

Faculty Profile



Name : Dr. P. Peula Kumari
Designation : Associate Professor
Address : Department of Physics,
Chikkanna Government Arts College,
Tirupur – 641602.
Number : +91-9003930927
Email ID : peulakumari@gmail.com
Date of Joining in Collegiate Education : 09/07/2009
Date of Joining in the Present College : 15/07/2010
Academic Profile :

Degree	Institute/College	University	Period
B.Sc.	Sharadha Niketan College of Science for Women, Karur.	Bharathidasan university, Tiruchirappalli.	1988 - 1991
B.Ed.	Bharathiar University (Distance Education)	Bharathiar University, Coimbatore.	1992 - 1993
M.Sc.	Bishop Heber College, Tiruchirappalli.	Bharathidasan University, Tiruchirappalli.	1993 - 1995
M.Ed.	Annamalai University (Distance Education)	Annamalai University, Chidhambaram.	1998 - 1999
M.Phil.	Coimbatore Institute of Technology, Coimbatore.	Bharathiar University, Coimbatore.	2002 - 2005
Ph.D.	Avinashilingam Institute of Home Science and Higher Education for Women University, Coimbatore.	Avinashilingam Institute of Home Science and Higher Education for Women University, Coimbatore.	2010 - 2016

Teaching Experience :

i) **Total** : 14 Years 7 Months
ii) **UG** : 14 Years 7 Months
iii) **PG** : 14 Years 7 Months

Name of the college	Position held	Period
Government Arts College, Udumelpet.	Assistant Professor	09/07/2009 – 15/07/2010 (FN)
Chikkanna Government Arts College, Tirupur.	Assistant Professor	15/07/2010 (AN) – till date

Field of Interest

- i) **Teaching** : Nuclear Physics, Atomic Physics
ii) **Research** : Solar cell Materials and Nano Materials
iii) **Proficiency in Instrumentation** : General Physics Laboratory Equipment's – Operation and Maintenance

Research Guidance:**Guidance Number**

: 3 (M.Phil.) Completed

(If have more than one university, given them against university name)

S. No	M.Phil/ Ph.D	Name of the Student	Title of the Thesis	Completed/ ongoing
1	M.Phil.	Renugadevi M	Structural and optical characterization of zeolite powder synthesized by sol-gel technique.	Completed
2	M.Phil.	Saradha B	Effects of 2-tilt and astigmatism aberration of the hermite and hypergeometric Gaussian beam propagating in the turbulent atmosphere.	Completed
3	M.Phil.	Catherina C Merlin	A study on methyl ammonium lead iodide perovskite material for solar cell applications	Completed

Research Publications

:

i) **Research Papers**

: Refer Annexure – I

National and International Conferences : Refer Annexure – IIi) **Participated**ii) **Paper Presented**iii) **Poster Presented****Workshop attended**

: Refer Annexure - III

Faculty Development Programs Attended

:

Course	University/Institute	Subject	Period
Orientation Course	University of Madras, Chennai	Intensive training programme	09/07/2009 – 05/08/2009
Refresher Course	Bharathiar University, Coimbatore	Physics	09/06/2011 – 29/06/2011
Refresher Course	University of Madras, Chennai	Nano Science	17/11/2015 – 07/12/2015
Refresher Course	Madurai Kamaraj University, Madurai	Gender studies	18/12/2018 – 07/01/2019
Refresher Course	Bharathiar University, Coimbatore	Physics	22/01/2022- 04/02/2022

FDP	Coimbatore Institute of Technology, Coimbatore	Advanced Engineering Materials	03/11/2014-09/11/2014
FDP	Coimbatore Institute of Technology, Coimbatore	Synthesis, Characterization and application of bio materials	20/07/2015 – 24/07/2015
Short Term Course	Coimbatore Institute of Technology, Coimbatore	Nanomaterials and Their Applications	02/05/2016-08/05/2016
FDP	Coimbatore Institute of Technology, Coimbatore	Advanced Characterization Techniques	18/02/2019-24/11/2019

Academic Activities

:

- i) Subject Handled** :
1. Heat and Thermodynamics
 2. Properties of matter and mechanics
 3. Optics
 4. Electricity and Magnetism
 5. Atomic Physics and spectroscopy
 6. Nuclear Physics
 7. Solid State Physics
 8. Allied Physics
 9. Electro Magnetic Theory
 10. Experimental Technique and Data Analysis
 11. Communication Electronics
 12. Introduction to Astronomy, Astrophysics Cosmology

ii) Class Advisor : -

iii) Special Coaching : Remedial coaching

iv) Student Community Beneficial Activities : Youth Red Cross and Red Ribbon Club Coordinator

Professional Activities

:

Examiner/Scrutiny

: Examiner for UG and PG boards in Bharathiar University, Coimbatore.

National/ International Collaborators

: Department of Physics
Coimbatore Institute of Technology
Coimbatore 641 014.

Annexure – I
List Publications

1. **Peula Kumari, Ponnaian** and Rachel Oommen, and Senthil Kumaran, Chinna Kannaiyan and Thambidurai, Mariyappan and Muthukumarasamy, Natarajan and Agilan, Santhanam, Synthesis and Characterization of Fe and Fe₂O₃ Nanoparticles, 678, 46-49, 2013, Advances in Nanoscience and Nanotechnology, doi: 10.4028/www.scientific.net/AMR.678.46
2. **Peula Kumari Ponnaian**, Rachel Oommen, Senthil Kumaran Chinna Kannaiyan, Santhanam Jayachandran, Muthukumarasamy Natarajan, Agilan Santhanam, Synthesis and Characterization of Iron Nanoparticles for Biological Applications, J. Environ. Nanotechnol. Volume 4, No.1 pp. 23-26, 2015. doi:10.13074/jent.2015.03.151145
3. **Peula Kumari Ponnaian**, Rachel Oommen, Senthil Kumaran Chinna Kannaiyan, Santhanam Jayachandran, Muthukumarasamy Natarajan, Agilan Santhanam, Synthesis and Characterization of Silver Nanoparticles for Biological Applications, J. Environ. Nanotechnol. Volume 4, No.1 pp. 60-64, 2015. doi:10.13074/jent.2015.03.151145
4. M. Dinesh, **P. Peula Kumari**, V. Rukkumani, K. Srinivasan, Effect of Sn⁴⁺ ions SnO₂ site on structural, optical and magnetic behavior of tin oxide nanoparticles, International Journal of Nanoscience, 26(2), pp. 1850045-1-9, 2019.
5. Priyadharsini Arumugam, Saravanakumar Masan, Rukkumani Venkatachalam, **P. Peulakumari**, Structural, Optical and Magnetic Properties of Cr doped SnO₂ nanoparticles by precipitation method Journal of Xidian University VOLUME 14 ISSUE 8 2020 ISSN No:1001-2400
6. Priyadharsini Arumugam, Saravanakumar Masan, Rukkumani Venkatachalam, **P. Peulakumari**, SnO₂ nanoparticle reformed their magnetic properties by the efficiency of dopant cobalt (Co) in (Tin) Sn sites, Materials Today, Volume 45, pp 3370–3373, 2021

Annexure – II
National and International Conferences

1. Pre-conference workshop of conference on Nano science and Nano technology, Coimbatore Institute of technology, Coimbatore. On 05/07/2011.
2. International conference on Nano science and Nano technology, Coimbatore Institute of technology, Coimbatore. From 06/07/2011 to 08/07/2011.
3. Research convention “Research ethics and post research methods”, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore. From 13/11/2012 to 15/11/2012.
4. Seminar “Nano technological treatment of dyeing unit effluents”, Chikkanna Government Arts College, Tirupur. From 07/03/2013 to 08/03/2013.
5. International conference “Nano material for Frontier applications and Indo-Norwegian workshop on advanced materials for solar cell applications”, Coimbatore Institute of technology, Coimbatore, India in collaboration with Bergen University College of Applied Science, Norway. From 10/07/2013 to 12/07/2013.
6. National seminar “Research publication and evaluation: Writing research papers, citation analysis and plagiarism”, Chikkanna Government Arts College, Tirupur and Society for the Advancement of Library and Information Science (SALIS), Coimbatore. On 07/10/2016.
7. Participated in National Conference on “Emerging Sensor Devices, Materials & Technologies (NCESDMT – 2017)”, during 19th & 20th January, 2017 at Department of Physics, Chikkanna Government Arts College, Tirupur.
8. Participated in National Seminar on "Current Innovations & Future Perspectives in Nanoscience and Technology" (NSNST – 2019) on 1st February 2019 at Department of Physics, Chikkanna Government Arts College, Tirupur.

Annexure – III
Workshop Attended

1. Workshop “Path finder – Explore, experiment, elucidate research: A Colloquium – 2010”, Avinashilingam Deemed University for Women, Coimbatore. From 22/12/2010 to 23/12/2010.
2. Workshop “Powder, Nano and Thinfilim Characterization Using X-Ray Diffraction Techniques, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore. From 26/11/2012 to 27/11/2012.