

NEWSLETTER

Vol. 4

INTRODUCTION

The Department of Mathematics, being a part of the Basic Science and Humanities department until 2020, likely played a significant role in providing foundational mathematics courses and elective courses to students pursuing various engineering and technology programs at RSET. However, with its establishment as a separate department in 2020, it is likely to start a center for Topology & Application and research opportunities.

ADD-ON COURSES

Department of Mathematics and The Center for Topology and Applications (CETA) offers a diploma programme 'Diploma in Mathematics for Data Science' and 4 certificate courses as part of it.

Academic Year	Course/ Diploma	Course Name	Start Date	End Date	No of students	No of students passed
2021-2022	Diploma	Mathematics for Data Science	4th October 2021	30th March 2023	17	17
	Course	Linear Algebra for Data Science	1st October 2021	30th November 2022	3	3
	Course	Topological Data Analysis	15th January 2022	4th March 2022	4	4
	Course	Statistical Foundations For Data Science	1st August 2022	31st October 2022	2	1
2022-2023	Diploma	Mathematics for Data Science	29th May 2023	Ongoing	5	

SUMMER INTERNSHIP

SL.NO	ACADEMIC YEAR	NUMBER OF STUDENTS ENROLLED
1	2022-2023	9

RESEARCH PROMOTION ACTIVITIES

SL. NO	EVENTS	EVENT TYPE	PERIOD	SOURCE OF FUNDING
1	International Conference on Mathematics of Intelligent Computing and Data Science (ICMICDS)	Hybrid mode	15 th September,2022 to 17 th September,2022	NBHM
2	FDP on Analysis and algebra	OFFLINE	21 st March,2023 to 25 th March,2023	Outstanding amount of ICMICDS
3	FDP (PYTHON & LATEX)	OFFLINE	4 th August,2023	
4				

SEMINARS/WORKSHOPS/FDPS ATTENDED BY FACULTY

FDP				
Sl.No	Topic	Organized By	Duration	Attended By

DEPARTMENT OF MATHEMATICS

1	Applied Engineering In Environmental Protection: Relevance Of Green Technology	Dept. Of Science & Humanities Of Sngce	3 Days; 28-30 July,2021	Radhika Das
2	Mathematics For Machine Learning	College Of Engineering Trivandrum, Department Of Computer Science And Engineering	30/6/2021 To 16/7/2021	Radhika Das Bindu V A
3	Essential Mathematics For Machine Learning	Nptel Swayam	12 Weeks	Bindu V.A
			July To October	
4	Inculcating Universal Human Values In Technical Education	Aicte	11-04-2022	Dr. Ramkumar P.B Dr. Deepthi Mary Tresa S Ms. Arya M V
5	Engineering Mathematics Ii	Iit Kharagpur (Nptel)	12-01-2022 To 12-03-2022	Dr. Binu R
6	Inculcating Universal Human Values in Technical Education (UHV I)	AICTE	31-05-2021 to 04-06-2021	Dr. Binu R

WORKSHOP

No.	Topic	Organized By	Duration	Attended By
1	Third National Workshop On Linear Algebra 2021 (Online)	Department Of Mathematics, Ssn College Of Engineering, Kalavakkam	2 Days	Abraham Jacob
			5th August -6th August,2021	

CONFERENCE

No.	Topic	Organized By	Duration	Attended By
-----	-------	--------------	----------	-------------

DEPARTMENT OF MATHEMATICS

1	International Conference On Mathematics, Statistics And Data Science		26-02-2022 To 27-02-2022	Dr. Vinod Kumar P.B
SEMINAR				
No.	Topic	Organized By	Duration	Attended By
1	An International Level Lecture Series On Wavelet Transforms And Image Processing	Post Graduate Department Of Mathematics Al Ameen College, Edathala-683564	4 Days 9th August -12th August,2021	Abraham Jacob
2	Mathematics Of Face Recognition	Post Graduate And Research Department Of Mathematics, Maharajas College	6 th November,2021	Radhika Das

2022-23

CONFERENCE

Sl. No	TOPIC	ORGANIZED BY	DURATIO N	ATTENDED BY
1	International Conference On Mathematics Of Intelligent Computing And Data Science	Dept. Of Mathematics And Ceta Rset	15/09/22 To 17/09/22	Dr. Ramkumar P B Anisha Anilkumar Vinmol K Jesudas Bindu V A Reya Kuruvila Menny M N Radhika Das Dr. Binu R P R Neethu Arya M V
2	International Conference On Analysis And Number Theory	Dept. Of Mathematcis,Ayya Nadar Janaki Ammal College, Sivakasi.	27/10/022 To 29/10/2022	Radhika Das Bindu V A Vinmol K Jesudas

DEPARTMENT OF MATHEMATICS

3	DST-SERB Sponsored International Conference on the Recent Trends in Applications of Mathematics(ICRTAM-2023)	Department of Science and Humanities, FISAT, Angamaly	23/2/2023 to 25/02/2023	Abraham Jacob
4	2 nd International Conference on Computational Sciences, Modelling, Computing and Soft Computing	MIT Manipal	28-03-2022 to 30-03-2022	Dr. Binu R

WORKSHOP

Sl. No	TOPIC	ORGANIZED BY	DURATIO N	ATTENDED BY
1	RIDHI 22	RSET	17/10/2022 to 26/10/2022	Dr. Ramkumar P B Anisha Anilkumar Vinmol K Jesudas Bindu V A Reya Kuruvila Menny M N Radhika Das Dr. Binu R P R Neethu Arya M V Dr. Deepthi Mary Tresa S

FDP

Sl. No	TOPIC	ORGANIZED BY	DURATIO N	ATTENDED BY
1	Analysis and Algebra	Dept. of Mathematcis and CETA,RSET	21/03/2023 to 25/03/2023	Dr. Ramkumar P B Anisha Anilkumar Vinmol K Jesudas Bindu V A Reya Kuruvila Menny M N Radhika Das Dr. Binu R P R Neethu Arya M V Dr. Deepthi Mary

DEPARTMENT OF MATHEMATICS

				Tresa S
11	UHV II	AICTE	10/04/2023 to 15/04/2023	Radhika Das Dr. Binu R
13	UHV I	AICTE	20/02/2023 to 24/02/2023	PR Neethu
14	Matrix Analysis with Applications	NPTEL-AICTE	25/07/2022 to 30/09/2022	Arya M V P R Neethu

WEBINAR

Sl. No	TOPIC	ORGANIZED BY	DURATIO N	ATTENDED BY
1	STEP 3	Dept. of Mathematics and CETA RSET	24-11-2022	Dr. RAMKUMAR P B
2	Recent Trends and Applications of Mathematics	Department of Computational Science and Humanities, Indian Institute of Information Technology, Kottayam	28-09-2022	Arya M V

SEMINAR

Sl. No	TOPIC	ORGANIZED BY	DURATIO N	ATTENDED BY
1	Topological Data Analysis	CUSAT and KMA	29-04-2023	Dr.Ramkumar P.B
2	Introduction to Mathematical Morphology	St. Joseph's college, Irinjalakuda	29-03-2023	Dr.Ramkumar P.B

FUNDED PROJECTS

SL.No	Project name	Funded by	Total grant Received (in INR)	Faculty	Status
1	On finite Iterated function systems in complete metric space and fractal ECG analysis	DST	10,04,000/-	Dr. Vinod Kumar Professor	Completed
2	On several definition of chaos	UGC	5,00,000/-	Dr. Vinod Kumar Professor	Completed
3	Chaotic model of sea clutter	DRDO	4,16,000/-	Dr. Vinod Kumar Professor	Completed

RESEARCH COLLABORATIONS WITH FOREIGN UNIVERSITIES

TRINITY UNIVERSITY, AUSTRALIA

BOOKS/BOOK CHAPTER PUBLISHED BY FACULTY

No	Title	Author	Publisher	Year of Publication	ISBN	Book to be attached
1.	Fractal, Chaos and Wavelets Proceedings of ICFW, 2013	Dr Vinod Kumar P.B. and Dr. Michael Bansley	Springer	2014	ISBN978-3-31908104-5	In dept
2.	Neutrosophic Theories in Communication, Management and Information Technology (chapter 17, 240-261)	Dr. Binu R	NOVA SCIENCE PUBLISHERS	2020	978-1-53617-485-4	In dept
3.	Neutrosophic Operational Research (Chapter 28, 615-630)	Dr. Binu R	SPRINGER	2021	978-3-030-57196-2	In dept

4.	Neutrosophic Algebraic Structures and their Applications (Chapter 15, 23 8-245)	Dr. Binu R	NSIA Publishing House, University of New Mexico USA	2022	978-1-59973-739-3	In dept
5.	Contemporary Research Trends In Mathematics (Page No. 169-175)	Ms. Radhika Das	Multi Spectrum Publications	2023	978-93-94428-82-9	In dept

LETTER OF COLLABORATION

The letter of collaboration is designed to foster a friendly relationship through mutual cooperation in teaching, learning and research between two institutions.

List of institutions that have a letter of collaboration with the Mathematics department at RSET

Sl.No	Institution	Date
1	St. Albert's College(Autonomous), Ernakulam	03-03-2023
2	St. Thomas College, Kozhencherry	01-11-2022
3	St. Teresa's College (Autonomous), Ernakulam	01-11-2022
4	Maharaja's College (Autonomous), Ernakulam	18-06-2019
5	Trinity University, USA (General Agreement) MOU	12-12-2018

CLUB ACTIVITIES- MATHS CLUB

The Mathematics Club, which was set up in 2002, aims at promoting the mathematical skills and sharpness of the students. Membership is open to all students with a strong affinity for mathematics. The activities of the club include quizzes, puzzles, video shows, projects, workshops etc. The activities of mathematics club are given below.

MATHEMATICS CLUB DAY CELEBRATIONS

YEAR :2022

Events Organized	No.of Participants	Date
Quiz competition	210	14/03/2022
Rapid fire	97	11/03/22
Paper Presentation.	21	11/03/22

YEAR:2023

Events Organized	No.of Participants	Date
Quiz competition	58	20/01/2023
Puzzle competition	21	18/01/23
Documentary making competition	11	18/01/23
