

BIO DATA



Name : Dr.B.Deepa Lakshmi

Designation : Associate Professor

Department : Electronics and Communication Engineering

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Google Scholar : <https://scholar.google.com/citations?hl=en&user=KBhIXOAAAAAJ>

1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Manonmaniam Sundaranar University, Tirunelveli	2001
M.E.	Applied Electronics	Anna University, Chennai	2009
Ph.D.	Electrical and Electronics Engineering	Dr.M.G.R. Educational and Research Institute	2017

2. Professional/ Industry Experience

(in chronological order)

S. No.	Designation	Institution/ Organization	Period	
			From	To
1.	Associate Professor	Ramco Institute of Technology	June 2018	Till date
2.	Assistant Professor (Senior Grade)	Ramco Institute of Technology	June 2014	May 2018
3.	Assistant Professor	Sri Sairam Engineering College	July 2010	May 2014
4.	Lecturer	New Prince Shri Bhavani College of Engineering and Technology	July 2009	June 2010
5.	Lecturer	Saveetha Engineering College	September 2006	August 2007
6.	Lecturer	Prince Shri Venkateshwara Padmavathy Engineering	October 2005	August 2006
7.	Lecturer	P.B. College of Engineering	July 2002	September 2005

3. Research Interest : Renewable Energy, Image Processing, Soft Computing

Updated as on 25.11.2019

4 Publications

4.1 JOURNAL PUBLICATIONS

1. **Deepa Lakshmi B**, Sujatha T and Godhavari T, 2015, 'Wind Turbine Modeling and Control Using Fuzzy Logic', International Journal of Applied Engineering Research, Vol. 10, No.11, pp. 29231-29257.
2. **Deepa Lakshmi B** and Sujatha K, 2016, 'Image Processing for Monitoring Wind Mills', International Journal of Control Theory and Applications, Vol. 9, No.4, pp. 167-178.
3. **Deepa Lakshmi B** and Sujatha K, 2016, 'Artificial Neural Networks for Wind Speed Prediction', International Journal of Control Theory and Applications, Vol. 9, No.4, pp. 179-185.
4. **Deepa Lakshmi B**, Sujatha K and Su-Qun Cao, 2018, 'Optimal Condition Monitoring of Wind Turbines using Intelligent Image Processing and Internet of Things', International Journal of Renewable Energy Technology, Vol. 9, No.1, pp. 158-180.

4.2 CONFERENCE PUBLICATIONS

1. Deepa Lakshmi B, (2019), 'Tire Pressure Monitoring System', in National Conference on Intelligence in Electronics and Communication Engineering at RVS College of Engineering and Technology, Coimbatore.
2. Deepa Lakshmi B, (2019), 'Hands-off Toll Collection based on distance travelled and overspeed tracking using Onboard Unit', in National Conference on Challenges and Innovations in Information Technology at Kongu Engineering College.
3. Deepa Lakshmi B, (2019), 'Sleep Disorder Detector using EEG Signals', in National Conference on Intelligence in Electronics and Communication Engineering at RVS College of Engineering and Technology.
4. Deepa Lakshmi B, (2018), 'Design and Implementation of Low Power Square Root Carry Select Adder using Zero Finding Logic', in International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications at PSNA College of Engineering and Technology, Dindigul.
5. Deepa Lakshmi B, (2018), 'Implementation of Arithmetic Computation using Vedic Algorithm', in International Conference on Engineering and Advancement in Technology at Sri Krishna College of Technology, Coimbatore.
6. Deepa Lakshmi B, (2018), 'An Assessment of Potential Windmills using Image Processing and Artificial Intelligence based Wind Speed Estimation', in IEEE

International Conference on Energy, Communication, Data analytics and Soft computing at SKR Engineering College, Chennai.

7. Deepa Lakshmi B, (2018), 'An Area Efficient Square Root Carry Select Adder using Cascaded Half Adder', in ISRO sponsored National Conference on Signal Processing, Communication and VLSI Design at Anna University Regional Campus, Coimbatore.
8. Deepa Lakshmi B, (2018), 'A Smart Conference Hall Surveillance System using Internet of Things', in National Conference on Modern Developments with Keen and Renovation Techniques at Hindusthan Institute of Technology, Coimbatore.
9. Deepa Lakshmi B, (2018), 'Implementation of Cubic Computation using Vedic Formulae', in National Conference on Innovations in Communication Technology for Social Development at Ramco Institute of Technology, Rajapalayam.
10. Deepa Lakshmi B, (2017), 'Biometric and RFID based Polling System', in National Conference on Innovations in Engineering, Science and Technology at Ramco Institute of Technology, Rajapalayam.
11. Deepa Lakshmi B, (2017), 'Enhancement of Photovoltaic Cell Efficiency using Peltier Tiles, in National Conference on Optimization Techniques in Engineering Science and Technologies at Bannari Amman Institute of Technology, Erode.

4.3 Book/Book chapter publications: Nil

5 Funded Projects

S. No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Hands-Off Toll Collection Based on Distance Travelled and Over-Speed Tracking using Onboard Unit	TNSCST	2 years	Rs.3.82 Lakhs	Submitted
2.	Sleep Disorder Detection using EEG signals	TNSCST	2 years	Rs.3.82 Lakhs	Submitted
3.	A Smart Security System for Protection of School Girl Child from Molested (Abused)	TNSCST	2 years	Rs.4.15 Lakhs	Submitted
4.	Design and Development of Smart Uniform for School Girl Children using Artificial Intelligence	DST	3 years	Rs.31.68 Lakhs	Submitted
5.	Artificial Intelligence based Crop Doctor	FAER	6 months	Rs.13,890	Submitted

6. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl. No.	Title of the event	Organized by	Date	
			From	To

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1.	FDP on Team Building	Ramco Institute of Technology	18.11.2019	20.11.2019
2.	Educational Summit	IIT, Madras	16.11.2019	-
3.	Industry Academia Conclave	IIT, Madras	06.07.2019	-
4.	Workshop on Data Analytics using Statistical Learning with Hands-on in R	Amrita University	6.06.2019	8.06.2019
5.	IITM PALS Entrepreneurial Summit & Valedictory Function	IIT, Madras	16.03.2019	-
6.	Workshop on Artificial Intelligence and Deep Learning	Bennett University with RIT	14.09.2018	16.09.2018
7.	National Level Workshop on Process Automation using Distributed Control System	PSG College of Technology, Coimbatore	10.08.2018	11.08.2018
8.	Faculty Development Training Programme on Signals and Systems	Ramco Institute of Technology	13.06.2018	18.06.2018
9.	Launch and Dedication of D4E club	Anna University, Chennai	8.05.2018	-
10.	International Workshop on Advanced Control System Design	Amrita University, Coimbatore	4.12.2017	5.12.2017
11.	Orientation and Awareness Programme on SAR Preparation for NBA Accreditation	Ramco Institute of Technology	02.12.2017	-
12.	AICTE sponsored FDP on Human Values and Professional Ethics	Ramco Institute of Technology	30.10.2017	12.11.2017
13.	FDTP on RF and Microwave Engineering	Ramco Institute of Technology	12.06.2017	16.06.2017
14.	ISO Orientation Programme	Ramco Institute of Technology	05.06.2017	06.06.2017
15.	Value Added Course on Project Based Learning using Arduino	Ramco Institute of Technology	09.12.2016	13.12.2016
16.	FDP on Introduction to Research	Ramco Institute of Technology	18.11.2016	19.11.2016
17.	Awareness Programme RIT ISO 9001:2015 – QMS Procedures	Ramco Institute of Technology	01.11.2016	-
18.	FDTP on Control Systems	Ramco Institute of Technology	04.06.2016	10.06.2016
19.	National Seminar on Engineering Education and Research	National Instruments, Bangalore	29.03.2016	-
20.	Workshop on Embedded Systems and its Applications	Ramco Institute of Technology	21.12.2015	22.12.2015
21.	Value added course on VLSI Design & Simulation	Ramco Institute of Technology	14.12.2015	18.12.2015

22.	FDP on Training the Trainers	Ramco Institute of Technology	22.06.2015	23.06.2015
23.	NI LabVIEW Software Core 1 & Core 2	Ramco Institute of Technology	15.06.2015	19.06.2015
24.	FDTP on Principles of Digital Signal Processing	Ramco Institute of Technology	03.06.2015	10.06.2015
25.	FDP on “Introspection in Teaching Learning Process”	Ramco Institute of Technology	23.12.2014, 30.12.2014	
26.	IIT-ISTE Workshop on Control Systems	PSG College of Technology	02.12.2014	12.12.2014
27.	Art of Counselling	Ramco Institute of Technology	03.08.2014	-

7. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl. No.	Title of the event	Organized by	Date	
			From	To
1.	Workshop on Sensors for Future Intelligence - Techyuga'19 Symposium	RIT	31.08.2019	-
2.	Workshop on LoRa for Smart Cities - Techyuga'18 Symposium	RIT	31.08.2018	-
3.	Faculty Development Training Programme on Signals and Systems	RIT	13.06.2018	18.06.2018
4.	Value added Course on Internet of Things using RaspberryPi	RIT	30.11.2017	04.12.2017
5.	National Level Technical Symposium - TechYuga'17	RIT	12.08.2017	13.08.2017
6.	Inaugural Function of Centre for Women Welfare, Safety and Progress Club	RIT	24.02.2017	-
7.	Workshop on Internet of Things – Techyuga'16 Symposium	RIT	20.08.2016	
8.	Guest Lecture on “Bio Medical Image Processing” through IETE ISF.	RIT	13.02.2016	-
9.	Workshop on Embedded Systems and its Applications	RIT	21.12.2015	22.12.2015
10.	Inauguration of Technical Association	RIT	23.07.2014	-

8. Expert Lectures delivered :

Sl. No.	Topic	Date	Organization
1.	Lecture on Biot-Savart Law, Magnetic Circuits permeability	11.12.2018	Ramco Institute of Technology

2.	Lecture on Laplace Transforms in Analysis of CT Systems, Systems connected in series/parallel	15.06.2018	Ramco Institute of Technology
3.	Lecture on Self Confidence and Over Confidence	02.11.2017	Ramco Institute of Technology

9. Online Courses

S. No.	Course title	University	Date
1.	MIT : 18.031x Introduction to Differential Equations	Massachusetts Institute of Technology, USA	26.12.2019
2.	MIT : 6.002.3x Circuits and Electronics 3: Applications	Massachusetts Institute of Technology, USA	04.06.2019
3.	MITx – 18.01.3x Calculus 1C: Coordinate Systems and Infinite Series	Massachusetts Institute of Technology, USA	12.05.2019
4.	MIT : 18.03Fx Differential Equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, USA	21.12.2018
5.	MITx – 18.01.2x Calculus 1B: Integration	Massachusetts Institute of Technology, USA	09.03.2018
6.	MITx – 18.01.1x Calculus 1A: Differentiation	Massachusetts Institute of Technology, USA	15.09.2017
7.	MITx: 6.002.2x Circuits and Electronics 2: Amplification, Speed and Delay	Massachusetts Institute of Technology, USA	24.05.2017
8.	MITx: 3.15.1x Electronic Materials and devices	Massachusetts Institute of Technology, USA	01.07.2016
9.	MITx: 6.002.1x Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology, USA	14.05.2016

10. Patents filed/awarded :

S. No.	Application Number	Title	Inventors	Status
1.	201841026151	A Smart Conference Hall Surveillance System using IOT	1. Dr.B.Deepa Lakshmi 2. Ms.M.Padma Sri Swedha 3. Ms.B.Syndia Priyadarshini 4. Ms.K.Vela Iswarya	Published dated 02.08.2019

11. Membership in Professional societies :

The Indian Society for Technical Education (ISTE) - Life Member (LM 101170)

12. Awards, Recognition & Achievements

- Received Certificate of Appreciation for producing 100% result during May 2017
- Received Certificate of Appreciation for Best Class Advisor during the year 2017-18

Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)

Other Duties

1. Class Advisor
2. Project Co-ordinator
3. Class Committee Chair Person
4. Project Review Member
5. NBA co-ordinator of the department
6. Co-ordinator for IETE ISF
7. College co-ordinator for IITM PALS
8. Department Advisory Committee member
9. ISO Internal Auditor
10. Internal Squad Member
11. Discipline Committee Member
12. Convenor for Centre for Women Welfare Safety and Progress Club
13. Deputy Warden - Girls Hostel