

**Department of Mathematics (SF)**  
**Activities of the Department**

**2017-2018**

<b>S.No.</b>	<b>Date</b>	<b>Title</b>	<b>Sponsored by</b>	<b>National/International</b>
1.	25.07.2017	Association Meeting- “Mathematics in Nature”	SF Fund	-
2.	09.10.2017	Guest Lecture - “Applications of Mathematics”	SF Fund	-
3.	31.01.2018	Workshop 1- “LATEX”	SF Fund	-
4.	01.02.2018	Workshop 2- “LINUX”	SF Fund	-
5.	02.02.2018	Workshop 3- “MATLAB ”	SF Fund	-
6.	08.03.2018	Guest Lecture- Applications of Graph Theory in Real Life Situations	Autonomous fund	-

**Papers Published**

<b>S.No.</b>	<b>Name of the authors</b>	<b>Title of the paper</b>	<b>Name of the Journal</b>	<b>Issue Page No. and Year</b>
1	G.Sindhu	On Nano Generalized $\beta$ Regular spaces and Nano Generalized $\beta$ Normal spaces.	Annals of Pure and Applied Mathematics	Vol 14, No.2, 2017,225-229

2	G.Sindhu	On Nano Generalized $\beta$ locally closed sets and Nano Generalized $\beta$ locally closed continuous functions in Nano Topological spaces.	International Journal of Advanced Research	Vol.5, No.7, 2017, 2310-2315
3	G.Sindhu	On Nano $(\tau_1, \tau_2)$ Generalized $\beta$ closed sets and Nano $(\tau_1, \tau_2)$ Generalized $\beta$ open sets in Nano Bitopological Spaces	International Journal of Mathematical Archive	Vol.8, No.8, 2017, 198-203
4	G.Sindhu	Decomposition of $rg^*b$ -Closed Sets in Supra Topological Spaces	International Journal of Trend in Research and Development	Vol 4, No.6,2017, 464-467
5	L.Elвина Mary	$(1,2)^* - \alpha^*$ - Continuous functions in Bi topological spaces	International journal of pure and applied mathematics	Vol 117 Issue 14 PgNo 83-90
6	A.Arokia Lancy	A note on Interval valued vague volterra space	Elixir Applied Mathematics	Vol 109C ,47800-47806
7	A.Arokia Lancy	A new class of interval valued vague space	International Journal of Engineering Technology and Management (IJETM)	Volume 4, Issue 5; September-October: 2017; Page No. 01-08
8	C.Priyadharshini Infanta	A comparative study of Fractal Dimension of Restrictive Lung Diseases	Nirmala Annual Research Congress	ISBN No: 978-93-5279-759-2 PgNo 136-139
9	Vaiyomathi .K	Infra generalized $b$ – closed sets in infra topological space	International journal of mathematics trends and technology	Vol 47 Issue 1 PgNo 56-65
10	Vaiyomathi .K	Infra generalized $b$ – continuous functions in infra topological space	International journal of engineering science and computing	Vol 7 Issue 7 PgNo 14087-14090
11	Vaiyomathi .K	Characterizations of infra $b$ – separations axioms in infra topological space	Nirmala Annual Research Congress	ISBN No: 978-93-5279-759-2 PgNo 162-167

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### Conference/Seminar/workshop/Guest lecture organized by the Department

S.No.	Title	Sponsored by	Date	National/International
1.	Association Meeting- “Applications of Mathematics”	SF Fund	09.10.2017	-
2.	Workshop 1- “LATEX”	SF Fund	31.01.2018	-
3.	Workshop 2- “LINUX”	SF Fund	01.02.2018	-
4.	Workshop 3- “MATLAB ”	SF Fund	02.02.2018	-
5.	Guest Lecture- Applications of Graph Theory in Real Life Situations	Autonomous fund	08.03.2018	-

### Papers presented in conference/Seminar

S. No	Date	Name of the Presenter	Designation (Student/Staff)	Title of the paper	Organized by	Title of the conference/Seminar/Workshop	National/International
1.	07.12.2017 and 08.12.2017	L.Elvin Mary	Assistant Professor	$(1,2)^* - \alpha^*$ - Continuous functions in Bitopological spaces	Bharathiar University	International conference on advances in applicable mathematics (ICAMM 2017)	International conference
2.	06.12.2017	C.Priyadharshini Infanta	Assistant Professor	A comparative study of Fractal Dimension of Restrictiv	Internal Quality Assurance Cell, Nirmala College for	Nirmala Annual Research Congress	National conference

				e Lung Diseases	Women, Coimbatore.		
3.	04.01.2018 To 06.01.2018	C.Priyadharshini Infanta	Assistant Professor	A Study of Structure Changes of Airway in Human Asthma using Fractal Dimension	PSG College of Technology	Third international conference on Applied Mathematical International conference Modeling	International conference
4.	06.12.2017	Vaiyomathi .K	Assistant Professor	Characterizations of infra b – separations axioms in infra topological space	Internal Quality Assurance Cell, Nirmala College for Women, Coimbatore.	Nirmala Annual Research Congress	National conference
5.	08.01.2018 and 09.01.2018	Vaiyomathi .K	Assistant Professor	A Basic Structure of nearly open sets in Neutrosophic crisp infra topological spaces.	Loyola College, Chennai.	International conference on computing science (ICCS 2018)	International conference

### Conference/Seminar/Workshop attended

S. No.	Date	Name of the Participants	Designation (Student/Staff)	Title of the conference/Seminar/Workshop	Organized by	National/International
1.	21.10.2017	Vaiyomathi. K	Assistant Professor	Workshop-Plagiarism Detection tools and Reference	Research cell and Faculty Development club	National

				management Tools		
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### Ph.D and M.Phil Produced and Ongoing

S.No	Name of the Supervisor	Guideship No.	Name of the Student	Title of the Thesis	Year	Status
1.	L.Elвина Mary	No:190- 2/A2/2005 Date:09/05/20 05	1.R.Sindhu	On (1,2) generalized semi pre- regularised sets in Bitopological spaces	2011	Completed
			2.M.Kanimozhi	Even Edge Graceful labeling for cycle,path, crown and complete graphs	2013	Completed
			3.D.Lavanya	Strong Edge Graceful labeling of some graphs	2013	Completed
			4.V.Leelavathy	Generalisation of compactness, Connectedness and separation axioms via pre open sets in Ideal topological spaces	2013	Completed
			5.E.L.Mary Tency	A study on (i,j) – (gs)*-closed sets in Bitopological spaces	2014	Completed

			6.K.Beulah	On $(sg)^*$ - closed sets in Topological spaces	2015	Completed
			7.R.Saranya	$(\alpha\pi)^*$ -closed sets in Topological spaces	2015	Completed
2	Vaiyomathi .K	No:7410/A2/2011 Date:19/04/2011	1. Nathiya.B	A Study on $\pi g^*b^*$ -closed sets in Topological spaces.	2016	Completed
			2. Athika.A	On Characterisation of soft $\pi g^*b^*$ - closed sets in soft Topological spaces.	2017	Completed

#### MoU (Memorandum of Understanding) Signed (NIL)

S.No.	Name of the Organization	Purpose	Period

#### Field Trip

S.No.	Places Visited	No. of students	No. of staff members
1.	Hyderabad	36	2

#### ✓ Future plan

- Increasing the number of publications by the Staff in international journals with high impact factors
- To organize National and International conferences every year.
- To organize intercollegiate competitions.

✓ **Best practice**

The students of the department with a motto of serving the society, practice contributing a small amount on Wednesdays of every week. At the end of the year, the contributions are granted to the charity homes. This year the students visited, “**Missionaries of Charity**” oldage home, Puliakulam,Coimbatore and offered snacks and fruits to the inmates.

