

CURRICULUM VITAE

Dr.S.DEVIKALA B.E., M.E., Ph.D.

Professor / EEE

Head Student Affairs

MSAJCE

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Academic Record

- **Doctor of Philosophy in Electrical Engineering-2017**, Sathyabama University, Tamil Nadu, India, 2017. **Distinction in course work.**
- **Master of Engineering in Power Electronics and Industrial Drives -2005** Sathyabama University, Tamil Nadu, India, **First class and Distinction**
- **Bachelor of Engineering in Electrical and Electronics Engineering -1999** Bharath Institute of Science and Technology, Madras University, Tamil Nadu, India, **First Class.**

Research Interests

Power Electronics, Control system, Communication systems, Biomedical Engineering and Intelligent Systems

Research Topic

Soft switched Push-Pull DC-DC converter with Enhanced transient response and reduced ripple at the output voltage

Professional Experience

Total of 23 Years experience at various levels of Academic and Administrative Positions

- Working as a Professor / EEE and Head Student Affairs , Mohamed Sathak A.J. College of Engineering, Since 13th March 2023.
- Worked as Professor and Dean Academics, Sethu institute of technology, Affiliated to Anna University, from May 2022 till August 2023.

- Worked as Professor and Principal, Varaprasad Reddy Institute of Technology (Formerly Nalanda Institute of Engineering and Technology, Guntur, Andra Pradesh, Affiliated to JNTUK Since October 2019 - January 2022.
- Worked Bharath College of Engineering and Technology for Women, Kadapa, Andra Pradesh, Affiliated to JNTUA as Professor and Principal , EEE Department, June 2019 -October 2019.
- Worked at Kumaran Institute of Technology, Affiliated to Anna University as Professor and Principal, EEE Department, Janvary2019- June2019.
- Worked at, Jeppiaar Maamallan Engineering College Affiliated to Anna University as Associate Professor and Head Department of Electrical and Electronics Engineering, May 2012-December 2018.
- Worked at, Jeppiaar Maamallan Engineering College Affiliated to Anna University as Assistant Professor Department of Electronics and Communication Engineering, August2006-May2012.
- Worked at Sakthimariamman Engineering College, Affiliated to Anna University as Senior Lecturer in the Department of Electrical and Electronics Engineering, June2003-August2006.
- Worked at C.Abdhul Hakeem Engineering College, Affiliated to Madras University as Lecturer in the Department of Electrical and Electronics Engineering in the period Dec1999– May2003.

Certification courses

1.Python

GUVI Id :6I60H7759b0u07iX41

<https://www.guvi.in/verify-certificate?id=6I60H7759b0u07iX41>

Honors and Awards

- Received “**Best student coordinator and Mentor award**”, Mohamed Sathak A.J. College of Engineering on college Teachers day and Engineers day celebration 2023 on 16th September 2023.
- Received “**Best Educationalist Award**” and “**Certificate of Excellence**” International Institute of Education and Management, New Delhi 04nd December 2019
- **IEC2019**-Conference chairs, Reviewer, July2019.
- **Reviewer** of Journal of Cluster Computing, Springer Journal, Powered by Editorial Manager® and ProduXion Manager® from Aries Systems Corporation since 2018.
- **Editor-in-Chief, GBS journal** since 2018.

- Received **International Innovation and betterment excellence in technical research** RULA award 2018, Malaysia and titled Nobel Researcher in Power Electronics. 12th November 2018.
- Received **best paper Award** in International Conference ENVISTA 2015, Organized by Sathyabama University in Collaboration with ISRO 2015.
- Received a **great appreciation** from the Management for the Installation of eight semester Laboratories, 2016.
- **Promoted as Department Head for Electrical and Electronics Engineering** in 2012, Maamallan Institute of Technology.
- **Best teacher Award** / EEE Department in 2012 from Maamallan Institute of College.
- Excelled 100% Pass% in Electrical Engineering subject (2008).
- **Honor of excellence** for Excelling 99% Pass in Circuit theory subject (2007) also University rank received.
- **Best teacher Award** / ECE Department in 2007 from Maamallan Institute of College.
- **Best teacher Award** / EEE Department in 2004 from Sakthimariamman Engineering College.
- **Excellent teacher Award** in the year 2000 from C. Abdhul Hakeem Engineering College
- **Honor** for 100% Pass % in Electrical Engineering Subject for Mechanical Engineering students. C. Abdhul Hakeem Engineering College in 2000.

Professional Experience

- Setting up an Engineering college and maintaining college in all aspects includes hostels, transport, recruitment, admissions, counseling, affiliations, accreditations, Placements, Research and Development.
- Teaching students as a devoted educator covering professional development, communication with students, their assessment and conducting staff meetings
- Enhance classroom learning environment and acting as a 'Facilitator' to promote student leadership in initiating and creating positive learning opportunities
- Collaborate with fellow lecturers on lesson plans and perform administrative tasks viz. recording attendance, managing student portfolios and providing individual assistance to the students Identify areas of improvement while working with students and effectively coaching them to improve their performance consistently

- Prepare and administer examinations, grade them in a timely manner, and provide feedback to the students
- Proven ability to easily assimilate new ideas, concepts, methods and technologies
- Create classroom assessment methods, techniques-adopted effective tools that were compliant with the university regulations.

Professional Service

Major Departmental / Institute Responsibilities

- **Head Student Affairs initiated various clubs and organized various events 05.09.2023 , PTM, Newsletter edition,**
- **Training and Placement organized at NIET (2019).**
- Arranged for placements and received 85% of appointment I MNC
- **Organized Anna University approved 7days FDTP on BE8254 Basic electrical engineering and instrumentation, 22nd -29th November 2017.**
- **Co-ordinator for ISO work, since 2016.**
- Head, Dept. of Electrical & Electronics Engineering, Since June 2012.
- Founder Coordinator BE program in Electrical and Electronics Engineering at MIT 2012.
- Founder Coordinator of Laboratories in Electrical and Electronics Engineering Department, MIT since 2012.
- Anna University / AICTE coordinator / NAAC, MIT (in ECE Dept 2008-2010) (in EEE since 2012). SMEC(2003-2006).CACHET (200-2003)
- Audit of facilities and quality of the institute, MIT (since 2006).
- Faculty Advisor for B.Tech Students, MIT 2006-2010.
- Staff Selection Committee Coordinator, MIT since 2007.
- Exam Cell Co-ordinator, MIT since 2013.
- FDP and Workshop Co-ordinator, MIT since 2002.
- Industrial visits Co-ordinator, MIT since 2013.
- Training and Placement Co-ordinator, MIT 2008-2010 and since 2015.
- Handled Subjects for PG Courses, MIT (2010).
- Work Shop Co-ordinator (CACHET 2001, SMEC 2005 and MIT 2011 and 2015).
- Symposium Co-ordinator (MIT 2008 and since 2014).
- Cultural Co-ordinator, CAHCET 2001, MIT 2007 and 2009.
- Intra- College Quiz Completion, CAHCET 2002.
- Measurement and Instrumentation Lab co-ordinator, CACHET 2002.

- Placement Co-ordinator, CAHCET 2002.
- Ladies Hostel Warden, CAHCET 1999-2003.

University Responsibilities

- Chairman for Central Valuation - EEE board, University College of Engineering Kancheepuram (Anna University) Zone22, 2016, 2017 and 2018.
- Anna University representative for conducting exam in other colleges, 2007, 2009, 2010 and 2013.
- Flying Scord for Theory Examination, 2008 and 2013.
- Question Paper setter, since 2008.
- Vice chairman for central valuation, from 2012-till 2015.
- Flying Scord for Practical Examination 2006.
- Paper valuator in the discipline of EEE as well as ECE since 2001-till 2012.
- External Examiner for Practical Examination, since 2000.
- External Invigilator for Theory Examination, since 2000.

Other University Assignments

- Guest lecturer in various Universities (since2009).
- Involved in curriculum development for various subjects, MGR University (since 2008)
- Paper setter for UG and PG courses at MGR University since 2007.
- Paper Valuator at MGR and Bharath Universities, since 2008.
- Paper Setter for UG at Bharath University since 2003.

Workshop / Webinar / Quiz Participated

- Six days National level FDP ,”Role of Electric vehicles in shaping sustainable transportation systems” from 3rd to 8th July 2023
- National level E-Quiz on “Fundamentals of computer programming Languages”.Organazed by Shri Sapthagiri institute of technology – 19.07.2020-30.07.2020
- National level E-Quiz “Natural Hazards and disasters management” organized by KSRM College of Engineering,AP-26.07.2020

- Webinar on “Robotics operating system”, organized by Adama science and technology university, Ethiopia- 17.07.2020
- Webinar on “Computer vision application and design”, hosted by Atria institute of technology, bengaluru-14.07.2020
- Webinar on “Wireless communication and 5G applications”, hosted by Francis Xavier Engineering College, Thirunelveli- 08.07.2020
- Webinar on “PCB manufacturing and Burn in test” .Organized by Rajalakshmi Engineering college- 05.07.2020
- MHRD-IIC sponsored impact online series II of “Innovation and Entrepreneurship”. Organized by AVC College of Engineering, Mayiladudurai – 02.07.2020
- Webinar on “Smart parking management on e governance”. Organized by Loyola Institute of Technology – 02.07.2020
- Webinar on “Server less computing”. Organized by Loyola institute of technology - 01.07.2020
- Webinar on “Introduction to Patent writing and associated protocol”. Organized by VNR Vignana Jyothi Institute of Engineering and Technology – 26.06.2020
- Webinar on “ IOT using NODEMCU”, hosted by Shiv kumar singh institute of technology and science-23.06.2020
- 3 days FDP on “Applications of power electronics for Renewable energy and power systems”, Organizes by EEE dept Rajalakshmi Engineering College”- 23
- Webinar on “Android Insights” organized by Loyola institute of technology - 18.06.2020
- “Webinar on study of switched mode power supply” by EEE dept Mohamed Sathak AJ college of Engineering -18.06.2020

- Webinar on “Introduction to Graphical Program- Labview” organized by E&I dept., VNR Vignana jayhi institute of Engineering and technology-25th May 2020.
- Webinar on “Future of AI”, hosted by IETE Mumbai in association with PANTECH-20.05.2020
- One day workshop on “Quality Assessment and Accreditation of Engineering Colleges” , Andhra Pradesh State Council of Higher Education in association with JNTU Kakinada – 11th November 2019.
- AICTE – ISTE Induction /Refresher Programmes under AICTE-ISTE MOU on Renewable Energy Sources Integrated Smart Grid Scenarios and control aspects using HVDC and FACTS controllers, SSN Engineering College, 16th -21st July 2018.
- Awareness meet 2015, Good Ocean Maritime, Institute of Logistics, 30th Oct 2015.
- One-day workshop on “How to write Research Papers for refereed Journal” at SaiRam Institute of Technology, 24th Jan 2015.
- Two days workshop on Robotics, Sri Sairam Engineering College, 2nd and 3rd Jan 2014
- Tech Labs at Velammal Engineering College, 9th Feb 2013.
- MATLAB applications in Electrical Engineering at Sri Sai Ram Engineering College, 7 March 2012.
- MATLAB and LABVIEW in Electrical Engineering at Vel’s University, 13th & 14th Oct 2011.
- High Voltage Engineering at Panimalar Engineering College, 15th Dec 2006

Contribution to the college / Department

Bharath College of Engineering and Technology for Women as Principal

- Introduced Student Development Cell with 12 Clubs for the benefit of Students.
- Organized for Social Media Champion.
- Chaired for Faculty recruitment.
- Established all the labs in the college.
- Active role for AICTE Inspection, JNTUK inspection

- Governing Body Member Secretary
- Member of All Academic & Administrative Committees Exist in the College.
- Organized (FDP's, Co-curricular & extra- curricular) during these few months & faculty
- Organized special events like Annual day, Engineers day, Sports day, Women's day, Cultural fest & Mathematics day
- Organized all AICTE approved programs like Yoga Day, Jal Diwas 2019 Seminar on Importance of Internshala, Plantation Drive etc.
- **Climate Change –“Gandhi Global Solar Yatra” –02.10.2019**
- **Fit India Movement on 29.08.2019**
- **Independence Day Celebration on 15.08.2019**
- **Plantation drives- “One Student One Tree”** ,, Inaugurated by Chief Guest “Amzad Basha Garu, Deputy Chief Minister , Andhra Pradesh”, on **03.08.2019**
- **Freshers Day Celebration**, Chief Guest “Amzad Basha Garu, Deputy Chief Minister ,Andhra Pradesh”,on **03.08.2019**
- Internshala - **Seminar on “Importance of Internship” on 26.07.2019**
- **Skill Enhancement Program** Chief Guest “Syed Asif Basha, Centre head-PMKK-Kadapa –Pradhana Mantri Kaushhal Kendra” started on **25.07.2019**
- **Social Media Champion** – HEIs & MHRD - Started on **23.07.2019**
- **Jal Diwas 2019**, Chief Guest “Bayanaboinasuryatejayadav, Liaison Coordinator In Fisia Spa (Genoa,Italy)” on **22.07.2019**
- Awareness program on **Anti Ragging** on **18.07.2019**
- **Student Development Cell - Introduced 12 Clubs on 02.07.2019**
- **Yoga Day** on **21.06.2019**

Nalanda Institute of Engineering and Technology as Principal

- 2nd Online FDP organized on 19.07.2020, “**Modern methods in online teaching**” Resource person Dr .M.Gopal Krishna, Retd IAS officer, Govt of AP.
- 1st online FDP organized on 27.06.2020, “**Effective teachers and online teaching**” Resource person Dr.T.V.Rao, Founder of NHRDN and Academy of HRD.

- 3rd FDP – “**Guru Sishya parambara from Ages Vs Ultra modern amenities**”25.01.2020
- One day seminar for Mechanical IV yr students and recent trends -21.01.2020
- Sankranthi celebration – 09.01.2020
- 3rd **HR sat@campus** for IVyr -04th January 2020
- Pre Christmas celebration-24th December 2019
- 2nd **HR sat@campus** for IVyr -21st December 2019
- “**Two day National level seminar on research projects, gate and PUCs**”-19th and 20th December 2019
- 2nd FDP on “**Teaching pedagogy in New Age**”-14th December 2019
- 1st **HR sat@campus** for IVyr -30th November 2019
- Induction drive for first year -28th,29th and 30th November 2019
- Placement drive for IV Yr (2016-2020 batch) and (2015-2019 batch) – 28th November 2019
- “**Constitutional Day**” - Government of India ,Ministry of Youth affairs Sports , Nehru Yuva Kendra,Guntur,A.P. - 26th November 2019
- 1st FDP on “**Gripping Greenhorns**” - 23rd November 2019
- Initiated Internal Quality Assessment cell

News

- **FDP on “Gripping Greenhorns” - 23rd November 2019 – news on 24.11.2019**
- Basket ball tournament JNTUK -25.11.2019- news on 26.11.2019<https://epaper.sakshi.com/c/46163554>
- Constitutional day Celebration -26.11.2019
<https://epaper.vaartha.com/2437104/Guntur/27-11-2019#page/12/1>
- HRSAT@NIETCAMPUS 30/12/2019
<https://epaper.prabhanews.com/c/46389221>
- Carrier mapping for first year students 28,29 and30 Dec 2019

<https://epaper.andhrajothy.com/c/46454464>

- CRT program for IVyr students on 09/12/2019 and 10/12/2019

<https://epaper.andhrajothy.com/c/46>

<https://epaper.prabhanews.com/c/46743054>

Subjects Taught (Anna University, Madras University)

UG Level

Electrical Engineering	Circuit Theory
Electrical Drives and Control	Electromagnetic Theory
Electrical Machines I	Signals and Systems
Control System	Analog and digital electronics
Power Electronics	Telecommunication switching networks
Solid State Drives	Digital Electronics
Biomedical Engineering	Transducer Engineering
Power System Analysis	Measurements and Instrumentation
High Voltage Engineering	Instrumentation Systems
Total Quality Management	Basic Electrical and Electronics Engineering
Professional Ethics	Network Analysis and Synthesis

Subjects Taught (Anna University, Madras University, Sathyabam University)

PG Level (As Guest)

Analysis of Rectifier	Fuzzy logic control
Renewable energy in Power electronics	Artificial Intelligent
Intelligent systems	Analysis of Inverter
HVDCT	Power Electronics in Power System

Projects guided in UG and PG level =100

International / National Journals

- Dr.S.Devikala ,”Sliding mode controlled and Phase-shift switched capacitor based multiport converter”,IEEE Xplore ,ISBN : 979-8-3503-9663-8, **Scopus indexed**.

- Dr.S.Devikala⁴, “A Real Time implementation of ANN controller to track Maximum Power Point in Solar Photovoltaic System. Annal of R.S.C.B., ISSN: 1583-6258, Vol.25., Issue 6, Pg : 1052-10607, May 2021.
- Dr.S.Devikala⁴, “Energy Efficient and Hybrid Bio-inspired Ant-cuckoo Algorithm for Wireless Sensor Network”. Bioscience Biotechnology Research Communications , Special issue Vol : 14., No: 16 ,2021
- S.Devikala and V. Sivachidambaranathan, “Investigations on Fuzzy Logic Controlled Soft Switched Push -Pull DC To DC Converter (PPDDC) For Storage Batteries”. International Journal of Pure and Applied Mathematics Volume 118 No. 16, March 2018, PP: 923-946. Scopus Indexed
- S.Devikala and V. Sivachidambaranathan, “Artificial Neural Network Controlled Soft Switched Push -Pull DC to DC Converter”. Journal of computational and Theoretical Nano science, Jan 2017, Vol .14, pp: 585-590. Web of science Indexed.
- S.Devikala and P.Nirmalkumar “Comparison of closed loop responses of Soft Switched Push- Pull DC to DC Converter with PI and PID controller”. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 9, Number 24 (2014) pp. 28819-28833, Scopus Indexed
- S.Devikala and P.Nirmalkumar “Comparison of Push-Pull and non-isolated DC-DC Converter High-Step down Converter”, Indian streams research journal, ISSN No.2230-7850, Vol.3, ISSUE.IV and May 2013.pp:27-35.
- S.Devikala and P.Nirmalkumar, “Experimental Verification of Reduction of EMI in ZVS Push-Pull Converter System”, National Journal on Electronics Engineering, ISSN-2229-7286, Sep-Nov 2012.
- S.Devikala and P.Nirmalkumar “Modelling and Simulation of Closed Loop controlled ZVS Push-Pull DC to DC Converter”, CIIT International Journal of Programmable Devices, Circuits and Systems, ISSN 0974-973X Vol.3, No 14, November 2011, pp: 788 – 791.

International / National Conferences

- Dr.S.Devikala, “Performance Improvement of 16bussystem using Hybrid power” International conference on Automation, Computing and Renewable Systems (ICACRS-2022) Dec 13-15th 2022 Mount Zion college of Engineering and Technonoly , Pudukkottai,TN
- Dr. S. Devikala¹, M.Arunpandi², B.Arunraj³, I.S.Issac⁴, “Engine Controller And Alert System For Drowsy Driver Using Arduino”.International conference on Photonics and high speed optical networks,12th and 13th April 2018.
- Dr S.Devikala M.E,Ph.D and G.Hariprasath, “Smart Home Control For Specially Abled People Using Brain Wave Sensor” International conference on Photonics and high speed optical networks, 12th and 13th April 2018.

- S.Devikala and V.Sivachidambaranathan, “Investigations on Fuzzy Logic Controlled Push-Pull DC to DC Converter (PPDDC) for Storage batteries”. International Conference on Emerging Novelities and Vistas in Space Technologies and Applications ENVISTA 2015, Dec 4&5 2015- Best Paper Award.
- S.Devikala and P.Nirmalkumar “FFT Analysis on reduction of EMI in ZVS Push-Pull DC to DC converter system”, 1st National conference on Power Electronics Systems and Applications, Vol: 1, No: 1, March 2013 pp: 154-157.Venue: National Institute of Tech, Rorkela 16-17 March 2013
- S.Devikala and P.Nirmalkumar “Modeling and simulation of closed loop controlled ZVS Non-isolated DC to DC Converter”, 2nd International Conference on Power and VLSI Engineering, Vol: 1, Aug 2013, pp: 54-58. Venue: Planetary scientific research center –Aug2013 Malaysia.
- S.Devikala and P.Nirmalkumar “Experimental Verification of Soft Switching Push-Pull DC to DC Converter”, IEEE International conference on Power Electronics, Drives and Energy Systems, Dec 2012, pp: 181-185.Organized by IEEE and Central power research institute-Bengaluru. Venue: Indian Institute of Science 16-19 Dec 2012
- S.Devikala and P.Nirmalkumar “Relative investigation between Push-Pull Converter and Non-isolated Converter of low to high voltage gain”, International conference on Emerging Trends in Electrical Engineering and Energy Management, Vol.1, No.90, Dec 2012, pp: 496-500.Organized by IEEE Venu: Vinnayaga Mission University.
- S.Devikala and P.Nirmalkumar “Reduction of EMI in ZVS Push-Pull Converter System”, Computational Intelligence in Electrical and Electronics Engineering, Vol: 1, No.32, March 2012, pp: 167-170.Venue: Sathyabama University.

Text Book

“**Transducer Engineering**” VIII sem ECE Open elective (OIC751) and III sem EIE (EI8352) Anna University Syllabus. HSRA Publications. First edition 2022.

Book Chapter

“**Machine learning and applications**”. Topic Speed sensor less model predictive current control in motor applications using machine learning techniques. 2020 ISBN: 978-93-86923-47-9., Dipti Press,Ltd ,Chennai

Membership in Social bodies

- Life member in IJRULA Malaxis, No. RULZ-17
- EDAS Life member: 1654324
- Member of Editorial Board BEIESP- Elsevier and Scopus journals Membership No : 201948
- IFERP PROFESSIONAL MEMBERSHIP Membership No : PMIN54960372

- NAMLE : 52283918

Membership id and links

- Researcher id : A-5415-2019
- Scopus id : 54402576200
- Skype id : deviramesh08

Orcid id : <https://orcid.org/0000-0001-8118-5649>

Academia.edu: <https://independent.academia.edu/DevikalaSivalingam>

LinkedIn: <https://www.linkedin.com/in/s-devikala-rameshbabu-56231aa6/>

Face book: <https://www.facebook.com/deviramesh>

[Dr. S Devikala - Principal \(Varaprasad reddy Institute of Techonlogy\) Telecast in India News - YouTube](#)

Personal Information

Name	: Dr. S. Devikala
Gender	: Female
DOB	: 15-05-1978
Spouse name	: Er.S.Rameshbabu M.E.
Nationality	: Indian
Languages Known	: English, Telugu and Tamil
Passport No. / Expiry date	: N6440764 / 03.02.2026
Permanent address	: C 2 / 19, Kendriyavihar, Velappanchavadi, Chennai - 600 077.
Address for communication	: C 2 / 19, Kendriyavihar, Velappanchavadi, Chennai - 600 077

DECLARATION

I declare that the statements made in this application are true to the best of my knowledge and belief. I also understand that misleading or wrong information supplied may lead to summarily rejection of application /appointment if found subsequently.

Date : 15.01.2023

Place: India, Tamil Nadu, Chennai

Signature of the Applicant

Dr.S.DEVIKALA