

**Government Arts college (Autonomous), Coimbatore – 18**  
**Performance - Teacher Appraisal Report**

**i) General Information**

a) Name : **Dr. GNANAMBAL ILANGO**

b) Address (Residential): 8-A, Welcome street,  
Nalvar Nagar,  
Kalveerampalayam,  
Coimbatore – 641 046

Mobile No. 98422 18333  
9123538703

c) Designation : Associate Professor

d) Department : Mathematics

e) Date of Birth : 08.12.1968

f) Area of Specialization: General Topology



**A) Academic Qualifications**

Exam Passed	Subjects	Board/ University	Year	Division/ Grade/ Merit, etc.
High School	Maths ,Science and Social Science	State Board	1984	88% - First class
Higher Secondary or Pre-degree	Maths, Physics, Chemistry and Biology	State Board	1986	80% - First class
Bachelor's Degree (s)	Mathematics	Madurai Kamaraj University	1989	University first
Master's Degree (s)	Mathematics	Alagappa University	1991	University first
M.Phil	Mathematics	Alagappa University	1992	University first
Ph.D	Mathematics	Bharathiar University	1999	

Other Diploma/ Certificates etc.	Mathematics	UGC -JRF	1993	
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## ii) Research Experience & Training

Research Stage	Title of work / Thesis	University where the work was carried out
M. Phil. or Equivalent	Distinguished subspaces of FK spaces.	Alagappa University, 1992
Ph. D.	Studies on generalized pre regular closed sets and generalizations of locally closed sets	Bharathiar University, 1999
Post-Doctoral	-	
Publications (give a list separately)	Please refer <b>Appendix - A</b>	
Research Guidance (give names of students guided successfully)	<b>M.Phil. Guidance: 20 completed</b> <b>Ph.D. Guidance : 12 completed</b> 3 pursuing	
Training (please specify)		

## B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks
1	Applications of digital topology in Medical field	UGC(Minor research project)	18 months Nov '13 – Apr'15	completed

## C) Seminars, Conferences, Symposia Workshops etc. attended (If necessary give a separate list)

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
Indian Science Congress held in New Delhi	Indian Science Congress	New Delhi, 3 <sup>rd</sup> -8 <sup>th</sup> Jan,1997
National Conference on Recent trends in Topology	NGM College	Pollachi, 1 <sup>st</sup> and 2 <sup>nd</sup> March 1997
Workshop on the software 'LATEX	St.Joseph's College	Trichy, 27.01.2003

National Conference on The Recent Trends in applied Mathematics	Kumaraguru College of Technology	Coimbatore, 25 <sup>th</sup> and 26 <sup>th</sup> April 2003
Seminar in Mathematics	Cochin University of Science and Technology	Cochin, 30 <sup>th</sup> and 31 <sup>st</sup> May 2003
Seminar on 'The Echo of Analysis'	Nirmala College for Women	Coimbatore, 22.09.04
International conference on 'Discrete Mathematics and its Applications'	Amrita Vishwa Vidhyapeetham	Coimbatore, 9-11, December 2004
Workshop on Recent Trends in Mathematics	Govt. Arts College	Coimbatore, 3 <sup>rd</sup> and 4 <sup>th</sup> March 2008
National conference on Applications of Fuzzy sets and Fuzzy Logic	Govt. Arts College	Coimbatore, 22 <sup>nd</sup> and 23 <sup>rd</sup> October 2008
International Conference on Mathematics and Computer Science	Loyola College	Chennai, 8 <sup>th</sup> and 9 <sup>th</sup> January 2009
National workshop	Nirmala College for Women	Coimbatore, 13 <sup>th</sup> & 14 <sup>th</sup> August 2012
State level conference	Islamiah college	Vaniyampadi, 16.03.2014
<b>INTERNATIONAL CONFERENCE</b>	<b>IEEE CONFERENCE held at BOSTON</b>	<b>USA during June 24<sup>th</sup> to 26<sup>th</sup> 2014</b>
National conference	Nirmala College for Women	Coimbatore, 06.01.2015
National Conference	Sri Sarada College for Women	Salem, 11 <sup>th</sup> to 12 <sup>th</sup> Feb 2015
National seminar	Avinashilingam University	Coimbatore, 12 <sup>th</sup> -13 <sup>th</sup> Feb 2015
International Conference	Bharathiar University	Coimbatore, 24 <sup>th</sup> to 26 <sup>th</sup> March 2016
ICIFSS 2018	Vellalar College for Women	Erode, 8 <sup>th</sup> to 10 <sup>th</sup> Jan 2018
National workshop	Nirmala College for Women	Coimbatore, 13 <sup>th</sup> & 14 <sup>th</sup> August 2018
National Webinar	Mathematical Documentation and Computation using online tools, St. Mary's College, Thoothukudi	28.05.2020 to 29.05.2020
Refresher course	Swayam Arpit online course certification, IIT Bombay	Oct'19 to Jan 20 Exam Date 16.02.2020
National Webinar	Covid 19:The king of 2020's & women and Health care in the covid - 19 Scenario, A.P.C Mahalaxmi College for Women ThoothukudiTamilnadu	10.07.2020

National Webinar	Role of Mathematics in Future IT and Industrial Trends, NalamuthuGounderMahalingam College Pollachi	29.06.2020
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National Webinar	Mathematical and Computational biology, RathnavelSubramaiyam College of Arts and Science Sulur, Coimbatore	24.11.2020 to 25.11.2020
National Webinar	Moodle Learning Management System, Government Arts College for Women College Salem	02.06.2020 to 06.06.2020
National Webinar	Sage for Mathematics and Engineering, Bannari Amman Institute Technology Erode	07.08.2020
National Webinar	Topology and its Application, Kongunadu Arts and Science College Coimbatore	17.11.2020
National Webinar	Managing Online Classes and CoCreationMoocs, Teaching Learning Center Ramanujan College University of Delhi	20.04.2020 to 06.05.2020
National Webinar	Moodle : A Quick Tour, Chikkanna Government Arts College Tirupur	12.06.2020
National Webinar	Matlab, Bharathiar University Coimbatore	10.03.2021 to 17.03.2021
National Webinar	Linear Algebra theory and Application, Kongunadu Arts and Science College Coimbatore	30.11.2021 to 03.12.2021
National workshop	Workshop on Linear Algebra - PG and Research Department of Mathematics, Government Arts College (A), CBE	04.05.22
National Seminar	On 'Popularizing Millets' Department of Botany, Government Arts College, Coimbatore -18	14.02.2023
National Online Workshop	On Advanced Excel Formulas Skill Nation	10.08.2023

### iii) Teaching Experience

Courses Taught	Name of the University / College / Institution	Duration
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iv) UG (BA / B.Sc., etc. Pass) (BA / B.Sc., etc. Hons.)	B.E – Kumaraguru College of Technology B.Sc – Government Arts College, Coimbatore	Sep'98 – Dec.2007 Dec'2007- till date
v) PG (MA / M.Sc., etc.)	M.E – Kumaraguru College of Technology	1999 – 2007

	M.Sc – Government Arts College, Coimbatore	2008-till date
vi) M. Phil	Government Arts College, Coimbatore	2009 – till date
vii) Ph.D	Government Arts College, Coimbatore	2009 – till date

Period	Designation	Nature of work	Experience
Aug '94 – July'96 Aug 96 - Aug 98	Junior research fellow Senior research fellow	Research Research	2 years 2 years
Sep'98 – Sep'2003	Lecturer, Department of Mathematics Kumaraguru College of Technology Coimbatore-6	Teaching	5 Years
Oct'2003 – Dec'2007	Senior Lecturer, Kumaraguru College of Technology Coimbatore-6	Teaching	4 Years, 2 months
Dec'2007 – Till Date	Asst.Professor Government Arts College Coimbatore – 18	Teaching	15 Years+

**Total Teaching Experience (in years and months) :**

- a) Under-graduate (Pass) : 25 years  
b) Under-graduate (Hons.) :  
c) Post-graduate : 24 years

**viii) Innovations/ Contributions in Teaching (If necessary give a separate list)**

a) Design of Curriculum :	Have been a member of Board of Studies for some colleges
b) Teaching methods :	Chalk and Board
c) Laboratory experiments :	-

d) Evaluation methods :	Oral and written test
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	Books -3 Have been a part of preparing Bridge course material for UG students under the guidance of then Education Secretary Mrs Apoorva,IAS
f) Remedial Teaching / Student Counseling (academic) :	Done for needy students
g) Any other :	Have conducted NET coaching classes for our college and other college students Undergone training on content enrichment at state council for educational research and training On 30.07.2013 and have conducted a training programme on content enrichment for PG teachers at the District Institute for education and training on 30.09.2013.

**ix) Research Contribution**

**a) . PhD/M.Phil undergoing scholars**

S.No	Name of the PhD/M.Phil(PT/FT) Scholar	Name of the University	Broad Field	Registration Number	Year of registration
1.	G.Revathi(FT)	Bharathiar University	Topology		01.10.2019
2.	R.Kalaiselvan(PT)	Bharathiar University	Topology		01.12.2021
3.	A.Tamilpriya(PT)	Bharathiar University	Topology		01.12.2021

**b) .PhD/M.Phil Awarded**

S.No	Name of the PhD/M.Phil(PT/FT) Scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
1.	R.Maruthachalam (PT)	Bharathiar University	“Application of Digital Topological Concepts for Denoising and Segmenting of Medical Images”.	2009	21.03.2014



2.	T. Sampooram (PT)	Bharathiar University	“On Intuitionistic Fuzzy Generalized Pre-Semi Closed Sets in Intuitionistic Fuzzy Topological Spaces”.	2009	21.09.2015
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3.	S.Selvanayagi(PT)	Bharathiar University	“A study on Intuitionistic Topological Spaces and IGPR Closed Sets”.	2012	03.04.2017
4.	N.Selvanyagi(PT)	Bharathiar University	A study on a generalized regular weakly closed sets in topological	01.09.2012	18.08.2018
5.	A.Singaravelan(FT)	Bharathiar University	A study on intuitionistic $\beta$ open sets	01.07.2015	18.08.2018
6.	Mrs.Vidhya Menon(PT)	Bharathiar University	A study on supra generalized pre regular closed sets	01.11.2017	14.12.2018
7.	T.A.Albinaa(FT)	Bharathiar University	A study on intuitionistic $\alpha$ open sets	01.07.2015	12.04.2019
8.	B.Shanthi gowri(PT)	Bharathiar University	Region based segmentation on medical images using metric topology	01.07.2015	15.04.2019
9.	Mrdhula ravindran(PT)	Bharathiar University	A study on soft preopen sets in soft topological spaces	01.09.2012	30.12.2020
10.	M.Thiruchelvi(PT)	Bharathiar University	A study on fuzzy generalized semipre-regular closed sets	01.07.2015	21.12.2021
11.	S.Girija(PT)	Bharathiar University	Some characteistizations & intritionistic semi open sets	01.09.2013	19.01.2022
12.	A.Maheswari(FT)	Bharathiar University	A study on topological near groups	01.10.2016	20.04.2023
	<b>M.Phil</b>				
1.	D. Abiramisundari (FT)	Bharathiar University	Thinning algorithm in digital topology		JAN 2010
2.	S. R. Saratha (PT)	Bharathiar University	Axiomatic digital topology		SEPT 2010
3.	S.Kalaiselvan(FT)	Bharathiar University	Some application of fuzzy logic		NOV 2010
4.	B. Arun (FT)	Bharathiar University	Soft semi - open sets and soft $\alpha$ - open sets in soft topological spaces		FEB 2013
5.	K. Saravanakumar (FT)	Bharathiar University	Soft gen closed sets and soft semi preopen sets in soft topological spaces		FEB 2013

6.	N. Kavitha(PT)	Bharathiar University	A study on intuitionistic topological spaces		OCT 2013
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7.	A. Princy (PT)	Bharathiar University	Some generalized set in supra topological spaces		
8.	K.Kavitha(FT)	Bharathiar University			
9.	M.Sangeetha(FT)	Bharathiar University	A study on thresholding methods of segmentation using matlab		SEP 2014
10.	M.Nagarajan(FT)	Bharathiar University	A study on edge-detection methods of segmentation using matlab		SEP 2014
11.	S.Keerthika(FT)	Bharathiar University			
12.	RASHEEDA	Bharathiar University		2010	
13	G.Revathi	Bharathiar University		2015	MAR 2017
14	Tamilselvi	Bharathiar University		2015	2017
15.	P.Santhanalakshmi	Bharathiar University	A study on neutosophic $\alpha$ - open set	01.11.2016	09.04.2018
16.	P.Kalaivani	Bharathiar University	A study on mapper and its application	01.11.2017	08.02.2019
17.	T. Sam wilson	Bharathiar University	Application of homology in protein structure	01.11.2017	11.03.2019
18.	S.Vivek	Bharathiar University	Compactness in ideal topological space and its applications	01.11.2016	11.03.2019
19.	S.Mugunthan	Bharathiar University	An application of persistent homology	01.11.2017	29.03.2019
20.	V.Janani	Bharathiar University	Topological vector spaces	01.11.2018	21.02.2020

**x) Extension Work/ Community Service (If necessary give a separate list)**

**a)** Please give a short account of your contribution to:

i) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family normsetc.

Contributed one month salary to Kaja relief fund. Also , sent some relief materials to Kaja affected areas with the help of friends group.

ii) National Literacy Mission

**b) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity**

Handled some soft skill classes at our college soft skill centre.

**c) Participation in Corporate Life**

Please give a short account your contribution to:

a) College/ University / Institution	Had been the organizing secretary for the National Conference on Recent Developments in Mathematics (NCRDM 2019) held in our
	department. Co ordinated with IQAC team in preparing its report of purchase of Kyan for various departments. Served as tutor for 2 PG batches and 2 UG batches of mathematics students.
b) Co-curricular Activities	Support our students to participate in various competitions held outside the college campus and encourage them to take part in MTTS training programmes
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	-
d) Students Welfare and Discipline	Encourage our research students to present papers in National and International conferences, attend seminars and workshops held in other institutions and to take up NET exam.
e) Membership / Participation in Bodies / Committees on Education and National Development	Co ordinated Research programmes in our department for the past three years.
f) Professional Organization of Teachers	Member of women welfare unit in our college

**d)**

(a) Membership of Professional Bodies, Societies etc.

(b) Editorship of Journals

**PROFESSIONAL MEMBERSHIP :**

**Life Member** : AICTE ; AMTI

**e) Any other information**

**Attended the IEEE International Conference held at Boston ,USA during 24<sup>th</sup> -26<sup>th</sup> June 2014 and presented a paper .**

**Acted as reviewer for few journals.**

**Acted as resource person for various institutions.**

**Reviewer:**

1. For the Proceedings of the National Conference at Kongunadu Arts and Science College during 22<sup>nd</sup> and 23<sup>rd</sup> Dec 2016
2. For the Proceedings of the National Conference at Kongunadu Arts and Science College during 14<sup>th</sup> -16<sup>th</sup> Feb 2018

**BOARD OF STUDIES MEMBER :**

**Attended Board of studies meeting at**

1. Nirmala College for Women on 15.04.2013.
2. CMS College of Science and commerce on 19.08.2013.
3. Kongunadu College of Arts and Science on 01.03.2014.
4. P.S.G.R Krishnammal College for Women on 27.02.2016.
5. VLB Janakiammal College of Arts and Science on 28.04.2016.
6. VLB Janakiammal College of Arts and Science on 24.02.2018.

**EXTERNAL EXAMINER : Conducted Ph.D viva voce examinations, M.Phil viva voce and M.Sc project viva voce in other colleges.**

1. External Examiner for PG viva voce examination in P.S.G.R Krishnammal College for Women on 03.04.2013
2. M. Phil valuation in Bharathiar University during 03.12.2013 to 04.12.2013
3. M. Phil valuation in Bharathiar University on 12.12.2013
4. Central UG valuation at Bharathiar University during 17<sup>th</sup> and 18<sup>th</sup> Dec 2014
5. DC member in Centre for Research at Bharathiar University on 29.12.2014
6. DC member at Maths Dept, PSG college for Technology on 17.07.2015
7. DC member at Maths Dept, Bharathiar University on 17.10.2015
8. DC member at Maths Dept, Coimbatore Insitute of Technology on 17.10.2015
9. DC member at Maths Dept, RVS Technical Campus on 29.12.2016
10. DC member at Maths Dept, Kongunadu College of Arts and Science on 05.01.2016
11. M. Phil viva voce at Maths Dept, Sri Sarada College for Women, Salem on 06.04.2016
12. Ph.D viva voce at Maths Dept, Sri Sarada College for Women, Salem on 10.04.2017
13. Ph.D viva voce at Maths Dept, Sri Sarada College for Women, Salem during May 2017
14. DC member at Maths Dept, Kongunadu College of Arts and Science on 02.04.2018
15. External Examinar for Ph.D viva voce at Maths Dept, Islamiah College (A), Vaniyambadi on DEC-2020



## **FACULTY DEVELOPMENT PROGRAMMES ATTENDED (GENERAL)**

- Training course on **International Quality Audit** from 19.04.2001 to 20.04.2001.
- Training program **The Beginner's Course of the Intel Teach to the Future** at Kumaraguru College of Technology, from 4.12.2001 to 29.01.2002.
- Workshop on **Management Skills** under faculty development programme arranged by Career Development Academy, Kumaraguru College of Technology, Coimbatore from 21st to 24th April 2004.
- Orientation programme conducted by Teachers Recruitment Board, Chennai from 26.12.2007 to 24.01.2008
- Refresher course on "Women Studies" conducted by UGC-Academic Staff College, Bharathiar University, Coimbatore from 9.11.2011 to 29.11.2011.
- Refresher course on Applied Mathematics and Statistics conducted by Human Resource Development cell, Bharathiar University from 5<sup>th</sup> July to 26<sup>th</sup> July 2017.
- Refresher course on "Effective teaching skills" conducted by HRDC Pondicherry University from 04.12.2019 to 17.12.2019
- Swayam ARPIT Course conducted by IIT Bombay from OCT- 2019 to JAN- 2020
- FDP conducted by Teaching learning Centre, Ramanujam College, Delhi University from 20.04.2020 to 06.05.2020

## **BOOKS PUBLISHED**

- Engineering Mathematics 1. -As per Anna University Syllabus-First Edition-2005 published by Inder Publications.
- Engineering Mathematics 111. - As per Anna University Syllabus-First Edition-2005 published by R.K.Publications, Coimbatore.
- Engineering Mathematics 11. -As per Anna University Syllabus-First Edition- 2006published by Inder Publications.Coimbatore
- Engineering Mathematics (Annual Pattern)-As per Anna University Syllabus-First Edition-2006 published by Inder Publications.Coimbatore.
- Engineering Mathematics – III , 2006- Vignesh Publications – Coimbatore.

## **AWARDS WON**

- Gold medalist in B.Sc , M.Sc and M.Phil degree courses

**(Signature of the Teacher)**

## Appendix - A

### Papers Published in Journals/Conference Proceedings

1997

1. On generalized pre-regular closed sets in topological spaces, Indian Journal of

1998

Pure and Applied Mathematics, 28 (3) (1997), 351-360 (SCI)

2. On generalized locally semi closed sets and GLSC continuous functions, Far East Journal of Mathematical Sciences, Special Volume (1997), 189-200.

3. On  $\beta$ -locally closed sets and  $\beta$ -LC continuous functions, Memoirs of Faculty of Science, Kochi University, Vol 19(1998), 35-44

1999

2011

2013

2012

4. GPR – continuous functions, Indian Journal of Pure and Applied mathematics , 30(6)(1999)581-593 (**SCI**)
5. New hybrid filtering techniques for removal of speckle noise from ultrasound medical images, Scientia Magna, Vol. 7 (2011), No. 1, 38-53.
6. New hybrid filtering techniques for removal of Gaussian noise from medical images, ARPN journal of Engineering and Applied Sciences, Vol 6, No 2(2011), 8-12
7. Center weighted hybrid filtering techniques for denoising of medical images, Proceedings of the World Congress on Engineering and Technology, IEEE Press, 2011
8. Fuzzy Hybrid Filtering Techniques for removal of random noise from medical images, International Journal of Computer Applications, 38(1)(2012)15-18
9. A new hybrid filtering technique for removal of impulse noise from digital images, International Journal of Mathematical Archive, 3(6)(2012),1-6. (**SIS**)
10. Fuzzy center weighted hybrid filtering techniques for denoising of medical images, International Journal of Fuzzy Mathematics and Systems, Vol 2, No 4 (2012) 383- 390.
11. Some more filtering techniques for the removal of speckle noise from medical images, International Journal of Scientific research, Vol 3 (11)(2012) 145- 150.
12.  $\varepsilon$  - neighbourhood median filters to remove speckle noise from CT-images, International Journal of Applied Information Systems, Vol 4, No 10(2012) 40-46.
13. “ On generalized pre-regular closed sets in supra topological spaces”, International Journal Of Scientific & Engineering Research , 3(11) (2012), 6-11
14. Topological concepts applied to Image Segmentation, Journal of Advanced

Studied in Topology, Vol 4, No.1, 128-132.

**15.** Generalized Pre-Semi closed sets in topological spaces, International Journal of Mathematical Archive-4(6),2013,1-4 (**SIS**)

**16.** Generalized pre-semi continuous and irresolute mappings in intuitionistic fuzzy topological spaces, International Journal of Innovative Research in Science , Engineering and Technology, Vol 2, No 8(2013),4034-4040. (**SCOPUS**)

**17.** On generalized pre-semi closed sets in intuitionistic fuzzy topological spaces, International Journal of Science and Technology,2(11),(2013),804-809. (**SCOPUS**)

**18.** Generalized pre-semi closed mappings in intuitionistic fuzzy topological spaces, International Journal of Mathematics Trends and Technology,Vol. 4,No 7(2013),125-129.

**19.** Generalized pre-semi homeomorphisms in intuitionistic fuzzy topological spaces, International Journal of Engineering Research and Technology, Vol. 2, 9(2013).

**20.** On soft preopen sets in soft topological spaces, International Journal of Mathematical Research,Vol. 5,No 4 (2013),399-409.

**21.** “Segmentation of medical images using topological concepts based region growing method”, IOSR Journal of Mathematics, Vol 10, Issue 4, Ver. IV, Jul-Aug 2014), 01-07.

**22.** “Region growing segmentation of magnetic resonance images using metric topological  $\epsilon$  - neighborhoods”, Mathematical Sciences International Research Journal, Vol. 3, Issue 2,

**2014**

2014, 792-795.

23. "Segmentation of Medical images using metric topology – A region growing approach", International Journal for Research and Development in Technology, Vol. 2, Issue 4, Oct 2014, 21-25.
24. "Generalized pre regular closed sets in

intuitionistic topological spaces, International Journal of Mathematical Archive, 5(4)(2014), 1-7. (SIS)

25. "Some more results on intuitionistic semi open sets", International Journal of Engineering Research and Applications, Vol. 4, Issue 11(2014), 70-74. (SCI)

## **2015**

26. "A segmentation algorithm using  $\varepsilon$ -Neighbourhoods", Int. Jr. of Engineering, Contemporary Mathematics and Sciences, Vol. 1. No.2, July-December 2015. (SIS)

27. "Region growing segmentation of MRI – A metric topological approach", IEEE Digital Library, Proceedings of the Seventh National Conference on Computing, Communication and Information Systems, 2015.

28. S. Selvanayagi and Gnanambal Ilango, IGPR connectedness on intuitionistic topological

- spaces, J. Advanced Studies in Topology 6:3 (2015), 90-98.
29. S. Selvanayaki and Gnanambal Ilango, IGPR-continuity and compactness in intuitionistic topological spaces, British Journal of Mathematics & Computer Science 11(2) (2015), 1-8.
30. Gnanambal Ilango and VidhyaMenon, “Characterizations of supra generalized pre-regular closed sets”, International Journal of Engineering, Contemporary Mathematics and Sciences,1(2)(2015) , 7-12. **(SIS)**
31. N. Selvanayaki and Gnanambal Ilango, Quasi  $\alpha$  grw -open maps in topological spaces, Jordan Journal of Mathematics and Statistics,8(2) (2015), 169 -177. **(SCOPUS)**
32. A. Revathy and Gnanambal Ilango, “On nano -open sets <sup>$\beta$</sup> ”, International Journal of Engineering, Contemporary Mathematics and Sciences,1(2) (2015). **(SIS)**

## **2016**

33. N. Selvanayaki and Gnanambal Ilango, A note on a grw -closed sets, European Journal of Pure and Applied Mathematics, 9(1)(2016) 27-33. **(SCOPUS)**
34. S. Selvanayaki and Gnanambal Ilango, Strong and Weak forms of IGPR-continuity in intuitionistic topological spaces, International Journal of Pure and Applied Mathematics, 106(7)(2016), 45 – 55. **(SCOPUS)**
35. S. Selvanayaki and Gnanambal Ilango, Homeomorphism on intuitionistic topological spaces, Annals of Fuzzy Mathematics and Informatics, Volume 11, No. 6, (June 2016), pp. 957-966. **(SCI)**
36. T. A. Albinaa and Gnanambal Ilango, Some properties of Intuitionistic  $\alpha$ -open sets, Mathematical Sciences International Research Journal, (5), 2016, 55-59.
37. T. A. Albinaa and Gnanambal Ilango, On Intuitionistic  $\alpha$ -sets, International Journal of Pure and Applied Mathematics 7(106), 2016, 37-43. **(SCOPUS)**

38. T. A. Albinaa and Gnanambal Ilango,  
Properties of  $\alpha$ -interior and  $\alpha$ -closure in  
Intuitionistic topological spaces, IOSR  
Journal of Mathematics, 12(6), 2016, 91-95.
39. M. Thiruchelviand Gnanambal Ilango Fuzzy  
Generalized Semi Preregular Continuous  
Functions in Fuzzy Topological Spaces,  
International Journal of Pure and Applied  
Mathematics, ISSN: 1314-3395, Volume 106,  
No. 6, 75-83, 2016. (SCOPUS)
40. O.R. Sayed, Gnanambal Ilango and  
VidhyaMenon, An extensive study of supra  
generalized pre-regular closed sets, International  
Journal of Pure and Applied Mathematics,  
106(6)(2016), 57-73. (SCOPUS)
41. A. Singaravelan and ,On Intuitionistic  $\beta$ -Open  
Sets, Mathematical Sciences International  
Research Journal, Vol 5, Spl Issue , (2016), 47-  
51.

42. A. Singaravelan and Gnanambal Ilango, Some Properties Of Intuitionistic  $\beta$  -Open Sets, International Journal of Pure and Applied Mathematics, Vol 106, No.8, 2016, 13- 20. **(SCOPUS)**
43. A. Singaravelan and Gnanambal Ilango, On Intuitionistic  $\beta$ - continuous functions, IOSR Journal of Mathematics Archive, 12(6) 2016, 08- 12.
44. Mrudla Ravinran, Manju and Gnanambal Ilango, “A note on soft-preopen sets”, International Journal of Pure and Applied Mathematics, Vol 106, No.5, 2016, 63- 78. **(SCOPUS)**

## 2017

45. Gnanambal Ilango and T. A. Albinaa, “On  $\alpha$ -Continuity in intuitionistic topological spaces”, Journal of Informatics and Mathematical Sciences, Vol. 9, No.3(2017), 733–740.
46. A. Singaravelan and Gnanambal Ilango, Intuitionistic  $\beta$ - irresolute Functions, Journal of Global Research in Mathematical Archives, 4(11)2017, 91- 96.
47. A. Singaravelan and Gnanambal Ilango, On Intuitionistic  $\beta$ - Connectedness, International Journal of Pure and Applied Mathematics **(SCOPUS Indexed and UGC Approved Journal)**. 117(13)2017, 231-240.
48. T. A. Albinaa and Gnanambal Ilango, On  $\alpha$ -Homeomorphism in Intuitionistic Topological Spaces, International Journal of Engineering Sciences Invention, 6(10), 2017, 07-13. **(UGC APPROVED)**
49. T. A. Albinaa and Gnanambal Ilango, Some weak forms of  $\alpha$ -Continuity in Intuitionistic Topological Spaces, International Journal of Pure and Applied Mathematics 3(13), 2017, 251-259. **(SCOPUS)**
50. S. Selvanayagi and Gnanambal Ilango, Generators in Intuitionistic Topological Spaces, International Journal of Pure and Applied



Mathematics, 116(12)(2017), 209 – 218.

**(SCOPUS)**

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## 2019

## 2020

63. G. Revathi and Gnanambal Ilango, Fuzzy soft set and its application in medical diagnosis, The International journal of analytical and experimental modal analysis, Vol XI, Issue VIII (2019), 1321-1331.
64. Mrudula Ravindran, G. Revathi and Gnanambal Ilango, Applications of soft set theory in data analysis and decision making, Adalya Journal, Vol 8(10)(2019), 155-162.
65. S. Girija, S. Selvanayaki and Gnanambal Ilango, Semi connected spaces in intuitionistic topological Spaces, Malaya Journal of Matematik, (2020), 2321-5666.
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67. M thiruselvi And Gnanambal Ilango, Applications of fuzzy topological relation in cyclone prediction, Malaya journal of Matematik. (2020).(UGC).
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## **2022**

69. A. Maheswari and Gnanambal Ilango, Some More Results on Sub Near Groups, International Journal of Humanities, Law and Social Sciences, 9(1) (2022), 1315-1326. (UGC Approved)
70. A. Maheswari and Gnanambal Ilango, On Near Semigroups, International Journal of Economic Perspective,16(7),(2022), 1-16. (Peer Reviewed)
71. A. Maheswari and Gnanambal Ilango, Survey of Students Data Using Near Set Approach, Dogo Rangsang Research Journal, 12(9), (2022), 141-146. (UGC Approved)
72. A. Maheswari and Gnanambal Ilango, Topological Near Groups, Asian Research Journal of Mathematics, 18(12),(2022), 45-56.(Peer Reviewed)

## **2023**

73. A.Maheswari and Gnanambal Ilango, Topological Near Homomorphisms,Journal of Research in Applied mathematics,9(2),(2023),46- 54.(Peer Reviewed)

## Invited Talks

- 1 Delivered a Guest lecture titled Testing of Hypothesis at the Staff development programme on Random Process and its application in emerging fields, organized by Sri Sakthi Institute of Engineering and Technology, Coimbatore, on 6<sup>th</sup> & 7<sup>th</sup> June 2007.
- 2 Served as the chief guest of Mathematics Association of St.Mary's Girls Higher Secondary Schothol, Coimbatore on 6-th October 2009 and delivered a lecture.
3. Inaugurated the Maths Club of Chavara Matriculation School,Coimbatore during December 2009.
- 4 Delivered a Guest lecture at the inaugural function of " OMNI MATHS ASSOCIATION" at Sri Saraswathi Thyagaraja College, Pollachi on 18.08.2010.
- 5 Delivered a lecture on 'Applications of Mathematics' at Shri Nehru Vidhyalaya Matriculation Higher Secondary School on 25.08.2010
- 6 Delivered a lecture in a two day workshop in FIDBOT-2010,organized by Nirmala College for Women on 18th September 2010.
- 7 Inaugurated the Maths Association function at Sri Vellalar College, Erode and delivered a lecture on 27.07.2011
- 8 Inaugurated the Maths Association function at Sri Narayanaguru Arts and Science College, Coimbatore and delivered a lecture on 05.08.2011
- 9 Inaugurated the Maths Association function at Sri Nehru Maha Vidhalaya College of Arts and Science, Coimbatore and delivered a lecture on 06.01.2012
- 10 Resource Person for the Association Inauguration at Nirmala College for Women, Coimbatore on 19.07.2012.
- 11 Guest Lecture for the CSIR NET Coaching class at CMS College of Science & Commerce, Coimbatore on 11.12.2012.
- 12 Chief Guest for the Mathematics Association Inauguration at Sankara College of Science and Commerce, Coimbatore on 27.06.2013.
- 13 Delivered a Guest Lecture at Bishop Ambrose College, Coimbatore on 19.08.2013.
- 14 Delivered a Guest Lecture at Nallamuthu Gounder Mahalingam College, Pollachi on 22.08.2013.
- 15 Resource Person for the Technical Session in the UGC Autonomous Funded State Level Conference at Islamiah College, Vaniyambadi on 16.03.2014.
- 16 Chief Guest for the seminar at Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 15.09.2014.
- 17 Resource Person for the National Seminar at Sree Narayana Guru College, Coimbatore

- on 18.02.2015.
- 18 Resource Person for the Guest Lecture at PSGR Krishnammal College for Women, Coimbatore on 05.10.2015.
  - 19 Resource Person for the SET/NET Coaching at PSGR Krishnammal College for Women, Coimbatore on 10.10.2015.
  - 20 Chief Guest for the Ramanujan's Day Celebration at Nirmala College for Women, Coimbatore on 29.01.2016.
  - 21 Chief Guest for the Guest Lecture at VLB Janakiammal College of Arts and Science, Coimbatore on 27.09.2017.
  - 22 Chief Guest for the Guest Lecture at Sri Krishna Adithya College of Arts and Science, Coimbatore on 22.12.2017.
  - 23 Delivered a Lecture in the National Seminar at Sri Sankara Arts and Science College, Kanchipuram on 19.02.2018.
  - 24 Resource Person for the In-service Programme at Govt. College of Education for Women, Coimbatore on 20.04.2018.
  - 25 Delivered a special lecture at at PSGR Krishnammal College for Women, Coimbatore on 03.10.2018.
  - 26 Delivered a special lecture at PSGR Krishnammal College for Women, Coimbatore on 16.10.2018 and 17.10.2018.
  - 27 Resource Person for the National Seminar at Sree Narayana Guru College, Coimbatore on 11.02.2019.
  - 28 Chief Guest for the Ramanujan's Birth Anniversary Day Celebration at Sri Ramakrishna College of Arts and Science, Coimbatore on 28.12.2018.
  - 29 Resource Person for the National Seminar at Sree Narayana Guru College, Coimbatore on 11.02.2019.
  - 30 Resource Person for the Association Meeting at Nirmala College for Women, Coimbatore on 18.07.2019.
  - 31 Delivered a Special Lecture at Kongunadu Arts and Science College, Coimbatore on 16.07.2019.
  - 32 Acted as a Adjunct faculty at PSGR Krishnammal College for Women, Coimbatore on 26.07.2019.
  - 33 Chief Guest for the Guest Lecture at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 13.08.2019.
  - 34 Delivered a online talk on 'Applications on Linear Algebra' at Kongunadu Arts and Science College, Coimbatore on 17.11.2021.

