

# FACULTY PROFILE

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

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

	<p><b>19.</b> N. Golden Stephia et.al, (2024), An Approach for Avoiding Collisions with Obstacles in Order to Enable Autonomous Cars to Travel Through Both Static and Moving Environments. <b>Wiley Online Library</b>  <a href="https://doi.org/10.1002/9781119847656.ch7">https://doi.org/10.1002/9781119847656.ch7</a></p>	
<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
	Count :03	
<b>Books Published :</b>	<ol style="list-style-type: none"> <li>1. Dr. N. Golden Stephia, at.al (2023), <i>Teachers Education: Skills and Practices</i>, GCS Publisher, India, ISBN:978-81-962755-0-1</li> <li>2. Dr. N. Golden Stephia, at.al (2024), <i>Foundations of Education Psychology</i>, SIPH, ISBN: 978-93-6132- 978-4</li> <li>3. Dr. N. Golden Stephia, at.al (2025), Data Science and Machine Learning using Python, ISBN: 978-93-6674-416-2</li> </ol>	
<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	
	Count : 03	
<b>Professional Memberships</b>	The Indian Society for Technical Education IAENG-International Association of Engineers SIPH -Life time membership	
<b>Consultancy Projects Completed</b>	Count : 02	
	Count :01	
<b>Awards Received</b>	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