

STAFF PROFILE

Name and Qualification : Dr.R.HELEN M.Sc., M.Phil., Ph.D.,

Designation : Assitant Professor

Department : Mathematics

Subject Interest : Measure theory, Stochastic processes, Fuzzy
Mathematics, Dynamics, Statics

Specialization : Fuzzy Stochastic Processes

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

Lecturer : Self Finance
Institute : T.B.M.L.College, Porayar
Period : 11.09.1998 - 05.08.2006 (7 years, 11Months)
Teaching Area : Real Analysis, Complex Analysis, Fourier Series, Partial
Differential Equations.

Senior Professor : Self Finance
Institute : Bharathiyar College of Engineering & Technology,
Karaikal.
Period : 07.08.2006 - 03.01.2011 (3 Years, 3 Months)
Teaching Area : Engineering Mathematics - I,II,III,IV & Optimization
Techniques.

Assistant Professor : Regular Basis
Institute : Poompuhar College, Melaiyur
Period : 05.01.2011 to till date (7 Years, 8 Months)
Teaching Area : Numerical Methods, Differential Calculus and
Trigonometry, Differential Equations and Laplace
Transforms

ACADEMIC PROFILE

Ph.D.,

University : Bharathidasan University, Tiruchirappalli.

Date and Place : 20.12.2010

Research Supervisor : Dr.J.Earnest Lazarus Piriya Kumar,
Associate Professor of Mathematics,
T.B.M.L College, Porayar.

Title of Thesis : Contributions to the Study on Fuzzy Probability and
Fuzzy Stochastic Processes.

M.Phil.,

University : Bharathidasan University, Tiruchirappalli.
Main Subject : Mathematics
Year : 2002
Marks : 80.4 %
Supervisor : Dr.S.Arumugam
Title of Dissertation : Solving Linear Programming Problem using Fuzzy
Concepts.

PG

University : Madurai Kamaraj University, Madurai.
College : -
Main Subject : Mathematics
Year : 1995-1997
Marks : 62%

UG

University : Bharathidasan University, Thirichirappalli
College : T.B.M.L.College, Porayar.
Main Subject : Mathematics
Year : 1991-1994
Marks : 65%

H.Sc.,

Board : Tamil Nadu State Board
Main Subject : Mathematics, Physics, Chemistry, Biology
Year : 1991
Marks : 64%

S.S.L.C

Board : Tamil Nadu State Board
Main Subject : Tamil, English, Mathematics, Science, History &
Geography.
Year : 1989
Marks : 72%

RESEARCH PROJECTS

Completed : Nil

Funding Agency :
File Number :
Year :
Amount Received :
Title :

Ongoing : Nil

Funding Agency :
File Number :
Amount Received :
Title :

Accepted : Nil

Funding Agency :
File Number :
Year :
Amount Received :
Title :

WORKSHOPS ORGANIZED

Nil

RESEARCH GUIDANCE

M.Phil.,

Number of M.Phil., Scholars : Nil

Degree Awarded :

Ph.D.,

Number of PhD Scholars : 03

Degree Awarded : --

Thesis Submitted : --

Synopsis Submitted : --

AWARDS AND DISTINCTION

Received Sri Bharathi Award from the Kaviarasar Kalai Tamil Sangam in the year 2011.

PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

1. J.Earnest Lazarus Piriya Kumar, R. Helen, "Order in Probability of Fuzzy Random Variables", *The Journal of Fuzzy Mathematics*, USA, Vol.16, No.2, pp 281 - 288, 2008.
2. J.Earnest Lazarus Piriya Kumar, R. Helen, "Helly's Theorem on Fuzzy Valued NFunction", *Octagon Mathematical Magazine*, Vol.6, No.2, pp 882-896, 2008, ISSN: 1222 - 5657.
3. J.Earnest Lazarus Piriya Kumar, R. Helen, "Stochastic Comparisons of Fuzzy Stochastic Processes", *International Journal Reflection des ERA - Journal of Mathematical Science*.
- 4 R.Helen, "Order in Probability of Intuitionistic Fuzzy Random Variables", *The International Journal of Fuzzy Mathematics*, Vol.21, No.2, 2013, ISSN: 1066 - 8950.
5. R.Helen and R.Sumathi, "Time Cost Trade off problem using Type - 2 Trapezoidal Fuzzy number", *International Journal of Mathematics Trends and technology*, Vol.10, No.1, pp 16 - 24, 2014, ISSN: 2231 - 5373.
6. R.Helen and R.Sumathi, "Solving Single Machine scheduling Problem using Type - 2 Trapezoidal Fuzzy Number ", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol.4, Issue-3, pp 1383-1391, 2015, ISSN: 2347 - 6710.
7. R.Helen and R.Sumathi, "Branch and Bound Technique for single Machine Scheduling Problem using Type - 2 Trapezoidal Fuzzy Numbers", *International Journal of Engineering Science and Research Technology*, Vol.4, Issue-4, pp 148-158, 2015, ISSN: 2277 - 9655.
08. R.Helen and G.Uma, "A New Operations and ranking on Pentagon fuzzy Number ", *Asia Pacific Journal of Research*, Vol.21, pp 190-197, 2015, ISSN: 2230 - 9888.

09. R.Helen and G.Uma, "Solving Parallel Moving Method using Pentagon Fuzzy Numbers", *International Journal of Mathematics and Computer Applications Research*, Vol.5, Issue 4, pp 19 - 28, 2015, ISSN: 2249 - 6955.

10. R.Helen and G.Uma, "Fuzzy Travelling Salesman Problem using Dynamic Programming Approach", *Global Journal of Pure and Applied Mathematics*, Vol.13, 2017, ISSN: 0973 - 1768.

11. S.Venkat Raman, R.Helen and M.S Srinivasan "A New Approach on Soft Graphs Using Soft Sets", *Global Journal of Pure and Applied Mathematics*, Vol.13 (2), pp 146-153, 2017, ISSN: 0973 - 1768 (UGC Approved).

12. S.Venkatraman, R.Helen and M.S.Srinivasan, "Simple Soft Graph On Cyclic Group of Finite Order n And Its Applications", *International Journal of Pure and Applied Mathematics*, Vol.119 No.15, special issue pp 485-496, 2018. (Scopus Indexed and UGC Approved)

RESEARCH PAPERS ACCEPTED FOR PUBLICATION AND UNDER REVIEW

1. R.Helen and G.Uma, "An out - of - kilter Method involving Pentagon Fuzzy Numbers" is Communicated to the Turkish Journal of Fuzzy Mathematics.
2. R.Helen and G.Uma," An Innovative Approach for Solving Transportation Problem Involving Pentagon Numbers", is accepted to Publish in the International Journal of Fuzzy Mathematics, Los Angeles, USA.

POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

LIST OF PUBLICATIONS IN INTERNATIONAL CONFERENCES:

1. R.Helen, G.Uma, "A new operation and ranking on pentagon fuzzy number", *International conference on Mathematical methods and computation*, Jamal Mohamad College, Tiruchirappalli, 540-544, ISSN 0973-0303.
2. R.Helen, R.Sumathy, "Solving single machine scheduling problem using type-2 trapezoidal fuzzy number", *International conference on Mathematical methods and computation*, Jamal Mohamad College, Tiruchirappalli, 669-673, ISSN 0973-0303.

LIST OF PUBLICATIONS IN NATIONAL CONFERENCES:

1. R.Helen and G.Uma, "Fuzzy Travelling Salesman Problem using Dynamic Programming Approach", *Proceedings of the National Conference on Mathematical*

Modelling for Engineering, A.V.C College of Engineering, Mayiladuthurai, April 8 (2017).

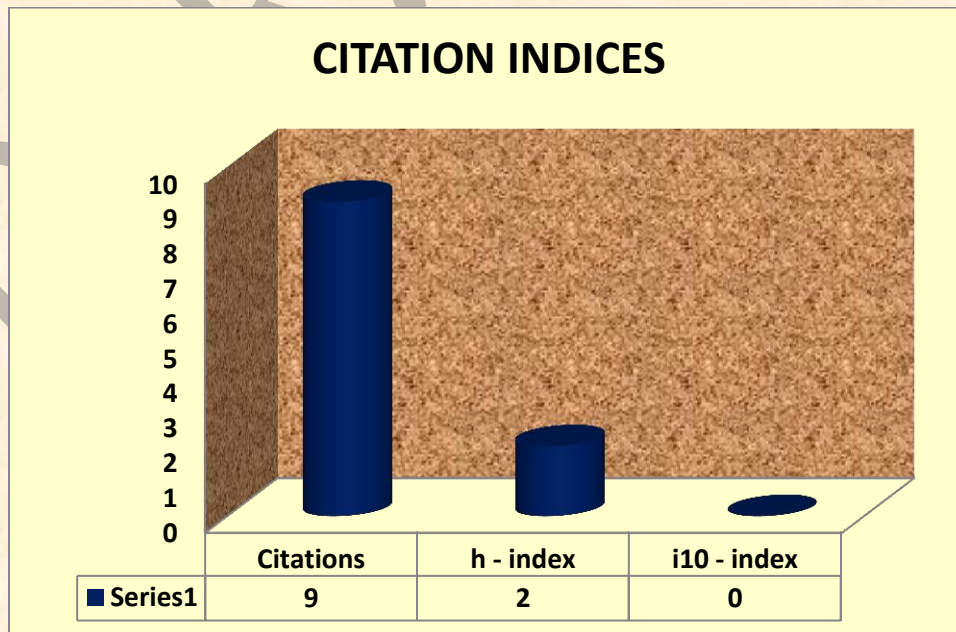
2. S.Venkat Raman, R.Helen and M.S Srinivasan, "A New Approach on Soft Graphs Using Soft Sets", *Proceedings of the National Conference on Mathematical Modelling for Engineering*, A.V.C College of Engineering, Mayiladuthurai, April 8 (2017).

BOOKS PUBLISHED

Nil

CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM 2007-2015)

Publications	: 24
In Journals	: 11
In Conferences	: 13
Citations	: 09
h-index	: 02
i10-index	: 00



MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

1. Doctoral Committee Member for 5 Ph.D Scholars.
2. Member of Department Research Committee.
3. Member of Board of Studies Committee of Department of Mathematics of Poompuhar College, Melaiyur.

POSITION HELD / LEADERSHIP ROLE PLAYED

1. Assistant Professor of Mathematics, Poompuhar College, Melaiyur.

INVITED GUEST LECTURES

1. Delivered a lecture on Fuzzy Number and its Applications at Vivekanandha Arts and science college, Sirkali on 23.10.2014.
2. Delivered a lecture on Fuzzy Set and its Applications at Dharmapuram Adhinam Arts College, Mayiladuthurai on 16.03.2015.
3. Delivered a lecture on Soft Set and its Applications at EGS pillai Arts and Science, Nagapattinam on 28.02.2018.

TRAINING PROGRAMME

Orientation Course (UGC Sponsored)

Place : Bharathidasan University, Tiruchirappalli.

Duration : 08.05.2012 to 04.06.2012

Refresher Course in Mathematics (UGC Sponsored)

Place : Bharathiyar University, Coimbatore.

Duration : 11.09.2013 to 01.10.2013

Refresher Course in Mathematics (UGC Sponsored)

Place : Madurai Kamaraj University, Madurai.

Duration : 25.11.2015 to 15.12.2015

TEACHING EXPERIENCE FROM 1998 TO TILL DATE

Total Teaching Experience : 20 Years

Under Graduate : 20 Years

Post Graduate : 20 Years

PERSONAL DETAILS

Name : Dr.R.HELEN

Gender : Female

Date of Birth : 23.09.1973

Age : 45 Years

Place of Birth : Madurai

Marriatal Status : Married

**Residential Address : 11/33A, Kavalur Street, Thendral Nagar,
Porayar, Nagapattinam District-609 307.**

**Official Address : Assitant Professor of Mathematics,
Poompuhar College, Melaiyur,
Nagapattinam (DT) - 609 107.**

Email : helenranjan@gmail.com

Cell Number : 9944066814

Web : Nil

Any other Information : Nil