

**Kalaingar Karunanidhi Government Arts College for women
(Autonomous), Pudukkottai
STAFF PROFILE**

i) General Information

- a) Name : Dr.S.Mugeshini
b) Address (Residential): 4457/5, East 4th street,
Pudukkottai
c) Designation : Guest Lecturer
d) Department : Physics
e) Date of Birth : 06.08.1981
f) E-mail id : harihasini771@gmail.com
g) Area of Specialization: Crystal Growth



A) Academic Qualifications

Exam Passed	Subjects	Board/ University	Year	Division/ Grade/ Merit, etc.
High School	Tamil, English, Maths, Science, Hist. And Geo.	Board of Secondary Education	1997	
Higher Secondary or Pre-degree	Physics, Chemistry, Biology	Board of Higher Secondary Education	1999	
UG	PHYSICS	Bharathidasan university	2003	
PG	PHYSICS	Bharathidasan university	2005	
M.Phil.,	PHYSICS	Bharathidasan University	2007	
Ph.D.,	PHYSICS	Bharathidasan University	2022	
National Educational Testing (NET) UGC	-	-	-	

State Level Educational Testing (SLET)	PHYSICAL SCIENCE	MOTHER TERASA UNIVERESITY	2018	
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ii) Research Experience & Training

Research Stage	Title of work / Thesis	University where the work was carried out
M. Phil. or Equivalent	Electronic device using LED display	Bharathidasan University
Ph.D.	Growth and Characterization of some of the Organic Single Crystal	Bharathidasan University
Post-Doctoral	-	-
Publications (give a list separately)	Annexure-I	-----
Research Guidance (give names of students guided successfully)	Nil	-----
Training (please specify)	-----	-----

B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks
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C) Seminars, Conferences, Symposia Workshops etc. attended (If necessary, give a separatelist)

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
Annexure-II		

iii) Teaching Experience

Courses Taught	Name of the University / College / Institution	Duration
iv) UG (BA / B.Sc., etc. Pass) (BA / B.Sc., etc. Hons.)	K.K.Government Arts College for Women (A) , Pudukkottai	21.07.2005 –Till date
v) PG (MA / M.Sc., etc.)	K.K.Government Arts College for Women (A) , Pudukkottai	21.07.2005 –Till date
vi) M. Phil	-	-
vii) Ph.D	-	-

Total Teaching Experience (in years and months): 16 Years

a) Under-graduate(Sci.) :

b) Under-graduate (Hons.):

c) Post-graduate :

d) Research : (M.Phil)

: (Ph.D)

viii) Innovations/ Contributions in Teaching (If necessary, give a separatelist)

a) Design of Curriculum:	<ol style="list-style-type: none"> 1. Properties of matter and Acoustics 2. Mathematical physics 3. Solid state physics 4. Classical mechanics 5. Quantum mechanics 6. Material science 7. Electromagnetic theory 8. Nuclear physics
b) Teaching methods:	-
c) Laboratory experiments:	-
d) Evaluation methods:	-
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	-
f) Remedial Teaching / Student Counseling (academic) :	-
g) Any other:	-

ix) Extension Work/ Community Service (If necessary, give a separatelist)

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

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

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

D. Participation in Corporate Life

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.:

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

(b) Editorship of Journals:

F. Any other information :

S. Mugeshini

(Signature of the Teacher)

Annexure-I

Publications

1. Growth and characterization of 4-amino-N-carbamothioyl benzenesulfonamide: A nonlinear optical single crystal.
G. Amudha, R. Santhakumari, D. Chandrika **S. Mugeshini** N. Rajeswari
International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 10 (2020), 7291-7302. (Scopus).
2. Growth and computational studies on vanillin isoniazid single crystals.
S. Mugeshini ,R. Santhakumari, N. Rajeswari , G. Amudha, D. Chandrika, Suresh Sagadevan
Chinese Journal of Physics 72, (2021), 229-239. (Web of Science),
<https://doi.org/10.1016/j.cjph.2021.04.025>.
- 3 Synthesis, growth spectral and computational studies on Aminomethylpyridinium trichloroacetate single crystal.
N. Rajeswari , R. Santhakumari, **S. Mugeshini**, D. Chandrika, Suresh Sagadevan
Chinese Journal of Physics 73, (2021), 746-755. (Web of Science),
<https://doi.org/10.1016/j.cjph.2021.08.010>
4. Synthesis, growth, crystal structure, vibrational, DFT and HOMO, LUMO analysis on protonated molecule 4-aminopyridinium nicotinate.
R.Vasanthakumari, W. Nirmala, Suresh Sagadevan, **S.Mugeshini**, R.Santhakumari, N. Rajeswari, Ranjith Balu.
Journal of Molecular Structure 1239(8) , (2021), 130449. (Web of science),
<http://dx.doi.org/10.1016/j.molstruc.2021.130449>.
5. Growth, computational studies and docking analysis on α - pyrrolidinopentiophenone hydrochloride monohydrate single crystal.
S. Mugeshini ,R. Santhakumari, N. Rajeswari , G. Amudha, D. Chandrika
Journal of Molecular Structure 1249 (2022), 131600. (Web of Science),
<https://doi.org/10.1016/j.molstruc.2021.131600>.
6. Synthesis, growth, supramolecular, experimental, and theoretical characterization of 6-amino-1H-pyrimidine-2,4-dione dimethylacetamide single crystal.
S. Mugeshini ,R. Santhakumari, N. Rajeswari , G. Amudha, D. Chandrika, F. Solhe, Alshahateet.
Chinese Journal of Physics 76, (2022), 14-23. (Web of Science),
<http://dx.doi.org/10.1016/j.cjph.2021.10.037>
7. Synthesis, growth, DFT, and HOMO-LUMO studies on pyrazole methoxy benzaldehyde single crystals.
G. Amudha, R. Santhakumari, D. Chandrika, **S. Mugeshini**, N. Rajeswari, S. Sagadevan
Chin. J. Phys. 76 (2022) 44–58, (Web of Science),
<https://doi.org/10.1016/j.cjph.2021.10.038>
8. Growth, spectroscopic, and Hiresfeld surface analysis on pyridine urea single crystal.
G. Amudha, R. Santhakumari, D. Chandrika **S. Mugeshini**, N. Rajeswari, Suresh Sagadevan
J. Mol. struct. 1257 (2022) 13260, (Web of Science),
<https://doi.org/10.1016/j.molstruc.2022.132606>.
9. Synthesis, growth, physicochemical characterization, and computational studies on

aminopyridinium chloronicotinate single crystal,

G. Amudha, R. Santhakumari, D. Chandrika, **S. Mugeshini** N. Rajeswari

Crystal Research & Technology 57 (2022) 2100265, (Web of Science),

<https://doi.org/10.1002/crat.202100265>

Annexure-II

Seminars, Conferences, Symposia Workshops etc. attended

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
International conference on Advances in Material Science		Holy Cross College (A), Trichy 6.1.2017, 7.1.2017
One day faculty development programme on quality enhancement	UGC, New Delhi	Government Arts College for Women (A), Pudukkottai 1.2.2017
Yoga therapy on stress reduction	UGC, New Delhi	Government Arts College for Women (A), Pudukkottai 18.9.2017 to 22.9.2017
Workshop on Powder X-ray diffraction data analysis		SrimadAndavan Arts and Science College (A), Trichy 5.10.17 and 6.10.17
Asia Pacific Academy of Material (APAM) Special lecture series		Bharthidasan university, Trichy 13.2.2018
National conference on New vistas in material science		J.J. College of Arts and Science (A), Pudukkottai 8.3.2018 and 9.3.2018
National conference on Recent trends in nano and bulk super conducting and magnetic materials		SrimadAndavan Arts and Science College (A), Trichy 20.12.2018 and 21.12.2018
National seminar on Specific industrial and environmental application of physics		SrimadAndavan Arts and Science College (A), Trichy 18.12.2019
National level online quiz contest		Government Arts College for Women (A), Pudukkottai 26.5.2020

Advanced physics quiz Programme 4		On line Raja Doraisingam Government Arts College 11.6.2020
Webinar on Non linear physics		SSN College of Eigneering, 12.6.2020
International webinar on Basics of OR and Raman Spectroscopy		Avinashillingam Institute for home science and Higher Education 24.6.2020
Webinar on Green synthesis of nanoparticles towards biomedical application		Government Arts College for Women (A), Pudukkottai 1.7.2020
National webinar on Women empowerment : what does it actually stand for?		Government Arts College for Women (A), Pudukkottai 4.7.2020
Webinar on Technologies for the exploration the inner space		SRM Institute of Science and Technology 11.7.2020
Webinar series on Advances in functional composite material		SSN College of Eigneering, 20.7.2020 to 22.7.2020