

Department: Physics
UCE- campus name: Villupuram
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Dr.T.Geethakrishnan
AssistantProfessor

➤ **Research Area:** Nonlinear Optics & Materials, Nanophotonics, Laser Technology.

➤ **Educational Qualifications:**

Educational Qualifications	Institution	Year (From -To)	Class
Ph.D (Physics) (Full-time)	Department of Physics, CEG campus, Anna University, Chennai-600025	2001-2006	By Research
M.Sc (Physics)	AyyaNadarJanakiAmmal College, Sivakasi-626124 (Madurai Kamaraj University)	1996-1998	First
B.Sc (Physics)	SivanthiAditanar College, PillayarPuram, Nagercoil-629501 (Manonmaniam Sundaranar University)	1993-1996	First

➤ **Experience:**

Name of Company / Institutions	Designation of Post	From <u>DD-MM-YYYY</u>	To <u>DD-MM-YYYY</u>	Relived on	Experience
University College of Engineering, Villupuram-605103	Assistant Professor	18-12-2009	Till date	-	10 years
VIT University, Vellore-632014	Assistant Professor	20-07-2007	17-12-2009	17-12-2009	2.5 years
Inha University, Incheon, South Korea	Post Doctoral Fellow	01-12-2006	28-02-2007	-	3 months
Department of Physics, Anna University, Chennai-600025	Project Fellow (AICTE funded R&D Project)	01-09-2002	30-08-2004	-	2 years
					15 years

➤ **Awards/Recognition**

1. Korea Science and Engineering Foundation (KOSEF) Fellowship through Indian National Science Academy (INSA) for the year 2007.
2. Recognized supervisor for guiding Ph.D and M.S. (By Research) scholars of Anna University.
3. Reviewer for Journal of Physics and Chemistry of solids (Elsevier)
4. Reviewer for Journal of Molecular Liquids (Elsevier)
5. Reviewer for Modern Physics Letters B, (Worldscientific)

➤ **Additional / Academic Responsibilities at University:**

1. Nodal Officer for UCEV (Zone XXI, Villupuram, Anna University) from August 2018-2019
2. NSS programme officer in University College of Engineering Villupuram during August 2012 to August 2015.
3. Library i/c. in University College of Engineering Villupuram during August 2012 to September 2014.
4. Verification officer for affiliation Inspections, Anna University of Technology.
5. Chief-superintendent i/c/Anna University Examinations
6. Class Advisor in University College of Engineering Villupuram during August 2010 to Till date.
7. Tamilnadu Engineering Admissions TNEA-2018 (TFC-40, University College of Engineering, Villupuram) Team member.
8. Chief-superintendent/TNPSC examinations.

➤ **Professional Activities:**

1. Doctoral Committee member for Ph.D research scholars of Anna University.
2. Doctoral Committee member for Ph.D research scholars of VIT University.

3. Monitoring committee member for M.S. (By Research) scholars of Anna University.
4. Project fellow selection committee member, Department of Physics, University College of Engineering, Arni, Tamilnadu.
5. Reviewer for District level Science Exhibitions, Department of School Education, Villupuram District, Tamilnadu. (02-09-2010).

➤ **Membership of Scientific and Professional Societies:**

1. Indian Laser Association (Life membership No.806)
2. Photonics Society of India (Life membership No.114)
3. Magnetics Society of India (Life membership No.417)

➤ **Fellowships and Grants:**

➤ **Completed B.E/M.E /M.ScProjects:**

- a. Number of ME Projects Guided: Nos
- b. Number of BE Project Guided: Nos
- c. Number of M.Sc. Project Guided: 2 (two) (School of Advanced Sciences, VIT University, vellore-632014)

➤ **PhD Research Guidance (Awarded):** 1 (one)

1. Candidate name: S. Jeyaram
Registration number: 1314799136(part-time)

Title of the thesis: “Study of Third-order Nonlinear Optical Properties of Anthraquinone Dyes and Their Optical Limiting Responses Using Low Power Diode Laser”

Date of viva-voce examination: 18-06-2018

➤ **PhD Research Guidance (Ongoing):** 2 (two)

1. Candidate name: S. Hemalatha

Registration number: 17247997122(Full-time)

2. Candidate name: B. Rajagopalan
Registration number: 17157997142(part-time)

➤ **Sponsored Research Activities:**

PROJECT NAME (to be submitted)

Duration: ___ Years

Role: _____

Agency : _____

Amount:_____

➤ **Consultancy Activities:**

NIL

PROJECT NAME

Duration: ___ Years

Role: _____

Agency : _____

Amount:_____

➤ **List of Seminar / Short Term Course / FDP/ Workshop attended: (Within India)**

1. Two week FDP on “PH8251 Materials Science” organized by Crystal Growth Centre, Anna University, Chennai-25 from 21-01-2019 to 02-02-2019.
2. Two days National workshop on “VRAR for 360 Media Preparation- Virtual Reality and Augmented Reality” conducted by University College of Engineering Villupuram by Department of Information Technology from 09-04-2018 to 10-04-2018.
3. FDP (FDP101x) on Foundation Program in ICT for Education conducted by IIT, Bombay from March 8, 2018 to April 12, 2018.
4. FDTP on “Entrepreneurship Development” organized by Centre for Entrepreneurship Development (CED), Anna University during 13-02-2018 to 23-02-2018.
5. “International Conference on Engineering Materials and Renewable Energy” organized by Department of Chemistry, University College of Engineering, Villupuram, Tamilnadu, India, during 04-01-2018 to 05-01-2018.
6. “FDP on Smart materials and Fuel Efficient Technologies for Automotives” organized by Department of Manufacturing Engineering & Department of Mechanical Engineering, Annamalai University, Chidambaram, during 11-12-2017-24-12-2017.

7. One day workshop on “Intellectual Property Rights and Innovation” organized by University College of Engineering, Villupuram, during 18-01-2018.
8. FDTP on “Circuit Analysis” organized by University College of Engineering, Villupuram, during 01-12-2017-07-12-2017.
9. “National level Technical Symposium Agnimithra-2016 organized by University College of Engineering Villupuram, during 05-03-2016 to 06-03-2016.
10. Workshop on “Hands on Training in mobile Application Development” in Association with CIPR, Anna University and organized by Department of Information Technology, University College of Engineering Villupuram during 04-03-2016 to 05-03-2016.
11. “National Workshop on Recent Advances in Engineering Materials” organized by Department of Chemistry, University College of Engineering Villupuram during 26-02-2016.
12. “International Workshop on Preparation of Technical articles & Research Proposals” organized by, University College of Engineering Villupuram during 04-01-2016.
13. “BRIDGE COURSE organized by Department of Physics, Anna University during 26-06-2015 to 27-06-2015.
14. “BRIDGE COURSE organized by Department of Physics, Anna University during 25-06-2014 to 26-06-2014.
15. “Orientation course for NSS Programme officers” organized by NSS cell, Anna University during 12-08-2013.
16. UGC sponsored “Orientation course”, organized by Academic Staff College, Pondicherry University during 03-07-2013 to 30-07-2013.
17. “FDTP on Engineering Physics-II” organized by Department of Physics, Anna University during 02-01-2013-08-01-2013.
18. “National level Technical Symposium Agnimithra-2012 organized by University College of Engineering Villupuram, during 01-03-2012 to 02-03-2012.
19. “Workshop on How to Prepare Research Proposal” organized by University College of Engineering Villupuram during 06-08-2011.

20. Faculty Development Programme (FDP) on “Team building, Time management, Mind mapping, Conflict management, Interpersonal relationship skills”, organized by Academic Staff College, VIT University, Vellore, during 09-02-2009 to 11-02-2009.
21. Training Orientation Programme (TOP) on “Powerful communication skills, Evaluation, Meaning of direct verbs, Examination system at VIT, Quality through motivation”, organized by Academic Staff College, VIT University, Vellore, during 08-01-2008 to 23-01-2008.
22. Faculty Induction Training (FIT) Programme organized by Academic Staff College, VIT University, Vellore, during 02-07-2007 to 05-07-2007.
23. Faculty Development Programme (FDP) on “Personal Enhancement”, organized by Academic Staff College, VIT University, Vellore, during 03-10-2009.
24. Faculty Development Programme (FDP) on “Classroom Management”, organized by Academic Staff College, VIT University, Vellore, during 08-10-2009 to 09-10-2009.
25. “Symposium on Nonlinear Optical Crystals and Modeling in Crystal Growth”, organized by Department of Physics, Anna University, during 28-02-2005 to 01-03-2005.

➤ **International Conferences/workshop Participated:**

1. Quantum optics workshop, Muju Resort, South Korea during 10-01-2007 to 12-01-2007,

➤ **Publications :**

a. **Books:** (International)

1. Title: Optical Phase Conjugation Studies In Dye-doped Gelatin Films, Lambert Academic Publishing

ISBN-13: 978-3659813061

ISBN-10: 3659813060

b. International Journals:

1	Journal Name: Optics & Laser Technology (Elsevier) Paper Title: "Linear and nonlinear optical properties of chlorophyll-a extracted from Andrographis paniculata leaves" Vol., No. :116 Pages : 31-36 Year : 2019 Author(s) : S. Jeyaram, T.Geethakrishnan
2	Journal Name: Journal of Molecular Structure (Elsevier) Paper Title : " Spectroscopic investigations using density functional theory on 2-methoxy-4 (phenyliminomethyl) phenol: A non linear optical material" Vol., No. : 1155 Pages : 249-259 Year : 2018 Author(s) : KM Hijas, SM Kumar, K Byrappa, T Geethakrishnan , S Jeyaram, R. Nagalakshmi
3	Journal Name: Journal of Materials Science: Materials in Electronics (springer) Paper Title: "Low power laser induced NLO properties and optical limiting of an anthraquinone dye using Z–scan technique" Vol., No. : 28 (13) Pages : 9820-9827 Year : 2017 Author(s) : S. Jeyaram, T.Geethakrishnan
4	Journal Name: Optics & Laser Technology (Elsevier) Paper Title: "Third-order nonlinear optical properties of acid green 25 dye by Z–scan method" Vol., No. : 89 Pages : 179-185 Year : 2017 Author(s) : S. Jeyaram, T.Geethakrishnan
5	Journal Name: Optics Communications (Elsevier) Paper Title: "Triphenylmethane dye-doped gelatin films for low-power optical phase-conjugation" Vol., No. : 335 Pages : 218-223 Year : 2015 Author(s) : T.Geethakrishnan , P. Sakthivel, P.K. Palanisamy
6	Journal Name: Optics Communications (Elsevier) Paper Title: "Z-scan determination of the third-order optical nonlinearity of a triphenylmethane dye using 633 nm He–Ne laser" Vol., No. : 270 Pages : 424-428 Year : 2007 Author(s) : T.Geethakrishnan , P.K. Palanisamy

7	Journal Name: Optik-International journal for Electron Optics (Elsevier) Paper Title: "Degenerate four-wave mixing experiments in Methyl green dye-doped gelatin film" Vol., No. : 117 Pages : 282-286 Year : 2006 Author(s) : T.Geethakrishnan , P.K. Palanisamy
8	Journal Name: Applied Physics B: Lasers and Optics (Springer) Paper Title: "Optical phase conjugation and double-exposure phase-conjugate interferometry in dye-doped thin film using He-Ne laser" Vol., No. : 82 Pages : 169-172 Year : 2006 Author(s) : T.Geethakrishnan , P.K. Palanisamy
9	Journal Name: Journal of Modern Optics (Taylor & Francis) Paper Title: "Optical phase-conjugation studies in Acid blue 9 dye-doped gelatin film using low-power He-Ne laser" Vol., No. : 53 Pages : 1131-1139 Year : 2006 Author(s) : T.Geethakrishnan , P.K. Palanisamy
10	Journal Name: Modern Physics Letters B (World scientific) Paper Title: "Low-power conjugate interferometry (double-exposure) in dye-doped gelatin film using optical phase-conjugation" Vol., No. : 20 Pages : 245-252 Year : 2006 Author(s) : T.Geethakrishnan , P.K. Palanisamy
11	Journal Name: American Journal of Applied Sciences (Science publications) Paper Title: "Demonstration of optical phase-conjugation in methyl green dye-doped thin film" Vol., No. : 2 Pages : 1228-1231 Year : 2005 Author(s) : T.Geethakrishnan , P.K. Palanisamy

c. National Journals:

1	Journal Name: Physics Education (IAPT-Indian Association of Physics Teachers) Paper Title: "Dye-doped gelatin films for phase-conjugation studies in undergraduate optics laboratory"
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	Vol., No. : 30 Pages : Number 1, Article.6 Year : 2014 Author(s) : T.Geethakrishnan , P.K. Palanisamy
2	Journal Name: Pramana- Journal of Physics (Springer) 2Paper Title: "Optical phase-conjugation in erioglaucone dye-doped thin film" Vol., No. : 66 Pages : 473-478 Year : 2006 Author(s) : T.Geethakrishnan , P.K. Palanisamy
3	Journal Name: Current Science (Springer) Paper Title: "Generation of phase-conjugate wave in acid blue 7 dye-doped gelatin film" Vol., No. : Pages : 1894-1898 Year : 2005 Author(s) : T.Geethakrishnan, P.K. Palanisamy
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d. CONFERENCES

a. International Conferences:

1. "Third-order NLO properties of dye-doped polymer film using Z-scan technique" International Conference on Engineering Materials and Renewable Energy" Department of Chemistry, University College of Engineering, Villupuram, Tamilnadu, India, during 04-01-2018 to 05-01-2018.

b. National Conferences:

1. "Observation of optical limiting in disperses blue 14 dye",S. Jeyaram, **T. Geethakrishnan**, "2nd National Conference on Materials Science and its Future Prospects", University College of Engineering, Villupuram, Tamilnadu, 01-03-2017.
2. "Study of third-order nonlinear optical properties of reactive blue 4 dye using Z-scan technique" S. Jeyaram, **T. Geethakrishnan**, DAE BRNS National Laser Symposium-25., KIIT University, Bhubaneswar, India during 20-12-2016 to 23-12-2016.

3. "Third-order nonlinear optical properties of acid green 25 dye by Z-scan method" , S. Jeyaram, **T. Geethakrishnan**, National workshop on recent advances in engineering materials, Department of Chemistry, University College of Engineering, Villupuram, Tamilnadu, India during 26-02-2016.
4. "Optical limiting properties of acid blue 19 dye", S. Jeyaram, **T. Geethakrishnan**, "International Conference on Advances in Mechanical Engineering" University College of Engineering, Villupuram, Tamilnadu,India during 15-10-2015 to16-10-2015.

a. Seminar/invited talks

1. FDP talk on "Engineering Physics-1(PH6151), University College of Engineering, Arni, Tamilnadu, 12-05-2016.
2. FDP talk on"Semiconducting materials and applications", University College of Engineering, Tindivanam, Tamilnadu, 15-12-2014.
3. Invited talk on "Characterization of nonlinear optical crystals- second and third-harmonic generation, First National Seminar on Advanced Materials, PSN College of Engineering and Technology, Tirunelveli, Tamilnadu, 27-08-2009.

Date: 06.09.2019

Place: Villupuram

T.Geethakrishnan,