

# Dr. R. Jothimurugan

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## EDUCATION DETAILS

DEGREE	SPECIALIZATION	YEAR OF PASSING	CLASS/GRADE	NAME OF THE COLLEGE/UNIVERSITY
B. Sc.	Physics	2006	I – Class / Distinction	Vivekananda College / Madurai Kamaraj University
B. Ed.	Physics	2007	I – Class / Distinction	Sri Ramakrishna Mission Vidyalaya College of Education / Bharathiar University
M. Sc.	Physics	2009	I – Class	School of Physics / Bharathidasan University
Ph. D.	Physics	2016	Highly Commended	Centre for Nonlinear Dynamics / Bharathidasan University

## BOOKS AUTHORED (CHAPTER)

SL. NO.	CHAPTER & BOOK TITLE	YEAR	PUBLISHER(S)
[1]	“Experimental Analogue Implementation of Memristor Based Chaotic Oscillators” – a book chapter published in “Advances in Memristors, Memristive Devices and Systems”	2017	Springer – Verlog

## GUEST LECTURES DELIVERED

1. Delivered a lecture as a resource person in the “National Science Day Celebrations” organized by the Department of Physics, Vivekananda College, Tiruvudagam West, Madurai – 625 234 on 08<sup>th</sup> March 2022.

2. Delivered a lecture as a resource person in the IQAC initiated virtual programme on “Way to IITs – JAM 2022” organized by ‘The Entry into Services Cell’, St. John’s College, Palayamakottai on 07<sup>th</sup> October 2021.
3. Delivered a lecture as a resource person in the topic of “Post Graduation and Job Opportunities after Graduation” on 16<sup>th</sup> September 2021 at the “Professional Training Programme” organized virtually by Sathyabama University held during 13 – 29, September 2021 in association with tencityhr Ltd.
4. Conducted one day workshop on “e-Content Development” to the in-house Faculties on 11<sup>th</sup> August 2021 organized by IQAC, G.T.N. Arts College (Autonomous), Dindigul.
5. Delivered a lecture as a resource person in the Faculty Development Programme on “Current Trends in Physics” funded by UGC-CPE Grant, New Delhi organized by the Department of Physics, Vivekananda College, Tiruvedagam West, Madurai – 625 234 on 19<sup>th</sup> March 2021.
6. Delivered a lecture as a resource person in the “Five Day Online Programme on Skill Development using Learning Assistance Tools” organized by the PG and Research Department of Physics (Under DBT Star College Scheme), Jamal Mohammed College (Autonomous), Tiruchirappalli during the period 13.07.2020 to 17.07.2020.
7. Delivered a lecture as a resource person in national webinar on “Career Opportunities for Physics Students After the Graduation” organized by the Department of Physics, Vivekananda College, Tiruvedagam West, Madurai – 625 234 on 22<sup>nd</sup> June 2020.  
This event attracted more than 1.9k views in Youtube live stream.
8. Delivered a lecture as a resource person in the “Summer Online Training Programme on Latex” organized by the PG and Research Department of Physics (Under DBT Star College Scheme), Jamal Mohammed College (Autonomous), Tiruchirappalli during the period 15.06.2020 to 19.06.2020.
9. Delivered a lecture as a resource person in the one-day workshop and Hands on Training in “PSIM and MULTISIM SIMULATIONS” organized by Physics Research Centre, St. John’s College, Palayamkottai - 627 002 during 19th January 2019.
10. Delivered a lecture as a resource person in the one-day workshop on “LATEX” jointly organized by the departments of Physics and Mathematics, Dr. SNS Rajalakshmi college of arts and science, Coimbatore - 641 049 during 2nd February, 2018.
11. Delivered a lecture as a resource person in the National Conference on Current advancement in Physics held at St. Johns College, Palayamkottai during 3<sup>rd</sup> and 4<sup>th</sup> February 2017.

## **SUBJECTS HANDLED**

- ❖ Engineering Physics – I & II
- ❖ Medical Physics
- ❖ Ancillary Physics I, II, III & IV
- ❖ Engineering Practicals
- ❖ Ancillary Physics Practicals – I & II

## **PAPERS PRESENTED / PUBLISHED**

### **1. Journal Publications**

1. Ronilson Rocha, R. Jothimurugan & K. Thamilmaran, “Memristive oscillator based on Chua’s circuit; Stability analysis, hidden dynamics”, Nonlinear Dynamics 88(4) [11pages] 2577-2587 (2017).
2. R. Jothimurugan, K. Thamilmaran, S. Rajasekar & M. A. F. Sanjuan, “Multiple and antiresonance in the coupled Duffing oscillators” Nonlinear Dynamics 83(4) [12pages] 1803-1814 (2015).

3. R. Jothimurugan, K. Suresh, P. Megavarna Ezhilarasu & K. Thamilmaran, "Improved realization of canonical Chua's circuit with synthetic inductor using current feedback operational amplifiers", *Int. J. Elect. & Commun.* 68(5) [9pages] 413-421 (2014).
4. R. Jothimurugan, K. Thamilmaran, S. Rajasekar & M. A. F. Sanjuan, "Vibrational resonance and Enhanced signal transmission in the Chua's circuits" *Int. J. Bifur. & Chaos* 23(11) 1350189 [12pages] (2013).

## **2. National / International Conferences**

### **2.1 International Conferences**

1. Presented a poster in the international conference, "Dynamics Day Asia-Pacific 08 (DDAP08)" jointly organized by Indian Institute of Technology, Chennai, Tamilnadu and the Institute of Mathematical Sciences Chennai, Tamilnadu during 21-24, July 2014.
2. Presented a paper in the 3rd International Symposium on "Complex Dynamical Systems and Applications (CDSA III)" held at Indian Statistical Institute, Kolkata, West Bengal during 10-12, March 2014.
3. Presented a poster in the 19th IEEE Workshop on "Nonlinear Dynamics of Electronic Systems" held at Indian Institute of Chemical Biology, Kolkata, West Bengal during 8-11, March 2011.
4. Presented a poster in the International Symposium on "Complex Dynamical Systems and Applications (CDSA 2009)" held at Digha Science Center, West Bengal, India during 4-6, December 2009.

### **2.2 National Conferences**

1. Presented talk in the UGC-Autonomy grant sponsored National Conference on "Recent Advances in Material Science (RAMS-2019)" held at GTN Arts College Dindigul on 12th March 2019.
2. Presented a talk in the UGC-Autonomy grant sponsored national conference on "Recent trends in solar energy and nanoscience(SENS-2019)" held at GTN Arts College Dindigul on 8th March 2019.
3. Presented talk in the national conference on "Dynamics of Asymmetrically coupled Piecewise Linearized BVP Oscillators" held at Faculty of Arts and Science AV Campus Chennai, Tamilnadu during 1-2 March 2019.
4. Presented a talk in the UGC sponsored National Seminar on "Advances in Nonlinear Dynamics" held at St. Xavier's College of Arts and Science, Palayamkottai, Tamilnadu during 6-7, March 2015.
5. Presented a talk in the Conference on "Nonlinear Systems and Dynamics (CNSD15)" held at Indian Institute of Science Education and Research (IISER), Mohali, Punjab during 13-15, March 2015.
6. Presented a demonstration session in the Two Days Workshop at North-East India on "Nonlinear Dynamics and Application" held at Tejpur University, Tejpur, Assam during 14-15, March 2014.
7. Presented a short talk in the 8th Conference on "Nonlinear Systems and Dynamics" held at Indian Institute of Technology, Indore, Madhya Pradesh during 11-14, December 2013.
8. Presented a poster in the National Seminar on "Perspectives of Nonlinear Dynamics (PNLD 2010)" held at Indian Institute of Science, Bangalore, Karnataka during 29-29, July 2010.

## **2.3 Workshop Participation**

1. Participated in the national workshop on “Characterization Techniques” (Hands-on training) organized by Sri.S.Ramasamy Naidu Memorial College, Sattur during 2-3 January 2020.
2. Participated in the national workshop on “Art of writing research paper and publishing in high reputed journals” catalyzed and supported by Tamilnadu state council for science and technology Chennai organized by G.T.N Arts College, Dindigul held on 4th November 2019.
3. Participated in the national workshop on “Outcome Based Education-A Paradigm Shift” organized by the internal quality assurance cell of G.T.N Arts College, Dindigul on 27th June 2019.
4. Participated in the CSIR sponsored One Day Workshop on “Functional Materials and its Applications” organised by the Department of Physics, Karpagam College of Engineering, Coimbatore during 23rd February 2018.
5. Participated in the Two-Day National Workshop on “Ecopreneurship: Scope and Opportunities in Green Energy Technologies (EGET)” organised by the Department of Environmental Management, Bharathidasan University on 2nd and 3rd February 2016.
6. Participated in the International Workshop on “Correlated Materials” held at Bharathidasan University, Tiruchirappalli, Tamilnadu on 20th January 2015.
7. Participated in the NMI Workshop on “Nonlinear Integrable Systems and their Applications” held at Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli, Tamilnadu during 24th February - 1st March 2014.
8. Participated in the UGC sponsored National Workshop on “Electronic circuit design and PCB Fabrication held at Centre for Instrumentation and Maintenance Facility (CIMF), Periyar University, Salem, Tamilnadu during 27-28, March 2012.
9. Participated in the IMI Workshop on “Networks: Science and Functions” held at Indian Institute of Science, Bangalore, Karnataka during 4-5, November 2011.

## **HONORS AND AWARDS**

- ❖ Served as Head, PG Department of Physics (SSP) since 20.01.2019, and Assistant Controller of Examinations since 01.06.2019 to 17.11.2022.
- ❖ Awarded UGC-BSR sponsored Research Fellowship in Science for Meritorious Students in the form of JRF for the period July 2010 to June 2012 then SRF for the period July 2012 to June 2015 (Totally for 5 years).
- ❖ Secured First Rank with Gold Medal in the college level during B.Ed., course in the year 2006-2007 & Best-Behaved Student of the Batch Award at UG Programme during the year 2003- 2006.

## **ANY OTHER INFORMATION**

- ❖ Performed as a Judge for the District level show casing of the project name SCOPE (Specific Concept Oriented Project Experience) conducted by Department of School Education, Dindigul District, Tamilnadu held on 23<sup>rd</sup> March 2019 at Government Boys Higher Secondary School, Dindigul.
- ❖ Participated in the six days programme on “Faculty Focus”-a faculty development programme organized by PSNA college of Engineering and Technology, Dindigul - 624 622 during 16-21, April 2018.
- ❖ Appointed as Chief Invigilator for the Chartered Accountant Examinations conducted in the G.T.N. Arts College during the seasons: November 2020, January 2021, July 2021, December 2021 and May 2022.