

FACULTY PROFILE

- 1) Name : Dr. N. KUMARASABAPATHY
- 2) Designation : Assistant Professor (Sr. Gr.) /EEE
- 3) Department : Electronics & Communication Engineering
- 4) College : Anna University Regional Campus Tirunelveli, Tirunelveli – 627 007.
- 5) Date of Birth : 05-11-1982
- 6) Address for Communication : Plot No:14, SANA House, Near Aavin Milk unit, Roja Nagar,
NGO A colony Extension, Palayamkottai, Tirunelveli- 7.
- 7) Mail Id : nkspathy@gmail.com, nkspathy@auttv.ac.in
- 8) Orcid ID & G-Scholar ID : <https://orcid.org/0000-0002-1033-4560>
<https://scholar.google.co.in/citations?hl=en&user=hZtEZAIAAAA>
- IRINS : <https://auttv.irins.org/profile/419069>



9) Experience Details:

Sl.No.	Name of Organization	Designation	Period		Total no of years
			From	To	
1.	SCAD College of Engg. & Tech, Cheranmahadevi	Lecturer	26.04.2006	08.06.2009	3 Yrs. 1 Month
2.	Anna University of Technology- Coimbatore	Senior Engineering Research Fellow	10.06.2009	26.08.2009	2 Months
3.	University VOC College of Engineering – Thoothukudi	Lecturer	31.08.2009	31.08.2010	1 Yr.
4.	Anna university of Technology- Tirunelveli	Assistant Professor	01.09.2010	04.09.2011	1 Yr.
5.	University VOC College of Engineering – Thoothukudi	Assistant Professor	05.09.2011	04.07.2023	11 Yrs. 10 Months
6.	Anna University Regional Campus Tirunelveli- Tirunelveli	Assistant Professor (Sr. Gr.)	05.07.2023	Till date	7 Months

10) Additional Responsibilities:

Sl.No.	Designation	Period	
1.	HOD/EEE-UVOCC- Thoothukudi	31.08.2009	30.08.2010
		09.01.2012	18.02.2020
2.	Chief superintendent – AU Examinations	31.03.2016	08.02.2019
3.	Nodal officer- 9532- Nodal Centre II- Zone XX	31.03.2016	08.02.2019
4.	Co- Coordinator for TFC- TNEA-2018	04.05.2018	14.06.2018
5.	IIT Madras- NPTEL- Local Chapter Coordinator	2016	Till date

6.	Part time coordinator	03.01.2014	02.05.2014
7.	College Electrical maintenance In-Charge UVOCCCE (C-License holder)	09.01.2012	18.02.2020
		01.07.2022	04.07.2023
8.	College Bus In-charge	09.07.2013	24.05.2016
9.	Placement coordinator for EEE Department	09.07.2013	24.05.2016
10.	Anti-ragging committee member	09.01.2012	18.02.2020
11.	Grievances committee member	09.01.2012	18.02.2020
12.	Seating, Medal & Certificate distribution committee In-charge- 37 th graduation day held at UVOCCCE.	28.06.2017	-
13.	Stage In-charge for AUT- Tirunelveli- II graduation	18.02.2012	-
14.	Anna University Regional Campus Tirunelveli -Campus Electrical Maintenance In-charge	05.07.2024	Till date
15.	Anna University Regional Campus Tirunelveli -Campus Health Centre In-charge	05.07.2024	Till date
16.	Anna University Regional Campus Tirunelveli -Campus sanitation In-charge	05.07.2024	Till date

11) Memberships in Professional Bodies

- Life Member of The Indian Society for Technical Education (ISTE)

12) Member of Reviewer & Technical Board Member

- Member of the Reviewer Committee in the Advances in Fuzzy Systems- Hindawi Journals.
- Member of Technical committee in A National level Embedded systems Conference NES'14 – March 27,28-2014, Organized by Dept of EEE, Regional Centre, Anna University – Tirunelveli Region.

13) Guest Lectures Delivered

1. 15.09.2017, Electric vyuhaah 2017 , symposium , topic on smart grid.
2. AICTE sponsored COVID relief fund FDP on “Recent trends and research perspective on energy and power system” organized by Department of EEE on 31.05.2021 at PSN College of Engineering and Technology, Melathediyoora, Tirunelveli- 627 152.
3. AICTE sponsored FDP on “Recent trends in smart grid” organized by Department of EEE on 15.10.2022 at PSN College of Engineering and Technology, Melathediyoora, Tirunelveli- 627 152.
4. Online webinar on “Recent trends in smart grid” organized by Department of EEE on 30.07.2023 at SRM Madurai College of Engineering and Technology, Madurai.
5. Thank you very much for delivering an informative and thought-provoking inaugural address and a lecture on “Recent trends in Electrical Engineering” in the one-day National level Symposium organized by the Association of Electrical and Electronics Engineering, Department of Electrical and Electronics Engineering at Nellai College of Engineering, Tirunelveli – 627 151 on 17.04.2024.

14) Programs organized

1. Convenor & Coordinator for “One day workshop – Hands on training programme in Industrial Automation (PLC & SCADA)” 26.10.2013 – Department of EEE- UVOCCCE-TUT.
2. Convenor & Coordinator for “One day workshop – Hands on training programme on Cadence OrCAD simulation & PCB design software” 19.04.2014 – Department of EEE- UVOCCCE-TUT.
3. Convenor & Coordinator for “One day workshop – Hands on training programme on ETAP software in Power system Applications” 25.03.2015 – Department of EEE- UVOCCCE-TUT. expert from ETAP software

4. Convenor & Coordinator for “One day workshop – Hands on training programme on power analysis using ETAP software” 24.02.2017 – Department of EEE- UVOCCCE-TUT. Dr.P.Anitha & kumarasabapathy
5. Convenor & Coordinator for “One day workshop – Hands on training programme on MATLAB software for Electrical Engineers” 24.03.2017 – Department of EEE- UVOCCCE-TUT. UNIVERSITY VOC COLLEGE OF ENGINEERING THOOTHUKUDI, Dr. Kalyani, professor /EEE, Kamaraj engineering college , virudhunagar.
6. Convenor & Coordinator for “One day workshop – soft computing applications for electrical engineers, 15.03.2019 – Department of EEE- UVOCCCE-TUT. UNIVERSITY VOC COLLEGE OF ENGINEERING THOOTHUKUDI , Dr. Willjuice irudhayaraj , professor /EEE, NEC, kovilpatti.
7. Convenor & Coordinator for “One day workshop – hands on training programme on PLC / SCADA, 16.03.2019 – Department of EEE- UVOCCCE-TUT. UNIVERSITY VOC COLLEGE OF ENGINEERING THOOTHUKUDI, Dr. Suresh, professor /EIE, NEC, kovilpatti.

15) Research Guidance:

Sl No.	Course	Completed	Guiding
1	Ph.D	NIL	05
2	MS	NIL	NIL

16) Publications:

Sl. No.	Name	National	International
1	Journals	NIL	11
2	Books	NIL	NIL
3	Conferences	4	5

Journals

1. Geoffrine Judith.M.C and N.Kumarasabapathy march 2011, ‘STUDY AND ANALYSIS OF IMPULSE NOISE REDUCTION FILTERS ’, Signal & Image Processing: An International Journal (SIPIJ) Vol.2, No.1., ISSN : 2229 – 3922, pages 82 to 92
2. N. Kumarasabapathy and P. S. Manoharan 01 Oct 2015 2015, ‘MATLAB Simulation of UPQC for Power Quality Mitigation Using an Ant Colony Based Fuzzy Control Technique’, The Scientific World Journal, Volume 2015 (2015), Article ID 304165, 9 pages. 2356-6140 (print); 1537-744X (web), 2356-6140, ip 0.398, hindawi publishing corporation, CiteScore**2.800**
3. N. Kumarasabapathy and P. S. Manoharan July 2015, ‘Performance Evaluation of a Three-Phase Four-Wire UPQC in a Modified Circuit of Neutral-Clamped VSI Topology’, Australian Journal of Basic and Applied Sciences, Volume 9 - 23, Pages 424-430. ISSN:1991-8178, Google-based Impact Factor: 2.5
4. A Sharmila and N.Kumarasabapathy December 2015, ‘Voltage Balancing Control of Energy Storage System Based On a Hybrid Cascaded Multilevel Converter’, The International Journal of Applied Engineering Research, vol. 10, no.55, pp. 3575-3578. ISSN 0973-4562, © Research India Publications;
5. Meega T Kumarasabapathy N December 2015, ‘Solar Irradiance Measurement Using Neuro Fuzzy Network’, International Journal of Engineering and Computer Science ISSN: 2319-7242, vol.4, issue page. 6, pp. 12352-12356. International Journal Of Engineering And Computer Science, ISSN : 2319-7242 DOI : DOI : 10.18535/ijecs
6. N.Kumarasabapathy and P.S.Manoharan K.Sureshkumar august 2015, ‘Cooperative Control of Dstatcoms To Reduce Voltage Fluctuations’, International Journal of Applied Engineering Research, vol. 10, no. 5 (2015), pp. 4393-4397. ISSN 0973-4562, © Research India Publications;
7. N Kumarasabapathy, PS Manoharan, M Ramasamy , 11 September 2020 2020 ‘Experimental validation of solar panel integrated modified three-port active clamp flyback converter fed micro-inverter’ Semiconductor Science and Technology, Semiconductor Science and Technology, Institute

of Physics -IOP Publishing, Volume 35, Issue 10, Pages 105020. IP 2.048, ISSN: 1361-6641, pages 1 to 15

8. Kumarasabapathy N & Ramasamy M 10 Jul 2020 2020 ‘Modified isolated power factor correction Cukconverter fed BLDC motor drive with Fuzzy Logic Controller for pumping applications’ Journal of the Chinese Institute of Engineers, Taylor & Francis, Volume 43, Issue 06, Pages 553-565, ISSN of this journal is 0253-3839, 2533839 Impact Factor (IF) **1.107** Total Cites 2021 (2022 update) 4.231
9. S. Muthulakshmi Dr.N. Kumarasabapathy C.Rajesh Kumar, AN OVERVIEW OF IOT ENABLED SMART HOME AUTOMATION SYSTEMS, Journal – ICON (Integrating Concepts), ISSN 2456-6071 Vol. 6, Issue 1, January 2021, Impact Factor: 0.886, pages 1 to 9
10. Priya Magdalin and Dr.N.Kumarasabapathy, DETECTION OF PV ARRAY USING IMAGE PROCESSING, International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 28 Issue 9 – OCTOBER 2021, pages 8 to 10, IJETCSE Impact Factor 4.780
11. S.Girija 1, J.Angeline Jemina2, N.Kumarasabapathy, IOT Based Under Water Communication Using Laser Networking, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Seventh Sense Research Group | e-ISSN: 2278 – 8875, p-ISSN: 2320 – 3765| www.ijareeie.com | Impact Factor: 7.122|,||Volume 10, Issue 2, February 2021, DOI:10.15662/IJAREEIE.2021.1002019, ISSN 2278-8875, pages 502- 506

Conferences

1. N.Kumarasabapathy 2006, ‘Modeling and Analysis of Custom Power Devices using PSCAD/EMTDC” National Conference on Technological Development in Power Sector” at Adhiyamaan College of Engg, Hosur.
2. N.Kumarasabapathy 2008, ‘Simulation of D-STATCOM for Power Quality Improvement” National Conference at CSI College of Engineering, Ketti.
3. N.Kumarasabapathy 2009, ‘Power Quality Improvement using DVR” in the National Conference at Anna University, Coimbatore.
4. Presented paper in international conference on advancements in computing, power and control- ICACPS’15 on 24-02-2015 to 26-02-2015, organized by department of EEE at Christian college of engineering and technology, ootanchathiram. Enhancing power quality in distribution system using fuzzy logic based UPQC, C KEZI SELVA VIJILA convenor and principal, JACOB THOMAS chairman
5. S. Muthulakshmi1, Dr.N.Kumarasabapathy2, I. Priya Magdalin, HOUSEHOLD ENERGY CONSUMPTION SMART SAVING USING IOT, AICTE Sponsored (Online) ,National Conference on Communication and Signal Processing Systems NCCSS 2021 8th - 9th October 2021 Under Grant for Organizing Conference (GOC) Scheme Pages 176 to 181 , **ISBN: 978-93-91662-05-9**
6. G Kannayeram R Shalini, P S Manoharan, N KumaraSabapathy, 2023 “Strategy for Charging of Battery and Supercapacitor Combined Storage System” 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2023).
7. N KumaraSabapathy, 2023 “Recondition of battery system for E vehicle” International Conference on Advanced Innovations in Engineering and Technology , at Rohini College of Engineering & Technology, Kanyakumari.
8. N KumaraSabapathy, 2023 “Intelligent control of hybrid converter for electrical vehicles charging station” eighth international conference on innovations and advancements in electrical sciences- NCAIES 2023(Virtual), Dept of EEE , KPR Institute of engineering and technology, Coimbatore on 30.06.2023
9. D. Sneha Charis; P. M. Devie; P. S. Manoharan; N. Usha; J. Vishnupriyan; N. Kumarasabapathy “Investigation of Data Inaccuracies in the Database of the Solar Photovoltaic Monitoring System” 2023 International Conference on Energy, Materials and Communication Engineering (ICEMCE) Year: 2023 | Conference Paper | Publisher: IEEE

FDP/ Workshops / Short term programs attended: -

1. Attended three days training program on cadence Orcad simulation simulation and PCB design -software from 12-08-2014 to 14-08-2014 held at University College of Engineering- Nagercoil, organized by FTD Automation Pvt. Ltd., Bangalore.
2. **Attended** one day national level workshop on recent trends in mathematical coding theory and cryptography on 17.10.2014 organized by Department of mathematics, University VOC College of Engineering, Thoothukudi Ganesha moorthy mohnraj . HOD/ Mathematics
3. Attended training program on ETAP Software and its Applications on 06-06-2015 held at University College of Engineering- Ramanathapuram, organized by ETAP Automation Pvt. Ltd. S rajasekaran
4. Presented paper in international conference on advancements in computing, power and control- ICACPS'15 on 24-02-2015 to 26-02-2015, organized by department of EEE at Christian college of engineering and technology, ootanchathiram. Enhancing power quality in distribution system using fuzzy logic based UPQC, C KEZI SELVA VIJILA convenor and principal, JACOB THOMAS chairman
5. Attended foundation skills in integrated product development (FSIPD) "Train-the trainer" program from 26-03-2016 to 30-03-2016 at Anna University Regional Campus- Tirunelveli organised by Anna University Regional Campus- Tirunelveli in coloration with IT-ITeS Sector Skills Council NASSCOM. Dr. G. Sakthinathan, DEAN, Anna University Regional Campus- Tirunelveli
6. AICTE sponsored one week QIP short term course on "Sustainable Engineering: From concepts to design solutions" conducted at IIT Bombay from 03-8-2016 to 07-08-2016. Ravindra D., Gudi IIT Bombay , Yogenthra Shasthri IIT Bombay
7. Attended one day national level workshop on recent advancement in material science (RAMS-2017) on 27.02.2017 organized by Department of Physics, University VOC College of Engineering, Thoothukudi, Dr vm gandhimathi and dr j judes coordinators dr k saminathan hod/ physics dr b jeyanthi dean
8. AICTE approve Faculty Development Programme (FDP101x) on Foundation programme in ICT for Education conducted by IIT Bombay from 03-08-2017 to 07-09-2017 , online activity from 03-08-2017 to 07-09-2017 and physical participation at remote centre On 19 & 20th August 2017, under aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MNRD, Gol , Deepak B. Phatak , project and course coordinator, iit bombay, NATIONAL COLLEGE OF ENGINEERING MARUTHAKULAM TIRUNELVELI
9. AICTE approve Faculty Development Programme (FDP201x) on Pedagogy for online and Blended Teachong- Learning Process conducted by IIT Bombay from 14-09-2017 to 12-10-2017, online activity from 14-09-2017 to 12-10-2017 and physical participation at remote centre On 16 & 17th September 2017 and 7, 8th October 2017, under aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MNRD, Gol , Deepak B. Phatak , project and course coordinator, iit bombay NATIONAL COLLEGE OF ENGINEERING MARUTHAKULAM TIRUNELVELI
10. Two week Faculty Development Programme on Entrepreneurship from 11-12-2017 to 23-12-2017 sponsored by DST - National Science & Technology Entrepreneurship Development Board (NSTEDB) in association with Entrepreneurship Development Institute of India (EDII)- Ahmedabad under DST-NIMAT 2017-2018 at Annamali University. S. THIRUGNANASAMBATHAM coordinator, RM. SENTHAMARAI HOD/ Civil , C. ANONY JEYASEHAR ,DEAN

11. **Off-campus certificate** outreach programme on geoinformatics for forest fire management, from 02-04-2018 to 07-04-2018, organized by Indian institute of remote sensing, ISRO, Department of space, Government of India. head IIRS , COURSE DIRECTOR IIRS , Group head iirs
12. AICTE sponsored Two-week FDP on “CUTTING EDGE TECHNOLOGIES IN PROGRAMMABLE CONTROLLERS AND INDUSTRIAL AUTOMATION” to be held in Government College of Technology, GCT, Coimbatore, December 04 to 17, 2019, V Prasanna moorthy coordinator HOD EIE, P Thamarai principal
13. Three week industrial training on communication and network technologies , Rajiv Gandhi Memorial Telecom Training Centre, bsnl sanchar nigam limited, Chennai, 18-05-2020 to 05-06-2020, principal RGM TTC BSNL. BSNL HEAD OFFICE TIRUNELVELI
14. Two-week FDP on managing online classes and cocreating MOOCs 3.0 , 25.07.2020 TO 10.08.2020, organized by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching(PMMMMNMTT), ministry of human resource development ,Teacher Learning Centre, Ramanujan College, University of Delhi. Sp Agarwal , director, TLC, principal, Ramanujan College, sahil Pathak, convenor , Ramanujan College.
15. Two-week refresher course / FDP on advanced research methodology tools and techniques, 30.01.2021 TO 14.02.2021, organized by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNMTT), ministry of human resource development, Teacher Learning Centre, Ramanujan College, University of Delhi. Sp Agarwal , director, TLC, principal, Ramanujan College, Vipin rathi , programme director , Ramanujan College.
16. Two-week Industrial Training Program on Plastic Testing and Quality Control for Science and Engineering. conducted by Central Institute of Petrochemical Engineering and Technology (CIPET), Centre for Skilling and Technical Support (CSTS), Department of Chemicals and Petrochemicals, Ministry of Chemicals and Fertilizers, Government of India, Thiruvathavur, Madurai- 625110 from 06.09.2021 to 22.09.2021. course coordinator, training in-charge , Centre head
17. Two week AICTE Sponsored two weeks Faculty Development Programme on “Future Automation of Power System Protection in Indian Power Sector” conducted by Department of EEE, Anna University, UCE – BIT Campus-Tiruchirappalli from 11-12-2021 to 24-12-2021. M balasingh moses coordinator , P anbalagan , head EEE, T Senthil kumar , dean.
18. 2-week Industrial Training for government officials on CYBER SECURITY ESSENTIALS for Govt. Officials in Online mode, Centre for Development of Advanced computing (C-DAC), Hyderabad. A scientific Society of the Ministry of Electronics and Information Technology, Government of India is conducting from 20.06.2022 to 01.07.2022.
19. AICTE - Online Eight Modules (Stage-1) on the SWAYAM platform through the NITTT portal in MOOCs mode – Semester April-August 2022. Certificate issued date February 2022.
20. Two Day Faculty Development Programme on 27.10.2022 to 28.10.2022 by the Department of Science and Humanities, Coimbatore. “Design Thinking To Turn Challenges Into Opportunities, Hindusthan Institute of Technology, Coimbatore.
21. AICTE One week FDP Online course on “University Human Values” from 20.02.2023 to 24.02.2023. rajeensh arora , chairmam , national coordination committee for induction programme . rajive kumar, member secretary , AICTE.
22. Attended online “Hands on workshop utilizing Virtual Lab Facility – Virtual Lab- A leaner Perspective” on 12.03.2024 at Anna University Regional Campus Tirunelveli- Tirunelveli.

SYMPOSIUM organized

S.No	National / International Symposium	Title of the Symposium	Name of the Resource Person(s) with Designation & Company .	Convenor/ Coordinators	Date of the Symposium
1	National Symposium	ELECTRIC VYUHA AH 2014	Mrs. L. Sheela, AP/HOD - EEE, Regional Office, Tirunelveli.	Dr.N.Kumarasabapathy	14th March 2014
2	National Symposium	ELECTRIC VYUHA AH 2015	Mr. T. Samuel Sundarraj, AEE, Instrumentation-I Tuticorin Thermal Power Station, Thoothukudi.	Dr.N.Kumarasabapathy	13th March 2015
3	National Symposium	ELECTRIC VYUHA AH 2016	Mr. John Dalton, Tuticorin Thermal Power Station, Thoothukudi.	Dr.N.Kumarasabapathy	29th March 2016
4	National Symposium	ELECTRIC VYUHA AH 2022	Mr. M.NAGARAJAN, EE & ANTONY AROKIYA FRANCIS, EE , Tuticorin Thermal Power Station, Thoothukudi.	Dr.N.Kumarasabapathy Coordinator	31.05.2022

SEMINARS / GUEST LECTURES ORGANIZED

S.No	Seminars/Guest lectures	Title of the seminar/Guest lecture	Name of the Resource Person(s) with Designation & Company .	Convenor/ Coordinators	Date
1	Guest Lecture	Recent Trends in Generation, Transmission and Distribution	Mr. S.Patturaja, Superintendent Engineer, Tuticorin Thermal Power Station, Thoothukudi.	Dr.N.Kumarasabapathy, Dr.P.Anitha	2nd November 2012
2	Guest Lecture	Electrical Safety	Mr.J.Ponsaravanan, Deputy Manager, DCW Sahupuram.	Dr.N.Kumarasabapathy, Dr.P.Anitha	15th March 2013
3	Guest Lecture	Embedded System	Experts from CORE Institution, Thoothukudi.	Dr.N.Kumarasabapathy	14th November 2013
4	Guest Lecture	Discover the attractive and challenging career in shipping	R.L.Institute of Nautical Science, Madurai.	Dr.N.Kumarasabapathy	21st January 2014
5	Seminar	Projects in Embedded System	Experts from CORE Institution, Thoothukudi.	Dr.N.Kumarasabapathy, Dr.P.Anitha	22nd August 2014

17) Research Projects:

Name of the Project	: NIL
Funding Agency	:-
Amount Sanctioned	:-
Duration of the Project	:-

18) Consultancy Projects: **11 Nos.**

Name of the Project	: Quality audit of battery Operated Vehicles for solid waste management in Tirunelveli Corporation and for various Municipalities
Funding Agency	:- Corporation & Municipalities Concerned.

19) Patents:

Type	National	International
Details: 1. Solar Water distillation System – National -2023		

20) Award & Recognition:

Name of the Award / Recognition:	NIL
Awarding Agency	:-
Amount sanctioned details	:-

23. Contribution to society:-

- i. Electrical arrangement for the two week student induction programme held at Anna University Regional Campus Tirunelveli- Tirunelveli from 11.09.2023 to 24.09.2023
- ii. Acted as jury for symposium SACOESIUM 2024 for EEE session on 24.02.2024 at Dr. Sivanthi Aditanar College of Engineering – Tiruchendur.

Date: 18.06.2024

Signature of the Candidate