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MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
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PROGRAMME REPORT ON

Six- Day FDP on Exploring Cutting-Edge Mathematics Innovations

Resource Persons

Dr. TN. Shanmugam

Former Professor of Mathematics, Anna University
Founder Director, Centre for Intellectual Property Rights
Founder Dean, University College of Engineering Kanchipuram

Dr. V. Ravichandran

Professor of Mathematics,
National Institute of Technology, Trichy

Dr. B. Mohamed Harif

Assistant Professor of Mathematics
Rajah Serfoji Government College, Thanjavur

Dr. S. Buvaneswari

Associate Professor of Mathematics
Periyar Maniammai Institute of Science & Technology, Thanjavur

Organized by

Department of Mathematics

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Six- Day FDP on Exploring Cutting-Edge Mathematics Innovations
27th April, 2024 and 13th to 17th May, 2024

Organized by

Department of Mathematics in association with Institution's Innovation Council (IIC)

Objective of the Programme:

The primary objective of this Six-Day FDP on "Exploring Cutting-Edge Mathematics Innovations" is to enhance the knowledge and skills of faculty members by introducing them to the latest advancements and methodologies in mathematics. This program aims to bridge the gap between traditional mathematical approaches and modern innovations, fostering a deeper understanding and application of contemporary mathematical concepts in both teaching and research.

Specific Objectives:

To familiarize participants with recent developments and emerging trends in Complex Analysis and Abstract Algebra.

To develop effective pedagogical techniques that engage and inspire students in learning advanced mathematics.



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Prof. Dr. T.N. Shanmugam



Dr. S. Buvaneswari



Prof. Dr. V. Ravichandran



Dr. B. Mohamed Harif

You are invited to

**SIX-DAY FDP ON
EXPLORING CUTTING-EDGE
MATHEMATICS INNOVATIONS
27 April 2024 and 13 to 17 May 2024**

**Organized by Department of Mathematics
@ 10.00 am in DAWKIN'S HALL**

*Join us for a deep dive into the latest trends and breakthroughs
in the world of mathematics.*



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
KANCHIPURAM



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)



"HOTS in Mathematics"

Prof. Dr. T.N. Shanmugam

FORMER PROFESSOR OF MATHEMATICS , ANNA UNIVERSITY
FOUNDER DIRECTOR, CENTRE FOR INTELLECTUAL PROPERTY RIGHTS
FOUNDER DEAN, UNIVERSITY COLLEGE OF ENGINEERING KANCHIPURAM
27.04.2024 @ Dawkin's Hall

"Exploring Complex Analysis: A Comprehensive Tutorial"

Prof. Dr. V. Ravichandran

PROFESSOR OF MATHEMATICS
NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY
13.05.2024 & 14.05.2024



Video call link: <https://meet.google.com/nnj-rzby-efr>



"Complex Analysis : Tutorial"

Dr. S. Buvaneswari

ASSOCIATE PROFESSOR OF MATHEMATICS
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY
15.05.2024

Video call link: <https://meet.google.com/nnj-rzby-efr>

"Abstract Algebra with its related problems"

Prof. B. Mohamed Harif

ASSISTANT PROFESSOR OF MATHEMATICS
RAJAH SERFOJI GOVERNMENT ARTS COLLEGE, TRICHY
16.05.2024 & 17.05.2024
@ LH ED 307 & LH TBI 331



Coordinators : DR. B. SRIDEVI (8667634196) & Dr. R. BALAKUMAR (9940757835).

**SIX-DAY FDP ON EXPLORING CUTTING-EDGE
MATHEMATICS INNOVATIONS**

27 April 2024 and 13 to 17 May 2024

Organized by Department of Mathematics

4/25/24, 10:51 AM

Periyar Maniammai University Mail - Invitation- FDP on Exploring Cutting-Edge Mathematics Innovations begins @ 10 am in...



Head Maths <headmaths@pmu.edu>

Invitation- FDP on Exploring Cutting-Edge Mathematics Innovations begins @ 10 am in Marie Curie Hall on 27.04.24 - (Venue Changed from Dawkins Hall to Marie Curie Hall) - Reg

1 message

Head Maths <headmaths@pmu.edu>

Thu, Apr 25, 2024 at 10:49 AM

To: HOD ARCH <headarch@pmu.edu>, Head Civil <headce@pmu.edu>, Head Aero <headaero@pmu.edu>, HOD EEE <headeee@pmu.edu>, HOD BIOTECH <headbio@pmu.edu>, Head ECE <headece@pmu.edu>, HEADMECH <headmech@pmu.edu>, HOD CSE <headcse@pmu.edu>, headmca <headmca@pmu.edu>, headphy <headphysics@pmu.edu>, Head Political <headpoliticalscience@pmu.edu>, headchemistry <headchemistry@pmu.edu>, head social <headsocialwork@pmu.edu>, head commerce <headcommerce@pmu.edu>, headedu@pmu.edu, Head Maths <headmaths@pmu.edu>, Head MBA <headmba@pmu.edu>, headse@pmu.edu, maghesh.d@pmu.edu, pmiststaff@pmu.edu

Dear Sir / Madam,

Greetings of the day.

I would like to inform you that a Faculty Development Programme (FDP) on EXPLORING CUTTING-EDGE MATHEMATICS INNOVATIONS is scheduled on 27/04/24 at 10 am in Dawkins hall, PMIST. All interested faculty members are invited.

*Thanking You

*Thanking You

**-----

With Regards

Dr.S.Buvaneshwari,M.Sc.,B.Ed.,M.PHIL.,MCA.,Ph.D

Associate Professor & Head

Department of Mathematics

Faculty of Humanities, Sciences & Management

4/25/24, 10:52 AM

Periyar Maniammai University Mail - Invited Speaker



Head Maths <headmaths@pmu.edu>

Invited Speaker

1 message

Head Maths <headmaths@pmu.edu>

Tue, Apr 23, 2024 at 4:23 PM

To: Tirunelveli Nellaiappan Shanmugam <drtns2008@gmail.com>

Respected Sir

Greetings!

On behalf of the Department of Mathematics we cordially invite you for the Faculty Development Programme on 27.04.24 at 10.00am in Dawkins Hall, PMIST.

We are eagerly waiting to hear your presentation.

*Thanking You

**-----

With Regards

Dr.S.Buvaneswari,M.Sc.,B.Ed.,M.PHIL.,MCA.,Ph.D

Associate Professor & Head

Department of Mathematics

Faculty of Humanities, Sciences & Management

Department of Mathematics

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“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations” 27th April 2024 and 13th – 17th, May 2024

PROGRAMME SCHEDULE

Day 1: 27.04.2024

Welcome Address

: **Dr. B. Sridevi**
Assistant Professor
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

Presidential Address

: **Dr. S. Buvaneswari**
Associate Professor & Head
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

Introduction of Chief Guest Dr. T.N. Shanmugam

: **Dr. S. Dilip Jose**
Assistant Professor
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

FDP begins at 10.00 am and ends at 2.30 pm on 27.04.2025 @ Dawkins Hall

: **HOTS in Mathematics**
Dr. T.N. Shanmugam
Former Professor of Mathematics,
Anna University
Founder Director,
Centre for Intellectual Property Rights
Founder Dean,
University College of Engineering Kanchipuram

- Day 2 : 13.05.2024**
- Introduction of Chief Guest**
Dr. V. Ravichandran & Dr. B. Mohamed Harif
 : **Dr. C. Vimala**
 Associate Professor
 Department of Mathematics
 Periyar Maniammai Institute of Science &
 Technology, Vallam, Thanjavur
- Session begins at 2.00 pm and ends at 5.00 pm on 13.05.2024**
<https://meet.google.com/nnj-rzby-efr>
 : **Exploring Complex Analysis: A Comprehensive Tutorial**
Dr. V. Ravichandran
 Professor of Mathematics
 NIT, Trichy.
- Day 3 : 14.05.2024**
- Session begins at 2.00 pm and ends at 5.00 pm on 14.05.2024**
<https://meet.google.com/nnj-rzby-efr>
 : **Exploring Complex Analysis: A Comprehensive Tutorial**
Dr. V. Ravichandran
 Professor of Mathematics
 NIT, Trichy.
- Day 4 : 15.05.2024**
- Session begins at 2.00 pm and ends at 5.00 pm on 15.05.2024**
<https://meet.google.com/nnj-rzby-efr>
 : **Complex Analysis**
Dr. S. Buvaneswari
 Associate Professor & Head
 Department of Mathematics
 Periyar Maniammai Institute of Science &
 Technology, Vallam, Thanjavur
- Day 5 : 16.05.2024**
- Session begins at 2.00 pm and ends at 5.00 pm on 16.05.2024 @ LH ED 307**
 : **Abstract Algebra with its related problems**
Dr. B. Mohamed Harif
 Assistant Professor of Mathematics
 Rajah Serfoji Government Arts College, Thanjavur
- Day 6 : 17.05.2024**
- Session begins at 2.00 pm and ends at 5.00 pm on 17.05.2024 @ LH TBI 331**
 : **Abstract Algebra with its related problems**
Dr. B. Mohamed Harif
 Assistant Professor of Mathematics
 Rajah Serfoji Government Arts College, Thanjavur
- Vote of thanks**
 : **Dr. R. Balakumar**
 Assistant Professor
 Department of Mathematics
 Periyar Maniammai Institute of Science &
 Technology, Vallam, Thanjavur

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”
27th April 2024 and 13th – 17th , May 2024

Attendance Report

| | | |
|-------------------------------------|---|----|
| Number of Faculties (Male) | : | 04 |
| Number of Faculties (Female) | : | 11 |
| Number of Research Scholar (Male) | : | 01 |
| Number of Research Scholar (Female) | : | 05 |
| Total | : | 21 |

**“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”
27th April 2024 and 13th – 17th, May 2024**

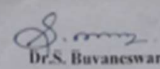
List of Participants

Department of Mathematics
Periyar Nagar, Valluvar, Thiruvananthapuram-611 005, Tamil Nadu India
Phone +91-4762-264000, Fax +91-4762-264000
Email: mathdept@pmu.ac.in Web: www.pmu.ac.in

PERIYAR
MANIAMMAI
UNIVERSITY

Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations
27th April, 2024 and 13th to 17th May, 2024
List of Participants

| Sl.No | Name of the Participants | Designation | Signature |
|-------|--------------------------|------------------|--------------------|
| 1. | Dr. S. Buvaneshwari | Asso. prof | <i>[Signature]</i> |
| 2. | Dr. A. Sasikala | Asso. Prof | <i>[Signature]</i> |
| 3. | Dr. C. Vimala | Asso. Prof | <i>[Signature]</i> |
| 4. | Dr. J. JAYANTHI | AP (SG) | <i>[Signature]</i> |
| 5. | K. BOSEKANDI | AP | <i>[Signature]</i> |
| 6. | Dr. R. Balakumar | AP/Maths. | <i>[Signature]</i> |
| 7. | Mr. M. Hanumanth | Research scholar | <i>[Signature]</i> |
| 8. | Dr. K. Selvaraj | AP/Maths | <i>[Signature]</i> |
| 9. | Dr. N. Balaraman | AP/Maths | <i>[Signature]</i> |
| 10. | Dr. B. Sridhar | AP/Maths | <i>[Signature]</i> |
| 11. | Dr. R. Arumugam | AP/Maths | <i>[Signature]</i> |
| 12. | Ms. B. Sri Rajani | Research Scholar | <i>[Signature]</i> |
| 13. | Ms. V. Prasila | " | <i>[Signature]</i> |
| 14. | Dr. P. Geetha | AP (SS) | <i>[Signature]</i> |
| 15. | Dr. P. N. Sudha | AP/Maths | <i>[Signature]</i> |
| 16. | Dr. S. Dilip Jale | AP/Maths | <i>[Signature]</i> |
| 17. | P.N. KAMALAR | Research scholar | <i>[Signature]</i> |
| 18. | R. NITHYA | Research scholar | <i>[Signature]</i> |
| 19. | N. ANUSHA | AP/Maths | <i>[Signature]</i> |
| 20. | P.V. JAYARAJAN | Asso. Prof/Maths | <i>[Signature]</i> |
| 21. | S. Vandini | Research scholar | <i>[Signature]</i> |


Dr. S. Buvaneshwari
 Head, Department of Mathematics

1. *[Signature]*
 2. *[Signature]*
Coordinator(s)

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”

27th April 2024 and 13th – 17th, May 2024

Organized by

Department of Mathematics in association with Institution’s Innovation Council (IIC)

Report

Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations has been arranged by Department of Mathematics in association with Institution’s Innovation Council on 27.04.2024 and 13.05.2024 to 17.05.2024 at Periyar Maniammai Institute of Science & Technology (PMIST), Deemed to be University, Vallam, Thanjavur headed by Dr. S. Buvanewari, Head and Associate Professor of Mathematics.

Dr. B. Sridevi has welcomed the gathering, Prof. Dr. S. Kumaran and Dr. C. Vimala have introduced our Guests Prof. Dr. TN Shanmugam, Prof. Dr. V. Ravichandran and Dr. B. Mohamed Harif on this occasion. End of the session Dr. R. Balakumar, Assistant Professor of Mathematics has delivered vote of thanks for this event. Exactly 06 research scholars and 15 faculty members were participated in this FDP.

The Faculty Development Program (FDP) titled "Exploring Cutting Edge Mathematics Innovation" was successfully conducted over six days, bringing together experts and educators to delve into advanced topics in mathematics. The sessions aimed to enhance participants' understanding and teaching methodologies in higher order mathematics. Below is a detailed report of each session.

Day 1: Higher Order Thinking Skills in Mathematics

Speaker: Prof. TN Shanmugam

Overview: Prof. TN Shanmugam led the first session, focusing on developing higher-order thinking skills in mathematics. He emphasized the importance of moving beyond basic memorization and calculation to foster critical thinking, problem-solving, and analytical reasoning among students.

Key Points:

- Strategies to cultivate higher-order thinking skills.
- Importance of inquiry-based learning and problem-solving techniques.
- Examples of higher-order thinking tasks and assessments in mathematics.
- Role of teachers in guiding students to develop these skills.

Day 2 & 3: Exploring Complex Analysis: A Comprehensive Tutorial

Speaker: Prof. V. Ravichandran

Overview: V. Ravichandran presented a thorough tutorial on complex analysis, introducing participants to the fundamental concepts and advanced topics within this field. His session was designed to provide a deep understanding of complex functions, integration, and series.

Key Points:

- Introduction to complex numbers and their properties.
- Detailed exploration of complex functions and mappings.
- Techniques for complex integration and contour integration.
- Applications of complex analysis in various fields.

Day 4: Complex Analysis

Speaker: Dr. S. Buvanewari

Overview: Dr. S. Buvanewari continued the discussion on complex analysis, delving into more specific and advanced topics. Her session aimed to build on the foundation laid by Prof. V. Ravichandran, offering further insights and problem-solving strategies.

Key Points:

- Advanced topics in complex analysis, including residue theorem and its applications.
- Conformal mappings and their significance.
- Analytical continuation and its implications.

- Real-world applications of complex analysis.

Day 5 & 6: Abstract Algebra with Its Related Problems

Speaker: Dr. B. Mohamed Harif

Overview: Dr. B. Mohamed Harif conducted an engaging session on abstract algebra, focusing on both theoretical aspects and problem-solving techniques. The session was designed to help participants grasp the abstract nature of algebraic structures and their practical applications.

Key Points:

- Introduction to groups, rings, and fields.
- Important theorems and proofs in abstract algebra.
- Problem-solving strategies for algebraic problems.
- Applications of abstract algebra in cryptography, coding theory, and other fields.

Day 6: Closing and Feedback

The final day was dedicated to summarizing the key takeaways from the FDP, sharing participant experiences, and gathering feedback. Highlights included:

- **Participant Presentations:** Attendees presented what they had learned and how they planned to apply it in their teaching.
- **Feedback Session:** Constructive feedback was collected to improve future FDPs.

Conclusion:

The six-day FDP on "Exploring Cutting Edge Mathematics Innovation" was a resounding success, providing participants with advanced knowledge and skills in higher order thinking, complex analysis, and abstract algebra. The expertise of the speakers and the interactive format of the sessions ensured a valuable and enriching experience for all attendees.

Recommendations:

- Follow-up workshops or advanced courses on specific topics covered in the FDP.
- Creation of collaborative platforms for participants to discuss and solve mathematical problems.
- Implementation of higher-order thinking skill strategies in the curriculum to improve students' mathematical capabilities.

Acknowledgments

We extend our gratitude to Dr. T.N. Shanmugam, Prof. V. Ravichandran, Dr. S. Buvaneswari and Dr. B. Mohamed Harif for their invaluable contributions. Their insights and dedication significantly enhanced the quality of the program. We also thank all the participants for their active engagement and enthusiasm throughout the FDP.

**SIX-DAY FDP ON
EXPLORING CUTTING-EDGE
MATHEMATICS INNOVATIONS**
27 April 2024 and 13 to 17 May 2024



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09_Programme Report

CERTIFICATE OF APPRECIATION

This is to certify that

{Name}

Institute Name

has participated in the "Six- Day FDP on Exploring Cutting-Edge Mathematics Innovations"
organized by Department of Mathematics , Periyar Maniammai Institute of Science &
Technology, Deemed to be University, Vallam, Thanjavur on 27.04.2024 and 13.05.2024 to
17.05.2024

Dr. R. Balakumar
Co-Ordinator

Dr. S. Buvaneswari
Head- Mathematics

Dr. P. Vijayalakshmi
Dean (i/c) - FHSM

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”

27th April 2024 and 13th – 17th, May 2024



Fig.1. Prof. TN. Shanmugam has delivered lecture about HOTS in Mathematics on 27.04.24

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”

27th April 2024 and 13th – 17th, May 2024

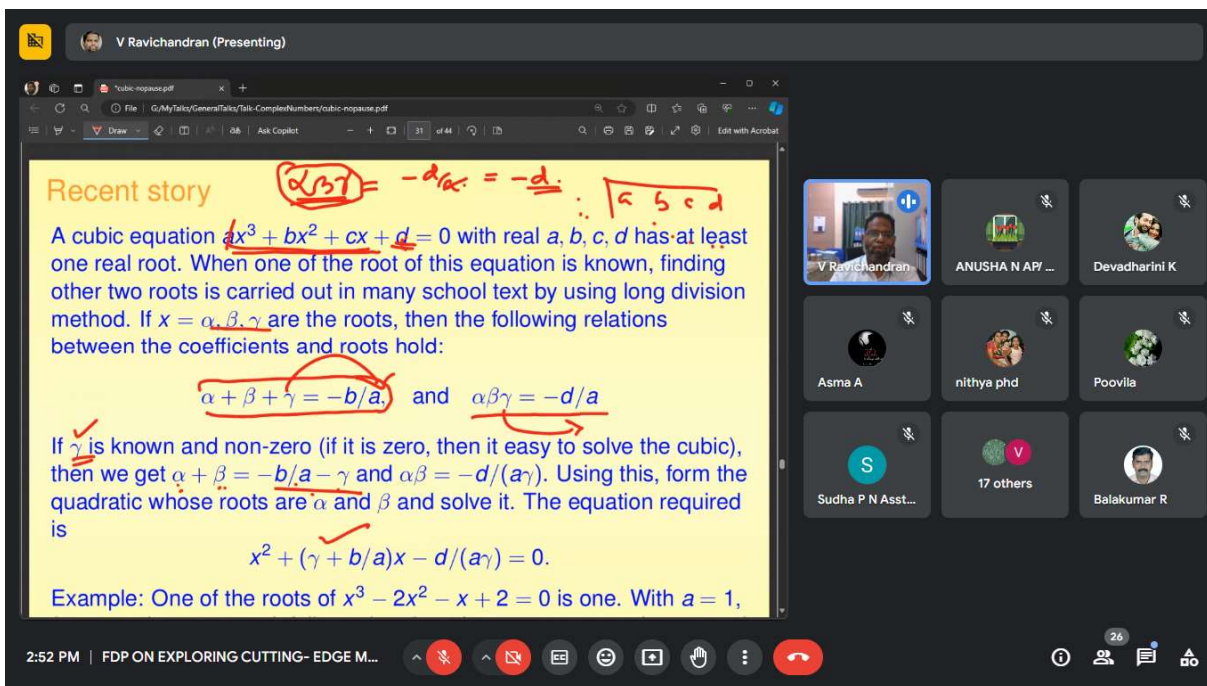
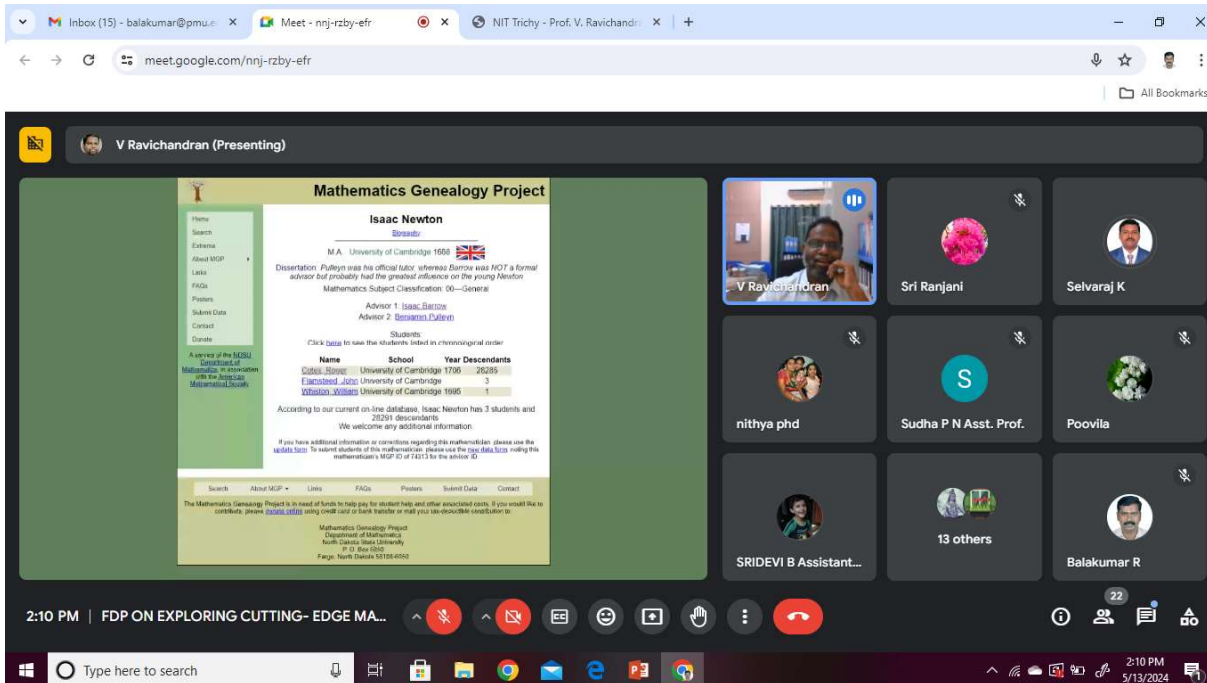


Fig.2. Prof. V. Ravichandran has delivered lecture about Complex Analysis on 13.05.24 and 14/05.24

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”
27th April 2024 and 13th – 17th, May 2024

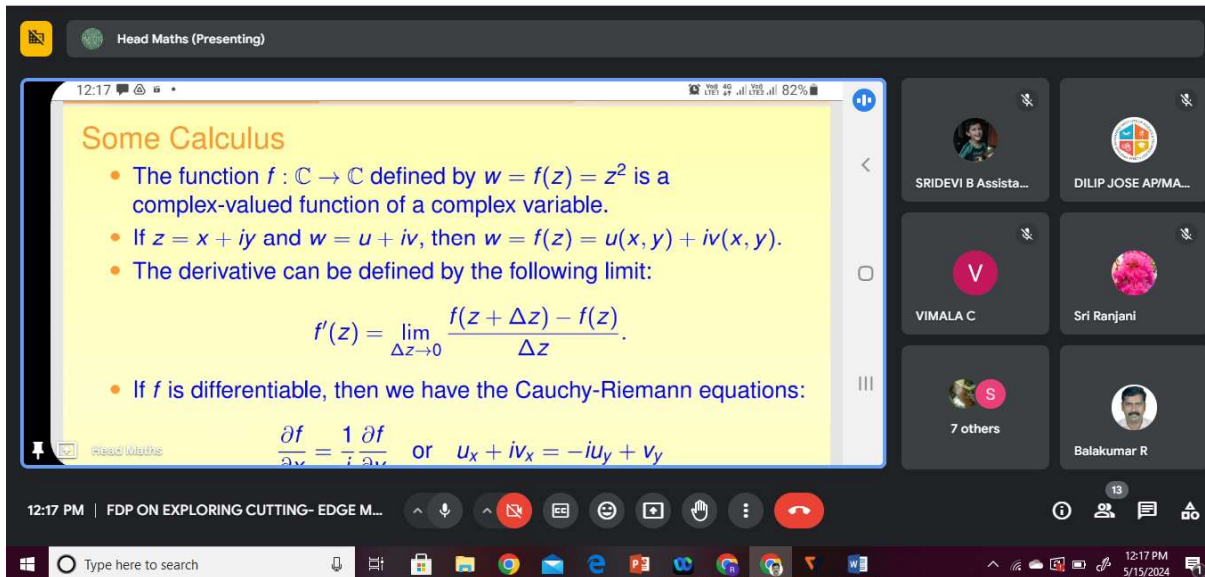
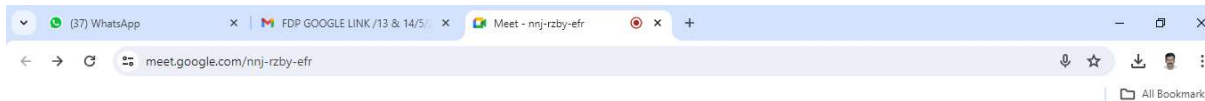
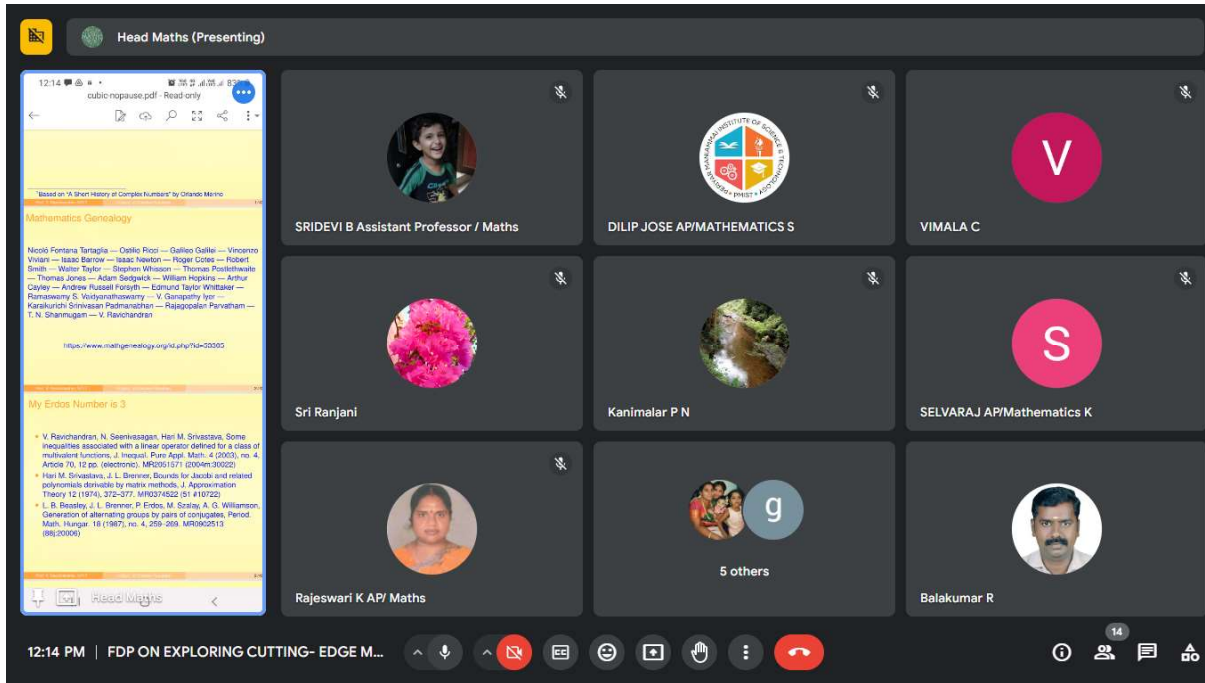
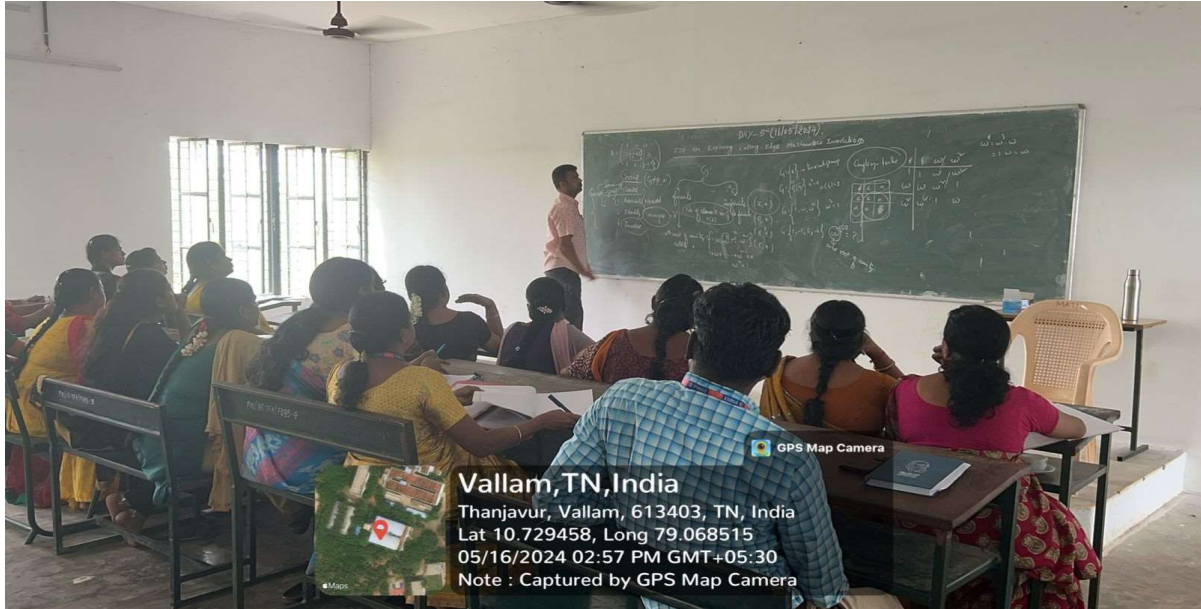
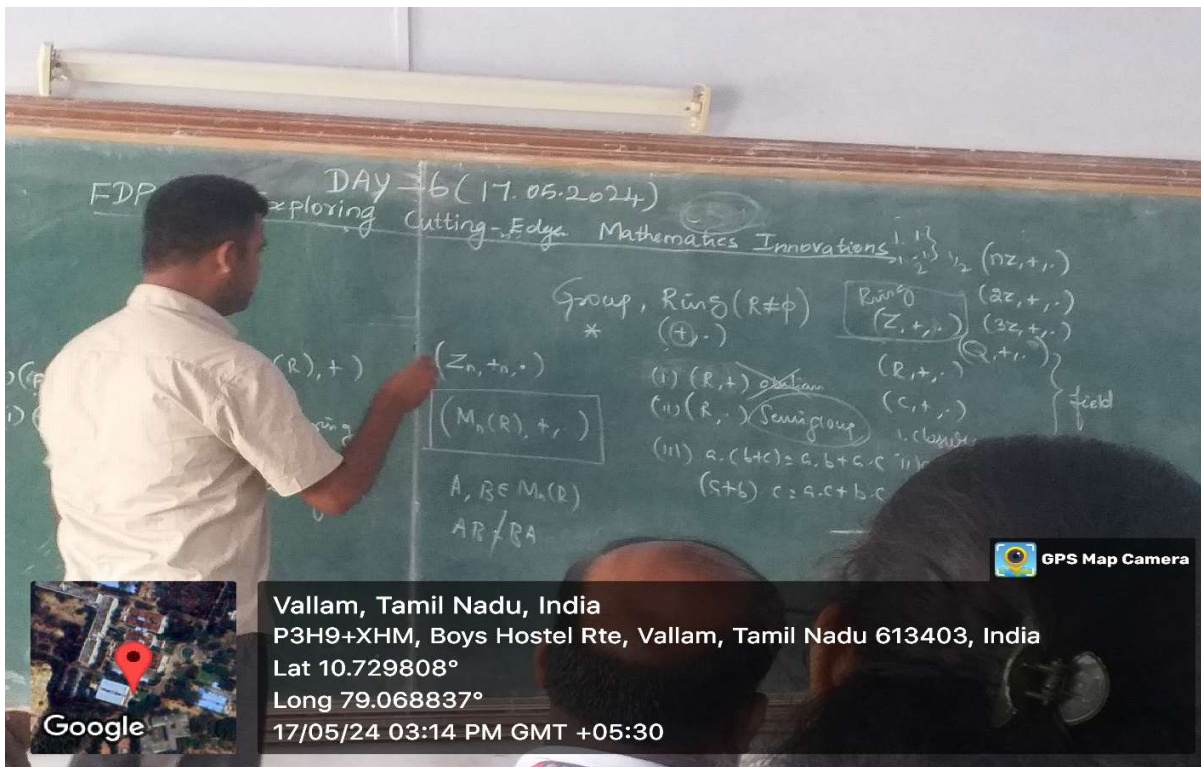


Fig.3. Dr. S. Buvaneswari has delivered lecture about Calculus on 15.05.24

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”
27th April 2024 and 13th – 17th, May 2024



Vallam, TN, India
 Thanjavur, Vallam, 613403, TN, India
 Lat 10.729458, Long 79.068515
 05/16/2024 02:57 PM GMT+05:30
 Note : Captured by GPS Map Camera



Vallam, Tamil Nadu, India
 P3H9+XHM, Boys Hostel Rte, Vallam, Tamil Nadu 613403, India
 Lat 10.729808°
 Long 79.068837°
 17/05/24 03:14 PM GMT +05:30

Fig.4. Dr. B. Mohamed Harif has delivered lecture about Abstract Algebra on 16.05.24 and 17.05.24

FDP on Exploring Cutting-Edge Mathematics Innovations - 27.04.24 and 13.05.24 to 17.05.24

Department of Mathematics

* Indicates required question

1. Name of the Participant *

2. Affiliation *

3. Designation

4. e. mail *

5. Whatsup Number *

6. How would you rate the overall quality of the FDP on exploring cutting-edge mathematics innovations? *

Mark only one oval.

1 2 3 4

Sati Excellent

7. How would you rate the balance between theoretical content and practical applications in the FDP sessions?

Mark only one oval.

1 2 3 4

Sati Excellent

8. Were the sessions well-organized and effectively delivered? *

Mark only one oval.

Strongly disagree

Disagree

Neutral

Agree

Strongly agree

9. Did the speakers demonstrate expertise and provide valuable insights into cutting-edge mathematics innovations?

Mark only one oval.

1 2 3 4

Sati Excellent

10. *In what ways has the Faculty Development Program on exploring cutting-edge mathematics innovations influenced your teaching methods or research approach? Please provide specific examples and suggestions for further improvement.* *

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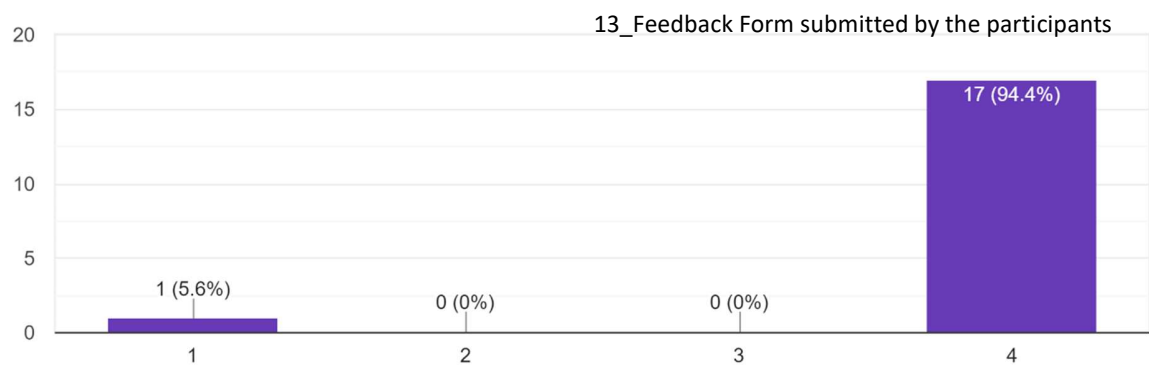
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FDP on Exploring Cutting-Edge Mathematics Innovations - 27.04.24 and 13.05.24 to 17.05.24

Department of Mathematics

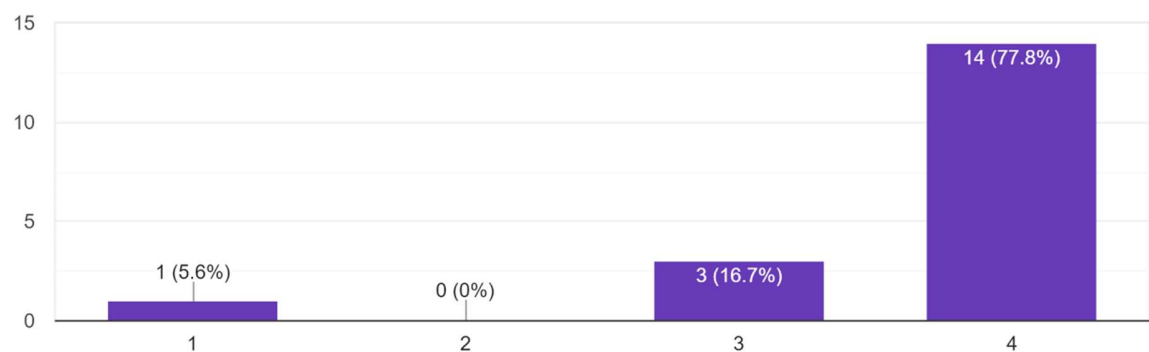
How would you rate the overall quality of the FDP on exploring cutting-edge mathematics innovations?

18 responses



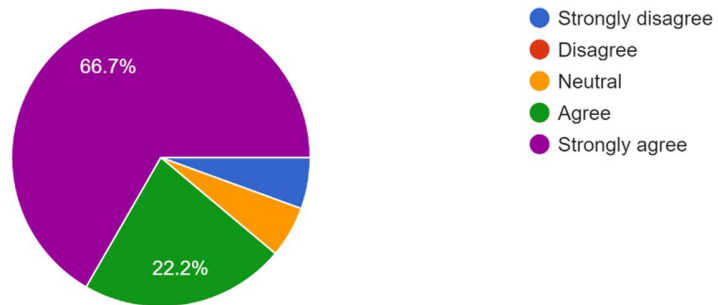
How would you rate the balance between theoretical content and practical applications in the FDP sessions?

18 responses



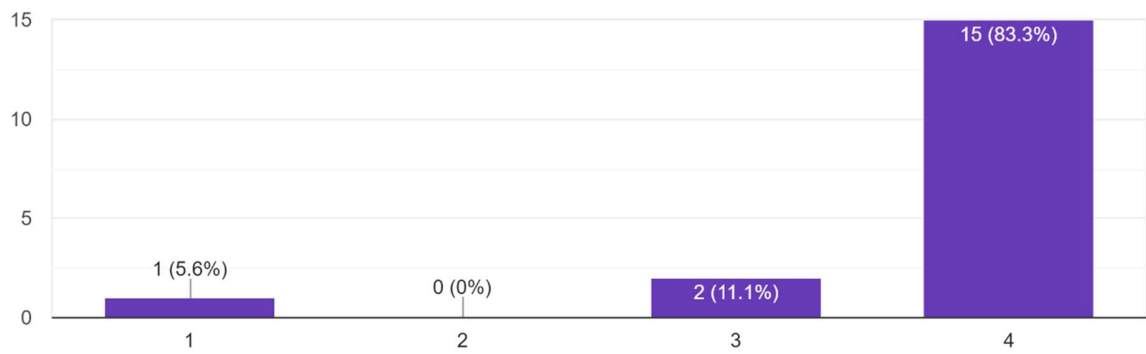
Were the sessions well-organized and effectively delivered?

18 responses



Did the speakers demonstrate expertise and provide valuable insights into cutting-edge mathematics innovations?

18 responses



In what ways has the Faculty Development Program on exploring cutting-edge mathematics innovations influenced your teaching methods or research approach? Please provide specific examples and suggestions for further improvement.

18 responses

Nil

-

Its very motivating

Inspired by the FDP, I have shifted my research focus towards practical applications of theoretical mathematics. This includes exploring solutions to abstract algebra and complex analysis, This areas of research has not only increased the relevance of my work but also attracted interest.

This program provided a foundation for approaching the national level exams

From this FDP I have learned many things: groups, subgroups, ring, field and vector space. Also I have learned how to crack set/net examinations. Thank you very much for organizing such a fruitful programme.

Yes

Suggestions-Nil-

It's really informative

Very interesting and useful

This FDP helps to study and solve maths in different ways. Kindly arrange more FDP like this

Very useful information in this session and valuable insights

All good

Organize like this FDP oftenly

Increase this type program

“Six-Day FDP on Exploring Cutting-Edge Mathematics Innovations”

27th April 2024 and 13th – 17th , May 2024

Organized by

Department of Mathematics in association with Institution’s Innovation Council (IIC)

Outcomes of the programme:

Upon successful completion of this FDP, the participants


- Developed a thorough understanding of higher-order thinking skills (HOTS) and their importance in mathematical problem-solving and teaching.
- Revisited and strengthened their knowledge of the fundamental concepts of complex analysis.
- Strengthened understanding of core concepts such as groups, rings, and fields.
- Created networking opportunities for faculty members to connect with peers and experts in the field of mathematics.



Dr. R. Balakumar



Dr. B. Sridevi



Assoc. Professor & Head
Department of Mathematics
Periyar Maniammai
Institute of Science & Technology
Periyar Nagar, Vallam, Thanjavur-613 403.