


## FACULTY PROFILE

<b>Name of Teaching Staff / RMK ID</b>	Mr. DARWIN NESAKUMAR A / T0824			
<b>Designation</b>	ASSISTANT PROFESSOR			
<b>Department</b>	ECE			
<b>Date of Joining the Institution</b>	13.05.2014			
<b>Qualifications</b>	M.E	M.B.A., PGDBA	(P.hD)	
<b>Total Experience</b>	Overall : 11 YEARS		in RMK : 9 YEARS	
<b>Papers Published in Journal</b>	Overall : 19		After Joining RMK : 19	
<b>List of Papers Published</b>	<ol style="list-style-type: none"> <li>1. <b>Darwin Nesakumar A</b>, R Priyadharshini, K Pavithra, L. Sherin, K N Pavithra, P Mugilan, <i>“Emotional Based Playback System for Autism”</i>, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Publisher : IEEE, Volume , Year 2022, Pages 1328-1332</li> <li>2. <b>Darwin Nesakumar A</b>, Srinath Bhavyasri, Tanguturi Keerthana, Yelisetty Meghana, K N Pavithra, P Mugilan, <i>“Bitcoin Price Prediction Using Deep Learning and Neural Networks”</i>, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Publisher : IEEE, Volume , Year 2022, Pages</li> <li>3. <b>Darwin Nesakumar A</b>, Arthi S, Avulu Lahari, Geetha M, Pavithra K N, P Mugilan, <i>“Smart ATM Card for Multiple Bank Accounts”</i>, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Publisher : IEEE, Volume , Year 2022, Pages 1228-1232,</li> <li>4. <b>Darwin Nesakumar A</b>, M.S.Kavitha, B.Sarala, J.Jasmine Hephzipah, R.Pavaiyarkarasi, M.Perarasi, T.D.Subha, <i>“Optimal Algorithm for Power Assignments in OFDM-form of Cognitive Radio Technique”</i>, Evaluation of salivary alpha amylase as an inflammatory biomarker in chronic periodontal disease: a cross-sectional study, Special Issue 2, 1929-1937, 2023.</li> <li>5. Vishnupriya S, <b>Darwin Nesakumar A</b>, Mounika S, Pavithra K N, <i>“Mysterious Action Detection by Speed and Displacement Analysis in Image Processing”</i>, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Publisher :</li> </ol>			

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6. Suganthi P Chaaru Viswas S, **Darwin Nesakumar A**, "*Smart Social Distance Monitor through Message Intimation and Transfer*", International Journal of Advance Research and Innovative Ideas in Education, Volume-9, Issue-3, Pages 1241-1250, 2023.
7. **Darwin Nesakumar A**, A. Darwin Nesakumar, T. Suresh, P. Kanimozhi, et al., "*Vehicle seat vacancy identification using image processing technique*", AIP Conference Proceedings 2519, 050023 (2022); <https://doi.org/10.1063/5.0109641>  
Published Online: 03 October 2022, October 2022
8. Beno, A., Lanitha, B., **Darwin Nesakumar, A.**, Prasad, V.R.R. "*Hybrid LSTM-PCA-Powered Renewable Energy-Based Battery Life Prediction and Management for IoT Applications*", Journal of Nanomaterials, 2022.
9. Bazil Wilfred, C., Beno, A., **Darwin Nesakumar, A.**, ...Bagavathy, S., Sheeba Rani, S., "*IoT enabled Framework for Wearable Medical Sensor Data*", Proceedings of the 5th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2021, 2021, pp. 226–230
10. **Darwin Nesakumar A**, Ranjitha L, Pavithra M, Ratnavarshaa N, "*Life Saving Smart Automobile*", Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 7 pp:13440 – 13446, ISSN 1309-6591, July 2021.
11. **Darwin Nesakumar A**, A. Swetha Reddy, K.S. Swetha, S. Vishnupriya, P.Mugilan, "*Link Recovery & Energy Efficient Based Routing for MANET*", Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 7 pp. 13433 – 13439, ISSN 1309-6591, July 2021.
12. **Darwin Neaskumar A**, T Suresh, Nivedha T, Nivedha S, Priyadharshini G, P Mugilan, "*Smart ATM Security Using Face Recognition*", European Journal of Molecular & Clinical Medicine, ISSN : 2515-8260, pp.1349-1354, Voulme7, Issue 4, December 2020.
13. **Darwin Neaskumar A**, T Suresh, M. Aarthi, K.Gomathi, G. Aarthi, P.Mugilan "*Accident Detection, Alert and Tracking System Based on IoT*", European Journal of Molecular & Clinical Medicine, ISSN : 2515-8260, pp.1370-1374, Voulme7, Issue 4, December 2020.
14. **Darwin Neaskumar A**, Inbamalar T M "*A Study of Cognitive Radio Sensing Techniques for Optimum Spectrum Spectrum*

	<p><i>Utilization</i>", Recent Advances in Computer Science and Communications, ISSN : 2666-2566, December 2020. DOI : 10.2174/2666255813999200904134324.</p> <p>15. <b>A.Darwin Nesakumar</b>, M.Daniel Nareshkumar, A.Swetha Reddy, P.Mugilan, "<i>Mobile Sink Based Data Assemblage in Wireless Sensor Networks</i>", International Journal of Recent Technology and Engineering (IJRTE), ISSN : 2277-3878, pp.5543-5550,Volume-8, Issue-4, November 2019.</p> <p>16. M.Daniel NareshKumar, J.Janish Blessy, <b>A.Darwin Nesakumar</b>, Sadagopan Venugopal, "<i>Reduction of Specific Absorption Rate using Carbon Foam Inside Enclosures</i>", International Journal of Recent Technology and Engineering (IJRTE), ISSN : 2277-3878, Volume-8, Issue-4, November 2019.</p> <p>17. Machukonda Gautham, Vinodh,Syed Vaseem, <b>A.Darwin Nesakumar</b>,"<i>Radio Frequency Identification Based Smart Shopping Trolley</i>" International Journal of Advance research and innovative Ideas in Education (IJARIE), ISSN(O) : 2395-4396,Vol-5, Issue-2, pp. 862-868, April 2018.</p> <p>18. M.Krishna Moorthy, <b>A.Darwin Nesakumar</b>,"<i>Cooperative Spectrum Sensing based on Cognitive Radio systems for efficient spectrum utilization</i>," International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences (IJ-ETA-ETS), ISSN: 0974-3588, pp.33-37, Special Issue, December 2014.</p> <p>19. S. Rahul Kumar, S Naresh, A. Praveen, KM Sai Sandeep, R Rokesh kumar, <b>Darwin Nesakumar A</b>, "<i>Cubesats For 5g Communications</i>", National Conference On Communication And Signal Processing Systems, ISBN: 978-93-91662-05-9, pp.79-81, December 2021.</p>	
<b>Papers Presented in Conferences</b> (Scopus / WoS indexed only)	Overall : 09	After Joining RMK : 09
<b>Ph.Ds / Projects Guided</b>	Ph.Ds Guided : NIL	Student Projects Guided : 25
<b>Books Published :</b>	Count : 1	
	List : <i>Ad hoc and Wireless Sensor Networks</i> (Alpha International Publication – AIP)	
<b>Patents</b>	Published Count : 6	Granted Count :NIL

	<p>List :</p> <ol style="list-style-type: none"> <li>1. Published a patent on “ <i>Sensing and Detection of Cracks And Obstacles On The Railway Line</i>” on December 2021.</li> <li>2. Published a patent on “ <i>AI and IoT based Smart Energy and Power Management Systems by using Raspberry Pi</i> ” on 17<sup>th</sup> January 2022.</li> <li>3. Published a patent on “<i>Internet of Things, Embedded based Cloud- Agent device for Infant mortality Syndrome Observing and Investigation using ML</i> ” on 25<sup>th</sup> January 2022.</li> <li>4. Published a patent on “<i>5G Network from space using AI and Machine Learning</i>” on 27<sup>th</sup> January 2022.</li> <li>5. Published a patent on “<i>Microcontroller Controlled Robot Arm for Paint Spraying</i>” on 22<sup>nd</sup> January 2022.</li> <li>6. Published a patent on “<i>A Multi-Stage based Combining-Feature-Selection with ML method for Higher Prediction of Heart related Diagnosis</i>” on 3<sup>rd</sup> March 2022.</li> </ol>
<b>Professional Memberships</b>	<p>Count : 8</p>
	<ol style="list-style-type: none"> <li>1. Senior Member of IEEE (Institute of Electrical and Electronics Engineers)</li> <li>2. Life Member of IETE ( Institution of Electronics and Telecommunication Engineers)</li> <li>3. Life Member of ISTE ( Indian Society of Technical Education)</li> <li>4. Life Member of IEI ( Institution of Engineers)</li> <li>5. Life Member of IAENG (International Association of Engineers)</li> <li>6. Member of CSTA (Computer Science Teachers Association)</li> <li>7. Life Member of ISSE (Indian Society For Science and Engineering)</li> <li>8. Life member of SIPH (Scientific International Public House)</li> </ol>
<b>Consultancy Projects Completed</b>	<p>Count : 1</p>
<b>Awards Received</b>	<p>Count : 1</p>
	<p>List : Best Teacher Award given by Scientific International Public House (SIPH)</p>

<b>Research grants Received</b>	NIL
<b>Orchid Link / ID</b>	<a href="https://orcid.org/0000-0003-3189-9381">https://orcid.org/0000-0003-3189-9381</a>
<b>Google Scholar Link / ID</b>	<a href="https://scholar.google.com/citations?user=nqifGCoAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=nqifGCoAAAAJ&amp;hl=en</a>
<b>Vidwan Link / ID</b>	<a href="https://vidwan.inflibnet.ac.in/profile/305357">https://vidwan.inflibnet.ac.in/profile/305357</a>
<b>Research Gate Link / ID</b>	<a href="https://www.researchgate.net/profile/Darwin-Nesakumar">https://www.researchgate.net/profile/Darwin-Nesakumar</a>
<b>Scopus Link / ID</b>	<a href="https://www.scopus.com/authid/detail.uri?authorId=57443117200">https://www.scopus.com/authid/detail.uri?authorId=57443117200</a>