

NAME OF THE STAFF : Dr. R.SANGEETHA

DESIGNATION	: ASSOCIATE PROFESSOR
DEDIGITITION	

DEPARTMENT	: PHYSICS
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CONTACT

Address	: Department of Physics
	Nehru Memorial College (Autonomous)
	Puthanampatti 621 007
	Tiruchirappalli (Dt),
	Tamil Nadu, India.

Date of Birth	: 15.06.1978
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ACADEMIC QUALIFICATIONS

Degree	College/University/Board	Year of Passing/ Awarded	
Ph.D	Periyar University,Salem	2015	
M.Phil	Nehru Memorial College, Puthanampatti	2003	
M.Sc	Nehru Memorial College, Puthanampatti	2000	
B.Sc	Shrimathi Indra Gandhi College, Trichy	1998	

Ph.D Thesis

Title of the Thesis	: Investigation of molecular structure and spectral analysis of some polyatomic
	molecules based on DFT
Place	: Department of Physics
	Periyar University
	Salem
Research Supervisor	: Prof. V.Krishnakumarumar
Duration	: July 2010 – December 2015

POSITION HELD

TEACHING EXPERIENCE

S. No.	Institution	Duration	No. of Years	
	Institution	Duration	UG	PG
1	Nahmy Mamarial Collaga(SE)	09.09.2000 to		
	Nehru Memorial College(SF)	27.08.2007	7	4
2	Nehru Memorial College(Aided)	28.08.2007 to till date		
	Nelliu Mellonal College(Alded)	28.08.2007 to till date	14	14

RESEARCH EXPERIENCE (in years) : 14 years

AREA OF RESEARCH : Spectroscopy

RESEARCH GUIDANCE (In Numbers)

Program of Study		Completed	Ongoing
Research	M. Phil.	19	•••
Project	PG	30	1

PUBLICATION(S) (In Numbers)

Joi	urnal(s)	Proceeding(s)		Book(s) /	
International	National	International National		Chapter(s) / Monograph(s) / Manual(s)	
2	-	-	-	-	

Cumulative Impact Factor (as per JCR)	12.316
h-index	2
Total Citations	13

PRESENTATION(S) (In Numbers)

Events	International	National	State	Regional
Conference(s)		4		
Seminar(s)				

PARTICIPATION (In Numbers)

Events	International	National	State	Regional
Conference(s)				
Seminar(s)		5		
Workshop(s)		3		
Symposium(s)				

PROFESSIONAL DEVELOPMENT (In Numbers)

Orientation Programme(s)	Refresher Course(s)	Faculty Development Programme(s)	Short Term Course(s)	Online Course(s)
2	4	12		

DISTINCTIVE ACHIEVEMENT(S) / RECOGINITION(S) / AWARD(S)

University 3rd Rank in M.Sc., program, Nehru Memorial College, Puthanampatti, Tiruchirappalli, Tamilnadu, India (Year 2000)

ACADEMIC / ADMINSTRATIVE RESPONSIBILITIES HELD

- a. Guiding PG and M.Phil students
- b. Lab in-charge for B.Sc (Physics) students
- c. Web team member in Physics department

SERVED AS A RESOURCE PERSON (INVITED TALKS / GUEST LECTURES)

- 1. Delivered a special lecture on "Vibrational spectroscopic studies of Organic compounds", **NMC Physics Seminar Circuit** held at Nehru Memorial College, Puthanampatti during, 25.07.2016.
- 2. Acted as a Resource person for the International Women's day celebration in the year 2018 & 2019 at B.Ed, Nehru Memorial College on March 8.

DETAILS OF MEMBERSHIP

Academic Bodies (such as Board of Studies etc.,)

• Board of Studies: B.Sc., M.Sc. and M. Phil. Physics (Nehru Memorial College, puthanampatti).

EXTENSION ACTIVITIES / OUTREACH PROGRAMME

Served as NSS Programme Officer from 28.07.2011 to 28.07.2014, during the period conducted awareness programme for the NSS adopted village people and attended special Camp with NSS student volunteers.

Activities under N.S.S Programme

- 1. Conducted a 7 days N.S.S Special Camp nd styed with N.S.S. volunteers during the camp in Edhumalai and Thenur from 21.02.2012 to 27.02.2012.
- 2. Actively involved in Tree Plantation Programme with our College N.S.S Programme Officers and student volunteers in our college.
- 3. Actively organized Kolam competition with other program officers of N.S.S in our College on 11.01.2012.
- 4. Organized Essay writing, Oratory, Slogan writing and Quiz Competitions related to National Voters day held at our College on 12.01.2012 under the guidance of the Ministry of Youth Affairs.
- 5. Actively organized Rally for National Voters day with other Programme Officers of N.S.S in our College on 25.01.2012 and Our College Principal inaugurated the function.
- 6. Organized N.S.S foundation day on 24.09.2011 with other Programme officers and our college president inaugurated the function.
- 7. Helped N.S.S volunteer K. Bhuvaneswari of II B.Sc physics to participate Winter Adventure Camp at Manali (Himachal Pradesh) from 21.03.2012 to 30.03.2012.
- 8. Organized industrial visit for UG students (2015).
- 9. Organized industrial visit for PG and UG students (2020).

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	R.Sangeetha	Vibrational assignment of the spectral data,molecular dipole moment,polarizability,first hyperpolarizability,HOMO -LUMO and thermodynamic properties of 5 nitro indane using DFT quantum chemical calculations	Internatio nal	Spectro chemic a Acta Part A	118 (663-671) & 2014	
2	R.Sangeetha	DFT,Comparative vibrational spectroscopic studies, HOMO-LUMO, first hyperpolarizability analyses of 2-fluro 5- nitrotoluene and 2-bromo 5-nitrotoluene	Internatio nal	Spectro chemic a Acta Part A	104 (77-86) & 2013	-

DETAILS OF PRESENTATION(S)

(Conference(s) / Seminar(s))

S. No.	Name of the Paper	Name of the Conference / Seminar	National/ International	Place	Duration/ Date
1	Molecular Structure, Vibrational spectra, HOMO-LUMO, NLO and NMR studies of OMA and PMA based on DFT quantum chemical calculations	12 th National Conference on Science, Engineering nd technology	National	VIT University, Chennai	2 nd -3 rd May 2017
2	DFT investigations on the conformational stability, Molecular structure, hyperpolarizabilty, NLO and Vibrational spectr of 2-OXO-2h- chromene-3-carboxylic acid	National Conference on Nanomaterials	Arignar Anna Govt. College, Namakkal	20-21 July 2017	
3	Vibrational assignment of the spectral data,molecular dipole moment,polarizability,first hyperpolarizability,HOMO- LUMO and thermodynamic properties of 5 nitro indane using DFT quantum chemical calculations	National conference on Recent Trends in Material Science	Vivekanandha College of Arts and Sciences for Women	25.01.2014	
4	DFT,Comparative vibrational spectroscopic studies, HOMO- LUMO, first hyperpolarizability analyses of 2-fluro 5-nitrotoluene and 2-bromo 5-nitrotoluene	National conference on Recent Trends in Material Science	Vivekanandha College of Arts and Sciences for Women	28.02.2013	

DETAILS OF PARTICIPATION

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

S. No.	Name of the event(s)	Sponsored by	Conducted by	Place	Duration/ Date				
	Conference(s)								
		S	Seminar(s)						
1	Special seminor on	UGC	Nehru Memorial	Puthana	08.08.2014				
	Crystallographic technique		College	mpatti					
2	Seminor on Examinations	UGC	Nehru Memorial	Puthana	16.02.2013				
Reforms			College	mpatti					
3	Seminor on materials of	UGC	Nehru Memorial	Puthana	14.02.2014				
	this Millennium		College	mpatti					
4	Seminor on Examinations	UGC	Nehru Memorial	Puthana	15.03.2012				
	Reforms		College	mpatti					
5 Seminor on embedded		UGC	PG and Research Dept.	Puthana	13.03.2012				
	systems and its		of Physics,Nehru	mpatti					
	applications		Memorial College						

	Workshop(s)								
1 Workshop on GST		-	PG and Research Dept.	Puthana	Feb 2017				
			of Mathematics,NMC	mpatti					
2	Workshop on LATEX	-	Nehru Memorial	Puthana	11 & 12 th Nov				
			College	mpatti	2013				
3	Workshop on Nonlinear	-	PG and Research Dept.	Puthana	29 to				
	Physics:		of Physics, Nehru	mpatti	31.03.2010				
Theory, Experiments and			Memorial College						
	Applications								
	Symposium(s)								

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
		Orientati	on Programme		
1	NSS Orientation course	Ministry of Youth Affairs and Sports	Empanelled Training Institution	Madras School of Social Work, Chennai	12.12.2012 to 18.12.2012
2	Orientation course	UGC	Academic Staff College	BDU, Trichy	16.12.2008 to 12.01.2009
		Refres	sher Course		
1	Refresher course	UGC	Academic Staff College	Bangalore University, Bangalore	15.03.2021 to 28.03.2021
2	Refresher course	UGC	Academic Staff College	BDU, Trichy	23.10.2019 to 5.11. 2019
3	Refresher course	UGC	Academic Staff College	BDU, Trichy	01.02.2014 to 21.02.2014
4	Refresher course	UGC	Academic Staff College	BDU, Trichy	27.01.2012 to 16.02.2012
		Faculty Develo	opment Programme		
1	Faculty Development Programme	UGC	Nehru Memorial College	Puthanampatti	11 th and 12 th June 2018
2	Faculty Development Programme	UGC	Nehru Memorial College	Puthanampatti	30.05.2019
3	Workshop on outcome based Education	UGC	Nehru Memorial College	Puthanampatti	25.08.2018
4	Innovative Curriculum Designing	UGC	Nehru Memorial College	Puthanampatti	24 &25.11. 2017
5	Effective Teaching	UGC	Nehru Memorial College	Puthanampatti	12.06.17
6	FDP Programme on Revisiting Examination system	UGC	Nehru Memorial College	Puthanampatti	19.03.2016
7	Sustenance/Enhancement	UGC	Nehru	Puthanampatti	05.08.2015

	of Quality in Higher		Memorial		
	Eduacation		College		
8	Faculty Development	UGC	Nehru	Puthanampatti	11.06.2014
	Programme on Impact of		Memorial		
	Research on Teaching in		College		
	Higher Education				
9	FDP on Higher Education	UGC	IQAC, Nehru	Puthanampatti	21.01.2012
			Memorial		
			College		
10	Menstrual Hygiene	-	Dept.of	BDU, Trichy	30.08.2011
	Management		Women's		
			Studies		
11	Mathematical	-	Dept. of	Puthanampatti	19.09.2008
	computations with		Mathematics,		
	MATLAB		Nehru		
			Memorial		
			College		
12	Training of college	-	BDU		06.02.2007 to
	teachers on Soft-skill		technical park		10.02.2007
	Development		and	Trichy	
			Confederatio		
			n of Indian		
			Industry		
		Short T	Cerm Course(s)		
		Onli	ne Course(s)		