

**Kalaigñar karunanidhi Government Arts College for women  
(Autonomous), Pudukkottai-622001**

**STAFF PROFILE**

**i) General Information**

- a) Name : M.Bhuvaneshwari  
 b) Address (Residential) :  
 c) Designation : Guest Lecturer  
 d) Department : Physics  
 e) Date of Birth : 19/12/1978  
 f) E-mailid : bhuvanjothi@gmail.com  
 g) Area of Specialization : Nanofluids, nano ferrites



**A) Academic Qualifications**

Exam Passed	Subjects	Board/ University	Year	Division/ Grade/ Merit, etc.
High School	Tamil, English, Maths, Science, Social	State Board	March 1994	First class
Higher Secondary or Pre-degree	Maths/ Biology	State Board	April 1996	First class
UG	PHYSICS	Bharathidasan University	April 1999	First class
PG	PHYSICS	Bharathidasan University	April 2001	First class
M.Phil.,	PHYSICS	Bharathidasan University	April 2003	First class with distinction
Ph.D.,	PHYSICS	Anna University	September 2017	Highly commended
National Educational Testing (NET) UGC	-----			
State Level Educational Testing (SLET)	PHYSICS	Mother Teresa University	October 2016	First class

**ii) Research Experience & Training**

<b>Research Stage</b>	<b>Title of work / Thesis</b>	<b>University where the work was carried out</b>
M. Phil.		
Ph.D.		
Post-Doctoral		
Publications (give a list separately)	<b>Annexure-I</b>	-----
Research Guidance (give names of students guided successfully)	<b>Annexure-II</b>	-----
Training (please specify)	<b>Annexure-III</b>	-----

**B) Research Projects carried out**

<b>S. No.</b>	<b>Title of the Project</b>	<b>Name of the Funding Agency</b>	<b>Duration</b>	<b>Remarks</b>
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**C) Seminars, Conferences, Symposia Workshops etc. attended** *(If necessary, give a separate list)*

<b>Name of the Seminars / Conferences / Symposia / Workshops etc</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
<b>Annexure-IV</b>		

**iii) Teaching Experience**

<b>Courses Taught</b>	<b>Name of the University / College / Institution</b>	<b>Duration</b>
iv) UG (BA / B.Sc., etc. Pass) (BA / B.Sc., etc. Hons.)	Enathi Rajappa Arts and Science college, Pattukkottai	2 Years 1 month
	Mount Zion College of Engineering and Technology, Pudukkottai.	9 Years 8 months
	Sudharsan College of Engineering, Pudukkottai	10 months
v) PG (MA / M.Sc., etc.)	J.J college of Arts and Science, Pudukkottai	1 year 11 months 13 days

**Total Teaching Experience (in years and months):**

- a) Under-graduate (Sci.) : 12 Years 7 Months
- b) Under-graduate (Hons.) :
- c) Post-graduate : 1 Year 11 months 13 days
- d) Research :
- :

**viii) Innovations/ Contributions in Teaching (If necessary, give a separate list)**

a) Design of Curriculum:	
b) Teaching methods:	
c) Laboratory experiments:	
d) Evaluation methods:	

e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	<b>Engineering Physics</b> <b>ISBN number : 978-93-80421-13-1</b> <b>Year :2009</b>
f) Remedial Teaching / Student Counseling (academic) :	
g) Any other:	

**a) Extension Work/ Community Service (If necessary, give a separate list)**

i) Please give a short account of your contribution to:

ii) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc. :

b) National Literacy Mission : Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity :

**c) D. Participation in Corporate Life**

d)

Please give a short account your contribution to:

a) College/ University / Institution	
b) Co-curricular Activities	
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	
d) Students Welfare and Discipline	
e) Membership / Participation in Bodies / Committees on Education and National Development	
f) Professional Organization of Teachers	

**E.**

(a) Membership of Professional Bodies, Societies etc. : Nil

**Reviewer:**

Reviewed for Journal of Physics communications ( IOP publishing team). "Study on AC Permeability and Permittivity of Manganese doped Cobalt ferrite Nanoparticles" by AHSAN, Mohammad; Khan, Feroz; Islam, M; Tabassum, Tanzina; Alam, M  
Article reference: JPCO-100684

"Effect of variable cobalt and chromium co-doping on structural and magnetic properties of  $\text{Co}_x\text{Zn}_{1-x}\text{Cr}_2\text{Fe}_{2-2x}\text{O}_4$  ( $x=0, 0.2, 0.4, 0.6, 0.8$ ) nanoferrites via auto-combustion synthesis" by Feng, Jindi; Xiong, Rui; Liu, Yong; Xiao, Chengcheng; Su, Fangyi; Bai, Yadan Article reference: JPhysD-118084

- **Member:**
- **Life Member:**

(b) Editorship of Journals: Nil

**F. Any other information :**

**(Signature of the Teacher)**

## Annexure-I

### Publications

1. Preparation and study of dielectric properties of  $\text{Co}_{0.5}\text{Mn}_{0.25}\text{Zn}_{0.25}\text{Fe}_2\text{O}_4$  Nano particles ISSN-2229-712X, *Elixir Nanocomposite materials* 50 (2012) 10571-10573.
2. Preparation and Characterization of Cobalt Doped Mn-Zn Ferrites. DOI: 10.1007/978-81-322-1007-8\_55, © Springer India 2012.
3. **Bhuvaneswari, M**, Sendhilnathan, S, Kumar, M, Tamilarasan, R & Giridharan, NV 2016, ‘Synthesis, investigation on structural and electrical properties of cobalt doped Mn–Zn ferrite nanocrystalline powders’, **Materials Science-Poland**, vol. 34, no. 2, pp. 344-353, Impact factor: 0.918.
4. **Bhuvaneswari, M**, Sendhilnathan, S, Kumar, M, Tamilarasan, R & Sivakumar, V 2017, ‘A study on Leakage current and electrical properties of Oleic acid coated cobalt doped Mn-Zn ferrite Nanocrystalline powders’, *Journal of Analytical Science and Technology*, Impact factor:1.618, **Springer** DOI 10.1186/s40543-017-0119-8
5. A.Balamurugan, R.Chitradevi, K.C.Suresh, **M.Bhuvaneswari**, “ Thermal And mechanical properties of magnesium AZ91D/Aramid pulp composites”, ‘Materials Today: Proceedings’68 (2022), pp. 2452-2457.
6. ‘Experimental measurements of heat dissipation during liquid atomization for acoustic devices’ Patent application number: 202141057192, Date of Publication:04/02/2022.
7. ‘ A process of preparation of nanogels for cancer drug delivery’ Patent application number: 202341010685, Date of Publication:17/03/2023.

**Annexure-II**

**Research Experience & Training : Research Guidance Ph.D.**  
**/M.Phil., ( Department name )**

<b>S.No</b>	<b>Name of the Scholar</b>	<b>M.Phil ./ Ph.D.</b>	<b>Year</b>	<b>FT/PT</b>	<b>University</b>	<b>Pursuing/ Completed/ Awaiting for Viva</b>
1.						
2						
3						
4						



**Annexure-III**

S.No.	Name of the Training	Name of the sponsoring agency	Place and Date
1			
2			
3			

**Annexure IV**

<b>S.No.</b>	<b>Name of the Event</b>	<b>Name of the sponsoring agency</b>	<b>Place and Date</b>
1			
2			
3			
4.			
5.			