

FACULTY PROFILE

Name : **Dr.P.USHA RANI**
Designation : **Professor**
Dept. : **EEE**
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Mobile no : **9445123905**

Qualification:

Category	Name of the Degree	Branch / Faculty	Year of Passing	Name of the College	Name of the University
UG	B.E	Electrical & Electronics Engineering / EEE	1991	Government College of Technology, Coimbatore	Bharathiyar University
PG	M.E	Power Systems Engg / Electrical Engg	2002	College of Engg., Guindy	Anna University
Ph.D.	Ph.D	Power Electronics & Drives /Electrical Engg.	2011	College of Engg., Guindy	Anna University

Experience : **30 ½ Years**

Membership in Professional Bodies : **Senior member IEEE 92076089**
LISTE LM 59878

Foreign visit : **Singapore IEEE Conference ACEPT2017**

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Publications:**VIDWAN:**<https://vidwan.inflibnet.ac.in/profile/273188>**SCOPUS:**<https://www.scopus.com/authid/detail.uri?authorId=46161698500>**GOOGLE SCHOLAR:**<https://scholar.google.co.in/citations?user=r7DbHTAAAAAJ&hl=en>**ORCID**<https://orcid.org/0000-0003-0215-6116>**You tube channel link:**<https://www.youtube.com/watch?v=Elt9iwmpsCc>**Online Courses Completed:****NPTEL- 7**

Sl. No.	Name Of The Course-NPTEL	Duration	Yr	AICTE FDP Course	Grade
1	Brief introduction to Psychology	4 Weeks	Jul-Aug 2022	FDP	Completed
2	Non Conventional Energy Resources	12Weeks	July Sep 2021	FDP	Completed
3	Power Plant Engineering	8 weeks	Jan April 2021	FDP	Elite
4	DC Microgrid	8 weeks	July-sep 2019	FDP	Elite
5	Teaching and Learning in Engineering	4weeks	Jan April 2019	FDP	Silver
6	Electric vehicles	12 Weeks	Jul-Oct 2018	FDP	Elite
7	Power System Analysis	12 Weeks	Jul-Oct 2018		Elite

COURSERA-8

S.NO.	NAME OF THE PLATFORM	NAME OF THE COURSE	DURATION	DATE OF COMPLETION
1.	COURSERA	Mindshift Break through Obstacles to learning and discover your hidden potential	5 weeks	July 2022
2.	COURSERA	Positive Psychology	5 weeks	June 2022
3.	COURSERA	International leadership and organizational behavior	5 weeks	01.07.2021
4.	COURSERA	AI for Everyone	5 weeks	24.06.2020
5.	COURSERA	Cybersecurity and Internet of Things	5 weeks	15.06.2020
6.	COURSERA	Creative Problem Solving	5 weeks	02.05.2020
7.	COURSERA	Communication Strategies For A Virtual Age	5 weeks	23.04.2020
8.	COURSERA	Photovoltaic solar energy	5 weeks	30.11.2018
9.	NASSCOM-SKILL UP	Foundations Of Artificial Intelligence Program	5 weeks	10.05.2020
10.	Infosys Springboard	Internet of things	4 weeks	22.01.2022
11.	Infosys Springboard	Time Management	4 weeks	June 2022

Books/Book Chapters Authored:

S.No	Title of the Book	Name of the Publisher	Year of Publication	ISBN Number
1	Lect. Notes Electrical Eng	Springer-Advances in Smart Grid Technology	2021	978-981-15-7241-8_14
2	Lect. Notes Electrical Eng.	Springer - Intelligent and Efficient Electrical Syses	2017	978-981-10-4851-7
3	Power Electronics	Sruthi publisher	2015, 2019	978 -81 - 939393- 5-2

Awards Received:

- 1. Senior member IEEE Feb 2019**
2. Appreciation for fostering an ecosystem bridging government industry and academic given by DST and Texas Instruments 2018
3. Dr. APJ ABDUL KALAM Award for Scientific Excellence 2017
4. Dr. APJ ABDUL KALAM Award for Teaching Excellence 2017
5. Senior Woman Educator & Scholar Award 2017

Organized:

1. **A I C T E Sponsored STTPs on Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices yr 2020**
Rs.2,90,666/

2 . Anna University sponsored FDP :

Rs 70,000/ Power System Analysis 2012

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Transmission & Distribution 2017

Delivered lectures

**: AICTE and Anna University sponsored FDPs/STTPs
conducted by various Engineering colleges**

Reviewer

: International Journals –

**Transanction on Electrical Energy Systems,
JEET, MDPI, Artificial Intelligence Review**

**International Conferences - IEEE conference
ACEPT2017**

Membership in Committees:**Technical Program Committee**

1. PCCNT 2023 www.pccnt.cn/committee
2. MEAAC 2023 www.meaac.org/committee.aspx
3. Doctoral Committee Member Anna University
4. International Conferences

Patent Published: 6

Sl.No	Application no	Title	Filed dt	Published dt
1.	202241051457	Smart Band for Women's Safety with Self Defence	08.09.22	16.09.22
2.	202241051209	Women Safety System with Nerve Stimulator	07.09.22	16.09.22
3.	202241027040	Spruse Electric bike	10.05.22	03.06.22
4.	202241027041	Digital Fuel meter and refuel estimator and the method of its uses	10.05.22	03.06.22
5.	202141036622	Internet of Things System for Agriculture	13.08.2021	03.09.2021
6.	202041047138	A Power Quality Improved EV charger with Bridgeless CUK Converter	28.10.2020	06.11.2020

Ph.D Guidance**: Guided: 3, Pursuing : 9****Anna University****Supervisor Recognition No. : 2330270**

Topic of Research scholars

S.No	Name	Topic of Research	University	Yr of Registration	Status
1	R.Hariharan	Smart strategy method for Blackout restoration	Saveetha University	June 2012	Viva Completed 24.10.2018
2	Ms.M.Ramya	Implementation of reduced Switch multilevel inverter Topology for statcom to enhance Reactive power compensation	Anna University	Dec 2014	Viva Completed 03.11.2020
3	Mr.R.Rajasekaran	Implementation of soft switching bidirectional DC-DC Converter with coupled inductor for stand-alone photo voltaic power generation system.	Anna University	Dec 2014	Viva Completed 02.11.2021
4	Mr.S.Saravanan	Soft switching SEPIC converter for photo voltaic application	Anna University	Dec 2014	Synopsis
5	Mr.R.Selvamanikandan	Wind Energy conversion based double fed induction generator controlled by direct matrix converter.	Anna University	Dec 2014	Provisionally confirmed
6	Mr.P.Sathyanathan	Implementation of MLI topology	Anna University	July 2015	Provisionally confirmed

7	Priyadharshini P	Switching cell based dynamic voltage restorer with structured multilevel converter	Anna University	Jan 2018	completed course work
8	Brinda P	Smart grid system for monitoring and controlling using renewable energy sources	Anna University	Jan 2018	completed course work
9	Karkuzhali S	An optimal energy management Strategy for Hybrid electric vehicle	Anna University	July 2018	completed course work
10	R.Dhanalakshmi	An optimal control strategy for battery management system of electric vehicle	Anna University	Jan 2019	completed course work
11	J.C.Vinitha	Stability Analysis of Power system including Electric Vehicle	Anna University	July 2019	completed course work