



DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Name : Dr. R.Ramya
 Designation : Assistant Professor
 Email : ramya.ece@sairamit.edu.in
 Qualification : Ph.D
 Specialization : Optical Communication



Research Interest : Communication and Signal Processing

Experience in years : Teaching UG PG Industry

Number of workshops, conferences and FDP attended: Workshops Conferences FDPs

Number of workshops, conferences and FDP conducted: Workshops Conferences FDPs

Professional Membership	Lifetime member in IETE (AM-221219), National Digital Library (NDL) Membership
Publications	National : 1
	International: 3
	Book of Abstracts: 1
Research Funded Projects	-
Patents	-
Achievements	<ul style="list-style-type: none"> Reviewed Elsevier's Optics Communications International Journal Obtained 100% result in Digital Signal Processing
Any Other Information	Obtained NPTEL Online certification course

	<ul style="list-style-type: none"> • Optical Wireless Communications for Beyond 5G Networks and IoT from Jan-Apr 2023 (12 week course)- ELITE with Silver Certification • Op-Amp Practical Applications: Design, Simulation and Implementation from Jan-Apr 2023 (12 week course)- ELITE Certification • Digital Circuits from July-Oct 2021 (12-week course) - ELITE Certification
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List of Publications:

International Journals:

1. Ramya, R and Piramasubramanian, S, ‘Effect of Franz-Keldysh absorption on short optical pulse generation in Transistor Laser’, Optics Communications, Elsevier, vol. 474, article number.126087, May (2020), Impact Factor: 2.125, SCI Indexed. (<https://www.sciencedirect.com/science/article/abs/pii/S0030401820305046>)
2. Ramya, R, Piramasubramanian, S, Ganesh Madhan, M & Rebecca, D, ‘Effect of Collector Voltage on the Large and Small Signal Modulation Characteristics of 980 nm Transistor Laser’, Defence Science Journal, vol. 70, no. 5, pp. 529-533, Oct(2020), Impact Factor: 0.667, SCI Indexed. (<https://publications.drdo.gov.in/ojs/index.php/dsj/article/view/16341>)
3. R. Ramya, S.Piramasubramanian, M.Ganesh Madhan, ‘Influence of Franz Keldysh effect on the modulation depth and distortion characteristics of transistor laser’, Applied Physics B, Springer, vol. 130, article no. 95, pp. 1-11, May(2024), Impact Factor: 2.1, SCI Indexed. (<https://link.springer.com/article/10.1007/s00340-024-08224-x>)

International Conference

1. R.Ramya, Piramasubramanian, S, Ganesh Madhan, M & Rebecca, D 2020, ‘Effect of Collector Voltage on the Large and Small Signal Modulation Characteristics of 980nm Transistor Laser’, presented Poster Paper in the International Conference on Emerging Advancement in Science and Technology and 10th India-Japan Science & Technology Conclave, held from 05-09-2019 to 06-09-2019 at Manekshaw Centre, New Delhi, India.

National Conference

1. R.Ramya, S.Vasudevan, "Performance Evaluation of Routing Protocol in MANETS" presented in a National level conference on Recent trends in Science and Technology, organized by Dr.M.G.R. Educational and Research, India from 26- May-2005 to 27- May-2005.

Book of Abstracts:

1. R.Ramya, S.Piramasubramanian and M.Ganesh Madhan , "Numerical Analysis of Modulation and Pulse Generation Characteristics of Transistor Laser", pp :223-228 (6 pages), 32nd DAE-BRNS National Laser Symposium (NLS-32) January 29 - February 1, 2024, organized by Raja Ramanna Centre for Advanced Technology (RRCAT), Indore - 452013, Madhya Pradesh.

Workshop Organized:

Organized Advanced Optical Communication (AOC) Outreach programme "Workshop on Optical Communications", from 18-22, December 2023 at Raman Hall, IIT Research Park, Tharamani, Chennai.

Conference attended:

Participated 3rd International Conference on Signal Processing, Communications and Networking conducted by IEEE and organized by Madras Institute of Technology, India 2015

FDP attended:

1. Completed **NPTEL online certification course on "Optical Wireless Communications for Beyond 5G Networks and IoT"** from Jan-Apr 2023 (12 week course)- **ELITE with Silver Certification**
2. Completed **NPTEL online certification course on "Op-Amp Practical Applications: Design, Simulation and Implementation"** from Jan-Apr 2023 (12 week course)- **ELITE Certification**
3. **FDP** on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 12-July-2021 to 16-July-2021.
4. Participated in online **faculty and student development programme** on the Role of Science and Spirituality for a Harmonious and Fulfilling Human Community organized by Research Foundation of India and St. Paul Institute of Professional Studies, Indore from 15th -19th March 2021.
5. Participated in **faculty development programme** (online) on Information Security and Privacy sponsored by ISEA-II organized by Motilal Nehru National Institute of

Technology, Uttar Pradesh during 10th -14th March 2021.

6. Participated online two days **Faculty Development Training Programme** on advanced C++ organized by VIT, Chennai on 13-14 May 2020.
7. Participated online **Faculty Development Programme** on “Machine Learning for Signal Processing”, held on 19-May-2020 to 23-May-2020, organized by Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering.
8. Attended National level Short Course on "**Faculty Development and Training Programme** on Signals and Systems" organized by Madras Institute of Technology, India from 28- May- 2014 to 03-Jun-2018.

Workshop attended:

1. Completed **NPTEL online certification course on “Digital Circuits”** from July-Oct 2021(12-week course)- **ELITE Certification**.
2. Attended one day **workshop** on Pedagogy held at MIT Campus, Anna University on 26th June 2019.
3. Participated National level **workshop** on “Recent Trends in Photonics & Hands on Training using Optsim”. Organized by Department of Electronics and Communication Engineering, IFET College of Engineering held on 07-June- 2019 and 08-June-2019.
4. Attended one day orientation programme for Young Teachers **workshop** on 13- Feb- 2019, at MIT campus, Anna University.
5. Participated in National level **workshop** on "Programming Embedded System" organized by Madras Institute of Technology, India from 09th -10th March-2018.
6. Participated in **workshop** on “Modelling and Simulation of Next generation optical communication and Networks”, held on 01-Dec-2017 and 02-Dec- 2017, organized by Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Kattankulattur, Tamilnadu, India.
7. Participated **workshop** on “Advance Java Programming” organized by HCL CDC unit of HCL Info Systems Ltd, held on 19-July-2012.
8. Attended **workshop** on "Digital Image processing using MATLAB", held on 23-Nov- 2012, organized by Department of Electronics and Communication Engineering, Panimalar Institute of Technology, India.
9. Participated in National **workshop** on “MATLAB and its applications" held on 07- 05- 2007 to 11-05-2007, organized by Department of Electronics and Communication Engineering, SSN Engineering College, India.

Webinar Attended:

1. Attended online one day webinar on “Machine Learning Model Using Linear Regression Algorithm”, organized by SRM Easwari Engineering College on 18-May-2020.
2. Attended online one day Technical webinar on “Distributed power sensing for Real-Time Power line monitoring for Raman scattering in optical fibers” by IIT Madras on 16-May 2020.

Invited Lectures:

1. Delivered a lecture on “Control System Engineering”, on 26-Sep-2018, organized by Loyola Institute of Technology, Nazarethpet.
2. Delivered a lecture on “Linear Integrated Circuits”, on 28-Feb-2018, organized by St. Joseph College of Engineering, Sriperumbudur.
3. Delivered a lecture on “Semiconductor Lasers”, on 04- Aug-2014 organized by Anna University Regional Centre, Coimbatore.