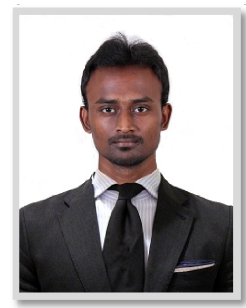


FACULTY PROFILE

Name of the Staff : **M.SIVAPALANIRAJAN**
 Official Address with E-mail Id : Assistant Professor,
 EEE Department,
 National Engineering College
 sivapalanirajan@nec.edu.in
 Mobile Number : 7667743759, 9578175275



1. Personal Details

Age : 35
 Date of Birth : 01/01/1988
 Sex & Marital Status : Male / Married
 Citizenship : Indian
 Qualification : M.E

Degree	Programme and Specialization	Class /CGPA	Month & Year of Passing	Institute/University
Ph.D	Electrical Engineering	-	Pursuing from Jan 2019	Anna University (PT)
M.E	Control and Instrumentation Engineering	I Class/8.27	May 2014	College of Engineering Guindy/Anna University
B.E	Electronics and Instrumentation Engineering	I Class with distinction/79%	April 2009	Kamaraj College of Engineering and Technology/Anna University

Date of joining : 02/06/2014
 Present status : Assistant Professor
 Professional Experience : 11 Years

Designation	Institution/ Organization	Period	Nature of Duties
Assistant Professor	National Engineering College, Kovilpatti.	02/06/2014 to present	Teaching&Research
Design and Development Engineer	Magnum Opus Products, Chennai.	09/09/2009 to 01/12/2011	Product Development.

Courses taught:

Course Title	U.G. or P.G.
Robotics and Automation, Logic and distributed control system, Control Systems, Measurements and instrumentation, Linear Integrated Circuits, MEMS and NEMS, Biomedical instrumentation, Basic Electrical and	UG

2. Academic Achievements

2.1 Short term Courses / Seminars / Conference/ Workshops organized:

S.No	Title	Period	No.of Participants	Venue
1.	Hands on training in the design of mobile robot using LEGO mindstorm EV3 brick	21.01.2023 to 11.03.2023 (All Saturdays)	10	C&I laboratory, EEE,NEC, Kovilpatti
2.	Responsibilities of Engineers to have safe and ecofriendly industrial process erection and commissioning with HSE	25.01.2022	54	Online webinar
3.	Role of Electrical, instrumentation and control engineer in tunnels and shipyards	29-08-2020	68	Online webinar
4.	Real time interfacing of benchmark models with control perspective in LABVIEW and MATLAB	7 th Feb to 10 th Mar 2020	12	C&I laboratory, EEE,NEC, Kovilpatti
5.	Performance analysis of linear control system in LabVIEW using ELVIS II+	15 th Dec 2018 to 8 th Mar 2019 (Odd Saturdays)	15	C&I laboratory, EEE,NEC, Kovilpatti
6.	EEE association organized course on “Applications of control system using LabVIEW”	20 th -21 st Feb 2019	11	C&I laboratory, EEE,NEC, Kovilpatti
7.	Time Response Analysis Of Linear Time Invariant System In LabVIEW Using ELVIS II+	29 th July 2017 to 20 th Jan 2018 (Odd Saturdays)	12	C&I laboratory, EEE,NEC, Kovilpatti
8.	IEEE Sponsored “Implementation of soft computing techniques using MATLAB”	4 th - 6 th Aug 2016	40	NEC (EEE dept), Kovilpatti
9.	Implementation of control engineering using LabVIEW	6 th Aug to 14 th Sep 2016 (Odd Saturdays)	17	C&I laboratory, EEE,NEC, Kovilpatti
10.	Hands on training in PLC programming & SCADA	3 rd -5 th Sep, 2015	40	NEC (EEE dept), Kovilpatti
11	Application of digital circuits and interfacing measuring instruments using LABVIEW	5 th Sep - 16 th Nov 2015 (Odd Saturdays)	34	C&I laboratory, EEE,NEC, Kovilpatti
12	Short term LABVIEW training programme on basic circuit applications	20 th Sep to 10 th Nov 2014 (Odd Saturdays)	16	C&I laboratory, EEE,NEC, Kovilpatti

2.2 Short term Courses / Workshops Attended:

S.No	Title	Period	Venue
1.	Trainer's Training Program on Entrepreneurial activities	26 th – 30 th Sep 2023	EDII Ahmedabad (Online)
2.	ATAL FDP -Multidisciplinary design optimization in Engineering: Advanced	21 st – 25 th Feb 2022	IIT Kharagpur & IIT Bombay (online)
3.	FDP - Fundamentals of AI and ML	10 th - 14 th May 2021	ICT academy (online)
4.	Image processing using MATLAB	12 th -16 th Apr 2021	Pantech solutions (online)
5.	PALS-VLABS 2020-21 INITIATIVE	10 th -14 th Aug2020	NITK Surathkal (online)
6.	Robotics & Control (RoboCon)-2020	15 th - 19 th July, 2020	NIT Silchar (online)
7.	LaTeX – IIT Bombay spoken tutorial	17 th to 30 th April 2020	Online FDP
8.	Fuzzy logic and Neural network approaches for Engineering Solutions	29 th and 30 th April 2020	Journal of advanced engineering research & hexacubeindia (Online)
9.	Robotics and Control (QIP course)	1 st to 5 th July 2019	IIT Roorkee
10.	AI and deep learning	2 days 28 th to 30 th Dec 2018	Leading India - AIR research initiative by Bennett
11.	Applied optimal control and state estimation	One week 2 nd - 6 th July 2018	Indian institute of science (IISc), Bengaluru.
12.	Recent Trends in SCADA, Smart Grid and Industrial Automation	Two week 2 nd – 15 th June 2017	Coimbatore Institute of Technology (CIT), Coimbatore.
13.	Technology enabled teaching learning process	2 days 27 th – 29 th May 2017	National institute of technical teachers training & Research (NITTTR)
14.	Instructional design and delivery systems	One week 22 nd – 27 th May 2017	National institute of technical teachers training & Research (NITTTR)
15.	Hardware in the loop simulation for power electronics and control applications using LabVIEW	2 days 16 th - 17 th Dec 2016	Mepcoschlenk Engineering college, Sivakasi.
16.	PIC microcontroller and its applications	2 Days 4 th – 5 th Dec 2015	PSNA college of engineering and technology, Dindigul.
17.	Advanced Control System (IC6601)	One week May 2015	Madras Institute of Technology (MIT), Chennai.

18.	MEMS and Sensors by centre for NEMS & Nano Photonics.	1 Day December 2014	Indian Institute of Technology (IITM), Chennai.
19.	Emerging Technologies with hands on and live demo	One week November 2014	National Engineering College, Kovilpatti
20.	Empowering Indian Engineering education for global expectation	2 Days November 2014	National Engineering College, Kovilpatti
21.	Diplomacourse “Certificate in PLC programming”	6 Months (April-Sep 2009)	J-Tech institute, Madurai.
22.	Workshop on “Industrial Automation”.	1 Day February 2008	Kamaraj College of Engineering and Technology, Virudhunagar.
23.	National level technical symposium on the topic “Bio Chips”	1 Day September 2007	K.L.N. college of information technology, Madurai.
24.	Workshop on "Programming with PLC".	1 Day July 2007	Kamaraj College of Engineering and Technology, Virudhunagar

2.3 Online Certification Completed:

S.No	Certification	Period	Organizers	Remarks
1.	Completed NPTEL course on “Control Systems”	Jul – Oct 2022	NPTEL – IIT Madras	Secured 82% Elite with Silver medal
2.	Coursera certification in Data Processing and Feature Engineering using MATLAB	May - June 2022 5 Weeks	MATHWORKS	Completed the course with 85.39%
3.	Completed NPTEL course on “Foundations of Cognitive Robotics”	Jul – Aug 2021 4 weeks	NPTEL – IIT Kanpur	Secured Silver medal and 5% Topper
4.	Coursera certification “Exploratory data analysis using MATLAB”	Jun-Jul 2021 5 Weeks	MATHWORKS	Completed the course with 92.75%
5.	Completed NPTEL Online Certification on “Automatic control” in Dec 2020	Jan-Mar 2020 8 weeks	NPTEL – IIT Roorkee	Secured Silver medal with 87% in 2021
6.	Coursera certification “Neural Networks and deep learning”	May-June 2020	Deeplearning.ai	Completed the course with 92.8%
7.	Coursera certification “Computer vision basics”	Apr– June 2020	University of Buffalo	Completed the course with 100%
8.	Journal citation reports (JCR) certification	12 th and 15 th May 2020	Web of Science group-Clarivate	Completed on 3 rd June 2020
9.	Steps into Robotics Process Automation	Self paced course	GUVI	Completed on 2 nd June 2020
10.	MATLAB onramp	Self paced	MATLAB	Completed on 4 th April

		course		2020
11.	Simulink onramp	Self paced course	MATLAB	Completed on 23 rd Dec 2019
12.	COURSERA online certification on “Control of Mobile Robots”	Feb - Mar 2019 (7 weeks)	Georgia institute of technology, Georgia	Completed the course with 94.2%
13.	COURSERA online certification on “Modern Robotics – Foundations of robot motion”	Oct - Nov 2018 (4 weeks)	Northwestern University.	Completed the course with 95.4%
14.	NPTEL Online Certification on “Modeling and simulation of dynamic system”	Jan – March 2017 (8 Weeks)	Indian Institute of Technology (IIT), Madras	Scored 80% with Elite Certificate.
15.	NPTEL Online Certification on “Introduction to Research”	January-February 2016 (10 Hours)	Indian Institute of Technology (IIT), Madras	5% Topper with 82% Elite

2.4 Industrial training Undergone:

S.No	Title	Period	Venue
1.	L&T Edutech - Advanced Industry Powered Faculty Immersion Program	1 Week 29 th May – 3 rd June 2023	L&T Head quarters, Chennai.
2.	PLC panel manufacturing – Industrial Knowhow	1 Week 17 th to 22 th Feb 2023	Kasa Anlagen Pvt. Ltd, Chennai.
3.	Matlab Master Class – 30 days challenge	1 Month 1 st – 30 th Sep 2020	Pantech solutions Pvt. Ltd, Chennai.
4.	SPIC – Industrial Knowhow	1 Week 20 th to 24 th Jan 2020	Greenstar Fertilizer Limited, Tuticorin
5.	Ramco Cements Limited - Industrial Knowhow	1 week 5 th – 9 th March 2018	Ramco Cements Limited, R.R.Nagar.
6.	National Institute of Wind Energy (NIWE) – Industrial Knowhow	1 week 22 nd – 27 th May 2017	Wind Turbine Research Station, Kaythar
7.	Advanced learning platform & solutions (Industrial knowhow)	1 week May 2016	iWave systems technologies Pvt.Ltd. Bangalore.
8.	Training in cement manufacturing industry	1 week June 2007	Madras Cements Ltd., Sattur.
9.	Training in power generating station	1 Week December 2007	Tuticorin thermal power station

3. Research Achievements

3.1 International Journal Publications

S.No	Title of the Paper	Journal title	Volume & Year	Index & Impact factor
1.	Trajectory Tracking Of Wheeled Mobile Robot: Model-Based Test And Validation Using QBOT	International Journal of Scientific Technology and Research	Vol. 9 issue 5, Apr 2020	Scopus
2.	Evaluation of various benchmark processes with appropriate controller design in LabVIEW platform	Journal of Instrumentation	Vol. 14 issue 5 May 2019	SCI 1.263

3.2 International Conference Publications

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year	Publication
1.	Performance Analysis of LEGO Mindstorm EV3 robot with PID controller for trajectory tracking application	International Conference on Intelligent Computing and Control Systems [ICICCS 2023]	Vaigai College of Engineering , Madurai	May 2023	Presented in IEEE conference and yet to be published.
2.	Accelerometer Based Hand Gesture Recognition and Control of Motor Powered Trolley	International Conference on Emerging Trends in Engineering and Technology - Signal and Information Processing (ICETET-SIP-22)	Raisoni college of engineering, Nagpur.	Jun 2022	Published in IEEE Xplore Digital Library. ICETET-SIP-22 pp. 1-5 doi: 10.1109/ICETET-SIP-2254415.2022.9791565
3.	Dynamic target tracking of wheeled mobile robots and analysis of controller with various orientation	International Conference on Artificial Intelligence and Smart Systems (ICAIS 2022)	JCT institute of technology, Coimbatore	Feb 2022	Published in IEEE Xplore Digital Library. ICAIS 2022 pp. 1525-1530. DOI: 10.1109/ICAIS53314.2022.9743103
4.	Design of Smart Cane with integrated camera module for visually impaired people	International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)	JCT institute of technology, Coimbatore	Mar 2021	Published in IEEE Xplore Digital Library. ICAIS 2021 pp. 999-1004.
5.	Microcontroller Based Low Cost Robotic Arm For Rehabilitation Of Patients with Set	2 nd Springer International conference on computer	R.V.S technical campus, Coimbatore	May 2019	Springer book series LNDECT Vol 44, pp: 651-659. Jan 2020

	Back In ArmMovement	networks and inventive communication technologies			
6.	Performance Comparison of MPC and PID Controller for Single Input Single Output Process	IEEE International conference on Recent Advances in Energy- efficient Computing and Communication	St. Xavier's Catholic College of Engineering , Nagercoil	March 2019	Published in IEEE Xplore Digital Library. Conference Proceeding of ICRAECC 2019 pp.1-6, 2019.
7.	Mathematical Modeling and Control of QNET Rotary Inverted Pendulum in MATLAB and Real Time Implementation in Lab View Using ELVIS	2 nd IEEE International Conference on Inventive Communication and Computational Technologies	Ranganathan Engineering College, Coimbatore	April 2018	Published in IEEE Xplore Digital Library. Conference Proceeding of ICICCT 2018 pp.1452-1457, 2018.
8.	Time response analysis of SISO system with a choice of controller configuration in LABVIEW platform	2 nd IEEE International Conference on Inventive Systems and Control	JCT institute of technology, Coimbatore	January 2018	Published in IEEE Xplore Digital Library. Conference Proceeding of ICISC 2018 pp. 374-377, 2018.
9.	Power system design and parameter monitoring of 2U CUBESAT	IEEE sponsored International conference on Science, Engineering & Management Research (ICSEMR – 2014)	VeltechMultitech, Chennai.	November 2014	Published in IEEE Xplore Digital Library. Conference Proceeding of ICSEMR 2014 pp. 1-7, 2014.

3.3 National Conference Publications

S.No	Title of the Paper	Organizer	Year
1	Design and monitoring of 2U CUBESAT power system	Turbo machinery institute of technology and science, Hyderabad.	2014

3. Additional Responsibilities held

- New Gen IEDC – Coordinator
- ED Cell – Co Coordinator
- Institution Innovation Council - IIC (department coordinator)
- Internship/Inplant training coordinator (Incharge-EEE)
- Control and Instrumentation Lab (Incharge)
- Industrial Automation Lab (Incharge)
- Student advisory board (EEE)
- II year EEE – Class Incharge