

Name: Dr. S.O. SOPNA

Designation: ASSISTANT PROFESSOR

Department: MATHEMATICS

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### **Educational Qualification:**

Degree	Subject	College / University & Place	Year Completed
Ph. D	Mathematics	Manonmaniam Sundaranar University	2018
M. Phil	Mathematics	Sivanthi Aditanar College, Pillayarpuram	2010
B. Ed.	Mathematics	St. Joseph College of Education, Tholayavattam	2008
M. Sc.	Mathematics	Muthayammal College of Arts and Science, Rasipuram	2007
B. Sc.	Mathematics	Sree Devi Kumari Womens College, Kuzhithurai	2004

### **Specialisation in Teaching:**

- Algebra
- Analysis
- Topology
- Functional Analysis
- Differential Geometry
- Number theory
- Graph Theory.

**Specialisation in Research:** Labeling in Graph theory

**Research Interests:** Graph theory, Topology

**Other Work Experience:**

Designation	Institution / Company	Year - From (month/year) To (month/year)
Lecturer	Muslim Arts & Science College, Azhahiyamandabam	01-02-2009 to 18-08-2009
Assistant Professor	Sree Devi Kumari Womens College, Kuzhithurai	19-08-2009 to 20-06-2018
Assistant Professor	The American College, Madurai.	22-06-2018 to Till Date

**Administrative /Academic Position/s (held / currently holding) in The American College:**

Positions held / currently holding	Year - From (month/year) To month/year)
PG Autonomy Coordinator	2018- 2019
Noyes Garden Hall-Superintendent	2018-2019
PG President	2019 – 2020
UG Autonomy Coordinator	2020 – 2021
Academic Advisor- I UG	2021- 2022
Academic Advisor- II PG	2022- 2023

**Articles published in International Journals:**

1. D.S.T.Ramesh, S.O.Sopna, I.Gnanaselvi, Skolem Mean Labeling Of Four Star Graphs  $K_{1,a_1} \cup K_{1,a_2} \cup K_{1,a_3} \cup K_{1,b}$  where  $a_1 + a_2 + a_3 + 2 \leq b \leq a_1 + a_2 + a_3 + 3$ ", International Journal of Scientific Research Vol.6, Issue 8 (Aug. 2017) PP.190-193.
2. D.S.T.Ramesh, S.O.Sopna and I.Gnanaselvi "Skolem Mean Labeling Of Four Star Graphs  $K_{1,a_1} \cup K_{1,a_2} \cup K_{1,a_3} \cup K_{1,b}$  where  $a_1 + a_2 + a_3 - 1 \leq b \leq a_1 + a_2 + a_3 + 1$ ", IOSR Journal of Engineering (IOSRJEN), Vol 07, Issue 07, (July 2017) PP. 05-11.
3. D.S.T.Ramesh, S.O.Sopna and I.Gnanaselvi "Skolem Mean Labeling Of Four Star Graphs  $K_{1,a_1} \cup K_{1,a_2} \cup K_{1,a_3} \cup K_{1,b}$  where  $a_1 + a_2 + a_3 - 3 \leq b \leq a_1 + a_2 + a_3 - 2$ ", International Journal of Engineering Research and Applications (IJERA), Volume 7, Issue 9, (part8) September 2017 PP.29-32.

4. D.S.T.Ramesh, S.O.Sopna and I.Gnanaselvi “Skolem Mean Labeling Of Five Star Graphs  $K_{1,a_1} \cup K_{1,a_2} \cup K_{1,a_3} \cup K_{1,a_4} \cup K_{1,b}$  where  $b = a_1 + a_2 + a_3 + a_4 - 4$ ” IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 13, Issue 5 Ver. 1 (Sep. – Oct. 2017).
5. D.S.T.Ramesh, S.O.Sopna and I.Gnanaselvi “Skolem Mean Labeling Of Five Star Graphs  $K_{1,a_1} \cup K_{1,a_2} \cup K_{1,a_3} \cup K_{1,a_4} \cup K_{1,b}$  where  $a_1 + a_2 + a_3 + a_4 - 4 \leq b \leq a_1 + a_2 + a_3 + a_4 - 3$  ISSN : 2248-9622, Vol. 7, Issue 10, ( Part -1) October 2017.

**International conference presentation:**

- Presented a paper entitled Skolem Mean Labeling of Five Star Graphs in the 22<sup>nd</sup> FAI International Conference on Mathematical, Computational Intelligence and Engineering Approaches ICMCIE 2020, organized by The American College, Madurai, India collaborated with FATER Academy of India, held on Dec 20 -22, 2020, through online mode.

**WORKSHOP/CONFERENCE/SEMINAR/WEBINAR ATTENDED:**

- Participated one week national level Faculty Development Programme On “ Applications of Mathematics in Multi Disciplinary Domains” from 01/02/2024 to 08/02/2024 jointly conducted by A.C.T Academy , Kerala Unit and Department of Mathematics(SF), The American College, Madurai.
- Participated in 3 Day National Level Workshop on “MATLAB - Data Analysis and Visualization” on 5, 6& 8 January 2024 jointly organized by DIGISKILLS CENTER , A.C.T Academy.
- Participated Two day online Hands - on Workshops to Mastering Fuzzy Mathematics with Python Programming held from December 30 to 31, 2023 Organised by Indian Mathematics Professors Association and infinity Research & Development Institute, Coimbatore.
- For attending the FIVE Days National Level Virtual Faculty Development Programme entitled “Achieving Excellence in Higher Education & Research” conducted by A.C.T. Academy from 26 December 2023 to 30 December 2023.
- Participated one day National Level workshops on “Intellectual Property Rights and Innovations” Conducted by FDP Division, A.C.T. Academy On 10/12/2023.

- Participated in the Two- Day online Workshop on “ Data Analytics and Machine Learning through Zero Coding” Organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 26 & 27 June 2023.
- Attended the Seven days National level Faculty Development Program entitled (Policy Initiatives and Quality Enhancement in Higher Education” conducted by A.C.T. Academy, Tamil Nadu from 27. 03. 2023 to 01. 04. 2023.
- Participated 3 days international conference on Discrete Mathematics and Mathematical Modelling in Digital Era during 23<sup>rd</sup> – 25<sup>th</sup> March, 2023 organized by The Gandhigram Rural Institute, Gandhigram, Dindigul.
- Participated in the one- day “International Seminar on Applied Mathematics” held on 27<sup>th</sup> February 2023, organised by the Department of Mathematics, Lady Doak College, Madurai.
- Attended two days skill development program on “ Strategies for Writing the Literature Review” conducted by A. C. T. Academy, Tamil Nadu on 27 & 28 January 2023
- Participated in the CPE funded Faculty Development Webinar on “An Art of Writing Research Article” organized by the Development of Mathematics, The Standard Fireworks Rajaratnam College for Womem, Sivakasi, Tamilnadu on 4<sup>th</sup> February 2022.
- Participated in the Webinar on “Linear Algebra and its Applications” organized by the Department of Mathematics, Vivekananda college, Tiruvedakam west, Madurai held on 14-06-21.
- Participated Tow days International Virtual Workshop on “Innovative Resources and IPR in Research” held on 8<sup>th</sup> and 9<sup>th</sup> October 2021 organized by the PG and Research Department of Mathematics, The American College, Madurai, Tamil Nadu, India.
- Attended Online Workshop on Data Analysis using SPSS, held on May 28 – 30, 2020, The American College, Madurai.
- Attended the Webinar on Hacks and Tips: CSIR-UGC-NET Examination in Mathematics held on July 6 – 8, 2020, The American College, Madurai.
- Attended National Symposium on Topical Fashions in Mathematics, held on Feb 13, 14, 2006, Vivekananda College of Arts and Science for Women, Tiruchencode.
- Attended Workshop on Real Analysis held on Feb 24 – 25, 2007 at Periyar University.
- Attended National Seminar on Mathematical through Graph and Channel Assignment

problem, held on 10 – 02- 2011, Lekshmpuram College of Arts and Science, Neyyoor.

- Attended State Level Seminar on Fuzzy Logic and Its application held on 27 – 12 – 2013, Sree Ayyappa College for Women, Chunkankadai.
- Attended One Day Workshop on NAAC Awareness, held on 20 – 04 – 2015, Sree Devi Kumari Womens College, Kuzhithurai.
- Attended National Level Seminar on Graph Theory and Its Applications, held on 15 – 03 – 2016, Muslim Arts College, Thiruvithancode.
- Attended One day Seminar on Quality Enhancement in Higher Education held on 15 – 04 – 2016, Sree Devi Kumari Womens Collge, Kuzhithurai.
- Attended One Day National Seminar on Updating, Upgrading Quality in Higher Education held on 08 – 01 – 2016, Sree Devi Kumari Womens College, Kuzhithurai.
- Attended One Day Seminar on CSIR Examination Awareness Programme, held on 18 – 03 – 2016, Vivekananda College, Agasteeswaram.
- Attended in One Day Inter – Department Workshop in MATH – LAB, held on 31 – 01 – 2017, Sree Devi Kumari Womens College, Kuzhithurai.