

GOVERNMENT COLLEGE OF ENGINEERING

TIRUNELVELI – 627 007

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

1. Name in full : C. PONMANI
2. Designation : Professor (CAS)
3. Nature of Association : Regular
(Regular/Contractual/Adjunct)
4. Date of joining in the present post : 27.08.2017
5. Date of joining the Institute : 09.08.2001
6. Date of Birth : 05.03.1972
7. PAN Number : ALZPP4112E
8. Aadhaar Number : 3121 6036 9597
9. Scale of pay : Rs.1,67,200



10. Address:

Permanent Address	Communication Address
C1, Staff Quarters Governemnt Collge of enigneering, Tirunelveli-627007.	Assistant professor Department of Electrical and Electronics Engineering Governemnt Collge of enigneering, Tirunelveli-627007. Mobile:9865358617 e-mail id: ponmani@gcetly.ac.in

11. Educational Qualification (Starting from basic degree):

Degree	Area of Specialization	Institute/ University	Month/ Year	Class	% Marks / Equivalent
B.E	Electrical and Electronics Engineering	Madurai Kamaraj University	April 1993	I Class	63.67 %
M.E	Power Electronics and Drives	Anna University, Chennai	July 2006	I Class with Distinction	81 %
Ph. D	Electrical Engineering	Anna University, Chennai	March 2013	NA	NA

12. Experience (Starting from current position):

Academic Experience				
Period		No. of Years	Designation / Nature of job	Institute / Organization
From	To			
1.07.2003	Till Date	19 Years	Assistant Professor. Lecturer (Sr. Gr.). Lecturer.	Government College of Engineering, Tirunelveli.
09.08.2001	30.06.2003	1 Year, 11 Months	Lecturer.	Government College of Engineering, Salem.
01.06.1995	20.12.2000	5 Years, 6 Months	Lecturer/Electrical	Polytechnic Colleges, Chennai.
01.06.1993	30.04.1994	11 Months	Lecturer/Electrical	Polytechnic College, Tirunelveli.

Industrial Experience				
Period		No. of Years	Designation / Nature of job	Institute / Organization
From	To			
27.12.2000	27.07.2001	7 Months	Assistant Engineer/Electrical	Tamil Nadu Electricity Board. Tirunelveli Distribution Circle, Tirunelveli.
01.06.1994	31.05.1995	1 Year	Apprenticeship Trainee/Electrical	Tuticorin Thermal Power Station-Tuticorin

Research Experience				
Period		No. of Years	Designation / Nature of job	Institute / Organization
From	To			
Nil				

13. Publications with DOIs and Publication/Citation details

Publications Details						DOI	No of Citations
S. No.	Title of paper	Authors	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number		
01	“Control and Power Management Scheme for PV–Battery Based Hybrid Microgrid Using Hybrid MPPT”	Esther Jebarose, C.Ponmani	International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)	Volume IX, Issue III, March 2020	ISSN 2278-2540	10.51583	Nil

14. Books /Course Materials Published:

i) Video Lecture published for the subject “Design of Electrical Apparatus” in YouTube

<https://www.youtube.com/channel/UCkYcfHFewxLyqXCc4hKN8TA/videos>

ii) Course Material published for the subject Electrical Machines I & II in Moodle Platform:

www.ponmani.gnomio.com

iii) Course Material published for the subject Electric Vehicles and Power Management in Moodle Platform:

www.ponmanijokin.gnomio.com

15. Academic Research guidance / Supervisor ship:

Name of Research Scholars	Course / M.Phil / Ph.D	Area of Research / Work	Status
SARAVANAN I	Ph. D	Power Electronics in Power Systems	Course Work Completed
VIMALA I	Ph. D	Power Electronics in Power Systems	Course Work Completed
RAJESHWARI. R	Ph. D	Electric Vehicles	Course Work

16. List of R&D and Consultancy Projects with Approvals and Project Completion Reports:**a) R & D Project/Funded Projects:**

Name of the Scheme	Title	Sponsoring Agency	Year	Responsibility	Amount Sanctioned Rs.
Research Promotion Scheme (RPS)	Intelligent control technique for Hybrid wind- Solar Power generation system using matrix converter and Super Lift Luo Converter.	AICTE	2013-14 to 2015-16 (Extension up to June 2020)	Principal Investigator	15,90,000
Induction/ Refresher Program	“Pedagogy for the use of ICT to improve quality of teaching and learning”	AICTE- ISTE	14.11.2018 to 20.11.2018	Coordinator	3,00,000
MODROBS	Modernization of Power Electronics and drives Lab	AICTE	2011-12	Co- Coordinator	11,00,000

b) Consultancy Project: Nil**17. Seminars/Guest Lectures/Conferences/Workshops/FDP/Pedagogical Initiates Organized:**

Pedagogical Initiatives					
Name of the Program	Title	Sponsoring Agency	Year	Responsibility	Amount Sanctioned Rs.
Induction/ Refresher Program	“Pedagogy for the use of ICT to improve quality of teaching and learning”	AICTE- ISTE	14.11.2018 to 20.11.2018	Coordinator	3,00,000
Orientation Program	“Advance Teaching Methodologies”	ISTE – GCE, Tirunelveli.	06.01.2018	Coordinator	20,000

18) Seminars/Guest Lectures/Conferences/Workshops/FDP/Pedagogical Initiates Attended:

FDP attended for CAY, CAYm1, CAYm2					
Sl. No.	Title of Training Programme	Institution	Duration		No. of Days
CAYm2 : 2018-19					
1	AICTE – ISTE Induction/Refresher programme on “Pedagogy for the use of ICT to improve Quality of Teaching and Learning”	Government College of Engineering, Tirunelveli.	14.11.2018	20.11.2018	One Week
CAYm1: 2019-20					
1.	Design, Develop and Deliver Online Courses through MOODLE Platform	SPIU Tamil Nadu and CIT Coimbatore	23.04.2020	24.04.2020	02
CAY: 2020-21					
1.	Technology for measuring Electric Power Drive Systems	HIOKI India	19.06.2020		01
2.	Data Handling and Data Visualization using PYTHON	Government College of Engineering- Tirunelveli	06.07.2020	10.07.2020	One Week
3.	Think to Build the Logic in C Programming	Swarnandhra College of Engineering and Technology, Andhra Pradesh	05.08.2020	20.08.2020	16 Days
4.	A practical approach to implement Data Structures using C	Swarnandhra College of Engineering and Technology, Andhra Pradesh	02.09.2020	22.09.2020	21 Days
5.	Matlab Simulink	Pantech Prolabs India Pvt.Ltd. in association with Andhra Pradesh State Skill Development Corporation (APSSDC)	23.11.2020	22.12.2020	30 Days
6.	Enhancing Quality Teaching Strategies through Outcome Based Education	Kongu Engineering College, Erode	02.03.2021	03.03.2021	02

7.	AICTE & ISTE Sponsored Induction / Refresher Programme on “Outcome Based Education” (Virtual Mode)-Phase II	Government College of Engineering-Bargur	24.03.2021	30.03.2021	One Week
8.	Electric Vehicle Design using MatLab	Pantech Prolabs India Pvt.Ltd.	29.03.2021	02.04.2021	05
2021-22					
9.	Embedded Systems – An Application Driven Approach	AICTE ATAL Academy, ST Micro Electronics and ARM Education	25.08.2021	27.08.2021	03
10.	Online workshop on NAAC	Jharkhand Government Tool Room, Ranchi	13.12.2021	18.12.2021	One Week

19. Faculty Interaction with Outside World:

Guest Lectures Delivered			
S.No	Topic	Institution	Year / Date
1.	Delivered two sessions expert lecture on Anna University FDTP on "Special Electrical Machines - BLDC Motor"	Christian College of Engineering and Technology, Odanchathram	15.12.2021
2	Delivered Keynote Address on “Electric Vehicles” in one day Virtual National Conference on “Emerging trends in Science and technology (ETST-2021)	JP College of Engineering, Tenkasi	12 th November 2021
3	Delivered expert lecture on “Power converters for electric vehicle to grid” in a two day webinar in “Power electronics applications to power systems”	Government College of Engineering – Salem.	22.12.2020
4	Delivered a plenary lecture titled “Power Converters for Electric Vehicles” in AICTE SPONSORED Six Day Online STTP on “ELECTRIC CARS TECHNOLOGIES AND MODERN POWER SYSTEM” - SERIES-III	Kamaraj College of Engineering and Technology, S.P.G.C Nagar, K.Vellakulam, Madurai District, Tamilnadu	12 th – 17 th October, 2020.
5	Delivered expert lecture on “Synchronous Motor Drives” during Anna University FDP FDP conducted for “Solid State Drives”	P.S.R. Engineering College, Sivakasi	20.12.2013

6	Delivered guest lecture on “Power converters and control of solar PV systems” in AICTE sponsored Faculty Development Program	Government College of Engineering, Tirunelveli	14.05.2013
7	Delivered guest lecture on “Wind energy conversion system” in AICTE sponsored Faculty Development Program	Government College of Engineering College, Tirunelveli	07.05.2013
8	Delivered guest lecture on “Electrical Machines” in Faculty Development Program	Francis Xavier Engineering College, Tirunelveli	21.03.2013 & 22.03.2013
9	Delivered expert lecture on “Energy efficient drive technology” in a DRDO sponsored National Level Technical Seminar EEDRTP’12	National Engineering College, Kovilpatti	14th – 15th September 2012.

Resource persons for various events				
S.No	Organization	Purpose	Details of Service	Date
1.	Nation Engineering College, Kovil Patti	Board of Studies - X	Anna University Nominee	10.11.2018
2		Board of Studies - IX		27.04.2018
3		Board of Studies - VIII		17.11.2017
4		Board of Studies - VII		25.03.2017
5		Board of Studies - VI		26.03.2016
5	Francis Xavier Engineering College, Tirunelveli	Board of Studies	Anna University Nominee	22.08.2022
7	Amrita College of Engineering and Technology, Nagercoil	Staff selection committee	Subject expert	23.08.2022
Details as DC Member				
Sl. No.	Supervisor	Scholar	Duty	Date
1.	Dr. Sujatha Balaraman, Government College of Technology	Mr. G. Samuel Muthuraj, Dr. Sivanthi Aditanar College of Engineering, Tiruchendur	DC Meeting for Synopsis Submission	29.10.2021

2.	Dr. L.Kalaivani, Nation Engineering College, Kovil Patti	Mr. B. Venkatasamy	DC Meeting for Synopsis Submission	13.05.2022
3.	Dr. L.Kalaivani, Nation Engineering College, Kovil Patti	Mr. M. Gengaraj, Nation Engineering College, Kovil Patti	DC Meeting for Synopsis Submission	25.06.2022
4.	Dr. Sujatha Balaraman, Government College of Technology	Mr. G. Samuel Muthuraj, Dr. Sivanthi Aditanar College of Engineering, Tiruchendur	DC meeting for Presenting Thesis Corrections	21.06.2022

Details as Journal Reviewer

S.No	Name of the Journal	Manuscript ID	Paper Title
1.	IET Power Electronics	PEL-2012-0357	Methods of Source Current Reference Generation for Predictive Control in a Direct Matrix Converter
2.		PEL-2013-0144	Fundamentals of a New Multi- Phase, Neutral-Point Clamped Multilevel Inverter
3.		PEL-2013-0798	Modelling and Simulation of an Indirect Space Vector Modulated Three Phase AC to Three Phase AC Matrix Converter
4.	International Journal of Electric Power Components and systems (T & F)	UEMP-2011-0634	A Novel Speed Controller Based on Lagrange's Interpolation for Closed- loop Control of a CSI-fed Induction Motor Drive
5.		UEMP-2012-0327	A Soft-Transition of Multilevel Inverter for Three-Phase Induction Motor Drive
6.		UEMP-2012-0534	Nonlinear Control of a Speed Sensor less six-phase Induction Motor Drive
7.		UEMP-2013-0521	Application of Neuro-Fuzzy Controller in Torque Ripple Minimization of Vector Controlled VSI Induction Motor
8.	International Journal of Electrical Power and Energy Systems (Elsevier)	IJEPES-D-13-00355	An Experimental Analysis of a Single Phase Matrix Converter for Adjustable Speed Drives
9.		IJEPES-D-12-00726	Analysis of single phase Single level and Multi level Matrix converter for various load conditions

10.	IEEE Transactions on Industrial Electronics	10-1858-TIE	Design and practical implementation of Novel variable speed generation systems
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20. Membership in professional societies:

Name of the Society	Details of Membership
ISTE	MISTE

21. Awards/Letters/Certificates/Prizes/Medals/Honors received, if any:

Details of award	Awarded for the work	Date
STM32L476 Nucleo-64 Microcontroller Development boards	Winner of IDEathon – “Faculty Workshop on Embedded Systems-An application driven approach”conducted by AICTE ATAL Academy, STMicroelectronics and Arm Education	25 th to 27 th August 2021
Certificate	Coordinator Certificate received for the successful completion of AICTE - ISTE approved Induction/Refresher programme on “Pedagogy for the use of ICT to improve quality of Teaching and Learning” held at Government College of Engineering Tirunelveli.	14 th to 20 th November 2018
Certificate	Best paper award received for the paper presentation on “An ANFIS based Zeta converter fed BLDC motor driven water pumping system” at International conference ICIETET’17 on 15 th May 2017 at Panimalar Institute of Technology, Chennai.	15 th May 2017
Won an Agilent U121B Hand-held Digital Multi-meter.	For submitting an experiment under the contest “Give one and get a hundred” conducted by Agilent Technologies.	During the year 2011.

22. Contribution to the College

Responsibilities held	Nature of activities for the betterment of College
Girls Hostel - Deputy Warden from July 2006 to April 2020. Hostel Superintendent (Accounts) and Associate Warden during the academic year 2019-20.	Hostel students discipline and counseling. Maintenance of Accounts Purchase and Establishment
Faculty Development Cell Coordinator till the academic year 2020-21.	Organizing FDP in the areas as per the training needs.
ISTE Students Chapter Faculty-in-charge	Organizing awareness programs.
Planning and Development Cell – Coordinator till July 2020.	AICTE, Anna University Affiliation and NBA Work.

AICTE - PG Scholarship Coordinator from the year 2021-22.	Web portal administration, Monthly attendance generation and approval, Submission of Utilization certificate etc.
AICTE – Prime Ministers Special Scholarship Scheme (PMSSS) for Jammu, Kashmir and Ladakh students – Nodal officer from the year 2018-19.	Web portal administration, Applying Scholarships, Submission of Institution Fee Utilization Certificate for every semesters etc.
NBA Coordinator w.e.f 20.07.2021	NBA Accreditation Work for UG – CSE & EEE Programmes: SAR Preparation and Documentation Work

23. Contribution to the Department

Responsibilities held	Nature of activities for the betterment of the Department
Faculty advisor	Anna University Web Portal Entries from admission to the completion of the program, Bio Data, Master Attendance Register, Result analysis, Exam fee payment etc. and Students counseling.
Students Technical Association Faculty in-charge	Maintenance of accounts, Arranging Various activities under the Society including Seminars, Workshops, Technical Symposium and other events.
Quality improvement Cell Member/EEE	Distribution of NPTEL Videos on various courses. Arranging workshops/Training programs on spoken tutorial software. Organizing British Council English/Life Skill courses to the students.
NBA Coordinator/EEE	NBA Accreditation works of EEE Department

24. Faculty travel for official purpose:

- (i) Inspection of the genuineness of utilization and non collection of tuition fee from First Graduate students by Engineering Colleges (5 Colleges from 26.04.2019 to 03.05.2019)
- (ii) TNEA Updation Officer Duty at DOTE

25. Industrial Visits:

Accompanied the students for 2 industrial visits during the assessment period

Sl. No	Date	Name of the Industry	Remarks
1.	06.03.2020	ISRO Mahendragiri & Koodan Kulam Nuclear Power Project, NPCIL	PG I and II Year Students
2.	12.03.2019	Koodan Kulam Nuclear Power Project, NPCIL	PG II year and UG IV year students

26. Any other activities

Signature

HOD/EEE