



SRM Valliammai Engineering College


SRM Nagar, Kattankulathur-603203, Kancheepuram District, Tamil Nadu

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Department of Mathematics

Personal Details

Name :	Dr.T.ISAIYARASI	
Designation :	Assistant Professor-Selection Grade	
Educational Qualification :	Ph.D.	
Teaching Experience:	24Years 6 Months	
Area of Specialization :	CRYPTOGRAPHY	
Date of Joining :	27.09.2004	
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.Sc.,	Mathematics	Bharathidasan University	1993
2	M.Sc.,	Mathematics	Bharathidasan University	1995
3	M.Phil.,	Mathematics	Madurai Kamaraj University	1999
4	Ph.D.	Mathematics	Bharathiar University	2016
5	SET(State Eligibility Test)	Mathematics	Mother Theresa Women's University	2016

Professional Society Memberships

1. *Indian Science Congress,*
2. *Indian Society for Technical Education*

Publication Details

- [1] T.Isaiyarasi, Dr.K.Sankarasubramanian - A new multi-party key agreement protocol using search problems
in discrete Heisenberg group. Indian Journal of Computer Science and Engineering (IJCS)ISSN: 0976-5166 Vol. 3 No. 1 Feb - Mar 2012, pp154?161
- [2] T.Isaiyarasi, Dr.K.Sankarasubramanian -A new key exchange protocol using two layers of security,Journal of Discrete Mathematical Sciences and Cryptography, Vol. 15 (2012), No. 2 & 3, pp. 125–133 ©Taru Publications.
- [3] T.Isaiyarasi, Dr.K.Sankarasubramanian - Tripartite key agreement protocol using triple decomposition search problem, International Journal on Cryptography, and Information Security (IJCIS), Vol.2, No.3, September 2012, DOI:10.5121/ijcis.2012.2304, pp 49?55.

- [4] T.Isaiyarasi, Dr.K.Sankarasubramanian - Multiparty key agreement protocol using triple decomposition problem in discrete Heisenberg group, International Journal of Computer Engineering & Technology (IJCET), ISSN 0976 – 6367(Print) , ISSN 0976 – 6375(Online), Volume 4, Issue 6, November - December (2013), pp. 09?15© IAEME: www.iaeme.com/ijcet.asp. Journal Impact Factor (2013): 6.1302 (Calculated by GIS), www.jifactor.com.
- [5] Dr.T.Isaiyarasi- Authenticated Tripartite Key Agreement Protocol Using Digital Signature Algorithm , JP Journal of Algebra, Number Theory and Applications © 2020 Pushpa Publishing House, Prayagraj, India <http://www.pphmj.com> <http://dx.doi.org/10.17654/NT046010001> Volume 46, Number 1, 2020, Pages 1-19 ISSN:0972-5555
- [6] Dr.T.Isaiyarasi, Dr.S.Chitra , Authenticated Key Agreement Protocol for HWSN , JAC : A Journal of Composition Theory Volume XIV, Issue II, FEBRUARY 2021 ISSN: 0731- 6755 page 153-164
- [7] Dr.S.Chitra, Dr.T.Isaiyarasi, The Study Of Energy Graphs With The Given Super Domination Number, JAC: A Journal Of Composition Theory Volume XIV, Issue III, MARCH 2021 ISSN : 0731-6755, Page 7-13

Conference/ Seminar/ Workshop:

1. T.Isaiyarasi, Dr.K.Sankarasubramanian- "A New Multiparty Key Exchange Protocol Using Search Problems Using An Endomorphism In Discrete Heisenberg Group"- ICMEB 2012 , Loyola College Chennai, India
2. T.Isaiyarasi, Dr.K.Sankarasubramanian “A New Authenticated Tripartite Key Agreement Protocol Using Factorization Search Problem In Discrete Heisenberg Group”, International Conference on Contemporary Approaches In Mathematics and Emerging Engineering, organized by AVIT University, Chennai
3. T.Isaiyarasi, Dr.K.Sankarasubramanian “A New Tripartite Key Agreement Protocol authenticated by Digital Signature Algorithm” International Conference on Mathematical Computer Engineering ICMCE 2017, organized by VIT University, Chennai
4. T.Isaiyarasi, Dr.K.Sankarasubramanian , “Digital Signature Algorithm using Triple Decomposition Search problem” International Conference on Mathematical Computer Engineering ICMCE 2018, organized by VIT University, Chennai
5. Attended One day workshop on SAGEMATH at VIT, Chennai Campus participated in the International Conference on Emerging Trends in Mathematics and Statistics (ICETMS-2020 online) during 21/10/2020 - 23/10/2020 organized by Post Graduate Department of Mathematics & Statistics and IQAC, St. George’s College Aruvithura, Kottayam

Faculty Development Programs

1. Attended in the One Week International Faculty Development Program on “Application & Implements of Mathematics” organized by Department of Science and Humanities of Hindustan College

of Engineering and Technology, Coimbatore from 17.08.2020 to 23.08.2020

2. Attended the online FDP on “Appraisal of Mathematical learning outcomes in cybergogy Environment organized by Dept of Mathematics from 15.07.2020 to 17.07.2020, Arul Anandar College
3. Completed the online short-term course on Python Programming conducted by IEEE, Student Branch, Sathyabama Institute of Science and Technology in association with NeeVee Technologies, Chennai from 8.6.2020 to 19.6.2020.
4. Attended Faculty Development Program on Integrating SWAYAM MOOCs & Educational Apps in Teaching organized by IQAC & SWAYAM on 28.05.2020 & 29.05.2020. 2020.SDNB Vaishnav College

Webinars:

1. Participated in Tamil Literature and Tamil grammar talent search program-9 organized by Tamil Nadu Tamil Teachers Association, Vellore District and got the certificate
2. Participated in the 2 days national conference on Tamil Computing organized by SRM VEC Parivendhar Tamil mandram Tamil Computing & Indian Tamil Computing society on 12th and 13th September, 2020
3. Participated in the workshop on MATLAB organized by Department of Science and Humanities, Hindustan College of Engineering and Technology held from 2.9.2020 to 4.9.2020
4. Participated in one-week International FDP on “Applications and Implementation of Mathematics organized by Department of S&H, Hindustan College of Engineering & Technology from 17.8.2020 to 23.08.2020
5. Attended and completed the part-time Value-added Course on “Design thinking and Entrepreneurial development held during 6.7.2020 to 14.7.2020 conducted by department of Management Studies, SRM VEC
6. Participated in the one-day workshop on SAGE for Mathematics and Engineering organized by Department of Mathematics, Bannari Amman Institute of Technology on 07.08.2020
7. Participated in the webinar on Teaching and learning college level Mathematics with ICT Tools, Organized by Department of Mathematics, SriMalolan College of Arts and Science on 28.07.2020
8. Participated in two days National Webinar on Mathematical modelling and Applications organized by Department of Mathematics, RMK College of Engineering & Technology on 27th and 28th July 2020
9. Participated in the National webinar on an overview of MATLAB organized by Dept of Mathematics, Guru Nanak College on 22.07.2020
10. Participated in webinar on "Effective Writing of Proposals for Research Grants" organized by Mohamed Sathak Engineering College, Keelkarai on 13.03.2021
11. Completed the online short-term course on Python Programming conducted by IEEE Student Branch, Sathyabama Institute of Science and Technology in association with NeeVee Technologies, Chennai from 8.6.2020 to 19.6.2020.
12. Participated and successfully completed the online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” during 14-18 December 2020 as

organized by All India Council for Technical Education (AICTE)

13. Participated in the webinar titled “Graphs from Commutative Rings” on 10th June 2020, organized by the Department of Mathematics, Presidency College (A), Chennai.
14. Participated in the Online National Webinar on “Application of Grammar Systems to Cryptography” Organized by the Department of Mathematics, St.Joseph’s Institute of Technology, Chennai on 22nd June 2020.
15. Attended the Webinar on "The Impact of Quantum Computing on Cryptography” organized by Department of ECE, Srinivasa Ramanujan Institute of Technology (Autonomous) On 30th May participated in the Two days Online Faculty
16. Participated in National Level Webinar on “Applications of Mathematics” held on 17th June 2020. has participated in National Level Webinar on “Applications of Mathematics” held on 17th June 2020, organized by Department of Mathematics, Shri Sivayogi Murugendra Swamiji Arts, Science and Commerce College

Other Particulars

NPTEL COURSES:

1. Completed NPTEL online course in Automata on August- October 2016
2. Completed NPTEL online Course in Cryptography and Network Security on January – April 2017 as a topper
3. Completed NPTEL online Course on Introduction to Abstract and Linear Algebra on August- October 2018
4. Completed NPTEL online Course on Descriptive Statistics with R Software

Seminar/Conference Organized:

1. Organised “ One Day work shop on Recent Trends In Mathematics With Computer Applications (RTMCA 2K14) 20th December 2014
2. Organized “National Seminar on Advances in Mathematical Sciences and Applications in Engineering and Technology” on December 2017
3. Organized “National seminar on Recent trends in Mathematical Sciences and Applications” on December 2018.
4. Organized “National seminar on Mathematical Techniques and their Applications” on November 2019

Books Published :

1. Authored the book titled “ Engineering Mathematics –I with ISBN: 978-93-86590-21-3 ”
2. Authored the book titled “ Engineering Mathematics- II with ISBN : 978-93-86590-40-4”
3. Authored the book titled “Transforms and Partial Differential Equations ”
4. Authored the book titled “Linear Algebra and Partial Differential Equations “with ISBN: 978-93-86590 59-6

Guest Lecture:

1. Acted as a resource person in the faculty development program on Resource Management Techniques organized by department of Computer Science and Engineering, Valliammai Engineering College

2. Delivered Guest lecture on Application of Number Theory in Cryptography at New New Prince Shri Bhavani Arts and Science College.
3. Delivered a motivational talk on “Habits of Successful People” to first year students at SRM Valliammai Engineering College
4. Acted as a Resource person in the National Level Webinar organized by Department of Mathematics With Computer Applications, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai and delivered a lecture on “An overview of Cryptography”
5. Acted as a resource person in the AICTE Sponsored Six-day Short Term Training Programme (STTP) organized by Department of Electronics and Instrumentation Engineering. SRM Valliammai Engineering College and Delivered a lecture on “Linear Programming Problems”

Pattimandram:

1. Participated at the Pongal special pattimandram organised by Parivendhar manavar Tamil mandram SRM Valliammai Engineering College about பண்டிகைகளை சிறப்பாக கொண்டாடப்படுவது கிராமத்திலா ? நகரத்திலா ?
2. Participated at the Pongal special pattimandram organised by Parivendhar Manavar Tamil peravai SRM Valliammai Engineering College about இளைஞர்களை நல் வழிபடுத்துவது பழைய பாடல்களா ? புதிய பாடல்களா?
3. Participated at the Independence Day special pattimandram organised by Vendhar TV about மாணவர்களுக்கு சுதந்திரம் அதிகம் இருப்பது நேரடி வகுப்பிலா? ஆன்லைன் வகுப்பிலா ?
4. Participated at the vinayagar chadurthi special pattimandram organised by Vendhar TV about இன்றைய பொது முடக்கத்தில் குடும்ப உறவுகளில் பிரச்சினையை அனுபவிப்பது பெண்களா? ஆண்களா?