


# FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. N. Golden Stepha			
Designation	Professor			
Department	Science and Humanities			
Date of Joining the Institution	28/06/2012			
Qualifications	M. Sc (Mathematics)	M. Phil (Mathematics)	Ph.D (Mathematics)	
Total Experience	Overall : 29.3 years		in RMK : 13.5years	
Papers Published in Journal	Overall : 19 years		After Joining RMK :17	
List of Papers Published	<p>1. Swathy Guvva and N Golden Stepha, (2025) Modeling and Simulation of Magnetized Williamson Nanofluid Flow with Heat and Mass Transport in the Presence of Microorganisms, Journal of Thermal Analysis and Calorimetry, <b>Accepted, Springer, Impact Factor: 3.1, Q1</b></p> <p>2. N. Golden Stepha, Bharati and Swathy Guvva, (2024)MHD Williamson Fluid Flow on an Extending Sheet with Thermophoresis and Chemical Reaction, Chemical Industry and Chemical Engineering Quarterly 2024 Volume 30, Issue 4, Pages: 325-333, <b>Impact Factor: .232, Q3</b></p> <p>3. N. Golden Stepha, Vijayakumar, G. N. S., &amp; Muralidharan, K. (2023) Mathematical analysis of thermophoresis and chemical reaction effect on micropolar fluid flow in the presence of nano particles, Communications in Mathematics and Applications, 14(2), 901–914. <b>Impact Factor: 0.3, Q4</b></p> <p>4. N. Golden Stepha &amp; D. Kavin Jacob, (2021)Analysis on physical properties of micropolar nanofluid past a constantly moving porous plate, <a href="#">IOP Conference Series: Materials Science and Engineering</a>, WOS, <b>Impact Factor: 0.,</b></p> <p>5. N. Golden Stepha &amp; D. Kavin Jacob, (2021) Numerical simulation for convective heat and mass transfer effect of micropolar nanofluid flow with Variable Viscosity and radiation, WSEAS Transactions on Heat and Mass Transfer, ISSN / E-ISSN: 1790-5044 / 2224-3461, Volume 16, 2021, Art. #5, pp. 29-33, <b>Impact Factor: 0.119, Q4</b></p> <p>6. N. Golden Stepha &amp; D. Kavin Jacob, (2021) Effects of mass transfer and chemical reaction to micropolar nano fluid on a constantly moving plate with variable viscosity, Journal of Information and Computational Science, VOLUME 11 ISSUE 4. UGC</p> <p>7. N. Golden Stepha &amp; D. Kavin Jacob, (2020) Hydromagnetic Boundary Layer Forced Convective Flow of Micropolar Fluid with Heat Generation/Absorption, International Journal of Innovative Research in Science, Engineering and Technology, Volume 4 Issue 1 , Page 51-71, Volume 9, Issue 9, , Page 9001-9011</p>			

8. N. Golden Stepha, (2020), Numerical Study on Mass Transfer Flow of Chemically Reacting Micropolar Fluid past a Continuously Moving Plate Embedded in a Darcian Porous Medium, Journal of Engineering Mathematics & Statistics, Volume 4 Issue 1 , Page 51-71.

9. P. Loganathan, & N. Golden Stepha, (2013) Thermophoresis and Mass Transfer Effects on Flow of Micropolar Fluid past a Continuously Moving Porous Plate with Variable Viscosity & Heat Generation/Absorption, Asia-Pacific Journal of Chemical Engineering, **Volume8, Issue6**, Pages 870-879, **Impact factor 1.6, Q3**

10. P. Loganathan, & N. Golden Stepha, (2013) Radiation and Chemical Reaction Effects on Flow of Micropolar Fluid Past a Continuously Moving Porous Plate with Variable Viscosity, Journal of Applied Fluid Mechanics, **Volume6, Issue4, Pages 581-588, Impact factor 1.22, Q3**

11. Loganathan, P., Golden Stepha, N. (2012). Chemical reaction effect on forced convective heat and mass transfer flow of micropolar fluid past a continuously moving porous plate in the presence of radiation. International Journal of Heat and Technology, Vol. 30, No. 2, pp. 107-114. <https://doi.org/10.18280/ijht.300215>, **Impact factor 0.7, Q3**

12. Loganathan, P., Golden Stepha, N. (2012), Radiation and mass transfer effects on flow of micropolar fluid past a continuously moving plate with suction/injection, International Review of Mechanical Engineering, vol. 6, pp. 22-28. **Q2**

13. N. Golden Stepha et.al, (2024). High efficient employment of hybrid space division multiplexing/time division multiplexing techniques in active/passive optical transparent networks. *Journal of optics*, **54**, 1269–1278. **Impact factor 2.2, Q3**

14. N. Golden Stepha et.al, (2023). Impact of shadow or dust on solar Photovoltaic power generation system, 2023 Second International **Conference** on Electronics and Renewable Systems (ICEARS), Scopus

15. N. Golden Stepha et.al, (2023), Augmented Reality-based Smart Home Automation using Dynamic Vision Sensor, 2023 International **Conference** on Innovative Data Communication Technologies and Application (ICIDCA), Scopus.

16. N. Golden Stepha et.al, (2024), Sensory Intelligence-Integrating MBA Touch Into Earth Observation Systems for Enhanced Machine Learning, Novel AI Applications for Advancing Earth Sciences SCOPUS

17. N. Golden Stepha et.al, (2025), **An Intelligent Traffic Conflict Prediction Using Deep Learning with Long-Term Evolution Access Data, IEEE Xplore: 02 June 2025**

18. N. Golden Stepha et.al, (2025), Optimizing Cross-Border Supply Chains and Customer Satisfaction Using Conditional Decision Trees, **IEEE Xplore: 16 April 2025**

	<b>19. N. Golden Stepha et.al, (2024), An Approach for Avoiding Collisions with Obstacles in Order to Enable Autonomous Cars to Travel Through Both Static and Moving Environments. Wiley Online Library</b> <a href="https://doi.org/10.1002/9781119847656.ch7">https://doi.org/10.1002/9781119847656.ch7</a>	
<b>Papers Presented in Conferences</b> (Scopus / WoS indexed only)	Overall : 02	After Joining RMK :02
<b>Ph.Ds / Projects Guided</b>	Ph.Ds Guided : 06 (Guiding)	Student Projects Guided : 04
<b>Books Published :</b>	Count :03	
	1. Dr. N. Golden Stepha, at.al (2023), <i>Teachers Education: Skills and Practices</i> , GCS Publisher, India, ISBN:978-81-962755-0-1 2. Dr. N. Golden Stepha, at.al (2024), <i>Foundations of Education Psychology</i> , SIPH, ISBN: 978-93-6132- 978-4 3. Dr. N. Golden Stepha, at.al (2025), <i>Data Science and Machine Learning using Python</i> , ISBN: 978-93-6674-416-2	
<b>Patents</b>	Published Count : 3	Granted Count :0
	List: 1.WASTE-TO-ENERGY MANAGEMENT FROM MUNICIPAL WASTES 2. CLOUD BASED WATER QUALITY CHECK 3. A SYSTEM FOR DETECTION OF BREAST CANCER BASED ON IOT AND MACHINE LEARNING ALGORITHMS	
<b>Professional Memberships</b>	Count : 03	
	The Indian Society for Technical Education IAENG-International Association of Engineers SIPH -Life time membership	
<b>Consultancy Projects Completed</b>	Count : 02	
<b>Awards Received</b>	Count :01	
	1. Best Women Faculty Award 2023, SIPH	
<b>Research grants Received</b>	Nil	
<b>Orchid Link / ID</b>	<a href="https://orcid.org/0000-0001-5382-8598">https://orcid.org/0000-0001-5382-8598</a>	
<b>Google Scholar Link / ID</b>	<a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=id&amp;user=UOzCle0AAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=id&amp;user=UOzCle0AAAAJ</a>	

<b>Vidwan Link / ID</b>	<a href="https://vidwan.inflibnet.ac.in/profile/282353">https://vidwan.inflibnet.ac.in/profile/282353</a>
<b>ResearchGate Link / ID</b>	<a href="https://www.researchgate.net/profile/Golden-Stepha-2?ev=hdr_xprf">https://www.researchgate.net/profile/Golden-Stepha-2?ev=hdr_xprf</a>
<b>Scopus Link / ID</b>	55322643600