

Name **:Dr.B.ANITHA**

Designation : Assistant Professor

Mail ID :anithamaths2010@gmail.com

- **Research Area**: Number Theory

- **Educational Qualifications**:

Qualification	**Department**	**Year of Pass**
Ph.D	Mathematics	2017
M.Phil.,	Mathematics	2005
M.Sc.,	Mathematics	2003
B.Sc.,	Mathematics	2001

- **Experience:**

Name of Company / Institutions	**Designation of Post**	**From**	**To**
University College of Engineering, Ariyalur.	Assistant Professor	Dec-2025	Till Date
National College (Autonomous), Trichy-1	Assistant Professor	June-2016	May-2025
Government Arts College, Trichy-22	Guest Lecturer	June-2013	April-2014
Government Arts College, Kulithalai	Guest Lecturer	Nov-2012	April-2013
Government Arts College, Trichy-22	Guest Lecturer	Aug-2008	Feb-2011
ABI & ABI College of Art & Science Technology, Thanjavur	Lecturer	Jan-2004	May-2005

- **Professional Activities (Online courses):**

S.No	No. of weeks	Title of the Course	Year of Passing
1.	12 weeks	Engineering Mathematics I	Sep-Dec 2020
2.	8 weeks	Introduction to Abstract and Linear Algebra	Jul-Sep 2022
3.	12 weeks	Basic Real Analysis	Jan-Apr 2023

- **Additional / Academic Responsibilities at University:**

Class Advisor

Patent Published:

Title : Parallel algorithms for solving ordinary differential equation

Application no.: TEMP/E-1/61980/2022-CHE/202241054040

Date : 2022/09/21

Awards:

Name	Institution	Purpose of Award	Year
National Faculty Award	Novel Research Academy	Best Woman Faculty Award	2021-2022

- **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

Title	Name of the Institution	Period
Teacher's Enrichment Workshop	Srinivasa Ramanujan Centre,Sastra deemed university,Kumbakonam.	Nov 27-Dec 02,2023
Field and Algebraic Number Theory	Indian Institute of Technology, Mandi	June 4-16, 2018
Graph Theory and its Applications	DST Centre for Interdisciplinary Mathematical Sciences,Banaras Hindu University,Varanasi-221005	May 23-28, 2011

- **Publications :**

  - A.Gnanam, M.A.Gopalan, B.Anitha, *Sum Of Squares Of Consecutive Primes Using Maximal Gap* , International Journals Of Mathematics Trend And Technology, Vol -19,Issue-2,Pp-108-111. March 2015, ISSN: 2231-5373.

  - A.Gnanam, B.Anitha, *Sums Of Squares Of Fibonacci Numbers With Prime Indices*, Journal Of Applied Mathematics And Physics, Vol-3,No-12,Pp-1619-1623, December -2015,ISSN Print: 2327-4352

  - A.Gnanam, B.Anitha, *Sums Of Squares Of Jacobsthal Numbers*, IOSR Journal Of Mathematics, Vol- 11, Issue -6 Ver. IV,Pp 62-64, Nov. - Dec. 2015, ISSN: 2278-5728.

- A.Gnanam, B.Anitha, *Sums Of Squares Of Fractal Sequences:Farey Sequence & Negative Jacobsthal Sequence*, IOSR Journal Of Mathematics, Vo,l- 12, Issue 2 Ver. VI, PP 45-47 Mar. - Apr. 2016, ISSN: 2278-5728.

- A.Gnanam,B.Anitha, Sums Of Squares Of Polygonal Numbers, Advances In Pure Mathematics, Volume 6, Issue 4 PP. 297-301 , March 2016, ISSN Print: 2160-0368

- A.Gnanam, B.Anitha, *Comparison Of Sums Of Squares Of Consecutive Primes Using Four Maximal Gap Conjecture*, IOSR Journal Of Mathematics, Volume 12, Issue 3 Ver. IV PP -126, May. - Jun. 2016, ISSN: 2278-5728

- P. Balamurugan , A. Gnanam , B. Anitha, *Expression Of Ratios Of Polygonal Numbers As Continued Fractions,* Advances And Applications in Mathematical Sciences, Vol- 18, Issue - 10, Pp 997-1006, August 2019, ISSN 0974-6803.

- B. Anitha, *Expression Of Ratios Of Pentatope Numbers As Continued Fractions,* Advances And Applications in Mathematical Sciences, Vol- 21, Issue 7, Pp: 3873-3883, May 2022, ISSN 0974-6803.

- B. Anitha, *Some Remarkable Observations Of Farey Sequence*, Advances And Applications In Mathematical Sciences, Vol- 21, Issue- 7, Pp: 3885-3893, May 2022, ISSN 0974-6803.

- B.Anitha, P.Balamurugan, *Continued Fractions Of Higher Order Polygonal Numbers With Respect To Order And Rank,* International Conference On Smart Engineering For Renewable Energy Technologies, E3S Web Conf.Volume 387, 2023,Article No.05007,No of Pages 9, 15 May 2023, ISSN:2267-1242.

- B.Anitha, P.Jeyakani, V.Mahalakshmi, S.Shalini, R.Senthilkumar, *Design And Implementation Of A Smart Solar Irrigation System Using Iot And Machine Learning,* International Conference On Smart Engineering For Renewable Energy Technologies, E3S Web Conf. Volume 387, 2023,Article No.05012,No.of Pages 7, 15 May 2023, ISSN:2267-1242.

- B.Anitha, A.Venkatachalam, G.Mangalam, M.Dhanapal, *Improved Approach For Oscillatory Solutions of Second Order Half-Linear Neutral Delay Difference Equation,* European Chemical Bulletin, Vol-12,Issue-3,Pp-446-449, March 2023, ISSN 2063-5346.

- B.Anitha, R.Ranganathan, A.Nandhakumar, S.Balamuralitharan, *Mathematical Modeling of second Wave on Indian COVID-19 Pandemic With Control Strategy Outbreak*, European Chemical Bulletin, Vol -12 , Issue-3 ,pp- 430-436, May 2023, ISSN 2063-5346.