

# NEHRU MEMORIAL COLLEGE (AUTONOMOUS)

PUTHANAMPATTI-621007

## STAFF PROFILE

NAME OF THE STAFF : Dr.G.THILAGAVATHI  
DESIGNATION : Assistant Professor  
DEPARTMENT : PG & Research department of  
Physics



### 1. CONTACT

Address : 6<sup>th</sup> cross, Indira nagar, Manachanallur (post),  
Trichy -Dt 621005  
Contact Phone (Mobile) : 9865196623  
Contact e-mail(s) : kssk0414@gmail.com  
Skype id :

### 2. ACADEMIC QUALIFICATIONS

Degree	College/University/Board	Year of Passing/ Awarded
Ph.D.,	Manonmaniam Sundaranar University, Tirunelveli.	2014
B.Ed.,	Adhisankarar College of Education, Irungalur.	2009
M.Phil.,	Nehru Memorial College, Puthanampatti.	2004
M.Sc.,	Nehru Memorial College, Puthanampatti.	1997
B.Sc.,	Nehru Memorial College, Puthanampatti.	1995

### 3. TEACHING EXPERIENCE

S. No.	Institution	Duration	No. of Years	
			UG	PG
1.	Nehru Memorial College, Puthanampatti.	2003 to till date	18	18

4. RESEARCH EXPERIENCE (in years) : 15 years

5. AREA OF RESEARCH : spectroscopy

6\*\*. RESEARCH GUIDANCE (In Numbers)

Program of Study		Completed	Ongoing
Research	Ph. D.	-	-
	M. Phil.	31	01
Project	PG	34	-

7\*\*. PUBLICATION(S) (In Numbers)

Journal(s)		Proceeding(s)		Book(s) / Chapter(s) / Monograph(s) / Manual(s)
International	National	International	National	
02	02			

Cumulative Impact Factor (as per JCR)	
h-index	
Total Citations	

8\*\*. PRESENTATION(S) (In Numbers)

Events	International	National	State	Regional
Conference(s)	04	02		
Seminar(s)				

9\*\*. PARTICIPATION (In Numbers)

Events	International	National	State	Regional
Conference(s)	03	07		
Seminar(s)			02	
Workshop(s)			09	
Symposium(s)				

10\*\*. PROFESSIONAL DEVELOPMENT (In Numbers)

Orientation Programme(s)	Refresher Course(s)	Faculty Development Programme(s)	Short Term Course(s)	Online Course(s)
01	01			

11. FUNDED RESEARCH PROJECT(S)

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S. No.	Agency	Period		Project Title	Grant Allocated (Rs. In Lakhs)
		From	To		

List of Completed Project(s)					
S. No.	Agency	Period		Project Title	Grant Allocated (Rs. In Lakhs)
		From	To		
1.	UGC	2009	2011	Studies Growth and Characterisation of some NLO crystals by S-R Method	1,10,000.00

#### 17. DETAILS OF MEMBERSHIP

<b>Editorial Board</b>	
<b>Referee (Peer Reviewed Journal)</b>	
<b>Academic Bodies (Board of studies)</b>	<ul style="list-style-type: none"> <li>• Member UG Board of studies</li> <li>• Member PG Board of studies</li> </ul>
<b>Professional Bodies</b>	<ul style="list-style-type: none"> <li>• Doctoral Committee Member in Ph.,D.(Physics) in Government Arts and Science College, Tiruvarambur, Tiruchirappalli.</li> <li>• Teachers' Representative of Academic council of Nehru Memorial College from 2010 to 2018</li> </ul>
	<ul style="list-style-type: none"> <li>• Cyber awareness committee Member</li> </ul>

#### 18. EXTENSION ACTIVITIES / OUTREACH PROGRAMME

S. No	Title	Place	Date	Beneficiaries
1	<ul style="list-style-type: none"> <li>• Programme Officer, Youth</li> </ul>			

	Red (YRC) 2019	Cross since			

## 20. DETAILS OF RESEARCH GUIDANCE

Ph. D. (Completed)			
S. No.	Name	Title of thesis	Year of award
M. Phil. (Completed)			
S. No.	Name	Title of thesis	Year of award

## 21. DETAILS OF PUBLICATIONS

### (a) JOURNAL(S)

S. No.	Name of the author/s	Title of the paper with e-link	National/ International	Name of journal	Volume Page No & Year	ISSN
1.	M.Arivazhagan G.Thilagavathi	Vibrational study, first hyperpolarizability and HOMO-LUMO analyses on the structure of 2-hydroxy-6-nitro toluene	International	Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy	91(2012)411-428	1386-1425
2.	G.Thilagavathi M.Arivazhagan	DFT calculations and characterization of 2-amino-4,6-dimethyl pyrimidine	International	Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy	79 (2011) 389-395	1386 - 1425

3.	M.Arivazhagan G.Thilagavathi N.K.Kandasamy	Vibrational spectra, first hyperpolarizability, HOMO-LUMO analysis of 4-bromo 2-fluoro anisole	National	Indian Journal of Pure & Applied Physics	Vol.50, May 2012, pp299-307	2833
4.	G.Thilagavathi T.Thaila S.Kumararaman	Unidirectional growth and characterization of NLO crystal: Potassium dihydrogen orthophosphate	National	Int. J. Chem. Science	9(2), 2011, 691-698	0972 - 768X

## 22. DETAILS OF PRESENTATION(S)

(Conference(s) / Seminar(s))

S.No.	Name of the Paper	Name of the Conference	Place	Duration/Date
1.	DFT calculation and vibrational analysis of 2, 4-dichloro benzylidene trifluoride"	International Conference	Bishop Moore College, Mavelikara, Kerala India.	7 <sup>th</sup> -9 <sup>th</sup> August, 2012
2.	Analysis of vibrational spectra of-2 chloro1-fluoro- 4-nitro benzene based on DFT calculations	International Conference	Chennai Tamil Nadu.	7 <sup>th</sup> -8 <sup>th</sup> , March 2012

3.	Quantum chemical analysis and characterization of 4-bromo 1,2-dimethoxy benzene	National Conference	Chennai Tamil Nadu	10 <sup>th</sup> and 11 <sup>th</sup> Feb 2011
4.	Vibrational spectra and characterization of 2-hydroxy-1,6-nitro toluene	National Conference	Tiruchirappalli Tamil Nadu	14 <sup>th</sup> February 2011
5.	DFT calculations and characterization of 2-amino-4,6-dimethyl pyrimidine".	International Conference	Chidambaram, Tamil Nadu	22 <sup>nd</sup> -24 <sup>th</sup> , September 2010
6	SQM and characterization of 4-fluoro 3-nitro benzaldehyde	International Conference	Nagercoil Tamil Nadu	7 <sup>th</sup> -9 <sup>th</sup> , January 2010,

### 23. DETAILS OF PARTICIPATION

(Conference(s) / Seminar(s) / Workshop(s) / Symposium(s))

S.No.	Name of the Conference	Sponsored by	Conducted by	Place	Duration/Date
1.	International Conference	UGC	4. International Webinar on Advanced Materials (IWAM-2020).	LRG Government Arts College for Women Tirupur-641 604	03.06.2020
2.	International Conference	UGC	Bishop Moore College, Mavelikara, Kerala India.	Mavelikara, Kerala	7 <sup>th</sup> -9 <sup>th</sup> August, 2012
3.	International	UGC	Department of	Chidambaram,	22 <sup>nd</sup> -24 <sup>th</sup> ,

	Conference		Physics, Annamalai University, Chidambaram, Tamil Nadu	Tamil Nadu	September 2010
4.	International Conference	UGC	Department of Physics, Women's Christian College, Nagercoil Tamil Nadu.	Nagercoil Tamil Nadu	7 <sup>th</sup> -9 <sup>th</sup> , January 2010,
5.	National Conference	UGC	National webinar on Fundamentals of Spectroscopy.	A.V.V.M SRI PUSHPAM COLLEGE Poondi-613 503	07.07.2020
6.	National Conference	UGC	National seminar on Raman Spectroscopy: Basics, Instrumentation & Applications	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, Chennai.	02.07.2020 & 03.07.2020
7.	National Conference	UGC	National Webinar on Nanoscale Nonlinear Optics-An Exciting Glimpse.	Vellore Institute of Technology (VIT) Chennai.	07.07.2020
8.	National Conference	UGC	National Webinar on Density Functional Theory – In the absence of spectrometers	Shri Kadasiddheshwar Arts College And H.S.Kotambri Science Institute, Vidyanagar, Hubballi, Karnataka	22.07.2020
9.	National conference	UGC	PG and Research Department of Physics, Srimad Andavan Arts and Science College, Tiruchirappalli,	Tiruchirappalli Tamil Nadu	20 <sup>th</sup> December 2013.
10.	National conference	UGC	Indian Spectrophysics Association (ISPA) in collaboration with PG & Research Department of physics, Pachaiyappa's	Chennai Tamil Nadu	7 <sup>th</sup> -8 <sup>th</sup> , March 2012

			College, Chennai and PG Department of physics, Women's Christian College, Chennai, Tamilnadu.		
11	State level seminar	UGC	Post Graduate and Research Department of Physics and Computer Science of Nehru Memorial College, Tiruchirappalli, Tamilnadu.	Tiruchirappalli Tamil Nadu	13 <sup>th</sup> March 2012
12.	State level	UGC	ADMINISTRATIVE SKILL DEVELOPMENT” organized by the Nehru Memorial College. Tiruchirappalli, Tamil Nadu	Tiruchirappalli Tamil Nadu	<b>23<sup>rd</sup> and 24<sup>th</sup> february 2017</b>
13.	Workshop on “ Outcome Based Education”	UGC	Nehru Memorial College	puthanampatti	25 <sup>th</sup> August 2018
14	Faculty Development Programme “Effective Teaching”	UGC	Nehru Memorial College	puthanampatti	12 th June 2017
15	Faculty Development Programme	UGC	Nehru Memorial College	puthanampatti	19 th March 2016
16	E-content Development Training-Cum-Production Workshop	UGC	Nehru Memorial College	Puthanampatti.	10.03.2020 & 11.03.2020
17.	Workshop on “ Sustenance/Enhancement of Quality in Higher Education”	UGC	Nehru Memorial College	Puthanampatti	05 th August 2015
18.	Workshop on “Internal Quality Assurance Cell (IQAC) ”	UGC	Nehru Memorial College	Puthanampatti	11 <sup>th</sup> June 2014.
19.	Workshop on “ Need based value added research proposal writing”	UGC	Nehru Memorial College	Puthanampatti	25 <sup>th</sup> 26 <sup>th</sup> September 2014
20.	Workshop on “Examination Reforms”	UGC	Nehru Memorial College	Puthanampatti	15 <sup>th</sup> March 2012
21.	Workshop on “Recent Advances on Optics”	UGC	National Institute of Technology	Tiruchirappalli	15 <sup>th</sup> October 2012
22.	Workshop on “Nonlinear Physics”	UGC	Nehru Memorial College	Puthanampatti	29-31, March 2010
23.	Workshop on “Mathematical	UGC	Nehru Memorial College	Puthanampatti	19 <sup>th</sup> September

	computations with MATLAB”				2008
24.	Workshop on “Solar Energy systems and Utilization”	UGC	Gandhigram Rural Institute Deemed University	Gandhigram Tamilnadu	25 <sup>th</sup> & 26 <sup>th</sup> March 2004

#### 24. DETAILS OF PROFESSIONAL DEVELOPMENT

(Orientation / Refresher Course / FDP / Short Term Course / Online Course)

S. No.	Name of the events	Sponsored by	Conducted by	Place	Duration/ Date
<b>Orientation Programme</b>					
1	Participated Orientation Programme.	UGC	HRDC, Bharathidasan University	Tiruchirappalli	from 20.08.2019 to 09.09.2019.
<b>Refresher Course</b>					
1.	Refresher Course in Physics	UGC	HRDC, Pondicherry University	Pondicherry	From 04.08.2021 to 17.08.2021
<b>Faculty Development Programme</b>					
1.	Faculty Development Programme	Integrating SWAYAM MOOCS & Educational Apps in Teaching.	Srimathi Devkunvar Nanalal Bhatt Vaishnav College For Women.	Karnataka	28.05.2020 & 29.05.2020
	Faculty Development Programme	FDP on ONLINE TEACHING, LEARNING AND EVALUATION	Nehru Memorial College	Puthampatti.	10.08.2020 & 11.08.2020
1.	Faculty Development	The	Nehru	Puthan	30.05.2019

	Programme	Management	Memorial College	ampatti - 621007	
2.	Faculty Development Programme	The Management	Nehru Memorial College	Puthan ampatti - 621007	11.06.2018 & 12.06.2018
<b>Short Term Course(s)</b>					
<b>Online Course(s)</b>					
1.	Indian summer school on crystal growth(ISSCG-2020)	SSN Research Centre	SSN Institutions	Chennai-603110	14.05.2020 To 23.05.2020