celebration

As part of the National Mathematical Celebrations, the Department of Mathematics at St. Aloysius College, Edathua, organized the Interdepartmental MATH GENIUS - Puzzle Solving Competition on December 19, 2023, at 10:00 AM. Held in the III DC Mathematics Class, the event saw active participation from the Mathematics, Physics, Chemistry, EEM, and Zoology departments. Dr. Mary George, Head of the Department, inaugurated the event, setting the tone for a day of intellectual challenge. Ms. Krishna Priya K. efficiently coordinated the competition, which concluded with the Department of Physics winning first prize, the Mathematics Department securing second place, and the Chemistry Department claiming third. Continuing the National Mathematical Celebrations, the Department of Mathematics at St. Aloysius College, Edathua, organized an Interdepartmental Ramanujan Quiz on December 21, 2023, in the I DC Mathematics Class. The event featured a comprehensive lecture by Dr. Mary George on the contributions of the legendary mathematician, Ramanujan. Students from the Mathematics, Physics, Chemistry, and Zoology departments participated enthusiastically. Coordinated by Ms. Haridha Nair, the quiz resulted in the Department of Mathematics winning first prize, the Physics Department securing second place, and a tie for third place between the Chemistry and Mathematics departments.



Postgraduate Colloquium



The Department of Mathematics at St. Aloysius College, Edathua, initiated a Postgraduate Colloquium series to provide postgraduate students with an invaluable platform to enhance their subject knowledge and presentation skills. This initiative received active support from Prof. Dr. Indulal G, the Principal, whose insights and encouragement were integral to the program's success. Each event highlighted the broad applications of mathematics, fostering a collaborative

and supportive learning environment. The series successfully promoted academic excellence and continuous learning within the Department of Mathematics.



August 02, 2023

On August 2, 2023, the first colloquium aimed at enhancing subject knowledge and presentation skills was held. Presided over by Prof. Dr. Indulal G, the event featured a talk on the broad applications of mathematics and the importance of continuous learning. Ms. Anjali Santhosh delivered a notable presentation on "Analysis on the Consumption of OTT Platforms Using Python," showcasing the practical applications of mathematical concepts.

September 14, 2023

The colloquium on September 14, 2023, brought together degree and postgraduate students. Prof. Dr. Indulal G's address underscored the significance of academic initiatives and the broad applications of mathematics. Ms. Swathi Suresh's engaging presentation on "Graph Theory in Modern Life" demonstrated the real-world applications of mathematical concepts.

November 15, 2023

On November 15, 2023, the Mathematics Department held a colloquium focused on improving subject knowledge and presentation skills. Prof. Dr. Indulal G emphasized the broad spectrum of mathematics applications, offering valuable insights into its interdisciplinary nature. Ms. Varsha K S presented on "Applications of Mathematics in Forensic Science," highlighting the integration of mathematical principles in forensic analysis.

December 07, 2023

The colloquium on December 7, 2023, held at Fr. Punnapadom Hall, drew participants from multiple departments. Prof. Dr. Indulal G's opening remarks emphasized the multifaceted applications of mathematics, setting a positive tone for the event. Ms. Reshma R captivated the audience with her presentation on "The Mathematics of Machine Learning," exploring the application of mathematical principles in this emerging field.



January 29, 2024

Held on January 29, 2024, the colloquium focused on enhancing subject knowledge and presentation skills among Mathematics department students. Inaugurated by Prof. Dr. Indulal G, whose insightful remarks highlighted the diverse applications of mathematics, the event featured a presentation by Ms. Sreelakshmi R on "The Applications of Mathematics in the Medical Field." The active participation and engagement of the audience underscored the event's success.

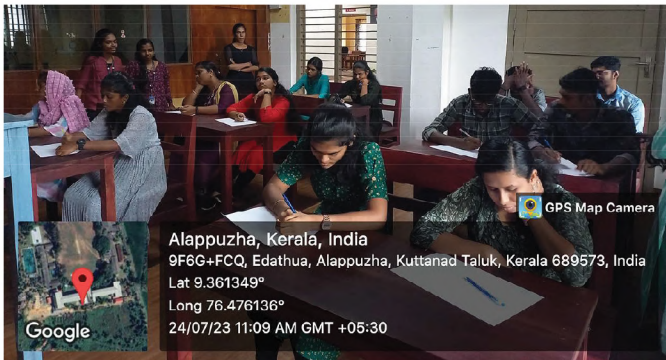
February 23, 2024

The February 23, 2024 colloquium at St. Aloysius College, Edathua, aimed at enhancing subject knowledge and presentation skills. It featured diverse presentations reflecting the breadth of research interests within the Mathematics department. Prof. Dr. Indulal G inaugurated the event with remarks on the broad applications of mathematics, setting an inspiring tone for the discussions. Ms. Preethikumari P's presentation on "The Applications of Mathematics in Space Science" captivated the audience. The colloquium provided a platform for fruitful academic discussions, achieving its objectives of fostering knowledge exchange and effective communication skills.

March 20, 2024

On March 20, 2024, the Mathematics Department hosted a successful colloquium focusing on enhancing subject knowledge and presentation skills. The event featured a welcoming address by Dr. Jubin Antony and insightful remarks by Sri Jijo Joy, both highlighting the importance of mathematics in various fields. Prof. Dr. Indulal G's support was evident throughout the event. A highlight presentation by Ms. Sasikala S on "The Applications of Mathematics in the Agricultural Field" showcased the department's commitment to academic excellence and continuous learning.

PI Day Celebrations



The Department organized a Quiz competition on July 24, 2023, in celebration of Pi Day. Students from the department showed impressive enthusiasm and participated actively, contributing to the event's lively and engaging atmosphere. Additionally, Arya Sasidharan and Preethi Kumari, both II MSc students, delivered a lecture on the history of pi using the Open Mike System.



Mastering Strategies for NET Success

On March 18, 2024, the Postgraduate Department of Mathematics at St. Aloysius College, Edathua, hosted a workshop titled "Mastering Strategies for NET Success," aimed at providing valuable guidance to postgraduate students aspiring to excel in the NET examination. The workshop saw participation from students of Mar Thoma College, Tiruvalla, and Devasom Board Pampa College, Parumala, fostering a collaborative learning environment. Prof. Dr. Indulal G., Principal of St. Aloysius College, delivered an inspiring talk, motivating students to pursue academic excellence. Dr. Arya Chandran, an alumna of the M.Sc. program (2013-15), served as the resource person, offering her expertise and experience to provide effective strategies for mastering the NET examination. The workshop encouraged active engagement and interaction among participants, facilitating the exchange of ideas and strategies for success. Through discussions, presentations, and practical tips shared by Dr. Arya Chandran, students gained valuable insights to enhance their preparation for the NET examination.



International Mathematics Day Celebrations

The Department of Mathematics at St. Aloysius College, Edathua, celebrated International Mathematics Day on March 14, 2024, with a series of engaging activities, including an inter-departmental quiz and a lecture on the mathematical constant Pi. Students from various departments participated enthusiastically in the quiz, showcasing their mathematical knowledge and problem-solving skills in a friendly competition. The second PG students delivered an insightful lecture on Pi, discussing its definition, significance in mathematics and science, and historical and cultural importance. This event fostered intellectual exchange and highlighted the universal appeal of mathematics.



Workshop on Problem Solving and Programming using Python



On January 9, 2024, the Department of Mathematics at St. Aloysius College, Edathua, in collaboration with the Department of Computer Applications at MACFAST, Thiruvalla, organized a workshop titled "Problem Solving and Programming using Python" at MACFAST, Thiruvalla. Led by Mr. Tiji Thomas, Head of the Department of Computer Applications at MACFAST, the workshop aimed to enhance problem-solving skills and programming proficiency for III DC Mathematics students. The event covered topics such as an introduction to Python, problem-solving strategies, hands-on coding exercises, and collaborative programming. The workshop fostered active participation and engagement through interactive sessions and group activities, providing students with practical applications of their theoretical knowledge. The collaboration between the two departments enriched the learning experience, culminating in a successful workshop that equipped students with valuable programming skills using Python.

Carrer Guidance Session on Medical Scribing



On February 1, 2024, the Post graduate Department of Mathematics at St. Aloysius College, Edathua, in collaboration with the School of Scribing, Thottappally, organized a career guidance session on medical scribing. Held at 3:30 PM in the Board Room near the Commerce Department, the session saw active participation from final-year undergraduate and postgraduate students. Ms. Niranjana, the student coordinator, welcomed the attendees. The session was conducted by Mr. Sachu Dev, a soft skill trainer, and Ms. Thaskina Harshad, an experienced MS Trainer, who provided valuable insights into medical scribing, enhancing students' understanding of the profession and its prospects. Aimed at equipping students with the knowledge and skills for a potential career in medical scribing, this collaborative effort offered a unique opportunity to explore the field with guidance from experienced trainers.

GeoGebra Workshop for Postgraduate Students

On January 23, 2024, the Department of Mathematics at St. Aloysius College, Edathua, organized a GeoGebra workshop for postgraduate students to enhance their skills in using this dynamic software, which integrates geometry, algebra, and calculus. Prof. Dr. Indulal G., Principal of St. Aloysius College, inaugurated the event by emphasizing the importance of modern technology in mathematical education and GeoGebra's practical applications. Dr. Mary George, Head of the Department of Mathematics, praised the initiative and highlighted GeoGebra's role in advancing mathematical understanding. The workshop featured an insightful session conducted by Sri Sarath A. S., a seasoned member of the State Resource Group (SRG) from GHSS, Malappuram, who covered topics from basic functionalities to advanced tools, providing a comprehensive understanding of integrating GeoGebra into mathematical teaching and learning. The interactive and engaging session significantly helped students enhance their mathematical skills.



Mathematical Exhibition “INS π RE”

On December 20, 2023, the Department of Mathematics at St. Aloysius College, Edathua, organized the “INS π RE” mathematical exhibition, which began at 10:00 AM. The event was inaugurated by the esteemed Principal, Prof. Dr. Indulal G, who highlighted the significance of mathematical exploration and celebration. The exhibition was open to all students, encouraging widespread participation and engagement. Students displayed a keen interest in the diverse aspects of mathematics presented. This interactive platform allowed them to explore and appreciate the beauty and applicability of mathematics in various fields. The enthusiastic participation contributed to the event's success, fostering a positive atmosphere of mathematical curiosity.



YORUM

The Department of Mathematics at St. Aloysius College, Edathua, hosted its annual arts fest, YORUM 2K24, on March 11, 2024, at the prestigious Fr. Punnappadom Hall. The event was a vibrant celebration of student talent and creativity. Mr. Jubin Antony, the Association President, warmly welcomed all attendees, setting the stage for a day filled with cultural festivities and artistic expressions. Students showcased their diverse talents through various literary and cultural activities, including poetry recitations, music performances, dance presentations, and art exhibitions. The second-year postgraduate students emerged victorious, clinching the overall championship title. YORUM 2K24 witnessed enthusiastic participation from students at all levels, highlighting a spirit of camaraderie and sportsmanship. The event provided a platform for students to exhibit their talents and engage with their peers in a lively and supportive environment.



ABSCISSA

On January 31, 2024, the Mathematics Department hosted its annual Mathematics Fest, ABSCISSA, under the inauguration of Principal Prof. Dr. Indulal G, with a warm welcome delivered by Lt. Dr. Jubin Antony, the Association President. The event showcased a rich variety of competitions, including paper presentations involving nine departmental teams. ABSCISSA also featured stimulating contests like Sudoku, Rubik's Cube, Codebreaker Word Puzzles, a Quiz competition, and a Treasure Hunt, highlighting a dynamic celebration of mathematical talent. Notably, Smt. Indu V R, Assistant Professor in the Department of B.Com Computer Applications, was honoured during the event as the best NSS Programme officer among MG University affiliated colleges.



Study Tour

The Department of Mathematics at St. Aloysius College, Edathua, organized an enriching tour for the III DC Mathematics students from February 20 to February 25, 2024. Nine enthusiastic students participated in the tour, led by Mr. Jijo Joy, Assistant Professor of Mathematics, who facilitated the educational aspects of the journey. The itinerary included visits to Coorg and Goa.



Department Staff Tour

"The Postgraduate Department of Mathematics organized a one-day staff tour to Kumarakom on February 2, 2024. The faculty had the pleasure of experiencing a serene boat ride on the picturesque backwaters aboard a traditional Shikara boat. It was a day filled with joy and memorable moments, leaving everyone with cherished memories.



MATHSPARK

The II PG Mathematics students from St. Aloysius College, in collaboration with St. Aloysius Higher Secondary School, Edathua, conducted an exciting Extension Programme on November 10, 2023. The event featured engaging activities such as puzzles, word problems, and Sudoku, all specifically tailored for Plus One students. These interactive exercises aimed to make mathematics enjoyable and deepen the students' understanding of the subject.

On November 20, 2023, the I PG Mathematics students from St. Aloysius College teamed up with Lourdes Matha Higher Secondary School, Pacha, for a dynamic Extension Programme. The students organized a variety of stimulating activities, including

puzzles, word problems, quizzes, and Rubik's cube challenges. This initiative aimed to popularize mathematics among Plus One students by presenting it in a fun and engaging manner.

In collaboration with NSS Higher Secondary School, Karuvatta, the I PG Mathematics students from St. Aloysius College conducted another inspiring Extension Programme on December 01, 2023. The event featured a range of activities, including puzzles, word problems, and Sudoku, designed to make mathematics enjoyable and spark curiosity and appreciation for the subject among Plus One students. These programs underscore the commitment to community enrichment through educational outreach.



MEMORANDUM OF UNDERSTANDING

Collaboration with Mar Thoma College, Tiruvalla

The Department of Mathematics at St. Aloysius College, Edathua, and the Department of Mathematics at Mar Thoma College, Tiruvalla, have formalized a collaboration to promote academic cooperation. This agreement, effective upon signing, focuses on joint research publications, exchange of educational materials, and technical assistance. A non-contractual arrangement, it aims to enhance academic exchanges without legal or financial commitments. Designated liaisons from each institution will oversee implementation, adhering to equal opportunity policies, with annual reviews and potential five-year extensions. Termination requires 120 days' notice, allowing ongoing activities to conclude.



Collaboration with Mar Athanasios College for Advanced Studies, Tiruvalla

The Department of Mathematics at St. Aloysius College, Edathua, has entered into a collaborative agreement with the Department of Computer Applications at Mar Athanasios College for Advanced Studies, Tiruvalla. This non-contractual understanding, effective upon signing and amendable with mutual consent, aims to foster academic cooperation through joint research, educational material exchanges, and technical support. Designated liaisons will ensure the implementation, adhering to equal opportunity policies. The collaboration will undergo annual



reviews, with an option for five-year extensions, and may be terminated with a 120-day notice period, allowing ongoing activities to finish.

SMILE

On December 9, 2023, the Postgraduate Department of Mathematics organized an extension program titled SMILE (Sincere Mathematical Initiatives with Love and Empathy) at Ambadi Balashramam. Second-year degree mathematics students, accompanied by department teachers, led the event, which featured engaging activities such as sudoku, math puzzles, word problems, and entertaining programs for the school students residing at Balashramam. These activities aimed to spark curiosity and interest in mathematics among the young minds. In addition to the interactive sessions, the department generously distributed books and pens to the Balashramam inmates, enhancing their educational resources. The highlight of the day was the cutting of a Christmas cake, symbolizing the spirit of joy and festivity shared between the students, teachers, and the Balashramam community. This extension program not only enriched the mathematical knowledge of the school students but also fostered a sense of compassion and connection within the academic community.



MATHMANIA 2K24 - Teacher Enrichment Programme in Mathematics



The Department of Mathematics at St. Aloysius College, Edathua, in collaboration with the Mathematics Teacher's Forum in the Educational District of Kuttanadu, successfully organized "MATHMANIA 2K24," a Teacher Enrichment Programme, on January 23, 2024, at Fr. Punnappadom Hall. The event, aimed at enhancing the professional skills of mathematics teachers, commenced with a warm welcome by Sri Josekutty Sebastian, followed by a presidential address from Smt. Ajitha S., the District Education Officer of Kuttanadu. Prof. Dr. Indulal G., Principal of St. Aloysius College, inaugurated the program, emphasizing the transformative power of education and continuous learning. Dr. Mary George, Head of the Department of Mathematics, extended felicitations, recognizing the commitment of teachers and the significance of forums like MATHMANIA. Prof. Dr. Indulal G. led the first session on effective teaching methodologies, while Sri Sarath A. S., from the State Resource Group (SRG) of Govt. HSS, Malappuram, conducted a technical session on innovative teaching tools and technologies. The event attracted 42 mathematics teachers from various schools in the Kuttanadu educational district, fostering a collaborative learning environment and providing a platform for teachers to enhance their professional skills and stay updated on innovative teaching methodologies.

Postgraduate Students from St. Aloysius College Supervise SEAS Exam with Excellence



The General Education Department of Kerala conducted the State Educational Achievement Survey (SEAS) Exam on November 3, 2023, for students in the third, sixth, and ninth standards. Postgraduate students from the Department of Mathematics at St. Aloysius College, Edathua, were appointed as invigilators for this significant academic event. Their diligent supervision ensured a smooth and efficient examination process, reflecting the college's commitment to educational excellence and community involvement. This collaboration not only facilitated a fair assessment environment but also provided the postgraduate students with valuable experience in educational administration.

INVOLVEMENT IN COLLEGE ACTIVITIES

College Union Election

The College Union Election was held on 5th October 2023. Second year B.Sc. student Ms. Gopika P was elected Councillor to the University Union. The following were the class representatives.

1. Mr. R Yedukrishnan & Ms. Noufiya Nazar - I BSc
2. Ms. Gopika P - II BSc
3. Mr. Pranav Pramod & Ms. Azeela Abdul Rahim - III BSc
4. Mr. Arjun A & Ms. Reena Philip - I MSc

Christmas Celebration



On December 22, 2023, the staff and students enthusiastically gathered to celebrate Christmas. Students actively participated in competitions for crib and star making, with Ms. Swathi Suresh and Ms. Gopika Dev G P representing the department in the Angel and Santa Claus competitions respectively. The department achieved second place in the Santa Claus Competition. Dr. Mary George, the department head, had the privilege of cutting the Christmas cake, while Sri Jogy Joseph, Vice Principal, delivered a heartfelt Christmas message to the gathering.

Students of the outgoing MSc batch



Students of the outgoing BSc batch



STUDENT'S ACHIEVEMENTS (2023 -2024)

Aloysian Exemplar



Aloysian Exemplar, a prestigious annual competition, aims to recognize the top 5 graduating UG and PG students who excel in both academics and extracurricular activities. The competition spans 5 rigorous stages, with nearly 35 contestants participating in the initial round. From these, 10 students were chosen to compete in the final stage. Mr. Harikrishnan S from the department advanced to the final round, which took place on March 15, 2024.

Women's Day



The college celebrated Women's Day on February 28, 2024, organized by KSWDC - Women's Cell. Ms. Sreelekshmi R from 2nd MSc was honoured with the title of "Miss Aloysius." Additionally, Ms. Azeela Abdul Rahim from 3rd BSc showcased the department's talent in the "Mochathi" competition, while Ms. Helana Ancy P A from 2nd MSc represented the department in the "Nazrani" competition.



Induction Programme

The Department of Mathematics successfully organized a comprehensive induction programme for the first-year B.Sc and M.Sc. Mathematics students, welcoming them to the academic year 2023-2024. The programme aimed to familiarize the new students with the curriculum, academic expectations, and the numerous opportunities available in the field of mathematics.



PG Fest

The postgraduate students of the Department of Mathematics shone brightly at the 'Izredna' inter-departmental PG fest held on March 21 and 22, 2023. The first-year M.Sc. students clinched first prize in the Treasure Hunt, while Preethi Kumari P. and Varsha K. S. from the second-year M.Sc. Mathematics secured third place in the PowerPoint presentation. Ms. Gopika Dev G. P. from the first-year M.Sc. won first prize in spot dance, and Ms. Helana Ancy P. A. took home second prize in the solo song category. In literary events, Preethi Kumari P. achieved first place in Malayalam Poem Writing, and Varsha K. S. earned second place in the film review competition. The first and second-year M.Sc. students also excelled in group events, winning first prize in Group Dance and second prize in Tableau. The department proudly celebrated its overall victory, emerging as the Champions of the PG Fest.



NCC Awards

Ms. Gayathri Devi S., 3rd-year B.Sc. Mathematics student, was selected for the prestigious 'Republic Day Inter Group Competition' 2023. Mr. Sreeraj S., 3rd-year B.Sc. Mathematics student, was honoured with the 'Best Cadet Award' for 2023-2024.



Scholarships & Endowments



Ms. Krishnapriya K, III B.Sc. Mathematics student, has been awarded the Rev. Dr. Thomas Pothanamuzhi Prize for being the best outgoing student in the Science Stream. Her exceptional academic performance and dedication to her studies have distinguished her as a top achiever in her field.

Congratulations

Kudos to the exceptional students from the Department of Mathematics at St. Aloysius College, Edathua, for their outstanding performance in the University Examinations! Your dedication and perseverance have borne

fruit, and we are incredibly proud of your impressive accomplishments. May you keep excelling and lighting up the world of numbers and equations!



MG University Youth Festival

Heartfelt congratulations to Ms. Preethi Kumari P of II M.Sc. Mathematics for achieving an A Grade in Malayalam poetry writing at the MG University Youth Festival! Your remarkable accomplishment is a true reflection of your talent and dedication.

Dr. Arya Chandran

(Alumna M.Sc. 2013 - 2015 Batch)



Heartiest congratulations Dr. Arya Chandran on achieving your Ph.D in Mathematics from the University of Kerala! Your dedication and scholarly achievements make your Alma Matter immensely proud. Wishing you continued success in your academic journey.

Ms. Vidya M Nair

(Alumna M.Sc. 2019 - 2021 Batch)



Heartiest congratulations on securing the first rank in MG University's B.Ed degree examination in Mathematics! Your exceptional achievement is a testament to your hard work and dedication. Keep striving for excellence!

Proficiency Prize for Students

Sl. No.	Name of the Student	Prize
1	Manju Madhu	Overall topper in I Semester CBCS B.Sc. Examination, December 2023
2	Gopika P	Overall topper in I Semester CBCS B.Sc. Examination, February 2023
3	Gopika P	For securing 100% marks in Statistics in I Semester CBCS B.Sc. Examination, February 2023
4	Aswathy R	Overall topper in II Semester CBCS B.Sc. Examination, June 2023
5	Aswathy R	Overall topper in III Semester CBCS B.Sc. Examination October 2023
6	Amritha V Nair	Overall topper in III Semester CBCS B.Sc. Examination October 2023
7	Amritha V Nair	For securing 100% marks in Mathematics in III Semester CBCS B.Sc. Examination, October 2023
8	Krishnapriya K	Overall topper in IV Semester CBCS B.Sc. Examination, May 2023
9	Krishnapriya K	Overall topper in V Semester CBCS B.Sc. Examination, October 2023
10	Krishnapriya K	Overall topper in VI Semester CBCS B.Sc. Examination, March 2024
11	Anjali Santhosh	Overall topper in I Semester PGCSS M.Sc. Examination, December 2023
12	Preethi Kumari P	Overall topper in I Semester PGCSS M.Sc. Examination, March 2023
13	Preethi Kumari P	Overall topper in II Semester PGCSS M.Sc. Examination, July 2023
14	Preethi Kumari P	Overall topper in III Semester PGCSS M.Sc. Examination, November 2023
15	Preethi Kumari P	Overall topper in IV Semester PGCSS M.Sc. Examination, April 2024

Honouring Excellence: Mathematics Department Scholarships and Endowments 2023 - 2024

It is with immense pride and joy that we highlight the exceptional achievements of our students who have been distinguished with scholarships and endowments this year. Their unwavering dedication and academic prowess have set an inspiring example for all. Join us in celebrating their remarkable accomplishments and recognizing their hard-earned success.

Congratulations to the following awardees:

Sl. No.	Name of the Scholarship	Winner	Prize Amount
1	PTA proficiency Prize - M.Sc. Mathematics	Adithya K S	500/-
2	PTA proficiency Prize - B.Sc. Mathematics	Rossana James	500/-
3	Siblal Memorial Scholarship – Highest marks for B.Sc. Mathematics	Rossana James	500/-
4	Prof. Abdul Lathif Scholarship – Highest marks in M.Sc. Mathematics	Adithya K S	500/-
5	Prof. Rosamma Luke Endowment – Highest marks in B.Sc. Mathematics (Main only)	Rossana James	1000/-
6	Prof. K. U. Zacharia Endowment – Highest marks in M.Sc. Mathematics (Semester I & II)	Preethi Kumari P	800/-
7	Prof. Rosamma Thomas Endowment (The best student who is financially backward at the entry level of B.Sc. Mathematics)	Jeena Jolly Jintu Jolly	2000/-
8	Prof. Joy Joseph Endowment – Highest marks in Statistics (Sub) of B.Sc. Mathematics	Krishnapriya K	800/-
9	Prof. Aniamma Peter Endowment for the student who scores highest marks in B.Sc. Mathematics including English & Language	Rossana James	1500/-
10	Proficiency prize B. Sc. Mathematics instituted by 1982-85 B.Sc. Mathematics batch students	Rossana James	4000/-
11	E V George Memorial Endowment for the student who scores highest marks in M.Sc. Mathematics constituted by his son Shoji George	Adithya K S	1500
12	E V George Memorial Endowment for the student who scores highest marks in B.Sc. Mathematics constituted by his son Shoji George	Rossana James	1000

FACULTY CORNER

Research Papers

Prof Dr. Indulal G

1. Jiny Johny C J and Indulal Gopalapillai, *Skew Spectrum of some graphs related to Petersen Graph*, Palestine Journal of Mathematics, 12(2) (2023), 246-253
2. Liju Alex, G. Indulal, *Zagreb indices of some chemical structures using new products of graphs*, Journal of Hyperstructures 12 (2) (2023), 257-275
3. Liju Alex, G. Indulal, *Inverse Problem for Mostar Index of Chemical Trees and Unicyclic Graphs*, Palestine Journal of Mathematics (In Press)
4. Deena C Scaria, Indulal G, *The distance seidel spectrum of some graph operations*, Journal of Hyperstructures 13(1) (2024), 15 - 32
5. Liju Alex, G. Indulal, *Sharp bounds on additively weighted Mostar index of Cacti*, Communications in Combinatorics and optimization (In Press)
6. Liju Alex, John Joy, G. Indulal, *Induced Dominating Sequence and ESD Graph*, Proyecciones Journal of Mathematics Vol. 43, No 4, (2024), 947-964

Deena C Scaria

1. Deena C Scaria, Indulal G, *The distance seidel spectrum of some graph operations*, Journal of Hyperstructures 13(1) (2024), 15 - 32

Conference/Workshops Presentation

Prof Dr. Indulal G

1. Delivered an invited talk on 'Graphs characterised by the spectrum' in the Ambat Vijayakumar endowment lecture at CUSAT on 05.08.2023
2. Delivered an invited talk on 'Linear algebra in graph theory' in NSLAA 2023 at Kodungallur Kunjikkuttan Thampuran Memorial Government College, Kodungallur on 03 .11.2023
3. Delivered an invited talk on 'Relationship between spectrum and graph structures' in NWSEG 2023 at St. Paul's College, Kalamassery on 16 .11.2023
4. Delivered an invited talk on 'An introduction to spectral graph theory' in the National research Workshop on Graph theory at BCM College, Kottayam on 23 .05.2024
5. External Expert for Pre – Ph.d Presentation at Union Christian College, Aluva on 06.01.2024

Deena C Scaria

1. Presented a paper entitled '*Distance Spectrum of Subdividing the edges of a Hamiltonian cycle in K_p* ' in the International Conference on Graph Theory and its Applications (ICGTA 2023) held at Christ (Deemed to be University) Bangalore from 30 November - 02 December, 2023.
2. Presented a paper entitled '*Distance Seidel Spectrum of Subdividing the edges of a Hamiltonian cycle in K_p* ' in the International Conference on Mathematical Challenges and Novel Applications (ICOMACNA – 2024)

Conference/Workshops /Training Attendance

Deena C Scaria

Participated in the five day Faculty Development Programme on MGU UG (Honours) Syllabus Revision & OBE Training conducted by the College Development Council, Mahatma Gandhi University from 27 – 11 – 2023 to 01 – 12 – 2023.

Jijo Joy

Participated in the five day Faculty Development Programme on MGU UG (Honours) Syllabus Revision & OBE Training conducted by the College Development Council, Mahatma Gandhi University from 27 – 11 – 2023 to 01 – 12 – 2023.



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC RE- Accredited 'A' Grade College
DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM

**Analysis on the Consumption
of OTT Platforms Using Python**



ANJALI SANTHOSH
I M.SC. MATHEMATICS

02 AUGUST 2023 AT 10:45AM
VENUE: RESEARCH ROOM, DEPT. OF COMMERCE



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC RE- Accredited 'A' Grade College
DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM

Graph Theory in Modern Life



SWATHI SURESH
I M.SC. MATHEMATICS

14 TH SEPTEMBER 2023 AT 11:00AM
VENUE: RESEARCH ROOM, DEPT. OF COMMERCE



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC RE- Accredited 'A' Grade College
DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM

**APPLICATION OF MATHEMATICS
IN FORENSIC SCIENCE**



VARSHA K S
II M. SC. MATHEMATICS

15 November 2023 AT 1:45 PM
VENUE: RESEARCH ROOM, DEPT. OF COMMERCE



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC RE- Accredited 'A' Grade (4th Cycle)
DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM

THE MATHEMATICS OF MACHINE LEARNING



RESHMA. R
I M. SC. MATHEMATICS



OPENING REMARKS
PROF. DR. INDULAL G
PRINCIPAL

7 TH DECEMBER 2023 AT 2:00 PM
VENUE: PUNNAPPADOM HALL

DR. JUBIN ANTONY
ASSOCIATION PRESIDENT

DR. MARY GEORGE
HEAD OF THE DEPARTMENT



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC RE- Accredited 'A' Grade (4th Cycle)
POSTGRADUATE DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM

APPLICATIONS OF MATHEMATICS IN MEDICAL FIELD



SREELAKSHMI R
II M. SC. MATHEMATICS



OPENING REMARKS
PROF. DR. INDULAL G
PRINCIPAL

29 TH JANUARY 2024 AT 1:45 PM

VENUE: BOARD ROOM NEAR DEPARTMENT OF COMMERCE

DR. JUBIN ANTONY
ASSOCIATION PRESIDENT

DR. MARY GEORGE
HEAD OF THE DEPARTMENT



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC Re-Accredited 'A' Grade (4th Cycle)
POSTGRADUATE DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM-6

APPLICATION OF MATHEMATICS IN SPACE SCIENCE



PREETHIKUMARI P
II M. SC. MATHEMATICS



OPENING REMARKS
PROF. DR. INDULAL G
PRINCIPAL

23 RD FEBRUARY 2024 AT 1:45 PM

VENUE : BOARD ROOM NEAR DEPARTMENT OF COMMERCE



ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA
Affiliated to Mahatma Gandhi University | NAAC Re-Accredited 'A' Grade (4th Cycle)
POSTGRADUATE DEPARTMENT OF MATHEMATICS

POSTGRADUATE COLLOQUIUM-7

APPLICATION OF MATHEMATICS IN AGRICULTURAL FIELD



SASIKALA S
II M. SC. MATHEMATICS



OPENING REMARKS
JIJU JOY
ASSISTANT PROFESSOR



PRINCIPAL'S ADDRESS
PROF. DR. INDULAL G

20 TH MARCH 2024 AT 1:45 PM

VENUE : BOARD ROOM NEAR DEPARTMENT OF COMMERCE

DR. MARY GEORGE
Head of the Department

DR. JUBIN ANTONY
Association President

SURYAMOL K S
Student Coordinator



DR. JUBIN ANTONY
ASSOCIATION PRESIDENT

DR. MARY GEORGE
HEAD OF THE DEPARTMENT

Mathematical Minds Across Generations!

