

Staff Profile

NAME (FR./DR./MR./MRS./MS.) :Dr.I.FRANCINA NISHANDHI

GENDER : FEMALE

DEPARTMENT :MATHEMATICS

EDUCATIONAL QUALIFICATION: M.Sc.,M.Phil.,B.Ed.,Ph.D.



S. No.	Degree / Diploma	Subject / Main	Name of the College / University
1.	U.G.	MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TRICHY-2
2.	B.Ed.	MATHEMATICS	HOLY CROSS COLLEGE OF EDUCATION, TRICHY-2
3.	P.G.	MATHEMATICS	ST.JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY-2
4.	M.Phil.	MATHEMATICS	ST.JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY-2
5.	Ph.D.	MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TRICHY-2

Technical qualification:

S. No.	Degree / Diploma	Subject / Main	Name of the College / University
1.			
2.			

Aided **Management** : SHIFT I SHIFT II

Total Teaching Experience at Holy Cross College: 7 Years

UG: 7 Years

PG: 5 Years

Positions Held (VP / Dean/ HOD / Director/ Overall Coordinator etc.)

S. No.	Name of the Position	Period
1.		

E-lessons developed:

S. No.	Title of E-Lessons
1.	Three Dimensions – The Plane
2.	Measures of Dispersion
3.	Non Linear Programming Problem – Lagrange Multiplier method with one equality Constraints.

Research:

Guiding:
Ph.D.

Guided:

NPTEL Swayam Course:

- Completed an online course on “Introduction to Operations Research” through NPTEL Swayam in May 2023.

Books Published:

S. No.	Title	Year	Publisher	Place
1.				
2.				

Journal / Articles Published: (Attach the list using the format given below)

1. Ritha.W.,FrancinaNishandhi,I., (2015). Economic Order Quantity Models With Repair And Buy Options Using Backorder, International Journal of Applied Computational Science & Mathematics (IJACSM) Volume 5, Number 1,pp. 58-68, ISSN 2249-3042
2. Ritha.W., FrancinaNishandhi,I., (2015).The Impact of Cap and Trade Scheme on Inventory Policies, Applied Mathematics Elixir Appl. Math. 83 , pp.33054-33058
3. Ritha.W.,FrancinaNishandhi,I., (2015).Optimization of two stage supply chain Inventory models sales decision with advertising, International Journal of Research in Engineering and Applied Sciences, Ijreas Volume 5, Issue 9, (ISSN 2249-3905),pp.7-14.

4. Ritha.W.,FrancinaNishandhi,I., (2015).Single vendor- Multi buyer's integrated inventory model with rejection of defective supply batches. International Journal of Mathematics and Computer Research, volume 3 issue 10 , pp. 1182-1187 ISSN 2320-7167
5. Ritha.W.,FrancinaNishandhi,I.,(2015). Optimal trade credit and lot size policies in economic production quantity models with deterioration and shortages, International Journal of Advanced and Innovative Research (2278-7844) / # 130 / Volume 4 Issue 12,pp.130-134
6. Ritha.W.,FrancinaNishandhi,I., (2016). Sustainable consideration in a continuous review inventory model with integrated transportation decisions under the Carbon Emission Regulations Policies, International Journal of Research in Engineering and Applied Sciences VOLUME 6, ISSUE 3,(ISSN 2249-3905),pp.401-410
7. Ritha.W.,FrancinaNishandhi,I., (2016).An inventory model with haulage sharing approach and line haul cost for freight transportation, Aryabhata Journal of Mathematics and informatics, vol.8,No.1,pp.35-43
8. Ritha,W.,FrancinaNishandhi,I., (2016). A Consignment stock inventory model with the imperfect production process and energy usage for transportation and Production, Journal of Computing Technologies (2278 – 3814) / # 101 / Volume 5 Issue 4,pp.101-105
9. Ritha.W., FrancinaNishandhi,I.,(2016).Reverse Logistics Model: A closed loop Supply Chain system with energy, transportation and waste disposal costs,International Journal of Research and Scientific Innovations, Vol.III,Issue VII,ISSN 2321 -2705, pp.59-63
10. Ritha.W.,FrancinaNishandhi,I.,(2016).Effects of fuel charges in a three echelon Inventory model with, variable transportation and carbon emissions, International Journal of Latest Research and Technology, Vol-2,Issue 10, ISSN 2454-5031, pp ,1-9

11. Ritha.W.,FrancinaNishandhi,I.,(2018) A Joint Economic Lot Size Model with Screening Errors and Investment Opportunity for Quality Improvement of the Production, International Journal of Pure and Applied Mathematics, Volume 118, No. 6, pp.509-517,ISSN: 1311-8080 (printed version) ISSN: 1314-3395 (on-line version)
12. Francina Nishandhi.I.,Ritha.W.,LillyRobert,AntonitteVinoline.I.,andEveline.J.C.,(2019) A Study on an Integrated Three Echelon Inventory Model with Quality Improvement along with the Screening Errors and SSMD policy in the transportation, International Journal of Management, IT & Engineering, ISSN No: 2249-0558, pp.209-215.
13. Francina Nishandhi.I.,Ritha.W.,LillyRobert,AntonitteVinoline.I.,andEveline.J.C., (2019). A Study on an Integrated Inventory Model with Transportation cost along with the comparison of carbon regulations parameters such as carbon tax and cap and trade, International Journal of Research in Advent Technology, ISSN No:2321-9637,pp,145-149.
14. Francina Nishandhi.I.,Ritha.W.,LillyRobert, and PoongodiSathya.S.,(2019) . A Study on JELS Inventory Model of Delay in Payments along with different mode of Road transportation under the carbon emission reduction, Journal of Physical Sciences, Vol. 24, , 31-38 ISSN: 2350-0352 (print),pp. 31-38.
15. Francina Nishandhi.I,Saranya.A,Josephine.F.S and Swetha.P., (2020) Integrated Three Echelon Inventory Model with Finite Manufacturing And Remanufacturing rates Along With The Transportation Cost And Packaging Cost, European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 07, Issue 09, 3125-3134.
16. Francina Nishandhi.I, (2020)A production vendor – buyer inventory model with imperfect quality items considering the screening errors, budget capacity constraint along with a Karush – Khun – Tucker approach, Solid State Technology, Volume: 63 Issue: 6, 7840 - 7851. **Scopus Indexed Journal.**
17. Francina Nishandhi.I, (2020) An economic order quantity model for growing items with imperfect quality and Budget capacity constraint to limit the purchase, Solid State Technology, Volume: 63 Issue: 6, 7852 -7858. **Scopus Indexed Journal.**
18. A.Saranya, I.Francina Nishandhi, and F.S.Josephine, An Algorithm For Solving Hesitant Fuzzy Quadratic Fractional Transportation Problem. European Journal of Molecular & Clinical Medicine, ISSN 2515-8260 , Volume 07, Issue 09, 2020, **Scopus Indexed Journal.**

19. F.S.Josephine, A.Saranya, and I.Francina Nishandhi, A Dynamic method for solving intuitionistic fuzzy transportation problem. European Journal of Molecular & Clinical Medicine, ISSN 2515-8260 , Volume 07, Issue 09, 2020, **Scopus Indexed Journal**.
20. I.Francina Nishandhi, A.Saranya, and F.S.Josephine, Integrated inventory model with freight costs and two types of quantity discounts along with the carbon regulations parameters such as carbon tax and cap and trade. Nat. Volatiles & Essent. Oils, 2021; 8(4): 10041-10048 **Scopus Indexed Journal**.
21. A.Saranya, I.Francina Nishandhi, and F.S.Josephine, An Algorithm For Solving Quadratic Hesitant Fuzzy Transportation Problem. Nat. Volatiles & Essent. Oils, 2021; 8(4):10041-10048. **Scopus Indexed Journal**.
22. I.Francina Nishandhi , A Study on Pricing For Product Service System Under Dual Channel Supply Chain in a Three Echelon Inventory Model, Tuijin Jishu/ Journal of Propulsion Technology, ISSN:1001-4055, Vol.44 , No.4.(2023). **Scopus Indexed Journal**.

Conference/Seminar/Workshop/ Training Programme attended - Academic & General:

Academic Year	Name of the Conferences /Seminars/ Symposia/workshops/ FDP	National / International	Online/ Offline	Details
2017-2018	International Conference on Mathematical Methods and Computation. (2017)	International	Offline	PG & Research Department of Mathematics , Jamal Mohammed College (Autonomous), Trichy-20
2018-2019	International conference on Networking, Research and Innovation in Higher Education for a Sustainable Society: Challenges and Channels	International	Offline	Holy Cross College (Autonomous), Trichy-2
2018-2019	Heber International Conference on Applications of Actuarial Science, Mathematics, Management and Computer Science	International	Offline	PG Department of Actuarial Science , Bishop Heber College (Autonomous)
2018-2019	International Conference on Applied Mathematics and Bio- Inspired Computations	International	Offline	PG and Research Department of Mathematics (DST-FIST Sponsored) Bishop Heber College (Autonomous), Trichy -17.

2018-2019	National Conference on Recent Trends in pure and applied mathematics Sponsored by council of scientific and industrial research (CSIR)	International	Offline	Bon Secours College For Women Thanjavur
2018-2019	International Conference on Mathematical Methods and Computation. (2019)	International	Offline	PG & Research Department of Mathematics, Jamal Mohammed College (Autonomous), Trichy-20.
2018-2019	International Workshop on Machine Intelligence and Data Science (MIDS 2019)	International	Offline	Machine Intelligence Research Labs, Kochi.
2019-2020	Online Faculty Development Program on Fuzzy Sets and Systems	-	Online	Organized by Patrician College of Arts and science, Chennai
2019-2020	Webinar on Interesting Features of Integral Equations.	-	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2019-2020	Webinar on Doing Mathematics using Softwares.	-	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2019-2020	Andragogy of Online Teaching.	-	Online	Organized by Internal Quality Assurance Cell (IQAC), Holy Cross College (Autonomous), Trichy-2
2019-2020	Remote Classrooms Digital Technology in Teaching Learning,	-	Online	Organized by Internal Quality Assurance Cell (IQAC), Holy Cross College (Autonomous), Trichy-2
2020-2021	Two Days Faculty Development programme on Research Methodology	-	Online	Organized by Jeppiaar Institute of Technology Sriperumbudur
2020-2021	National webinar on “Fractals via fixed point theory”.	National	Online	Organized by PG and Research Department of Mathematics, Jayaraj Annapackiyam College for Women (Autonomous) Periyakulam, Theni - District
2020-2021	Webinar on Optimization models using Fuzzy Number.	-	Online	Organized by Holy Cross College (Autonomous), Trichy

2020-2021	One week online International Faculty Development Program on Artificial Intelligence and IoT – Heuristic Transdisciplinary perspectives.	International	Online	Organized by CICRSD , Holy Cross College (Autonomous), Trichy
2020-2021	State Level webinar on Applications of various divisions of Mathematics in Graph Theory”	-	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2020-2021	International Conference on “Present Trends in Applications of Mathematics”	International	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2021-2022	Five Days Online International Faculty Development Programme on “New Epoch In Software Learning”	International	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2021-2022	Five Days Online International Faculty Development Programme on “Blended and Inclusive strategies in Artificial Intelligence and Machine Learning”	International	Online	Organized by PG Department of Computer Science, Holy Cross College (Autonomous), Trichy -2.
2021-2022	International Conference on “Present Trends in Applications of Mathematics”	International	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2022-2023	National webinar on Academic Writing and Research Publication in indexed journals.	National	Online	Organized by centre for applied research, The Gandhigram Rural Institute (Deemed to be University), Gandhigram.
2022-2023	Two days In Service Faculty workshop on “Python & R programming”	-	Offline	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2022-2023	International Conference on Mathematical Methods and Computation. (2022)	International	Offline	PG & Research Department of Mathematics, Jamal Mohammed College (Autonomous), Trichy-20.
2022-2023	International Conference on Recent Trends in Applications of Mathematics	International	Offline	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2023-2024	One Day In service Faculty Workshop on Manipulation & Analysis of Data in SPSS 14 th July 2023	-	Offline	PG and Research Department of Mathematics, Holy Cross College, Trichy-2

2023-2024	International Conference on Recent trends in Applications of Mathematics. 4 th August 2023	International	Offline	PG and Research Department of Mathematics, Holy Cross College, Trichy-2
2023-2024	International Conference on Navigating Research and Impact: Metrics, Strategies, Ethical considerations. 23 rd September 2023	International	Offline	Centre for Research, Central Library and PG Department of Library and Information Science, Holy Cross College, Trichy-2
2023-2024	National conference on “The Evolving Landscape: Exploring Possibilities and Challenges for the Girl Child in a Dynamic World” 24 th January 2024	National	Offline	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2023-2024	One day National seminar on “Integrating Artificial intelligence for cyber security in the digital era” 22 nd February 2024	National	Offline	Organized by PG and Research Department of Computer Science, Holy Cross College (Autonomous), Trichy -2.
2023-2024	International Symposium on collaborative online interactive learning (Coil) on Mathematical Research. 1 st March 2024.	International	Online	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2024-2025	One day National seminar on “ Mechanics of Scholarly writing” 6 th July 2024	National	Offline	Organized by HCC Research Colloquium, Holy Cross College(Autonomous), Trichy -2.
2024-2025	“One day in service faculty workshop on Geogebra” 16 th July 2024	-	Offline	Organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy -2.
2024-2025	One day seminar on “Mastering in Writing and Publishing articles in Scopus & Web of science Journals”	-	Offline	Organized by HCC Research Colloquium, Holy Cross College(Autonomous), Trichy -2.

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TIRUCHIRAPPALLI.

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Declaration

I hereby state that above mentioned qualification and statements are true to the best of my knowledge.

Place: Trichy

Yours Faithfully

Date:

(I.Francina Nishandhi)