

**Sullamussalam International Conference on Science,  
Arts & Commerce  
(SICSAC- 2024)**

**13, 14, 15 February 2024.**



**Report of**

**Department of Mathematics  
Sullamussalam Science College  
Areekode**

## **Introduction:**

The Sullamussalam International Conference on Science, Arts & Commerce (SICSAC-2024) convened over three days from February 13th to 15th, 2024, fostering an enriching environment for scholars across various disciplines to converge and exchange ideas. With a comprehensive scope spanning science, arts, and commerce, the conference aimed to facilitate interdisciplinary collaboration, emphasizing the significance of holistic education. By encouraging dialogue and interaction among participants from diverse cultural backgrounds, SICSAC-2024 sought to enhance cross-cultural communication and promote a deeper understanding of global perspectives. Furthermore, the conference served as a platform for exploring innovative strategies and approaches across different domains, contributing to the advancement of knowledge and practice in academia and beyond.

## **Introduction to SICSAC-2024 Mathematics Sessions:**

The International Conference SICSAC 2024 encompasses a diverse array of mathematical disciplines, ensuring a comprehensive exploration of the field. From foundational topics like Algebra, Analysis, and Calculus to specialized areas such as Geometry, Topology, and Graph Theory, the conference aims to foster discussions and exchanges on cutting-edge research and developments. Additionally, it delves into applied domains like Probability and Statistics, Game Theory, and Numerical Analysis, reflecting the practical relevance of mathematical principles across various fields. Moreover, the inclusion of Mathematical Logic underscores the importance of theoretical frameworks and rigorous reasoning in advancing mathematical knowledge. With its broad scope, SICSAC 2024 provides a platform for scholars and practitioners to engage in fruitful exchanges and collaborations, driving innovation and advancement in mathematics and its applications.

## **Major Themes**

- ❖ Algebra
- ❖ Analysis
- ❖ Calculus, Differential Equations and Integration
- ❖ Geometry and Topology
- ❖ Graph Theory and Combinatorics
- ❖ Group Theory
- ❖ Number Theory, Arithmetic
- ❖ Probability and Statistics, Game Theory
- ❖ Applied Mathematics
- ❖ Mathematical Logic
- ❖ Numerical Analysis

## **Overview of Sessions:**

The sessions conducted by the department of Mathematics at SICSAC-2024 was set to explore an extensive range of mathematical subjects, ensuring a thorough examination of the discipline. From fundamental areas such as Algebra, Analysis, and Calculus to specialized fields like Geometry, Topology, and Graph Theory, the conference aimed to facilitate discussions and knowledge sharing on the latest research and advancements.

## **Plenary Session 1:**

**Speaker:** Dr. Zahid Raza  
Associate Professor  
Department of Mathematics  
College of Sciences  
University of Sharjah.

**Topic:** Topological Descriptors associated with Chemical Structures.

**Venue:** College Seminar Hall.

**Mode of Presentation:** Online.

**Welcome Address:** Dr. Sajith G Menon  
Adjunct Professor  
Former HoD  
Department of Mathematics  
Sullamussalam Science College Areekode.

**Vote of Thanks:** Dr. Sameeha Rehmani  
Assistant Professor  
Department of Mathematics  
Sullamussalam Science College Areekode.

The second day of the Sullamussalam International Conference on Science, Arts, and Commerce (SICSAC 2024) commenced with an enlightening session presented by Dr. Zahid Raza, Associate Professor from the Department of Mathematics at the College of Sciences, University of Sharjah. The session, held in the College Seminar Hall, focused on the intricate topic of "Topological Descriptors associated with Chemical Structures." Despite being conducted online, Dr. Raza's presentation captivated the audience with its depth and relevance. Dr. Raza's elucidation in chemical graph theory has shed light on its pivotal role in graph theory and its applications across diverse domains such as Mathematics and Chemistry.

The event began with a warm welcome address by Sr. Sajith G Menon, the Former Head of the Department of Mathematics at Sullamussalam Science College Areekode, setting

the tone for an intellectually stimulating discussion. Following Dr. Raza's presentation, Dr. Sameeha Rehmani, Assistant Professor in the Department of Mathematics at Sullamussalam Science College Areekode, delivered a heartfelt vote of thanks, expressing gratitude to all participants and organizers for their contributions to the success of the session. The session served as a testament to the conference's commitment to fostering interdisciplinary dialogue and advancing knowledge in various fields.

### **Plenary Session 2:**

**Speaker:** Dr. Muhammed Saeed K  
Assistant Professor  
Department of Mathematics  
NIT Calicut.

**Topic:** Overview of Iterative Methods: Classifications, Comparisons, and Analysis.

**Welcome Address:** Dr. Fazeela K Kaithakkal  
Head of the Department of Mathematics  
Sullamussalam Science College Areekode.

**Vote of Thanks:** Ishrath VP  
Assistant Professor  
Department of Mathematics,  
Sullamussalam Science College Areekode.

Dr. Muhammed Saeed K, Assistant Professor, Department of Mathematics, NIT Calicut, delivered an illuminating talk during the second session of the conference. His presentation, titled "Overview of Iterative Methods: Classifications, Comparisons, and Analysis," provided valuable insights into the various aspects of iterative methods. Dr. Fazeela K Kaithakkal, the Head of the Department of Mathematics at Sullamussalam Science College Areekode, extended a warm welcome to the participants, setting a welcoming atmosphere for the session. Following

Dr. Saeed's engaging presentation, Ishrath VP, an Assistant Professor in the Department of Mathematics at Sullamussalam Science College Areekode, delivered a gracious vote of thanks, expressing gratitude to Dr. Saeed and all attendees for their active participation and valuable contributions. The session concluded on a high note, leaving the audience enriched with knowledge and insights into the realm of iterative methods.

### **Paper Presentation Sessions :**

#### **Paper Presentation Session (February 14, 2024):**

**Chair:** Dr. Muhammed Saeed K

Assistant Professor

Department of Mathematics

NIT Calicut.

- Eighteen papers were presented, covering a wide array of mathematical topics, showcasing the depth and breadth of research in the field.
- Dr. Muhammed Saeed K chaired the session, ensuring insightful discussions and scholarly exchange among presenters and participants.

**Conclusion:** The sessions hosted by the Mathematics department at SICSAC-2024 facilitated constructive conversations and idea-sharing among scholars, researchers, and educators. By presenting papers and engaging in discussions, attendees actively advanced the frontiers of mathematical knowledge. This collaborative effort underscored the conference's aim to foster interdisciplinary research and promote cultural exchange within the academic community.

#### **1. Posters (with thrust areas and poster for plenary sessions.)**

- See the attachment.

#### **2. Schedule of Plenary Sessions**

- See the attachment.

### 3. Paper Presentations schedule

- See the attachment.

### 4. Album

- See the attachment.

2024  
FEBRUARY  
**13,14,15**

**DEPARTMENT OF MATHEMATICS**  
SULLAMUSSALAM SCIENCE COLLEGE  
Arakkode, Utharastrali P.O., Malappuram Dt.





**SICSAC SULLAMUSSALAM**  
**2024 INTERNATIONAL CONFERENCE**  
**ON SCIENCE, ARTS & COMMERCE**

The Sullamussalam International Conference on Science, Arts & Commerce (SICSAC-2024) is an interdisciplinary gathering scheduled to be held from February 13th to 15th, 2024. It encompasses a wide range of subjects, fostering cross-disciplinary collaboration among scholars from diverse fields. The conference also celebrates linguistic diversity by including languages like Arabic, Malayalam, and Hindi. SICSAC-2024's objectives encompass promoting holistic education, enhancing cross-cultural communication, and exploring innovative strategies across various domains. Join us at SICSAC-2024 to connect, collaborate, and contribute to the global dialogue on education and culture, shaping a more interconnected world.

**THRUST AREAS**

- Algebra and Analysis
- Calculus, Differential Equations and Integration
- Geometry and Topology
- Graph Theory and Combinatorics
- Group Theory
- Number Theory, Arithmetic
- Probability and Statistics, Game Theory
- Applied Mathematics
- Mathematical Logic
- Numerical Analysis

Abstract Submission	: 20th December 2023
Acceptance of Abstract	: 27th December 2023
Full Paper Submission	: 20th January 2024
Send Your Paper to	sicsac2024@sullamussalam.ac.in

Participants - FOR ONE DAY	100
Presentat on- PG & UG	300
Presentat on- Research Scholars	400
Presentat on- Faculty members	500
Presentat on- Industrial Professionals	700

<b>PAYMENT</b>	<b>REGISTRATION</b>
	

DEPARTMENT COORDINATOR: Dr. Sameeha Rahman - 9446161226

2024 **13|14|15**  
FEBRUARY

Sullamussalam  
**INTERNATIONAL  
CONFERENCE**  
ON SCIENCE, ARTS & COMMERCE  
**SICSAC  
2024**



## Topological DESCRIPTORS

Associated with  
Chemical Structures

**Dr. ZAHID RAZA**

Associate Professor  
Department of Mathematics  
College of Sciences, University of Sharjah



## OVERVIEW OF Iterative Methods

Classifications,  
Comparisons and Analysis

**Dr. MUHAMMED SAEED K**

Assistant Professor (Adhoc faculty)  
NIT Calicut

In Association with IQAC



**PG DEPARTMENT OF MATHEMATICS**  
**SULLAMUSSALAM SCIENCE COLLEGE**  
Areekode, Ugrapuram P.O, Malappuram DT.

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**SULLAMUSSALAM INTERNATIONAL CONFERENCE ON SCIENCE, ARTS & COMMERCE  
(SICSAC-24)**

**DEPARTMENT OF MATHEMATICS**

**14.02.2024**

<b>Name of Coordinators:</b>	Dr.Fazeela. K.Kaithakkal Dr.Sameeha Rehmani
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<b>Time</b>	<b>Programme Title</b>	<b>Name of the speaker</b>	<b>Venue</b>
09:30 AM to 09:45 AM	Welcome	Dr. Sajith G Menon	Seminar Hall
09:45 AM to 11:00 AM	Key note-Online	Dr. Zahid Raza	
11:00 AM to 11:15 AM	Vote of Thanks	Dr. Sameeha Rehmani	
11:15 AM to 11:30 AM	<b>TEA BREAK</b>		
11:30 AM to 11:45 aM	Welcome	Dr.Fazeela. K. Kaithakkal	Mathematics Department Hall
11:45 AM to 12:45 PM	Key note-Offline	Dr. Muhammed Saeed K	
12:45 PM to 1:00 PM	Vote of Thanks	Ishrath V P	
1:00 PM to 2:00 PM	<b>LUNCH BREAK</b>		

## Details of Paper Presentation

**Chair: Dr. Muhammed Saeed K**

**Venue: Mathematics Department Hall**

**Time: 2:00 PM to 3:15 PM**

SI No	Name of the Candidate	Institution/Organisation	Title of the Paper
1	Nizamudheen V and Shefeeq T	PG & Research Department of Mathematics, Farook College(Autonomus)	A comparative study of $2k + 1$ node finite difference approximation for one dimensional wave equation
2	Mohammed Shafeek M, Dr. Mohammed Abdul Khayyoom. M and Dr. Shefeeq. T	PG & Research Department of Mathematics, Farook College(Autonomus)	Split Geo Chromatic Number of a Graph
3	Muhammed shaheer. k	Noorul hidaya Islamic academy pattambi, Palakkad	USAGE OF ALGEBRA IN DAILY LIFE
4	Fathima Nihala K V , Athira. M	NSS college Manjeri	A STUDY OF SYMMETRY IN BIFURCATION DIAGRAMS
5	Heneen Muhammad K, Dr. Sameeha Rehmani	MES Kalladi College, Mannarkkad	Square graphs of finite groups
6	Sakkeena P	SS College , Areekode	On Sum-Distance in Fuzzy Graphs

7	Shifa Shyma CV	Department of Mathematics, Farook College	HERONS FORMULA AND SIMPLEXES
8	Hemees Muhammed K	Ramanujan School of Mathematical Sciences Pondicherry University	Presence of Non Euclidean Geometry in Nature
9	Vyshnav Narayanan. N, Fahad. P, Farsana C and Dr.Fazeela.K.Kaithakkal	Sullamussalam Science College, Areekode	Geometry in Photography
10	Muhammed Asif Sajjad VK and Fazeela.K	Sullamussalam Science College, Areekode	LINEAR ALGEBRA IN MACHINE LEARNING

**3:15 PM to 3:30 PM**

**TEA BREAK**

**Details of Paper Presentation**

**Chair: Dr. Muhammed Saeed K**

**Venue: Mathematics Department Hall**

**Time: 3:30 PM to 5:00 PM**

1	Fadhi Rahman. M, Rifa Sajeem. P, Hisana Thesnim. M.T, Anshida Nasreen. P, Fathima Rashidha. K.M	Sullamussalam Science College, Areekode	Fuzzy set
2	Hera Omar K, Fathima Haneena MC, Noora M, Naseeha MP, Marva Raneen P, Shijith KP	Sullamussalam Science College, Areekode	STATISTICAL ANALYSIS ON ROAD ACCIDENTS IN KERALA

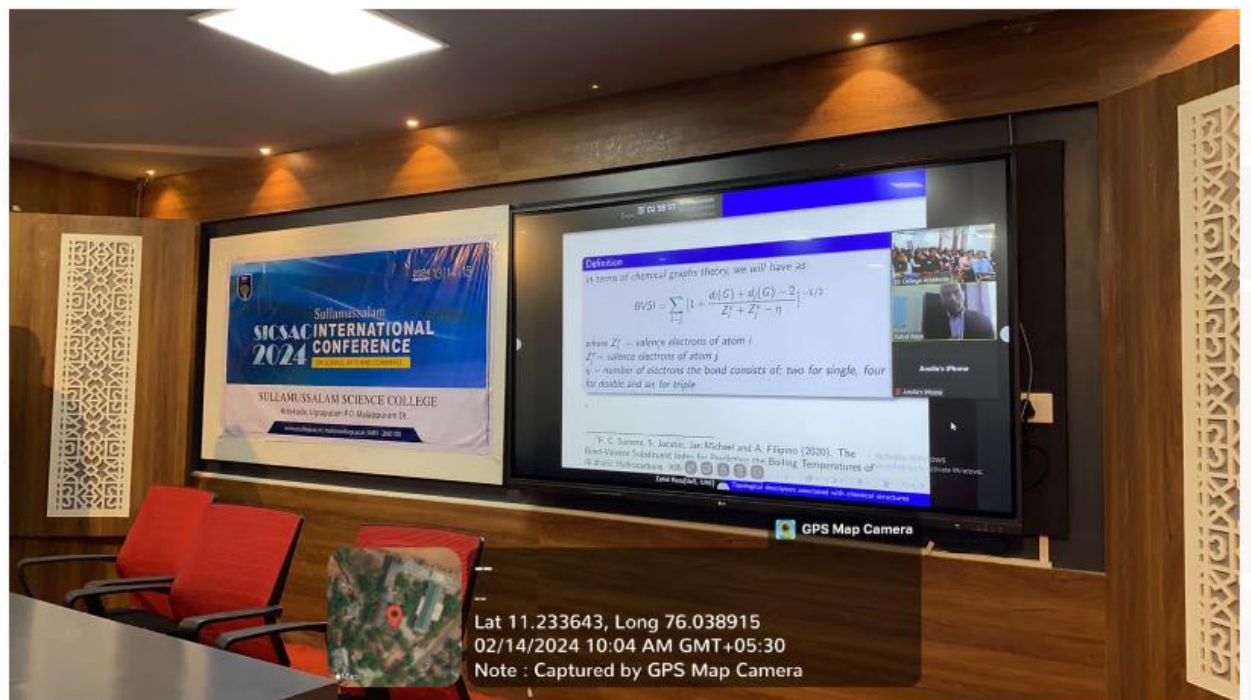
3	Hiba C.K ,Dr.Fazeela	Sullamussalam Science College, Areekode	Graph theory: Applications
4	Hiba Fathima, Fathima Nouseen, Nahila, Salva K, Murshidha, Dr. Fazeela.	Sullamussalam Science College, Areekode	EXISTENCE OF IDENTITY FOR A SUBNEARING:
5	Fathima Huda P, Irfan Ali AP, Nihad Vattappara, Arshad Bava M, Dr. Fazeela	Sullamussalam Science College, Areekode	APPLICATION OF NUMERICAL ANALYSIS IN REAL LIFE
6	Shamila K C, Fathima Nahla K M , Hasla P, Aysha Isma, Fathima Nesrin, Rushaida	Sullamussalam Science College, Areekode	EIGEN VALUES OF FIBONACCI AND LUCAS NUMBERS
7	Jasna Jabin P ,Farsana K, Farsana KP,Dr.Fazeela	Sullamussalam Science College, Areekode	Fibonacci periods in symmetric groups
8	Jisna VP, Thahirathunnisa K, Binsiya KP, Thashila fahim MT, Dr. Fazeela	Sullamussalam Science College, Areekode	ASYMPTOTIC BEHAVIOR OF NUMBER THEORETIC FUNCTIONS
9	Shifna. V, Nidha Hanan .C. C, Safeela Nasrin. A. P, Ansila Thaleykkara, Siyana Jabin. K, Dr. Fazeela	Sullamussalam Science College, Areekode	TYPES OF ARCS IN FUZZY GRAPH
10	Riya Sherin TT, Archana PC, Diya Sherin M, Farhana MP, Hyfa P, Dr. Fazeela	Sullamussalam Science College, Areekode	THE SPECIAL CLASS OF POLYNOMIAL FUNCTIONS

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Department of Mathematics  
Album

**Plenary Session 1:**

**Speaker:** Dr. Zahid Raza  
Associate Professor  
Department of Mathematics  
College of Sciences  
University of Sharjah.







**Plenary Session 2:**

**Speaker:** Dr. Muhammed Saeed K  
Assistant Professor  
Department of Mathematics  
NIT Calicut.







**Paper Presentation Sessions :**

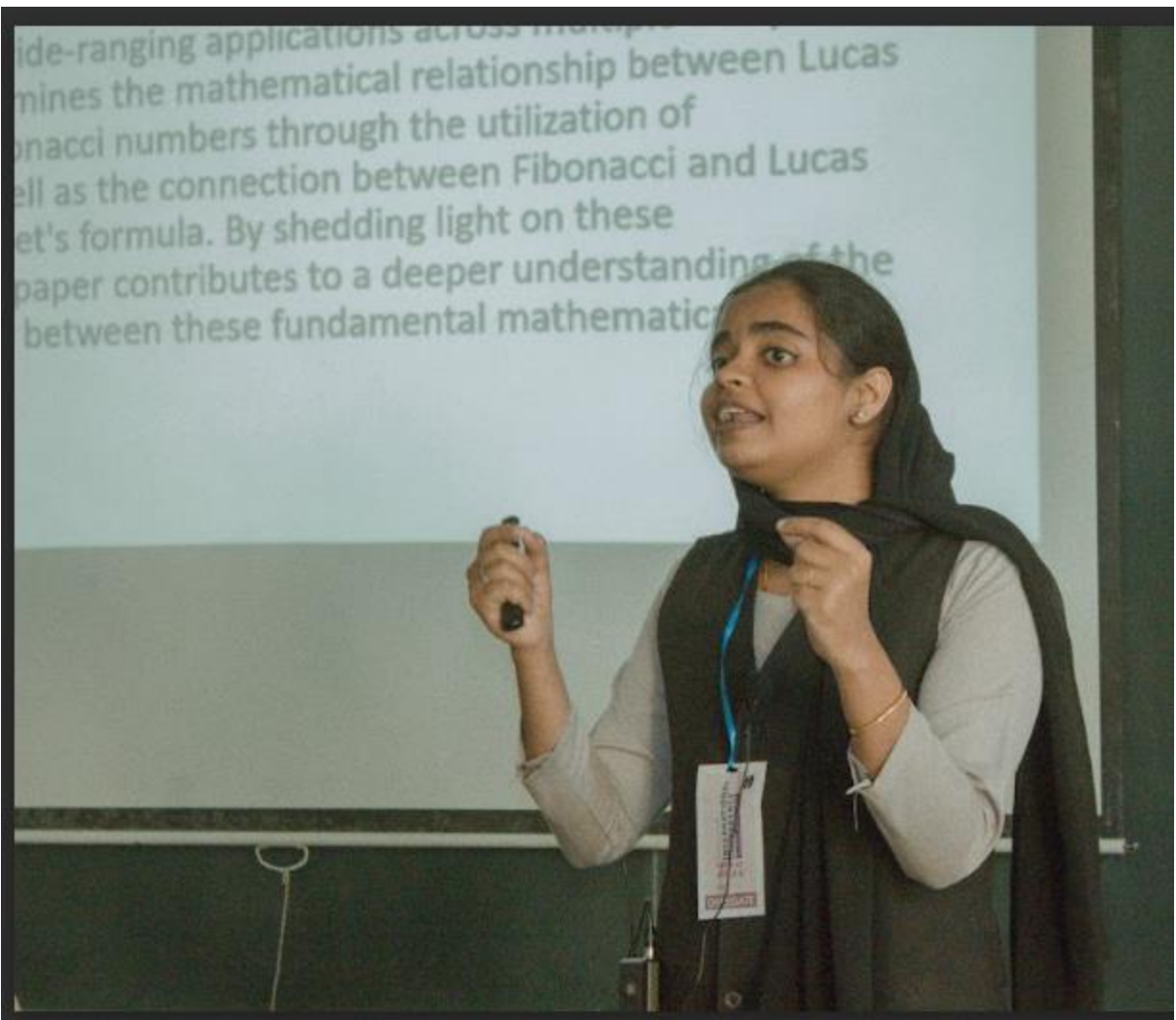






























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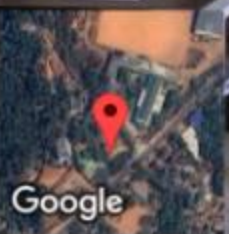


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