


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. Gnanasekaran Thangavel / T0923			
Designation	Professor and Head			
Department	Electronics and Instrumentation Engineering			
Date of Joining the Institution	27.05			
Qualifications	B.E(ECE)	MS(IT), M.E(AE)	Ph.D.	
Total Experience	Overall : 33 Years			in RMK : 11 Years
Papers Published in Journal	Overall : 62			After Joining RMK : 45
List of Papers Published	<p><u>National Journal</u></p> <ol style="list-style-type: none"> 1. T.Gnanasekaran, K.Duraiswamy, M.M.Arunprasath “Novel Method for Embedded RISC Architecture to Reduce Memory Access Energy” published in Journal of Computer Science Vol: 2 no: 4 May-June 08 in page no 639. 2. T.Gnanasekaran, K.Duraiswamy, S.Nima Judith Vinmathi “A Modified Maximum A Posteriori Probability (MAP) algorithm for Turbo Decoder” published in Journal of Computer Science Vol. 3, No. 4, pp. 1080-1085. 3. T.Gnanasekaran, P.Sivaselvi, D.V.Soundari “PERFORMANCE OF UNEQUAL ERROR PROTECTION FOR IMAGE TRANSMISSION USING TURBO DECODING ALGORITHMS” CIT JOURNAL OF RESEARCH (CITJR) Volume 1, No. 4, Dec to Feb 2010- 11. <p><u>International Journal</u></p> <ol style="list-style-type: none"> 1. T.Gnanasekaran and K.Duraiswamy “Modified Soft Output Viterbi Error Correcting Algorithm” published in IJCSNS International Journal of Computer Science and Network Security VOL.8 No.9, September 2008, PP 161-165. 2. Gnanasekaran T and K.Duraiswamy “Performance of Unequal Error Protection Using Maximum A- posteriori Probability Algorithm and Modified MAP in Additive White Gaussian Noise and Fading Channel” published in Journal of Computer Science Volume 4, ISSUE 7, ISSN Print: 1549-3636, ISSN Online: 1552-6607 DOI: 10.3844/jcssp.2008.585.590, 2008, PP 585 - 590. Indexed : Scopus 			

	<ol style="list-style-type: none"> 3. T.Gnanasekaran and K.Duraiswamy “Application of Scaling factors for MAP and SOVA for Robust Performance in Forward Error Correction” published in International Journal of Recent Trends in Engineering (Electrical & Electronics), Vol. 1, No. 3, June 2009 pp 47-51. 4. T.Gnanasekaran and Dr.K.Duraiswamy “Performance of Turbo Codes Using Code Generator [13, 15] and [31, 17] in AWGN and Fading Channel”, published in International Journal of Recent Trends in Engineering (Electrical & Electronics), Vol. 2, No. 6, November 2009 pp 20-23. 5. T.Gnanasekaran, P.Sivaselvi, D.V.Soundari ”Performance of Turbo Decoding Algorithms for Image Transmission Using JSCC” published in International Journal of Computational Intelligence & Telecommunication Systems, Vol. 2, No.1, January-June 2011, pp27-32. 6. T.Gnanasekaran, T.Kadhambari and K.Kanagasundaram “Performance of Various Scheduling Algorithms in Mobile WiMAX” published in CiiT International Journal of High Performance Communication Systems and Networking, Vol. 3, No1, January-June 2011, pp53-58. 7. T.Gnanasekaran and V.Aarthi “Performance Enhancement of Modified SOVA Decoding Algorithm for Turbo Codes” published in CiiT International Journal of Networking and Communication Engineering, Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616, Vol3, No 4, March 2011. http://www.citresearch.org/dl/index.php/nce/article/view/NCE032011013 8. T.Gnanasekaran, K.Thamrairubini, K.Kanagasundaram and Kadhar Nawaz “Performance Evaluation of QoS for WiMAX Mesh networks using Centralized Scheduling Algorithm” published in CiiT International Journal of Wireless Communication, Print: ISSN 0974 – 9756 & Online: ISSN 0974 – 9640, March 2011. 9. T.Gnanasekaran and V.Aarthi ”Effect of Constraint Length and Code Rate on the Performance of Enhanced Turbo Codes in AWGN and Rayleigh Fading Channel” published in WSEAS TRANSACTIONS ON COMMUNICATIONS, Vol.10 issue 5 ISSN: 1109-2742, May 2011,pp 137-146.(AU/Anx II/ 19195), https://dl.acm.org/citation.cfm?id=2037102 http://www.worldses.org/journals/communications/communications-2011.htm, http://www.wseas.us/e-library/transactions/communications/2011/53-308.pdf 10. T.Gnanasekaran and V.Aarthi, NS Pradeep ”Performance Enhancement of Modified Turbo Decoding Algorithms for Mobile WIMAX” published in AJEEE: Australian Journal of Electrical and Electronics, Vol. 9 No 2, ISSN: 1448-837X, October 2012, pp 153-163. https://doi.org/10.1080/1448837X.2012.11464319(Annexure 2)
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<https://www.tandfonline.com/doi/abs/10.1080/1448837X.2012.11464319>

11. Dr.T.Gnanasekaran, S.Punithashankari, P.Kalyanasundaram, **“Energy Saving In Wireless Sensor Network Using Burst Algorithm”** IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), e-ISSN: 2278-2834, p- ISSN: 2278-8735. Volume 5, Issue 1 (Jan. - Feb. 2013), PP 52-59. 10.9790/2834-0515259 , <http://www.iosrjournals.org/iosr-jece/papers/Vol5-Issue1/H0515259.pdf>
12. Kavitha S, Dr.Varghese Paul, Dr.T.Gnanasekaran, **“Color Face Recognition using Texture Features and Fractional Fourier Transforms”** International Journal of Scientific & Engineering Research, Volume 4, Issue 8, August 2013 ISSN 2229-5518. (Annexure 2)
13. Kalyanasundaram.P, Priyadarshini.M, Dr.Gnanasekaran.T, **“The Unceasing Detection of Adjoining Nodes, Its Connectivity, Weakness Impact on Wireless Sensor Networks and Actor Networks”**, International Journal of Innovative Research in Science, Engineering and Technology, Vol.3, Special Issue 1, February 2014.,PP 1346-1362. http://www.ijirset.com/upload/2014/icets/134_EC353.pdf
14. T.D.Subash, Dr.T.Gnanasekaran, J.Jagannathan, C.Divya, **“Relative Analysis of GaAs, InSb, InP Using QWFET”**, International Journals of Advanced Materials Research. Vol 984-985(June 2014) pp 1080-1084. <https://doi.org/10.4028/www.scientific.net/AMR.984-985.1080>
15. T.D.Subash ,T.Gnanasekaran,J.C. Divya and J.Jagannathan, **“Design and Simulated Characteristics of Nanosized InSb Based Heterostructure Devices”** Advances in Materials Science and Engineering, Volume 2014(August), Article ID 196732, 5 pages, <http://dx.doi.org/10.1155/2014/196732>.
<http://www.hindawi.com/journals/amse/2014/196732/>
16. T.D.Subash ,T.Gnanasekaran, **“Indium antimonide based HEMT for RF applications”** Journal of Semiconductors, Vol. 35, No. 11, November 2014, © 2014 Chinese Institute of Electronics. DOI:10.1088/1674-4926/35/11/113004, <https://iopscience.iop.org/article/10.1088/1674-4926/35/11/113004>
17. M.Baskar, T.Gnanasekaran, T.S.Arulananth **“Passive Optical Network Supporting Seamless Integration of RoF and OFDMA Signals**, International Journal of Engineering Research Volume No.3, Issue No.12,pp: 726-729, ISSN:2319-6890)(online),2347-5013(print) 01 Dec. 2014.
18. M.Baskar, T.Gnanasekaran **“Detecting And Mitigating Malicious Packets Losses Using Random Early Detection Method”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1704-1709 ISSN 0973-4562, March 2015. (Annexure 2)
http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_102.pdf

19. Kalyanasundaram.P , T.Gnanasekaran “**Dynamic Key Generation and Prevent Link from Adversary in Wireless Communication ”** International Journal of Advanced and innovation Research (IJAER) Volume 04, Issue 03, 03rd March 2015.
20. Kalyanasundaram.P, T.Gnanasekaran “**Energy Optimal Cog-Mac for controlling WLAN coexistence Interference in sensor Networks”** International Journal of Advanced and innovation Research (IJAER) Volume 04, Issue 10, 10th October 2015.
21. T.S. Arulananth, Dr. T. Jayasingh, M. Baskar, Dr.T.Gnanasekaran, “**Hand Free Mouse Access Based On Face Action For The Challenged Human Using Dsp Algorithm”** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20, pp 2043-2048 (2015). (Annexure 2)
22. BASKAR M, GNANASEKARAN T, ARUL ANANTH T S, “**IP Based Adaptive Intrusion Tracing Mechanism for Detecting Low Rate DDoS Attacks”** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20, pp 2025-2030 (2015). (Annexure 2)
23. T.D.Subash, T.Gnanasekaran, A.Karpaga selvi, S.Bagtha priya, R.Kavitha “**Enhanced Sder Clock Gating Flipflop In A Synchronous System”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1466-1470 ISSN 0973-4562, March 2015.http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_49.pdf
24. T.D.Subash, T.Gnanasekaran, V.Ajitha, R.Rajimol, R.Ratheesha, “**Design of Low Power Clock-Gated Double Edge –Triggered Flip-Flops”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1952-1968, ISSN 0973-4562, March 2015.http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_152.pdf
25. T.D.Subash, T.Gnanasekaran, T.D.Subha, T.D.Subashini, “**The Role of LSDCCFF for LC Resonant Clock Distribution Networks in Low Power VLSI”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1949-1953, ISSN 0973-4562, March 2015.http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_150.pdf
26. P.KALYANASUNDARAM, S.KIRUTHIKA, Dr.T.GNANASEKARAN “**Mobile Sink Approach In Energy Efficient Wireless Sensor Network With Pairwise Key Generation For Smart Grid Environment”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1998-2002, ISSN 0973-4562, March 2015. <https://www.ripublication.com/Volume/ijaerv10n2spl.htm>
27. Priya B, T.Gnanasekaran “**Scheduling and Load Balancing Algorithms in Grid – A Comparative Study”**, International Journal of Applied Engineering Research, (IJAER), ISSN 0973-4562 Vol. 10, no.75(2015)@Research India Publications. <https://www.ripublication.com/Volume/ijaerv10n75spl.htm>

28. Dr.T.Gnanasekaran, Mr.M.Baskar, Ms.B.Saranya published a technical paper on **“Preserving the Privacy of a Private Image using Visual Cryptography”** for International Journal for Scientific Research & Development, Volume No 03, Issue No. 02, April 2015 ISSN (online): 2321 – 0613.
29. Kalyanasundaram P, Nirmal Kumar K, Dr.T.Gnanasekaran, **“Energy Optimal Cog-Mac for Controlling WLAN Coexistence Interference in Sensor Networks”**, International Journal of Advanced and Innovative Research (2278-7844) , Vol. 4, Issue 10, October 2015, PP 143-159.
30. T.D Subash, T Gnanasekaran, P Deepthi Nair, **“ Analytical modeling of AlInSb MOS gate HEMT structure with improved performance”** International Journal of Modeling, Simulation, and Scientific Computing, Vol. 7, No.3(2016) 1672001 March 2016. <https://doi.org/10.1142/S1793962316720016><http://www.worldscientific.com/doi/abs/10.1142/S1793962316720016>
31. Kalyanasundaram P, Dr.T.Gnanasekaran **“A Multi-Hop Dynamic Path Algorithm for the augmented lifetime of Wireless Sensor Networks Hop Dynamic Path-selection (MHDP) algorithm for the augmented lifetime of selection (MHDP) algorithm for the augmented lifetime of Wireless Sensor Networks”** Circuits and Systems, 2016, Scientific Research Publishing, Published Online **** 2016 in SciRes. <http://www.scirp.org/journal/>, http://dx.doi.org/10.4236/cs.2016.***** https://www.scirp.org/pdf/CS_2016082915244020.pdf. (Annexure 1).
32. T. D. Subash, T.Gnanasekaran, and M. Freeda, **“Synthesis of ZrO2 nanoparticle and design of HEMT devices”** INTEGRATED FERROELECTRICS, VOL. 176, 132-139, Taylor & Francis 2016. (Annexure 1) <https://doi.org/10.1080/10584587.2016.1250184> <http://www.tandfonline.com/doi/full/10.1080/10584587.2016.1250184>.
33. Kalynasundaram P, Nirmal Kumar K, T.Gnanasekaran **“Adaptive COG-MAC scheme for coexistence of IEEE 802.15.4 with other interfering systems”** International Journal of Advanced research trends in engineering and technology, VOL. 3, April 2016.
34. Baskar M & Gnansekarana.T, **“Developing Efficient Intrusion Tracking System using Region Based Traffic Impact Measure Towards the Denial of Service Attack Mitigation”**, Publishing in Journal of Computational and Theoretical Nanoscience (CTN), Vol. 14, 3576–3582, pp 3576-3582 <https://doi.org/10.1166/jctn.2017.6789>, <https://www.ingentaconnect.com/content/asp/jctn/2017/00000014/00000007/art00059>, December 2016. (Annexure 1).
35. Kalynasundaram P, T.Gnanasekaran, **“A noval method for optimizing maximal lifetime coverage (OMLC) scheduling of nodes in wireless**

36. Baskar, M & Gnansekaran, T, “**Multi Model Network Analysis for Improved Intrusion Tracing towards Mitigating DDoS Attack**”, Asian Journal of Research in Social Sciences and Humanities, vol. 7, no. 3, pp. 1343-1353, March 2017. (Annexure 1). Journal of Research in Social Sciences and Humanities. Article DOI : 10.5958/2249-7315.2017.00247.7
37. J.M.Nandhini, T.Gnanasekaran. "**Fault Tolerance using Adaptive Checkpoint in Cloud – An Approach**" International Journal of Computer Applications (IJCA) (0975 – 8887). DOI 10.5120/ijca2017915155, Volume 175, No.6, 09-14pp <https://www.ijcaonline.org/archives/volume175/number6/nandhini-2017-ijca-915155.pdf>, August 2017
38. Priya B, T.Gnanasekaran. "**Hierarchical Load Balancing algorithms in Cloud: A Survey**" International Journal of Computer Applications (IJCA) (0975 – 8887). Volume 171 – No.4, pp 19-21, DOI 10.5120/ijca2017915018, <https://www.ijcaonline.org/archives/volume171/number4/priya-2017-ijca-915018.pdf> August 2017
39. M. Baskar, T.Gnanasekaran, J. Frank Vijay, “**Time Variant Predicate Based Traffic Approximation Algorithm for Efficient low Rate DDoS Attack Detection**” published in TAGA JOURNAL OF GRAPHIC TECHNOLOGY, Vol.14, pp352-368, ISSN: 1748-0345 (Online), 1748- 345 (Print), February 2018. AU Annexure 1 (T1) <http://www.tagajournal.com/gallery/v14.33.pdf>
40. T. Rajendran, T. Gnanasekaran, “**Multi level object relational similarity based image mining for improved image search using semantic ontology**” Cluster Computing (2018) The Journal of Networks, Software Tools and Applications (Springer) ISSN: 1386-7857 (Print) 1573-7543 (Online), pp 1–8, <https://doi.org/10.1007/s10586-018-1975-8>. Indexing: SCOPUS and SCI
41. Santhosh Krishna B V, Gnanasekaran T, and Aswini S , “**Unsupervised Morphological Approach for Retinal Vessel Segmentation**” in Progress in Computing, Analytics and Networking, Advances in Intelligent Systems and Computing, pp 743-752 https://doi.org/10.1007/978-981-10-7871-2_71, April 2019.
42. Priya B, Gnanasekaran T, “**State of the art - optimization techniques in cloud environment**” in International Journal of Engineering & Technology, Vol. 7, no2.33, (2018) pp56-58. DOI: 10.14419/ijet.v7i2.33.13854

<https://www.sciencepubco.com/index.php/ijet/article/view/13854> Indexing: SCOPUS.

43. J.M.Nandhini , Gnanasekaran T, “ **Review on failure forecast in cloud for a fault tolerant system**” in International Journal of Engineering & Technology, 7 (2.33), pp67-70 (2018) DOI: 10.14419/ijet.v7i2.33.13857, <https://www.sciencepubco.com/index.php/ijet/article/view/13857>, Indexing: SCOPUS.
44. Santhosh Krishna B V, Gnanasekaran T , “**Unsupervised Automated Retinal Vessel Extraction Framework Using Enhanced Filtering and Hessian Based Method with Hysteresis Thresholding**” Journal of Medical Imaging and Health Informatics (American Scientific Publishers), Vol. 9, 1000–1010, February 2019. <https://doi.org/10.1166/jmih.2019.2687>
45. T. Rajendran, M. Baskar, T. Gnanasekaran, N. Mohamed Imtiaz, “**Class Based Semantic Feature Similarity for Efficient Image Mining using BC Patterns**” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-6, April 2019. Indexing: SCOPUS. <https://www.ijitee.org/wp-content/uploads/papers/v8i6/F3598048619.pdf,pp355-358>
46. J. M. Nandhini, T. Gnanasekaran “**Enhanced Fault identification and optimal task prediction (EFIOTP) algorithm during multi-resource utilization in cloud-based knowledge and personal computing**”. The journal Personal and Ubiquitous Computing(Springer Nature), ISSN: 1617-4909 (Print) 1617-4917 (Online), July 2019, DOI <https://doi.org/10.1007/s00779-019-01265-6>
https://link.springer.com/article/10.1007/s00779-019-01265-6?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorContributingOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorContributingOnlineFirst_20190728, Indexing: SCOPUS and SCI
47. Priya B, Gnanasekaran T , “**To optimize load of hybrid P2P cloud data-center using efficient load optimization and resource minimization algorithm**”. The journal Peer-to-Peer Networking and Applications (Springer Science+Business Media, LLC, part of Springer Nature 2019), ISSN 1936-6442 (Print) ISSN: 1936-6450 (electronic version) DOI <https://doi.org/10.1007/s12083-019-00795-3>, Anna University Journal Reference Number: 9254, Indexing: SCOPUS and SCI
48. SANTHOSH KRISHNA B V, GNANASEKARAN T, “**Retinal Vessel Extraction Framework Using Modified Adaboost Extreme Learning Machine**” Journal of Computers, Materials & Continua CMC, Vol.60, no.3, pp.855-869, August 2019. CMC. doi:10.32604/cmc.2019.07585, www.techscience.com/cmc Annexure 1, Indexing: SCOPUS and SCI.

49. J. M. Nandhini, T. Gnanasekaran, “**Enhanced fault identification and optimal task prediction (EFIOTP) algorithm during multi-resource utilization in cloud-based knowledge and personal computing**”. The journal Personal and Ubiquitous Computing(Springer Nature), **ISSN: ISSN 1617-4909** (DOI <https://doi.org/10.1007/s00779-019-01265-6>)
50. Chairma Lakshmi K.R, Gnanasekaran T, “**Border Alert and Life Projection System for Fishermen**” Journal of Advanced Engineering Research ISSN: 2393-8447 Volume 6, Issue 1, 2019, pp.10-15.
51. B. Priya and T. Gnanasekaran, “**A Comprehensive Study on the Load Assessment Techniques in Cloud Data Center**” in Springer Nature Switzerland AG 2020, New Trends in Computational Vision and Bio-inspired Computing, https://doi.org/10.1007/978-3-030-41862-5_19 (Scopus and Web of Science Indexed). pp 207-214
52. B. Praveena, K.R. Chairma lakshmi, Dr. T. Gnanasekaran, K. Srinidhi, “**Monitoring Of Transformer And Generator Using Iot**”, International Journal of Advanced Science and Technology, Vol. 29, No. 9s, (2020), pp. 3470-3476, ISSN: 2005-4238 IJAST, May 2020, <http://sersc.org/journals/index.php/IJAST/article/view/16331> (Scopus Indexed)
53. Aswini S, Gnanasekaran T, “**Detection of Glaucoma by Optic Disc and Optic Cup Segmentation**”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, © 2020 IJSRCSEIT | Volume 4 | Issue 11 | ISSN : 2456-3307 (www.ijsrcseit.com)
54. Priya B, Gnanasekaran T , “**Optimal Resource Allocation and Quality of Service Prediction in Cloud**” Journal of Computers, Materials & Continua CMC, Vol.67, no.1, pp.253-265, January 2021. CMC. DOI:10.32604/cmc.2021.013695, www.techscience.com/cmc Annexure 1, Indexing: SCOPUS and SCI.
55. Book chapter in RECENT TRENDS IN ENGINEERING AND TECHNOLOGY, ISBN – 9788194714989 Priya. B, Nandhini J.M and Gnanasekaran Thangavel, “**NATURAL LANGUAGE PROCESSING – A PANORAMIC VIEW**” in Recent Trends in Engineering And Technology, ISBN – 9788194714989, PP 82-89.
56. Nandhini Jembu Mohanram, Gnanasekaran Thangavel and N. M. Jothi Swaroopan, “**Fault Aware Dynamic Resource Manager for Fault Recognition and Avoidance in Cloud**” in the journal of Computer Systems Science & Engineering (Tech Science Press), Vol.38, No.2, 2021, pp.215-228, 24.04.2021, doi:10.32604/csse.2021.015027, Annexure 1, Indexing: SCOPUS, Web of Science and SCI. <https://www.techscience.com/csse/v38n2/42336>.

	57.Priya B, Nandhini J, Gnanasekaran T , “ An Analysis of the Applications of Natural Language Processing in Various Sectors ” Advances in Parallel Computing, IOS Press, Vol.67, no.1, pp.598-602, October 2021. DOI: doi:10.3233/APC210109, Indexing: SCOPUS.					
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 13			After Joining RMK : 10		
Ph.Ds / Projects Guided	Ph.Ds Guided : 07			Student Projects Guided : 32		
Books Published :	Count : 06					
	List:					
	Sl No	Title of the book	Authors	Publisher	Year of Publication	ISBN
	1	Multimedia Compression Techniques / Communication	B.V Santhosh Krishna T.Gnanasekaran J.Jijin Godwin	A R S Publication Chennai	2016	ISBN 13: 978938460 8774
	2	Wireless Networks	B.V Santhosh Krishna T.Gnanasekaran	A R Publication Chennai	2017	ISBN 13: 978938463 4216
	3	Opto Electronic Devices	T.Gnanasekaran B.V Santhosh Krishna Narender Malisherry	A R Publication Chennai	2018	ISBN 13: 978938463 4414
	4	Communication Engineering	T.Gnanasekaran B.V Santhosh Krishna J.JJIN GODWIN	A R S Publication Chennai	2019	ISBN 13: 978938460 8583
	5	Wireless Networks	T.Gnanasekaran B.V Santhosh Krishna	A R S Publication Chennai	2019	ISBN 978- 93-87255- 67-8
6	Wireless Communication	T.Gnanasekaran B.V Santhosh Krishna	A R S Publication Chennai	2020	ISBN 978- 93-84608- 18-7	

Patents	Published Count :09				Granted Count :02
	List:				
Sl. No	Name of the Applicants	Name of the Inventors	Title	Application no. & patent filed Date	Current Status
1.	R.M.K Engineering College	1. Dr.S.Vijayalakshmi 2. Dr.T.Gnanasekaran 3. Ms K Yogalakshmi. 4. Ms SakalaVishaliSakunthala 5. MsP. Srilatha	Design of Compressor Less Water Chiller and Heater	201741022392 27/06/2017	Granted Patent No. 371884 Date of Grant: 14.07.2021
2.	R.M.K Engineering College	1. Ms K.R. Chairma Lakshmi 2. Dr. T. Gnanasekaran 3. Mr H.Jayaprakash 4. Mr B.Giridhar 5. Mr N.K.Dhanasekar 6. Mr D.Dinesh Kumar	Border Alert and Life Protection System for Fishermen	201741022591 28/06/2017	Granted Patent No 389281 Date of Grant: 15.02.2022
3.	R.M.K Engineering College	1. Mr J. Bharath Singh 2. Dr.T.Gnanasekaran 3. Ms R. Rathi 4. Ms R. Sobana 5. Ms K. Swarna Priya	Buddy StickFor Challenged PeopleWith Bus Identification	201841049954 31/12/2018	Application Published
4.	R.M.K Engineering College	1. Ms M Apama 2. Ms R DivyaNachiar 3. Ms A Akalya 4. Ms K R Chairma Lakshmi 5. Dr T Gnanasekaran	Smart Waste Management Using Credit Fetcher	201941049420 02/12/2019	Application yet to be Published
5.	R.M.K Engineering College	1. Mr.K. Vijayanand 2. Dr.T.Gnanasekaran		202041045390 19/10/2020	Application yet to be Published
6.	R.M.K Engineering College	1. Dr. K.A. Mohamed Junaid 2. Mr. G. Marimuthu 3. Dr.T.Gnanasekaran	Smart ON/OFF Controller	202041044204 & 10/10/2020	Application yet to be Published
7.	R.M.K Engineering College	1. Dr.N.M. JothiSwaroopan 2. Dr.T.Gnanasekaran 3. Ms.B. Praveena 4. Ms J Sandhiya. 5. Ms D.G Shakthipriya 6. Ms K Sangavi	Automatic Access Control system using Deep Learning for COVID-19	202141029941 03.07.2021	Published
8.	R.M.K Engineering College	1. Mr.Gopalakrishnan. A 2. Mr.Tharun Kumar. A 3. Mr.Thilak. S.M. 4. Ms.Priyadharshini 5. Ms.Pravaeena 6. Dr.N.M. Jothi Swaroopan 7. Dr. T.Ganesekartan	AFFORDABLE UAV FERTILIZER DISTRIBUTOR	202241019808 31/03/2022	Published & Exam Fee paid 13/05/2022
9.	R.M.K Engineering College	1. Ms.S.Bhoommikha 2. Ms.K.Kaviya 3. Ms.Selvalakshmi 4. Ms.Prvaeena 5. Mr.J.Barath Singh 6. Dr.N.M. Jothi Swaroopan 7. Dr. T.Ganesekartan	ANTI-SNOOZE DEVICE	202241019807 31/03/2022	Published & Exam Fee paid 13/05/2022

	10	R.M.K Engineering College	1. Mr.K Vijay Anand 2. A. Anto Nobel 3. M. Arun Kumar 4. Dr. K. A. Mohamed Junaid 5. Dr.T. Ganeseakaran	AI Based Image Processing System for Tracking and Monitoring the Health and status of Animals	202141059519 20/12/2021	Published & Exam Fee paid 04/02/2022
	11	R.M.K Engineering College	1. Mr.K Vijay Anand 2. Mr. Prabhu U 3. Ms. N. Nirmitha 4. Mr. Lokamithran 5. Mr. Mohammed Hasim Junaid 7. Dr.T. Ganeseakaran	Mini Robot for Medication adherence and monitoring for elderly Covid prevention by detecting mask and maintaining the social distance	202141059517 20/12/2021	Published & Exam Fee paid 04/02/2022

Professional Memberships	Count :13			
	List:			
	SL No	Name of the Society	Affiliation	Details of Membership Number
	1	Institution of Engineers(India) IEI	MIE	M / 122327 / 5
	2	Indian Society for Technical Education (ISTE)	LM	LM 34877
	3	International Association of Engineers (IAENG)	LM	64198
	4	Association of computer Electronics and Electrical Engineers(ACEEE)	M	7000154
	5	Institute of Doctors Engineers and Scientists(IDES)	M	1011
	6	The Institute of Engineering and Technology(IET)	MIET	1100276680
	7	Institute of Electrical and Electronics Engineers(EEEE)	MIEEE	92814378
	8	Computer Science Teacher Association(CSTA)	M	6756024
	9	Institute of Research Engineers and Doctors (IREDD)	Fellow	-
	10	Association for Computing Machinery (ACM)	M	6756024
11	International Society for Research and Development (ISRDD)	Fellow	F3140900259	
12	Instrumentation Society of India (ISOI)	LM	2454	
13	Indian Society of System for Science and Engineering (ISSE)	LM	6595	

Consultancy Projects Completed	Count : 11
Awards Received	Count: 02
	List: <ol style="list-style-type: none"> 1. Awarded DISTINGUISHED ALUMNI AWARD for achievement in Academics and Research from Vellore Institute of Technology (VIT) during 26th January 2014. 2. Awarded Best Faculty Award by Cognizant for year 2017-18.
Research grants Received	Title: Establishment of Laboratory for Testing and Calibration of Industrial Instruments Duration of the Project: 2 Year Date of Commencement of the Project :03.12.2019 Date of Completion of the Project: 27.09.2021 Amount Sanctioned by AICTE: Rs 8,00,000 (Rupees Eight Lakhs Only) File No: F.No.9-165/RIFD/MOD/Policy-1 /2018-2019
Orchid Link / ID	ID : http://www.orcid.org/0000-0003-4005-6482
Google Scholar Link / ID	ID : http://scholar.google.co.in/citations?user=qCoBNuMAAAAJ
Vidwan Link / ID	ID : https://vidwan.inflibnet.ac.in/profile/305196
Research Gate Link / ID	ID : https://www.researchgate.net/profile/Gnanasekaran-Thangavel
Scopus Link / ID	ID: http://www.scopus.com/authid/detail.url?authorId=56366454300