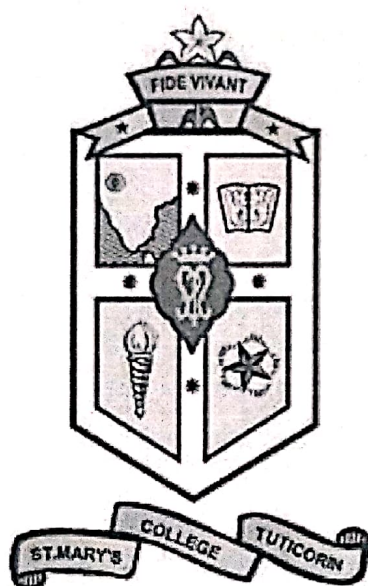# St. Mary's College (Autonomous)
(Re-accredited with 'A+' Grade by NAAC)
Thoothukudi.

Proforma For Renewal of Research Centre

PG and Research Department of Mathematics

April 2021

MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA

Inspection Commission Proforma for Recognition / Renewal of Research Centre

1. Name of the College/ Institution   : St.Mary's College(Autonomous), Thoothukudi

2. Head / Co-ordinator of the Research Centre : Dr. V.L.Stella Arputha Mary

3. Name of the Department   : Mathematics

4. Courses offered (like U.G., P.G., M.Phil) :

Name of the Course	Starting Year
U.G	1951(Aided) 2010(Self Supporting)
P.G.	2002 (Self Supporting)
M.Phil	2017(Self Supporting)
Ph.D	2015

5. List of Faculty Members now working (at present) : (Approved by the University)

Name of the Faculty	Qualification	Date of Appointment	Department	Area Specialization
Dr. A. PunithaTharani	M.Sc., M.Phil., Ph.D.,	03.03.1990	Mathematics	Graph Theory
Dr. V.L. Stella Arputha Mary	M.Sc.,B.Ed., M.Phil., Ph.D.,	23.3.2007	Mathematics	Graph Theory
Dr. Sr.S. Kulandai Therese	M.Sc., B.Ed., M.Phil.,Ph.D.,	05.10.2007	Mathematics	Graph Theory
Dr. J. Arul Jesti	M.Sc., M.Phil., B.Ed.,Ph.D.,	22.11.2017	Mathematics	Topology
Dr.G. Priscilla Pacifica	M.Sc., B.Ed., M.Phil.,Ph.D.,SET	17. 06. 2019	Mathematics	Topology

Dr.C.Reena	M.Sc., B.Ed., M.Phil., Ph.D. SET	21. 06. 2013	Mathematics	Topology, Analysis
Dr.P.Anbarasi Rodrigo	M.Sc ,B.Ed , Ph.D.,	06.09.2016	Mathematics	Topology
M.Kanaga	M.Sc., B.Ed., SET.,	21.09.2017	Mathematics	Algebra, Graph Theory
A.Ferdina	M.Sc., M.Phil., SET.,	18.06.2018	Mathematics	Graph Theory
Dr. R. Maria Irudhaya Aspin Chitra	M.Sc., M.Phil., Ph.D.,	18.06.2018	Mathematics	Graph theory
P.Suganya	M.Sc., M.Phil., SET.,	18.06.2019	Mathematics	Topology

6. Library facilities for the Research Centre

Area in sq.ft	Total No. of Books Available*	Total No. of Journals Available*	Total No. of Computer Systems with Internet facilities
62'3/4" × 32"	3826	10	Computer - 9 LapTop - 3

* Enclose the details of Journals / e-Journals / Books

7. Area / Space for the Research Scholars Room :12'1" × 11'3"

8. Facilities Available in the Research Centre :

(a)	Space for Research Scholars	
	- In the Department	Seperate Research room available
	- In the Library for reading	Space available
(b)	Internet Facility	Yes
(c)	Computer facilities with internet access and related software	Yes
(d)	Uninterrupted power supply	Yes
(e)	Water Supply	Yes

(f)	For SCIENCE AND TECHNICAL DISCIPLINES	
	- Research Laboratory (provide the no. of labs, their space, and other infrastructures)	
	- List of Minor Equipments along with date of purchase with cost (between Rs. 10,000/- to Rs. 1,00,000/-)	
	- Major Equipments along with date of purchase with cost (> Rs. 1,00,000/-)	

9. Total Number of ongoing Research Scholars (Scholars from the other departments of the College)

Full Time	Part-Time
10	9

10. Total number of scholars already completed (Scholars from the other departments of the College)

Full Time	Part-Time
0	5

11. Budget allocation (Year wise)

Previous Year	Current Year
Rs.40,000	Rs.50,000

12. Conferences/Seminar conducted (including Co-ordinator with fund allocated) / Funding agency

Name of the Conference / Seminar	Fund Allotted	Sponsoring Agency	Name of the Coordinator
Instructional School on Emerging Trends in Advanced Mathematics	Rs.80,000	NBHM	Dr.A.Punitha Tharani
Two day Workshop on "MATLAB Based Mathematical Applications"	Rs.20,000	TNSCST	Dr.A.Punitha Tharani
National Conference on "Advances in Mathematics"	Rs.50,000	SERB	Dr.A.Punitha Tharani

13. Research Proposal with Plan of Action

Title	Estimate	Year

14. Research Publications

(a) International

Title of the Journal	Name of the Journal	Year	Impact Factor (if any)
pg^{**} - closed sets in Topological space	International Journal of Mathematical Archive	2015	4.908
$(gsp)^{**}$ - closed sets in Topological space	International Journal of Mathematical Archive	2015	4.908
Essential concepts of pg^{**} - closed sets	International Journal of Mathematical Archive	2017	4.908
pg^{**} - compact spaces.	International Journal of Mathematics Research	2017	
pg^{**} - separation axiom	International Journal of Mathematical Archive	2017	4.908
pg^{**} - Connected space.	International Journal of Mathematical Archive	2017	4.908
g^* alpha -closed sets in Topological spaces	International Journal of Mathematical Archive	2017	4.908
Triple Connected Line Domination Number of a Graph for some standard and special graphs	International Journal of Advanced Scientific Research and Management	2018	3.005
g^* alpha locally closed sets and locally closed functions in Topological spaces	International Journal of Mathematical Archive	2018	7.543
g^* alpha connected and g^* alpha compact spaces	International Journal of Advanced Scientific Research and Management	2018	3.005
Triple Connected Line Domination Number of a Graph	International Journal of Basic and Applied Research	2018	
Bg^{**}-Closed Sets In Topological Space	International Journal of Computational Engineering Research	2018	0.415
A New quotient mappings in Topological spaces	International Journal of Computatinal Engineering Research (IJCER	2019	6.41
Restrained Triple Connected Two Domination Number of Central, Total, and Line Graphs of Path and Cycle	International Journal of Computational Engineering Research (IJCER)	2019	6.41
On Contra $g^*\alpha$-continuous functions	International Journal of Computational Engineering Research (IJCER)	2019	6.41

A New Quotient mappings in topological Spaces	International Journal of Computational Engineering Research (IJCER	2019	6.41
g*α-lclosed sets and g*α-locally closed sets in Bitopological Spaces	International Journal of Computational Engineering Research (IJCER	2019	6.41
Detour Global Domination Number of a Graph	International Journal of Engineering Science and Computing	2019	1.2
A Study on Restrained Triple Connected Two Domination Number of a Graph	Journal of Emerging Technologies and Innovative Research	2019	5.87
Equitable Triple Connected Two Domination Number of a Graph	International Journal of Advanced Science and Technology	2020	0.324
Detour Global Domination Number of Some Standard And Special Graphs	International Journal of Advanced Science and Technology	2020	0.324
Introduction to symmetric semigroups and symmtric semirings	International Journal of Advanced Science and Technology	May 2020	0.324
A New Class of Nano Generalised Star Beta Closed Sets in Nano Topological Spaces	Journal of Advanced Research in Dynamical and Control System(Scopus)- ISSN: 1943-023X, vol-12,04	May 2020	0.31
Some types of ideals in Symmetric rings	Advances in Mathematics: scientific Journal	July, 2020	1.494
Soft g^* β -Closed Sets in Soft Topological Spaces	Journal of Mechanics of Continua and Mathemitcal Sciences (UGC Care Web of Science Journal) - ISSN: 2454-7190,	August 2020	2.2159
On g^* β -Compactness and g^* β – connectedness in Topological Spaces	Malaya Journal of Matamatik -ISSN 2319 3786 (UGC CARE LIST),	September 2020	0.201
Z_{4p} – magic labeling for some cycle related graphs	Scientia Magna China journal	2015	
Strong Z_{4p} Magic labeling	Ars Combinatoria	Oct 2017	
Integral Root labeling of graphs	International Journal of Mathematics Trends and Technology.	2018	2.53
Integral Root Labeling of $P_m \cup$			2.5

G Graphs	International Journal of Trend in Scientific Research and Devolopment	2018	
Results on Integral Root Labeling of $P_m \cup G$ Graphs	International Journal for Research Trends and Innovation	2018	2.6
Sub division of Integral Root Labeling of Graphs	International Journal for Scientific Research and Devolopment	2018	1.78
L-magic labeling on divisors of 6	Ars Combinatoria	Jan 2019	0.5
Vertex magic labeling on V_4 for some cycle related graphs	Advances in Mathematics Scientific Journal	2020	2.8
Packing Parameters of Bloom Graph	International Journal of Mathematics and its Applications	2016	0.564
A Class Of Perfect Domination Problems on Diamond Lattices	International Journal of Pure and Applied Mathematics	2016	7.19
Slightly S_g^*-continuous functions and Totally S_g^*-continuous functions in Topological spaces	International Organization of Scientific Research-Journal of Mathematics(IOSR-JM)	2015	3.97
S_g^*-Compact and S_g^*-Connected Spaces	International Journal of Modern Engineering and Research(IJMER)	2015	7.21
Some new closed and open maps in Topological Spaces	International Journal of Scientific Engineering and Technology Research (IJSETR)	2015	3.59
$\hat{g}^*s$-locally closed sets in Topological spaces	Global Journal of Pure and Applied Mathematics.	2017	0.19
Almost S_g^*-continuous functions in Topological spaces	Mathematical Sciences International Research Journal(IMRF)	2018	2.73
New Continuous Function in Nano Topological Spaces	International Journal of Advanced Science and Technology(Scopus)	2020	0.41
A New Class of Nearly Open Sets In Nano Topological Spaces	International Journal of Advanced Science and Technology(Scopus)	2020	0.41

New Notions in Ideal Topological Spaces	Journal of Critical Reviews(Scopus)	2020	1.091
α_{Ng}-Irresolute Function in Nano Topological Spaces	International Journal of Innovative Science, Engineering & Technology (UGC Approved Journal)	2021	6.72
pg**-closed sets in topological spaces	International Journal of Mathematical Archive	2015	4.908
(gsp)**-closed sets in topological spaces	International Journal of Mathematical Archive	2015	4.908
Essential concepts of pg**-closed sets	International Journal of Mathematical Archive	2017	4.908
pg^{**} Separation axioms	International Journal of Mathematical Archive	2017	4.908
pg**-Connected space	International Journal of Mathematical Archive	2017	4.908
pg**-compact spaces	International Journal of Mathematics Research	2017	
A New Generalization of closed sets in Bitopological spaces	International Research Journal for Mathematical Sciences	2018	2.73
New Class of Continuous Functions in Bitopological Spaces	International Journal of Recent Research Aspects	2018	
Various Characterization of (i,j)-vp Closed Sets in Bitopological Spaces	Journal of Emerging Technologies and Innovative Research	2018	
Symmetric Bi-T-Derivations of Incline Algebra	International Journal of Mathematics Trends and Technology	2018	
Some topological concepts in penta topological space	International Journal of Mathematics Trends and Technology	2019	
The Total Triangle free Detour Number of a Graph	Advances in Mathematics: Scientific Journal	2020	
Steiner μ Distance in Fuzzy Graphs with Application	International Journal of Engineering and Advanced Technology	2020	
Effectiveness of Video Programme to Plus Two Students	International Journal of Future Generation Communication and Networking	2020	
Totally α *- continuous functions in Topological Spaces	International Journal of Mathematics and Statistics	2015	

	Invention		
Functions Associated With α *- closed Sets In Topological Spaces	International Journal Of Scientific and Innovative Mathematical Research	2015	
α *- separation axioms in topological spaces	Asian Journal of Current Engineering and Maths	2016	
Soft Strongly JP continuous functions in topological spaces	Gobal Journal of Pure and applied Mathematics	2017	0.34
α *- generalized closed sets in topological spaces	International Multidisciplinary Research Foundation	2017	2.73
α *- locally closed sets in Topological Spaces	International Multidisciplinary Research Foundation	2018	2.73
Functions related to α *- generalized closed sets	International Multidisciplinary Research Foundation	2018	2.73
A New notion of Closed sets in Topological Spaces	International Multidisciplinary Research Foundation	2018	2.73
More functions associated with β *- closed sets	International Journal Of Advancement In Engineering Technology Management & Applied Science,	2018	3.102
Functions related to β*- closed sets in topological spaces	International Conference On Recent Trends In Mathematics And Information Technology	2018	2.53
On β*- open and closed map in topological spaces	International Conference On Recent Trends in Multi Disciplinary research	2018	
On Contra β*- continuous functions in topological spaces	International Journal of Mathematics Trends and Technology	2018	2.53
More Functions associated with α *-g closed sets	International Conference On Recent Trends In Multi-Disciplinary Research	2018	
α * - regular and α * - normal spaces.	International Journal of Recent Research aspects	2018	1.235

Soft AR S closed sets in soft topological spaces.	Advances in Mathematics	2020	1.494
Contra Nano α^*_{As} Continuous Function in Nano Topological Space	Journal of Xi'an Shiyou University	2020	5.6
α^*_{As} - Continuous In Topological Space	Journal of the Maharaja Sayajirao University of Baroda	2020	
On contra soft A_RS Closed sets in soft topological spaces	Advances in Mathematics	2020	1.494
On soft A_RS continuous mappings in soft topological spaces.	International journal of engineering ,Science and Mathematics	2020	6.76
Characterization of Soft A_RS separation axioms in soft topological spaces	International Journalof analytical and experimental Modal Analysis	2020	6.3
Soft strongly A_RS closed sets in soft toplogical spaces.	International Journal of Interdisplinary Cycle Research	2020	6.2
On Semi*δ-Open Sets in Topological Spaces	IOSR Journal of Mathematics	2016	3.97
Between δ-Closed Sets and δ-Semi-Closed Sets	International Journal of Mathematical Archive	2016	4.908
Continuous and Irresolute Functions Via Star Generalised Closed Sets	International Journal of Modern Engineering Research	2016	7.21
A class of New Closed Sets in Bitopological Settings	Global Journal of Pure and Applied Mathematics	2017	0.21
Contra Semi*δ-Continuous Functions in Topological Spaces	International Journal of Mathematics And its Applications	2017	0.421
More Functions Associated with Semi*δ-Open Sets	International Journal of Mathematical Archive	2017	4.908
Separation Axioms Via Semi*δ-Open Sets	International Research Journal for Mathematical Sciences	2017	2.73
On Semi*δ-regular and Semi*δ-normal Spaces	International Journal of Science, Engineering and Management	2018	2.7
A New Type of Quasi-open and Quasi-closed functions in Topological spaces.	Journal of emerging technologies and innovative research	2019	5.87
On Semi* δ- Homeomorphism in Topological Spaces	International Journal of Advanced	2019	5.015

	Scientific Research and Management		
Semi*δ- Locally Closed and Continuous Functions	Journal of emerging technologies and innovative research	2019	5.87
A New Class of Nearly Open Sets in Topological Spaces	International Journal of Mathematics Trends and Technology	2020	2.53
Lucky Edge Labeling of Planar Grid Graph	International Journal of Modern Science and Engineering Technology	2015	4.6
Complex Composition Cordial Labeling Of Path and Star Graphs.	International Journal of Mathematics Trends and Technology	2016	2.53
Lucky Edge Labeling Of Triangular Graphs	International Journal of Mathematics Trends and Technology	2016	2.53
Complex Composition Cordial LabelingOf Complete and Complete Bi-partite Graph	International Journal of Innovation in Science and Mathematics	2017	
Complex Composition Cordial Labeling Of Comb and Bi-Star Graphs	International Journal of Advanced Research in Engineering and Technology	2017	9.1582
Lucky Edge Labeling of Star Related Graphs	Journal of Computer and Mathematical Sciences	2018	4.655
Complex Composition Cordial Labeling Of Cycle and Bistar Graphs	Journal of Computer and Mathematical Sciences	2018	4.655
Lucky Edge Labeling Of Some Special Graphs	International Journal of Recent Research aspects	2018	1.235

(b) National

S.No.	Title of the Journal	Name of the Journal	Year	Impact Factor (if any)
	S_g^*-homeomorphism in topological spaces	Outreach(A Multi-Disciplinary Research Journal)	2015	7.011
	Some New Nearly Open Sets in Nano Topological Spaces	Purakala(UGC Care Journal)	2020	5.30
	Some New Type of Functions in Ideal Topological Spaces	Dogo Rangsang Research Journal, (UGC Care Group I Journal)	2020	6.35
	Soft A_RS Locally Closed Sets in Soft Topological Spaces	DogoRangsang Research Journal	2020	6.35
	On a new class of generalized closed sets in Nano Topology	Our Hertiage	2020	
	Nano α^*_{AS} Homeomorphisms in nano topological spaces	Special Issue on Multidisciplinary Academic Research Studies	2020	
	Nano α^*_{AS}Continuousinnano topological spaces	Studies in Indian Places	2020	
	Between Regular*-Closed Sets and Semi-Pre-Closed Sets	Compliance Engineering Journal	2020	6.1
	Semi-Regular*-Continuous Functions	Compliance Engineering Journal	2020	6.1
	Lucky edge labeling of H-graph	OUTREACH	2015	7.813

15. Specialization of the Research Centre   : Graph Theory, Algebra, Topology, Real Analysis

16. List of Supervisors at present

Name of the Registered supervisors	Scholars completed Ph.D. under them	Title of the thesis	Year of completion
Dr. A. Punitha Tharani	Dr.Sr.M.Pauline Mary Helen	Studies on g**-Closed sets in Topological spaces	2016
	Dr.G.Hari Siva Annam	A study on α^{s^*}-closed sets in topological spaces	2017
	Dr.G.Priscilla Pacifica	Studies on pg**-Closed sets in Topological spaces	2018
	Dr.T. Selvi	A study on Pre*-open sets in Topological spaces	2018
	Dr.T. Delcia	Study on Topological spaces	2020
Dr. V.L. Stella Arputha Mary	-	-	-
Dr. J. Arul Jesti	-	-	-
Dr.G. Priscilla Pacifica	-	-	-
Dr.P.Anbarasi Rodrigo	-	-	-
Dr.C.Reena	-	-	-

Dr. S. MANICKAM,
REGISTRAR.

Ref. No.MSU/RES/INT/GUIDESHIP/R5/2010.   08.04.2010.

To

Dr. A. Punitha Tharani,
Associate Professor in Mathematics,
St. Mary's College,
Thoothukudi.

Sir/Madam,

Sub: Recognition as an approval Guide – intimation – reg.

Ref: The Vice-Chancellor's Order dated 06.04.2010.

         I am, by direction, to inform you that the request given by you through your College to recognize as an approved Guide in the Subject of **MATHEMATICS** is accepted in accordance with the regulations for Ph.D. programme of this University.

         The maximum number of Ph.D. Scholars, under your guidance is **8**.

         Kindly acknowledge the receipt of this communication.

                                        Yours faithfully,

                                        REGISTRAR.

Copy to:
The Principal,
St. Mary's College,
Thoothukudi.

Dr. S. SANTHOSH BABOO
REGISTRAR

Ref. MSU/RES Ph.D./Guideship/R1/2019.   09.03.2019

To

Dr. V.L. Stella Arputha Mary
Assistant Professor,
Department of Mathematics,
St. Mary's College, Tuticorin-628 001.
Mobile : 9443532640

Sir / Madam,

      Sub.: Recognition as an approved Guide – intimation – reg.
      Ref.: Orders of the Vice-Chancellor dated 09-02-2019

          * * * * * * *

      With reference to the above, I am by direction, to inform that Guideship has been granted in the subject of MATHEMATICS and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.

      As per the revised Ph.D. Guidelines w.e.f. 01.07.2016, the maximum number of Ph.D. Scholars under guidance / co-guidance is Assistant Professor – 04, Associate Professor – 06 and Professor – 08.

      Accordingly, at present the maximum number of Ph.D. Scholars under your guidance is 4 (Four) only.

      This is for information and adherence

      Kindly acknowledge the receipt of this communication.

                        Yours faithfully,

                        REGISTRAR

Copy to :
      The Principal,
      St. Mary's College,
      Tuticorin-628 001.

Dr. S. SANTHOSH BABOO
REGISTRAR   21.02.2019

Ref: MSU/RES/Ph.D./Guideship/R1/2019.

To

Dr. J.Arul Jesti,
Assistant Professor,
Department of Mathematics,
St. Mary's College,
Tuticorin - 628 001,
Mobile : 9976152306

Sir/ Madam,

Sub.: Recognition as an approved Guide – intimation – reg.
Ref.: Orders of the Vice-Chancellor dated 09-02-2019

* * * * * * *

With reference to the above, I am by direction, to inform that Guideship has been granted in the subject of MATHEMATICS and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.
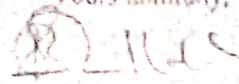
As per the revised Ph.D. Guidelines w.e.f. 01.07.2016, the maximum number of Ph.D. Scholars under guidance / co-guidance is Assistant Professor – 04, Associate Professor – 06 and Professor – 08.

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This is for information and adherence

Kindly acknowledge the receipt of this communication.

Yours faithfully,

REGISTRAR

Copy to :
The Principal,
St. Mary's College,
Tuticorin - 628 001.

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
Manonmaniam Sundaranar University
State University
Reaccredited with "A" Grade (CGPA 3.13 out of 4.0) by NAAC (3rd cycle)
Institutional Ranking between 151-200 by NIRF, MHRD, GOI during 2017-2018
Tirunelveli – 627 012, Tamilnadu, India
Cell:94879 01000, Phone : 0462 2338632, Fax: 0462 – 2334363
Email: registrar@msuniv.ac.in , Website: www.msuniv.ac.in

Dr. S. SANTHOSH BABOO
REGISTRAR

Ref. MSU/RES/Ph.D./S.F./Guideship/R1/2019.   21.02.2019

To

Dr. G. Priscilla Pacifica,
Assistant Professor,
Department of Mathematics,
St. Mary's College,
Thoothukudi - 628 001
Mobile: 9047860831

Sir / Madam,

Sub.: Recognition as an approved Guide – intimation – reg.

Ref.: Orders of the Vice-Chancellor dated 09-02-2019
* * * * * * *

With reference to the above, I am by direction, to inform that Guideship has been granted in the subject of **MATHEMATICS** and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.
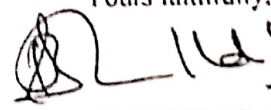
As per the revised Ph.D. Guidelines w.e.f. 01.07.2016, the maximum number of Ph.D. Scholars under guidance / co-guidance is Assistant Professor – 04, Associate Professor – 06 and Professor – 08.

Accordingly, at present the maximum number of Ph.D. Scholars under your guidance is 4 (Four) only.

This is for information and adherence

Kindly acknowledge the receipt of this communication.

Yours faithfully,

REGISTRAR 20/2/19

Copy to:
The Principal,
St. Mary's College,
Thoothukudi - 628 001

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY
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Reaccredited with "A" Grade (CGPA 3.13 out of 4.0) by NAAC (3rd Cycle)
Institutional Ranking between 151 – 200 by NIRF, MHRD, GOI during 2017 -2018
Tirunelveli-627 012, Tamilnadu, India
Cell:94879 01000, Phone:0462-2338632, Fax:0462-2334363
E_mail:registrar@msuniv.ac.in, Website:www.msuniv.ac.in

Dr.S.SANTHOSH BABOO
REGISTRAR
Ref.No.MSU/RES/SF/GUIDESHIP/R9/2018.   03.10.2018
To
 Dr.P.Anbarasi Radrigo,
 Assistant Professor of Mathematics,
 St.Mary's College, (Autonomous),
 Thoothukudi.

Sir / Madam

    Sub: Recognition as an approved Guide – intimation – reg.
    Ref: 1.V.C's Order dated 11.09.2018.

    With reference to the above, I am by direction, to inform that Guideship has been granted in the Subject of **MATHEMATICS** and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.
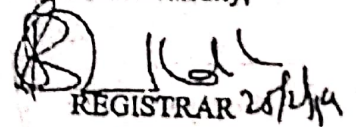
    As per the revised Ph.D. Guidelines w.e.f. 1.7.2016, the maximum number of Ph.D. Scholars under guidance / co-guidance is Assistant Professor – 4, Associate Professor – 6 and Professor – 8.

    Accordingly, at present the maximum number of Ph.D. Scholars under your guidance is 4 (FOUR) only .

    This is for information and adherence.

    Kindly acknowledge the receipt of this communication.

Yours faithfully,

REGISTRAR

y to :- The Principal,
    St.Mary's College, (Autonomous),
    Thoothukudi.
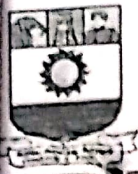
MANONMANIAM SUNDARANAR UNIVERSITY

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
(A State University, Re-Accredited with 'A' Grade by NAAC)
Abishekapatti Tirunelveli – 627 012, Tamil Nadu, India

Dr. S. SANTHOSH BABOO
REGISTRAR

Ref. MSU/RES/Ph.D./Guideship/2020   20 March 2020

To

Dr.C.Reena
Assistant Professor
St. Mary's College (Autonomous), Thoothukudi
Mobile:9894801552
Email:reenastephany@gmail.com

Sir / Madam,

Sub.:   Recognition as an approved Guide – intimation – reg.

Ref.:   1. Orders of the Vice-Chancellor dated 06-02-2020 & 07-02-2020.
        2. This office email letter dated 06.02.2020 & 08.02.2020
                        * * * * * * *

In continuation of this office email cited under reference, I am by direction, to inform that Guideship has been granted in the subject of **Mathematics** and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction and until your retirement.
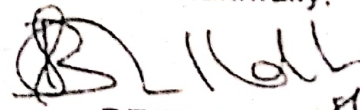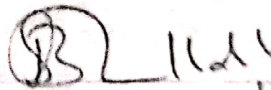
As per the revised Ph.D. Guidelines w.e.f. 01.07.2016, the maximum number of Ph.D. Scholars under guidance / co-guidance is **Assistant Professor – 04, Associate Professor – 06 and Professor – 08.**

Accordingly, at present the maximum number of Ph.D. Scholars under your guidance is **4 (Four)** only.

This is for information and adherence.

Kindly acknowledge the receipt of this communication.

Yours faithfully,

REGISTRAR

Copy to :

The Principal
St. Mary's College (Autonomous), Thoothukudi

Details of the Supervisor

Name : Dr.A.Punitha Tharani

Designation : Associate Professor of Mathematics and Controller of Examinations

Address :St.Mary's College(Autonomous), Thoothukudi

Phone number :9442723566

Mail ID :tharani0602@gmail.com

Permission letters of the supervisor (Guide ship approval letter)

MSU/RES/INT/GUIDESHIP/R5/2010

Publications

a. Books Published

Title	Name of the Journal	Page	Rate	year	Book No.

b. Articles Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/ Impact factor No.	
pg" - closed sets in Topological space	-	International Journal of Mathematical Archive	2015	pp.128-137	ISSN:2 229-5046	4.908
(gsp)" - closed sets in Topological space	-	International Journal of Mathematical Archive	2015	pp.95-101	ISSN:2 229-5046	4.908

Title		Journal	Year	Pages	ISSN	Impact
Essential concepts of pg** - closed sets	-	International Journal of Mathematical Archive	2017	pp.30-35	ISSN:2 229- 5046	4.908
pg** - compact spaces.	-	International Journal of Mathematics Research	2017	Pp. 27 - 43	ISSN:2 229- 5046	
pg** - separation axiom	-	International Journal of Mathematical Archive	2017	pp. 119 - 130	ISSN:2 229- 5046	4.908
pg** - Connected space.	-	International Journal of Mathematical Archive	2017	pp. 159 - 164	ISSN:2 229- 5046	4.908
g* alpha -closed sets in Topological spaces	-	International Journal of Mathematical Archive	2017	pp. 71 -80	ISSN:2 229- 5046	4.908
Triple Connected Line Domination Number of a Graph for some standard and special graphs	-	International Journal of Advanced Scientific Research and Management	2018	107 -110	2455 - 638	3.005
g* alpha locally closed sets and locally closed functions in Topological spaces	-	International Journal of Mathematical Archive	2018	pp. 60 -69	ISSN:2 229- 5046	7.543
g* alpha connected and g* alpha compact spaces	-	International Journal of Advanced Scientific Research and Management	2018		2455 - 638	3.005
Triple Connected Line Domination Number of a Graph	-	International Journal of Basic and Applied Research	2018	494 - 500		
Bg**- Closed Sets In Topological Space	-	International Journal of Computational Engineering Research	2018	57-60		

A New quotient mappings in Topological spaces	-	International Journal of Computatinal Engineering Research (IJCER	2019	69-71		
Restrained Triple Connected Two Dominatio n Number of Central,Total, and Line Graphs of Path and Cycle	-	International Journal of Computational Engineering Research (IJCER)	2019	05-06		
On Contra g*α-continuous functions	-	International Journal of Computational Engineering Research (IJCER)	2019	50-53		
A New Quotient mappings in topological Spaces	-	International Journal of Computational Engineering Research (IJCER	2019	69-71		
g*α-lclosed sets and g*α-locally closed sets in Bitopologic al Spaces	-	International Journal of Computational Engineering Research (IJCER	2019	363-365		
Detour Global Dominatio n Number of a Graph	-	International Journal of Engineering Science and Computing	2019			5.611
A Study on Restrained Triple Connected Two Dominatio n Number of a Graph	-	Journal of Emerging Technologies and Innovative Research	2019	27-29		

Equitable Triple Connected Two Domination Number of a Graph	-	International Journal of Advanced Science and Technology	2020	334-337		
Detour Global Domination Number of Some Standard And Special Graphs	-	International Journal of Advanced Science and Technology	2020	185-189		
Introduction to symmetric semigroups and symmtric semirings	-	International Journal of Advanced Science and Technology	May 2020	1963-1971	ISSN 2005-4238	0.41
A New Class of Nano Generalised Star Beta Closed Sets in Nano Topological Spaces	-	Journal of Advanced Research in Dynamical and Control System(Scopus)-ISSN: 1943-023X, vol-12,04	May 2020			
Some types of ideals in Symmetric rings	-	Advances in Mathematics: scientific Journal	July, 2020	2547-2559	P ISSN 1857-8365 E ISSN 1857 - 8438	1.494
Soft g^* β - Closed Sets in Soft Topological Spaces	-	Journal of Mechanics of Continua and Mathemitcal Sciences (UGC Care Web of Science Journal) - ISSN: 2454-7190,	August 2020			
Ong^*β-compactness and g^*β–connectednessin Topological Spaces	-	Malaya Journal of Matamatik -ISSN 2319 3786 (UGC CARE LIST),	September 2020			

4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Year
Conference on Solar Energy St. Mary's College Thoothukudi	Conference	International	Participated	11.02.15
Seminar on Quality Enhancement in Higher Education: Teaching, Learning and Evaluation. St. Mary's College Thoothukudi	Seminar	National level	Participated	07.01.16- 08.01.16
Seminar on Recent Trends in Mathematics St. Mary's College Thoothukudi	Seminar	National level	Participated	14.12.16
Instructional Workshop on Latex Dept. of Mathematics St.Mary's College (Autonomous), Thoothukudi-1	Workshop	State Level	Participated	21.09.2017 – 22.09.2017
Seminar on Academic and Research Integrity in the Digital World Research Forum and Department of Library St.Mary's College (Autonomous), Thoothukudi-1	Seminar	National level	Participated	09.12.2017
Conference on Algebra and Discrete Mathematic Madurai Kamaraj University, Madurai.	Conference	International	Participated	08.01.2018 – 10.01.2018
International Conference on Applications of Mathematics Dept. of Mathematics St.Mary's College (Autonomous), Thoothukudi-1	Conference	International Level	Paper Presented	11.01.2018
Research Oriented Lecture Series – 2018 A.P.C. Mahalaxmi College for Women, Thoothukudi.			Resource Person	26.09.2018
Recent Trends in Multi-Disciplinary Research A.P.C. Mahalaxmi College for Women, Thoothukudi	Conference	International	Paper Presented	20.12.2018 & 21.12.2018
NBHM sponsored Instructional School on Emerging Trends in Advanced Mathematics St.Mary's College Thoothukudi		National level	Paper Presented	11.02.2019 and 12.02.2019
Applied Mathematics and Intellectual Property Rights ICAMIPR-2020 PG & Research Department of		International level	Paper Presented	20.01.2020 and 21.01.2020

Mathematics A.P.C.Mahalaxmi College For Women ,Thoothukudi				
Two Day Workshop on MATLAB based Mathematical Applications – Hands on Training St.Mary's College(Autonomous), Thoothukudi				11.07.2020 & 12.07.2020
National Colloquium on Draft National Educational Policy 2019 St.Joseph's College,Tiruchirapalli		National level		25/07/2019
National Conference on "Advances In Mathematics" St.Mary's College Thoothukudi		National level	Paper Presented	12/03/2020 and 13/03/2020
Online National Workshop on Basics of Documentation using LaTeX Stella Maris College(Autonomous) Chennai		National level		24.04.2020 , 25.04.2020 , 29.04.2020 &30.04.20 20
LaTeX FDP Chevalier T. Thomas Elizabeth College for Women Chennai				27-04-2020 to 01-05-2020
FDP on Scilab VOC College, Tuticorin				29-04-2020 to 05-05-2020
Webinar on Psychological First Aid St.Mary's College Thoothukudi				11.05.2020
One week online FDP on Innovation to Academicians Ramachandra College of Engineering(NewGenIEDC-RCE Eluru) (Sponsored by NSTETB DST)		National level		11.05.2020 - 16.05.2020
Webinar on "Selction of Appropriate Statistical Tools-A Critical way for successful Research" St.Mary's College Thoothukudi				12.05.2020
Online workshop on Mental Health and Psychosocial Consideration During Lockdown St.Mary's College Thoothukudi				13.05.2020 & 14.05.2020
Webinar on Usage of ICT Tools-Why?How? Ethiraj College for Women		National level		14.05.2020
Online Faculty Development Program On "FUZZY SETS AND SYSTEMS" Patrician College Of Arts And Science, Chennai				16.05.2020
International FDP on "Online Teaching Tools for Trainers		International		18.05.2020 -

				24.05.2020
IAAC(International Association of Academic plus Corporate Society)				
MATHEMATICAL SCIENCES FOR CSIR-UGC NET ASPIRANTS PG and Research Department of Mathematics, St.Mary's College, Thoothukudi			Organised	19.05.2020 - 23.05.2020
International Webinar on Recent Research Topics in Graph Theory Mes Mampad College(Autonomous) Kerala		International		20.05.2020 &21.05.20 20
Webinar on Mathematical Modelling on Infectious Diseases-Application to COVID19 Patrician College Of Arts And Science, Chennai				27.05.2020
Webinar Ladies Club of The American College(Autonomous)		National		27.05.2020
e - FACULTY DEVELOPMENT PROGRAM ON "VIRTUAL TEACHING - Learning MOODLE the Efficient way" Dr.M.G.R EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University) Chennai		National level		29th May 2020 and 30th May 2020.
Webinar on IT Trends In Banking Industry St.Mary's College Thoothukudi		International		30.05.2020
How to use Open Educational Resources to Desire St.Mary's College Thoothukudi				31.05.2020
Webinar on Post Covid and options Ethiraj College For Women, Chennai				01.06.2020
International Faculty Development Programme IQAC, St.Mary's College Thoothukudi				02.06.2020
Creating and Managing Brands RUSA2.0-Entrepreneurship and Career Hub, University of Madras		National level		02.06.2020
Effective Usage of ICT Tools in Higher Education Servite Arts and Science College for Women T.Idayapatti Thogamalai Tamilnadu				03.06.2020
Mathematical Models in Bio-Medical Applications" and Hands on training session on"How to generate E-				03.06.2020

cerificates" Rohini College of Engineering and Technology,Palkulam,Kanyakumari				
Recent Updates and Current Advances The American College, Madurai				03-06-2020 to 04-06-2020.
WEBINAR ON GRAPH THEORY & HUMAN FACTORS IN AVIATION PG & Research Department of Mathematics, G.Venkataswamy Naidu College, Kovilpatti		International		03-06-2020 to 05-06-2020.
Webinar on Herculean Challenge on Human Immunology St.Mary's College Thoothukudi		State Level		05.06.2020
Webinar on Online Classes and Examination in COVID Pandemic Situation G.Venkataswamy Naidu College , Kovilpatti				24.06.2020
ASTROID DAY-Awareness Program District Science Center Trinelveli				29.06.2020
Scope of Engineering in INDIAN AIR FORCE Periyar Maniammai Institute of Science and Technology(deemed to be University),Thanjavur				06.07.2020
A Two - Day National Level E-Workshop on Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming Dr.M.G.R EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University) University with Special Autonomy Status Maduravoyal, Chennai - 600 095. Tamilnadu. India.				10.07.2020 -11.07. 2020
An Update on Covid 19 St.Mary's College Thoothukudi				10.07.2020
Learning to live with COVID-19:Embracing the New Reality St.Mary's College Thoothukudi				11.07.2020
e-National Conference on Advancement in Science and Humanities Kings College of Engineering Pudukottai,Tamilnadu				13.07.2020
"ICT Tools for Teaching-Learning Internal Quality Assurance Cell, St. Xavier's College (Autonomous), Palayamkottai, Tamilnadu.				23.07.2020 - 24.07.2020
MATLAB and MATHEMATICA for				27.07.2020

Scientific Research Arul Anandar College,Madurai					29.07.2020
Numbers PG and Research Department of Mathematics, St.Mary's College, Thoothukudi					20.10.2020

5. Organized

Title	Conference/ Seminar	Level: State/ National/ International	Budget	Proceedings

6. Researchers :

a) Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
Ms.A. Robina Tony	Edge Domination in Graphs	12519 06.03.2017	Part Time		
Ms.H. Sujitha	A Study on Multiple Topological Spaces	19122212092003 21.12.2018	Part Time		
Ms. A. Ferdina	A Study on Graph Labeling	19122212092006 23.12.2018	Part Time		
Ms.E.S.R. Francis Vijayarani	Studies on Graph Labeling Problem	19122212092004 21.12. 2018	Part Time		

			Full Time		
Ms.V. Uma Maheswari	A Study on Symmetric Ideals in Algebra	19212212092008 30.08.2019	Full Time		
Ms. H.R.Anesha	Algebraic Graph Theory	20212212092002 30.12.2020	Full Time		

b) Scholars already Completed

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
Dr.Sr.M.Pauline Mary Helen	Studies on g**-Closed sets in Topological spaces	7346/05.04.2011	Part Time	-	16.02.2016
Dr.G.Hari Siva Annam	A study on α^{s^*}-closed sets in topological spaces	10162/27.03.2013	Part Time	-	28.02.2017
Dr.G.Priscilla Pacifica	Studies on pg**-Closed sets in Topological spaces	10584/ 07.05.2013	Part Time	-	29.01.2018
Dr.T. Selvi	A study on Pre*-open sets in Topological spaces	8134/23.05.2011	Part Time		09.08.2018
Dr.T. Delcia	Study on Topological spaces	12335/30.06.2016	Part Time		06.03.2020

Details of the Supervisor

Name	: Dr.V.L.Stella Arputha Mary
Designation	: Head and Assistant Professor of Mathematics
Address	: St.Mary's College(Autonomous), Thoothukudi
Phone number	:9025054041
Mail ID	:drstellaarputha@gmail.com

Permission letters of the supervisor (Guide ship approval letter)
MSU/RES/PH.D/GUIDESHIP/R1/2019
Publications

Articles Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/	Impact factor
Z_{4p} – magic labeling for some cycle related graphs		Scientia Magna China journal.	326-336	2015	ISSN: 1556-6706.	
Strong Z_{4p} Magic labeling		Ars Combinatoria	197 -211	Oct 2017	ISSN 0381-7032	
Integral Root labeling of graphs		International Journal of Mathematics Trends and Technology.	437-441	2018	**ISSN** : 2231-5373.	2.53
Integral Root Labeling of $P_m \cup G$ Graphs		International Journal of Trend in Scientific Research and Development	2141 - 2144	2018	**ISSN** : 2456-6470.	2.5
Results on Integral Root Labeling of $P_m \cup G$		International Journal for Research Trends and	142 - 146	2018	**ISSN** : 2456-3315	2.6

Graph		Innovation				
Sub division of Integral Root Labeling of Graphs		International Journal for Scientific Research and Devolopment	496 -499	2018	**ISSN** : 2321- 0613 (online)	1.78
L-magic labeling on divisors of 6		Ars Combinatoria	91 -107	Jan 2019	ISSN 0381- 7032	0.5
Vertex magic labeling on V_4 for some cycle related graphs		Advances in Mathematics Scientific Journal	7699 - 7709	2020	ISSN 1857- 8365	2.8

Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference /Seminar/ Workshop/ Symposium	Level: State/ National / International	Status of Participation Presentation /Participator	Date & Year
...nference on Solar Energy ...Mary's College Thoothukudi	Conference	International	Participated	11.2.15
...tructional Workshop on ...tex ...pt. of Mathematics ...Mary's College ...utonomous), Thoothukudi-1	Workshop	State Level	Participated	21.09.2017 – 22.09.2017
...minar on Academic and ...search Integrity in the Digital ...orld ...search Forum and ...partment of Library ...Mary's College ...utonomous), Thoothukudi-1	Seminar	National level	Participated	09.12.2017
...ternational Conference on ...plications of Mathematics ...pt. of Mathematics ...Mary's College ...utonomous), Thoothukudi-1	Conference	International Level	Paper Presented	11.01.2018
...merging Trends in Advanced ...athemtics- ISETAM 2019 ...pt. of Mathematics ...Mary's College ...utonomous), Thoothukudi	Instructional School	National	Paper Presented	11th and 12th Feb 2019
...riting Research Proposals ...r Funded Projects ...esearch Advisory ...ommittee St.Mary's ...ollege(Autonomous), ...hoothukudi	Workshop	National	Participated	14th Sep 2019
...ientific publication and ...aluation ...epartment of Library and ...esearch Forum St.Mary's ...ollege (Autonomous), ...hoothukudi-1	Seminar	National	Participated	14th Feb 2020
...dvances in Mathematics ...pt. of Mathematics ...Mary's College ...utonomous), Thoothukudi	Seminar	National	Paper Presented	12,13 th Mar 2020
...ychological First Aid ...Mary's College Thoothukudi	Webinar	National	Participated	11-May-2020
...ow to use Open Educational ...sources to Desire	Webinar	National	Participated	31-May2020

Mary's College hoothukudi w Approach in Graph Theory atima ollege(Autonomous),Madura	Webinar	National	Participated	18 - 20 July 2020

searchers :

Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
Ms.S. Kavitha	A Study on Dominatio n Number of Some Special Graphs	19212212092007 & 30.08.2019	Full Time	-	-

Details of the Supervisor

Name : Dr.J.Arul Jesti

Designation : Assistant Professor of Mathematics

Address : St.Mary's College(Autonomous), Thoothukudi

Phone number : 9976152306

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Permission letters of the supervisor (Guide ship approval letter)

MSU/RES/Ph.D/Guideship /R1/2019

Publications

a. Books Published

Title	Name of the Journal	Page	Rate	year	Book No.

b. Articles Published

e	Periodicity of the article	Name of theJournal	Page	year	Journal No. ISBN/ISSN/ Impact factorNo.	
meomorphism opological ces	-	Outreach(A Multi-Disciplinary Research Journal)	107-112	2015	ISSN(P): 0975-1246. ISSN(O): 2321-8835	7.011
htly - tinuous ctions and ally - tinuous ctions in pological	-	International Organization of Scientific Research-Journal of Mathematics(IOSR-JM)	27-30	2015	E-ISSN: 2278-5728.p-ISSN: 2319-765X.	3.97

...es ...mpact and - ...nected Spaces	-	International Journal of Modern Engineering and Research(IJMER)	17-21	2015	ISSN: 2249-6645	7.21
...e new closed ...open maps in ...ological	-	International Journal of Scientific Engineering and Technology Research (IJSETR)	1081-1086	2015	ISSN: 2319-8885	3.59
...es ...lly closed ...in ...ological	-	Global Journal of Pure and Applied Mathematics.	42-50	2017	ISSN: 0973-1768	0.19
...es ...ost - ...inuous ...ions in ...ogical	-	Mathematical Sciences International Research Journal(IMRF)	210-216	2018	ISSN: 2278-8697	2.73
...es ...e New Nearly ...n Sets in ...o Topological	-	Purakala(UGC Care Journal)	107-114	2020	ISSN:0971-2143	5.30
...es ...Continuous ...ction in Nano ...ological	-	International Journal of Advanced Science and Technology(Scopus)	2781-2786	2020	ISSN: 2005-4238 (P) ISSN: 2207-6360 (O)	0.41
...es ...ew Class of ...rly Open Sets ...ano ...ological	-	International Journal of Advanced Science and Technology(Scopus)	4784-4793	2020	ISSN: 2005-4238 (P) ISSN: 2207-6360 (O)	0.41
...es ...Notions in ...Topological ...es	-	Journal of Critical Reviews(Scopus)	1068-1075	2020	ISSN- 2394-5125	1.091
...e New Type ...unctions in ...l Topological ...es	-	Dogo Rangsang Research Journal, (UGC Care Group I Journal)	127-132	2020	ISSN: 2347-7180	7.12
...solute ...tion in Nano ...ological ...es	-	International Journal of Innovative Science, Engineering & Technology (UGC Approved Journal)	145-152	2021	ISSN(O): 2348-7968	6.72

4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Date and Year
Quality Enhancement in Higher Education: Teaching, Learning & Evaluation IQAC, St.Mary's College(Autonomous), Thoothukudi	Seminar	National	Participated	7th and 8th Jan 2016
E-content Development IQAC,St.Mary's College (Autonomous), Thoothukudi	Capacity Building Workshop		Participated and created SLO on Complex Number	11th -16th April 2016
Recent Trends in Mathematics Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Seminar	National	Participated	14th Dec 2016
Cosmic Concerns:An Interdisciplinary Dialogue in Applied Ethics IQAC, St.Mary's College (Autonomous), Thoothukudi	Conference	National	Participated	27th-28th Jan 2017
Human Values Development Programme St.Mary's College (Autonomous), Thoothukudi	Workshop		Participated	2nd Feb 2017
Discrete and Computational Mathematics Ganthigram Rural Institute-Deemed University, Dindigul, Tamil Nadu, India.	Conference	International	Presented a paper on"-locally closed sets in Topological spaces	16th-18th Feb 2017
LaTeX Research Dept. of Mathematics,	Instructional Workshop	International	Participated	21st and 22nd Sep 2017

St.Mary's College(Autonomous), Thoothukudi				
Academic and Research Integrity in the Digital World Research Forum and Department of Library, St.Mary's College (Autonomous), Thoothukudi	Seminar	National	Participated	9th Dec 2017
Applications of Mathematics Research Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Conference	International	Participated	11th Jan 2018
Emerging Trends in Advanced Mathemtics-ISETAM 2019 Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Conference	International	Presented a paper on "On -functions in topological spaces"	11th and 12th Feb 2019
Analysis Sadakathullah Appa College (Autonomous), Tirunelveli	Worshop	State level	Participated	07th March 2019
Creating Blog for Google generation in the 2.0 World Department of Library, St.Mary's College (Autonomous), Thoothukudi	Worshop	State level	Participated	12th March 2019
MATLAB Based Mathematical Applications Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Workshop- Hands on Training	State level	Participated	11th and 12th July 2019
Writing Research Proposals for Funded Projects Research Advisory	Workshop	National	Participated	14th Sep 2019

Committee, St.Mary's College (Autonomous), Thoothukudi				
e-resources for Teachers of HEIs Manonmaniam Sundaranar University, Tirunelveli	Seminar	National	Participated	25th Nov 2019
Scientific Publication and Evaluation: Reference tools, Citation Analysis and Plagirism Department of Library and Research Forum, St.Mary's College (Autonomous), Thoothukudi	Seminar	National	Participated	3rd Feb 2020
Innovative Inventions in Mathematics, Computers, Engineering & Humanities(ICIMCEH "20) Don Bosco College of Arts & Science, Keela Eral, Thoothukudi	Conference	International	Presented a paper on "Some New Nearly Open Sets in Nano Topological Spaces"	14th Feb 2020
Innovative Inventions in Mathematics, Computers, Engineering & Humanities(ICIMCEH "20) Don Bosco College of Arts & Science, Keela Eral, Thoothukudi	Conference	International	Presented a paper on "New Notions in Ideal Topological Spaces"	14th Feb 2020
Advances in Mathematics Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Conference	National	Presented on "A New Locally Closed Sets in Nano Topological Spaces	12th and 13th March 2020
Advances in Mathematics Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi	Conference	National	Presented a paper on "A New Class of Nearly Open Sets in Nano Topological Spaces"	12th and 13th March 2020
Advances in	Conference	National	Presented a paper	12th and

Mathematics Dept. of Mathematics, St.Mary's College (Autonomous), Thoothukudi			on "Slightly - Continuous Functions & Totally-Continuous Functions in Ideal Topological Spaces"	13th March 2020
LaTeX V.O.Chidambaram College, Thoothukudi	Faculty Development Programme	National	Participated	29th April to 05th May 2020
Psychological First-Aid Department of Psychology, St.Mary's College (Autonomous), Thoothukudi	workshop	Online	Participated	11th May 2020
Mental health and psychosocial consideration during lockdown St.Mary's College(Autonomous), Thoothukudi in association with Aadhi Foundation	workshop	Online	Participated	13th and 14th May2020
Mathematical Sciences for CSIR-NET/SET/GATE Department of Mathematics, Sree Narayana Guru College, Coimbatore	workshop	Online	Participated	11th to 15th May 2020
Neuro Linguistic Programming Techniques for Teaching Excellence Sree Ramakrishna College of Arts and Science	Faculty Development Program Digital Learning Series		Participated	16th May 2020
Self Plagiarism – Ethical and Legal Dimensions Narsee Monjee College of Commerce & Economics, Mumbai	Webinar	National	Participated	18th May 2020
Managing Online Classes and Co-Creating	Faculty Development Programme		Participated	18th May to 3rd June

				2020
Moocs 20 Teaching Learning Centre, Ramanujan College, University of Delhi, Sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers And Teaching				
LaTeX Department of Mathematics, St. Teresa Arts and Science College for Women, Mangalakuntu	Workshop	Online	Participated	18th to 23rd May 2020
Mathematical Sciences for CSIR-UGC NET Aspirants Department of Mathematics, St.Mary's College(Autonomous), Thoothukudi	Workshop	Online	Participated	19th to 23rd May 2020
Mind Your Minds During Lockdown - To Counter Stress Department of Mathematics, V.O.Chidambaram College, Thoothukudi		Webinar	Participated	20th May 2020
Teaching using ICT Tools JP College of Arts and Science, Ayikudy, Tenkasi	Faculty Development Programme Teaching using ICT Tools		Participated	20th to 24th May 2020
Real Life Applications of Fuzzy Mathematics St.Peter's Institute of Higher Education and Research, Avadi, Chennai	Faculty Development Programme		Participated	22nd May 2020
Image Processing using Techniques using MATLAB JJ College of Arts and Science, Pudukkottai	Webinar		Participated	28th May 2020
Mathematical Documentation and Computation Using Online Tools	Webinar		Participated	28th and 29th May 2020

PG and Research Department of Mathematics, St.Mary's College (Autonomous), Thoothukudi				
Young Professionals: Plotting a Career Path… Post Pandemic St.Mary's College (Autonomous), Thoothukudi	Webinar		Participated	30th May 2020
Effective Usage of ICT Tools for Higher Education Servite Arts and Science College for Women, Thogamalai	Webinar	International	Participated	3rd June 2020
COVID-19 A Herculean Challenge to Human Immunology Department of Zoology, St.Mary's College (Autonomous), Thoothukudi	Webinar		Participated	5th June 2020
Applications of Graph Theory PG and Research Department of Mathematics, V.O.Chidambaram College, Thoothukudi	Webinar	National	Participated	7th June 2020
ICT Tools for Smart Teaching Servite College of Education for Women, Thogamalai	Workshop	National Online	Participated	18th June to 20th June 2020
COVID 19: The King of 2020 & Women and Health Care in the Covid-19 Scenario PG and Research Department of Mathematics, A.P.C. Mahalaxmi College for Women, Thoothukudi	Webinar		Participated	10th July 2020
Numbers PG and Research	Webinar	International	Participated	20th October

					2020
Department of Mathematics, St.Mary's College (Autonomous), Thoothukudi					

searchers :

going Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
P.Joycy ya	Certain Investigations on a New Class of Nearly Open Sets in Ideal Topological Spaces.	19212212092014 30.08.2019	Full Time		
Heartlin	A Study on New Class of Closed Sets in Ideal Topological Spaces.	19212212092006 28.08.2019	Full Time		
P.Suganya	Certain Investigations on a New Class of Nearly Open Sets in Nano Topological Spaces.	19222212092015 30.08.2019	Part Time		
F.Monisha	Certain Investigations on Proximity Spaces in Topological Spaces.	20112212092001 07.03.2020	Full Time		

Details of the Supervisor

1. **Name** : Dr. G. Priscilla Pacifica
2. **Designation** : Assistant Professor
3. **Address** : St.Mary's College (Autonomous), 104, North Beach Road, Thoothukudi -628001.
4. **Phone number** : 9047860831
5. **Mail ID** : priscillamelwyn@gmail.com
6. Permission letters of the supervisor (Guide ship approval letter)

Publications

a. Articles Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/ Impact factor No.
(gsp)**-closed sets in topological spaces	monthly	International Journal of Mathematical Archive	95-101	2015	ISSN : 2229 – 5046
pg**-closed sets in topological spaces	monthly	International Journal of Mathematical Archive	128-137	2015	ISSN : 2229 – 5046
Essential concepts of pg**-closed sets	monthly	International Journal of Mathematical Archive	30-35	2017	ISSN : 2229 – 5046
A New Generalization of closed sets in Bitopological spaces	monthly	Mathematical Sciences International Research Journal	203-209	2018	ISSN : 2278 – 8697
New Class of Continuous Functions in Bitopological Spaces	monthly	International Journal of Recent Research Aspects	580-584	2018	ISSN : 2349 – 7688

Various Characterization of (i,j)-*gp Closed Sets in Bitopological Spaces		Journal of Emerging Technologies and Innovative Research	775-126	2018	ISSN : 2349 - 5162
Symmetric Bi-T-Derivations of Incline Algebra		International Journal of Mathematics Trends and Technology	117-121	2018	ISSN : 2231 - 5373
Some topological concepts in penta topological space		International Journal of Mathematics Trends and Technology	109-116	2019	ISSN : 2231 - 5373
The Total Triangle free Detour Number of a Graph	Bi annual	Advances in Mathematics: Scientific Journal	2405-2413	2020	1857-8438
Steiner μ Distance in Fuzzy Graphs with Application	monthly	International Journal of Engineering and Advanced Technology	2156-2161	2020	ISSN : 2249 – 8958
Effectiveness of Video Programme to Plus Two Students		International Journal of Future Generation Communication and Networking	253-262	2020	ISSN : 22079645, 22337857
The Total Weak Edge Triangle Free Detour Number of a Graph	quarterly	Journal of the Maharaja Sayajirao University of Baroda	127-132	2020	ISSN : 0025 – 0422
A Result on Total Triangle Free Detour	quarterly	Journal of the Maharaja	121-124	2021	ISSN : 0025 – 0422

Number of a Graph		Sayajirao University of Baroda			
The Total Weak Edge Triangle Free Detour Number of Some Special Graph		Proceedings of International conference of Advanced Research in Mathematical Sciences	316-321	2021	ISBN : 978-93-85434-84-6
The Upper Total Triangle Free Detour Number of a Graph	Bi annual	Turkish Journal of Computer and Mathematics Education	6867-6869	2021	ISSN : 1309-4653
Existence of Total Triangle Free Detour Graph		Proceedings of International Conference on Advanced Mathematical Modeling and Computational Techniques	77-83	2021	ISBN : 978-93-85434-84-6

4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Year
"Recent Trends In Mathematics"	Seminar	National	Participated	2016
"Cosmic Concerns: An Interdisciplinary Dialogue In Applied Ethics"	Conference	National	Participated	2017
International Conference on Algebra and Discrete Mathematics	Conference	International	Presented	2018
International Conference on Applications of Mathematics	Conference	International	Presented	2018
International Conference on Recent Trends in Multi-Disciplinary Research	Conference	International	Presented	2018
First International Conference on Recent Innovations in Applied Sciences, Engineering & Technology	Conference	International	Presented	2018
International Conference on	Conference	International	Presented	2018

Computing Sciences.				
Emerging Trends in Advanced Mathematics - ISETAM	Instructional School	-	Presented	2019
E-Content: Processing and Development	Workshop	-	Participated	2019
MATLAB based Mathematical Applications - Hands on Training	Workshop	-	Participated	2019
Applied Mathematics and Intellectual Property Rights (ICAMIPR-2020)	Conference	International	Presented	2020
Advances in Mathematics	Conference	National	Presented	2020
MANAGING ONLINE CLASSES AND CO-CREATING MOOCS	FDP	-	Participated	2020
Psychological First-Aid	Webinar	-	Participated	2020
Selection of Appropriate Statistical Tools: A Critical Way for Successful Research	Webinar	-	Participated	2020
Two day online workshop on Mental Health and Psychosocial	Online Workshop	-	Participated	2020

Consideration During Lockdown				
Digital Teaching Techniques	Online Certificate Course		Participated	2020
Advanced Research in Mathematical Sciences	Conference	International	Presented	2021
Recent Trends in Multi-Disciplinary Research	Conference	International	Presented	2021
Recent Advancements in Mathematics	Conference	International	Presented	2021
Two day International Conference on Computational and Applicable Mathematics (ICCAM-2021)	Conference	International	Presented	2021
International Conference on Advanced Mathematical Modeling and Computational Techniques ICAMMCT-2021	Conference	International	Presented	2021

5. Organized

Title	Conference/ Seminar	Level: State/ National/ International	Budget	Proceedings
A Special Lecture On Embedding	Lecture	International	-	-

Problems In Interconnection Networks					
Trends In Mathematics	Seminar	International		-	-

Researchers :

a) Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
P.Manisha Rebecca 16A,Amman kovil street(west), DSM Cottage, Thoothukudi-628008	Studies on graph theory in human body	19212212092003/ 16.07.2019	Full Time	-	
S.Lourdu Elqueen 14-1,Annie Nagar, Seevalaperi Road, Palayamkottai, Thirunelvali-627002	A study on square free detour distance in graph	19212212092009/ 28.08.2019	Full Time	-	
J.Jenit Ajitha 313,First Street, Sundaravelpuram (West), Thoothukudi-6288002.	A Study on Fuzzy Domination	19222212092011/ 30.08.2019	Part Time	-	
K.Christy Rani Bon Secours Convent, Beach Road, OLS Campus, Thoothukudi-628001	Studies on Square Free Detour Number of Graphs	20122212092002/ 07.03.2020	Part Time	-	

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Permissionlettersofthesupervisor(Guideshipapprovalletter)

Publications

Books/ Book Chapter Published

Title	NameoftheJournal	Page	Rate	year	BookNo.
Investigating Functions on Closed Sets in Topological Spaces	Theory and Practices of Mathematics and Computer Sciences	14-20		Feb 2021	978-93- 90516-98-8
Contra Soft * - Continuous Function In Soft Topological Spaces.	Advances And Applications In Mathematical Science.	1-8		June 2021	978-93-90146-22-2
A Study on Soft ARS Closed Sets in Soft Topological Spaces	Current Topics on Mathematics and Computer Science	100-105		June 2021	978-93-91312-37-4
More Functions Associated With Neutrosophicgs α* - Closed Sets In Neutrosophic Topological Spaces .	Advanced Topics Of Topology.			Sep 2021	978-1-80355-094-7

ArticlesPublished

Title	NameoftheJournal	Page	year	Journal No.ISBN/ISSN/ ImpactfactorNo.
Neutrosophic Generalized Semi Alpha Star Closed Sets In Neutrosophic Topological Spaces.	Hunan DaxueXuebao/Journal Of Hunan University Natural Sciences	1156 - 1175	2021	1674 – 2974/0.48
Some Properties of Soft ARS Compactness and Countability Axioms in Soft Topological Spaces.	STRAD Journal	78-85	2021	0039- 2049 / 6.1
On Soft ARS Closed Sets in Soft BiTopological Spaces	GIS Science Journal	1246-1252	2021	1869- 9391/3.545
On Soft Strongly ARS Continuous function in Soft Topological Spaces	International Journal of Interdisciplinary Cycle Research	1345-1350	2020	0022-1945
Nano α*ASContinuousi Nano Topological spaces	Studies in Indian Places		2020	4402-4414/6.3
Soft ARS Open and Closed mappings in Soft Topological Spaces	Studies in Indian Places	2558-2566	2020	4402-4414/6.3
Nano α*AS Homeomorphisms in Nano Topological spaces	Special Issue on Multidisciplinary Academic Research Studies	108-116	2020	
On a new class of Generalized Closed sets in Nano Topology	Our Heritage	99-104	2020	0474-9030/6.5
On soft ARS continuous mappings in soft topological spaces	International journal of engineering ,Science and Mathematics	29-47	2020	2320-0294/6.765
On contra soft ARS Closed sets	Advances in Mathematics	921-926	2020	1857-8365/1.494

in soft topological spaces					
Soft ARS Locally Closed Sets in Soft Topological Spaces	DogoRangsang Research Journal	80-88		2020	2347-7180
α*AS - Continuous In Topological Space	Journal of the Maharaja Sayajirao University of Baroda	67-72		2020	0025 – 0422
Contra Nano α*As Continuous Function in Nano Topological Space	Journal of Xi'an Shiyou University	151-156		2020	1673-064X
Soft AR S closed sets in soft topological spaces.	Advances in Mathematics	2615-2629		2020	1857-8365/1.494
Characterization Of Soft ARS closed sets in Soft Topological Spaces	International Journal of Analytical and Experimental Modal Analysis	1865-1874		2020	0886-9367/6.3
Functions on α *g – open set in Topological Spaces	International Journal of Mathematics Trends and Technology	32-37		2019	2349-5758/1.65

ParticipationDetails(Conference/Seminar/Workshop/Symposium)

Title/Institution	Conference/Seminar/Workshop/Symposium	Level:State/National/ International	Status ofParticipationPresentation/Participator	Year
Learning to live with COVID -19:Embracing the New Reality	Webinar	National	Participated	11.07.2020
An Update On Covid -19	Webinar	International	Participated	10.07.2020
Research Capacity Buliding under UGC Scheme, Stride Component -1	FDP	National	Participated	15.06.2020-17.06.2020
Outcome Based Education and Accrediation	FDP	National	Participated	25.05.2020-29.05.2020
Mental Health and Psychosocial	Workshop	National	Participated	13.05.2020-14.05.2020

Consideration during Lockdown				
Psychological First -Aid	Webinar	National	Participated	11.05.2020
Managing Online Classes And Co-Creating MooCs	FDP	National	Participated	20.04.2020 – 06.04.2020
E Content : Processing and Development	Workshop	State	Participated	18.03.2019 – 22.03.2019
Instructional School on Emerging Trends in Advances Mathematics ISETAM	Seminar	National	Presented	11.02.2019 – 12.02.2019
Recent Trends in Mathematics and Information Technology	Conference	International	Presented	01.03.2018- 02.03.2018
Recent trends in Mathematics	Conference	International	Presented	14.12.2017- 16.12.2017
Emerging trends in Modern Mathematics	Seminar	National	Participated	31.03.2017
Discrete and Computational Mathematics	Conference	International	Presented	16.02.2017 – 18.02.2017
Cosmic Concerns : An Interdisciplinary Dialogue In Applied Ethics	Conference	National	Participated	27.01.2017 – 28.01.2017
TCI (Theme Centered Interactions)	Workshop	International	Participated	17.01.2017- 22.01.2017
Recent Trends In Mathematics	Seminar	National	Participated	14.12.2016

Researchers:

a) OngoingScholars

Name &Address	Title	Register. No &Date ofCommencement	FullTime/PartTime	Fellowship	Completed
K.RajendraSuba	Some Characterizations of a New Class of Soft A₊S closed sets in Soft Topological Spaces	19122212092012	Full Time	-	-
S.Anitha Ruth	Soft Topology	19122212092001	Part Time	-	-
J.SahayaDani	Some Characterizations of	19222212092010	Part Time	-	-

	a New Class of Generalized Closed Sets in Topological Spaces.				
S Maheswari	Some Characterizations of a New Class of Nearly Open Sets in Micro Topology	20212212092003	Full Time	-	-

Details of the Supervisor

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Permissionlettersofthesupervisor(Guideshipapprovalletter)

Publications

a) Articles Published

Title	Name of the Journal	Page	year	Journal No.ISBN/ISSN/ ImpactfactorNo.
On Semi*δ-Open Sets in Topological Spaces	IOSR Journal of Mathematics	01-06	2016	e-ISSN: 2278-5728, p-ISSN: 2319-765X
Between δ-Closed Sets and δ-Semi-Closed Sets	International Journal of Mathematical Archive	60-67	2016	ISSN 2229-5046
Continuous and Irresolute Functions Via Star Generalised Closed Sets	International Journal of Modern Engineering Research	58-64	2016	ISSN 2249-6645
A class of New Closed Sets in Bitopological Settings	Global Journal of Pure and Applied Mathematics	70-76	2017	ISSN 0973-9750.
Contra Semi*δ-Continuous Functions in Topological Spaces	International Journal of Mathematics And its Applications	19-30	2017	ISSN 2347-1557
More Functions	International	148-154	2017	ISSN

Associated with Semi*δ-Open Sets	Journal of Mathematical Archive			2229-5046
Separation Axioms Via Semi*δ-Open Sets	International Research Journal for Mathematical Sciences	194-199	2017	ISSN 2278-8697
On Semi*δ-Connected and Semi*δ-Compact Spaces	Proceedings of the International Conference on Algebra and Discrete Mathematics	472-478	2018	ISSN 2348-6600
On Semi*δ-regular and Semi*δ-normal Spaces	International Journal of Science, Engineering and Management	479-482	2018	ISSN 2456 - 1304
A New Type of Quasi-open and Quasi-closed functions in Topological spaces.	Journal of emerging technologies and innovative research	309-312	2019	ISSN 2349 - 5162
On Semi* δ-Homeomorphism in Topological Spaces	International Journal of Advanced Scientific Research and Management	277-283	2019	ISSN 2455 - 6378
Semi*δ-Locally Closed and Continuous Functions	Journal of emerging technologies and innovative research	927-932	2019	ISSN 2349 - 5162
A New Class of Nearly Open Sets in Topological Spaces	International Journal of Mathematics Trends and Technology	08 - 13	2020	ISSN 2231- 5373.
Between Regular*-Closed Sets and Semi-Pre-Closed Sets	Compliance Engineering Journal	418 - 427	2020	ISSN 0898-3577
Semi-Regular*-Continuous Functions	Compliance Engineering Journal	122-131	2020	ISSN 0898-3577

ParticipationDetails(Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Year
Research Advances in Mathematics and its Applications	FDP	International	Participated	02.08.2021-14.08.2021
Online International Faculty Development Programme on Recent Trends in Mathematics.	FDP	International	participated	21.06.2021-25.06.2021
National Webinar on Applications of mathematics	Webinar	National	participated	05.03.2021
National Webinar on "Increasing Visibility in the Research World Using Academic and Social Media".	Webinar	National	participated	31.10.2020
International Webinar on Numbers	Webinar	International	participated	20.10.2020
National Webinar on Learning to live with COVID-19: Embracing the New Reality	Webinar	National	participated	11.07.2020
International Webinar on An Update of Covid 19	Webinar	International	participated	10.07.2020
Webinar on International Asteroid Day 2020 - Awareness Program	Webinar	State	participated	29.06.2020
Webinar on Online Tools for Teachers and Administrators	Webinar	National	participated	27.06.2020

Second International Conference on Algebra and Discrete Mathematics – ICADM 2020	Conference	International	participated	24.06.2020-26.06.2020
International Web Conference on Advances in Mathematics	International Web Conference	International	participated	17.06.2020-19.06.2020
Webinar on Mathematical Paradoxes	Webinar	State	participated	13.06.2020
Online Workshop on Mathematical Analysis(MATAN A 2020)	Workshop	National	participated	08.06.2020-13.06.2020
Webinar Series on Everything About Fuzzy	Webinar	National	participated	05.06.2020-08.06.2020
International FDP on Invisible Scholars: Students with Learning Disabilities & Identification of Students with Learning Disabilities	Webinar	International	participated	02.06.2020
Webinar on Mathematical Documentation and Computation using Online Tools	Webinar	State	participated	28.05.2020-29.05.2020
Online Workshop on Mathematical Sciences for CSIR-UGC NET Aspirants	Webinar	National	participated	19.05.2020-23.05.2020
Two-day Workshop on Mental Health and Psychological Consideration During Lockdown	Workshop	National	participated	13.05.2020-14.05.2020
Webinar on The Power of You	Webinar	National	participated	11.05.2020

Webinar on Psychological First Aid	Webinar	Local	participated	11.05.2020
National Conference on Advances in Mathematics	Conference	National	Paper presented	12.03.2020-13.03.2020
One Week Capacity Building Workshop on E-Content Development	Workshop	Local	participated	18.02.2020-22.02.2020
International Conference on Innovative inventions in Mathematics, Computers, Engineering & Humanities	Conference	International	Paper presented	14.02.2020
Instructional School on Emerging Trends in Advanced Mathematics	National	National	Paper presented	11.02.2019 - 12.02.2019
Recent Trends in Multi-Disciplinary Research	Conference	International	Paper presented	20.12.2018-21.12.2018
Recent Trends in Multi-Disciplinary Research	Conference	International	Paper presented	19.04.2018 - 20.04.2018
Applications of Mathematics	Conference	International	participated	11.01.2018
Algebra and Discrete Mathematics	Conference	International	Paper presented	08.01.2018 - 10.01.2018
Advances in Mathematics and Computer Science	Conference	International	Paper presented	14.12.2017 - 16.12.2017
Academic and Research Integrity in the Digital World	Seminar	National	participated	09.12.2017
International Conference on	Conference	International	Paper presented	16.02.2017-18.02.2017

Discrete And Computational Mathematics				
Cosmic Concerns: An Interdisciplinary Dialogue in Applied Ethics	Conference	National	participated	27.01.2017- 28.01.2017
Recent Trends In Mathematics	Seminar	National	Participatd	14.12.2016
National Seminar on Multi Disciplinary Research	Seminar	National	participated	20.02.2016
IQAC" Quality Enhancement in Higher Education: Teaching, Learning & Evaluation	Seminar	National	participated	07.01.2016 08.01.2016
Technology Integrated Teaching – TIT 2014	Workshop	National	participated	05.12.2014 06.12.2014
International Year of Mathematics for the planet earth 2013	Seminar	National	Participatd	17.07.2014 - 18.07.2014
Institutional Quality Improvement: Role of Information and Communication Technology	Seminar	National	Participatd	31.1.2014 – 01.02.2014

8. Researchers:

a) Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
K. Ambika	Studies In Soft Topology: A New Class Of Nearly Open Sets and its Characterizations	21122212092006 & 07.10.2021	Part Time		
M. Kanaga	Some Contributions to a New Class of Nearly Open Sets in Soft Topological Spaces	21122212092007 & 08.10.2021	Part Time		
M. Karthika	Studies In Neutrosophic Topology: A New Class Of Nearly Open Sets and its Properties	21122212092004 & 09.10.2021	Full Time		

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