

**Kalaigiar Karunanidhi Government Arts College for Women (Autonomous),
Pudukkottai**

STAFF PROFILE

i) General Information

- a) Name : G. AMUDHA
b) Address (Residential) : 1A, Sri Shanmuga Nagar Extension
Malaiyeedu, Pudukkottai-622 003
c) Designation : Associate Professor
d) Department : Physics
e) Date of Birth : 27.05.1979
f) E-mail id : gamudha79@gmail.com
g) Area of Specialization : Crystal growth and Spectroscopy



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	1994	First Class
Higher Secondary or Pre-degree	Tamil, English, Mathematics, Physics, Chemistry, Biology	Board of Higher Secondary Education	1996	Second class
UG	Physics	Bharathidasan University, Trichy	1999	First class
PG	Physics	Maduri Kamaraj University, Madurai	2003	First class
M.Phil.,	Physics	Bharathidasan University, Trichy	2007	First class with Distinction
Ph.D.,	Physics	Bharathidasan University, Trichy	2022	First class

ii) Research Experience & Training

Research Stage	Title of work / Thesis	University where the work was carried out
M. Phil.	Study on the Hardness of Cadmium Sulphide thinfilm formed By Spray Pyrolysis	Bharathidasan University, Trichy
Ph.D.	Growth and Characterization of Organic Single Crystals	Bharathidasan University, Trichy
Post-Doctoral	Nil	-
Publications (give a list separately)	Annexure -I	-----
Research Guidance (give names of students guided successfully)	-	-
Training (please specify)	Annexure -II	-----

B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks
---	NIL	----	-----	-----

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-III		

iii) Teaching Experience

Courses Taught	Name of the University / College / Institution	Duration
iv) UG (BA / B.Sc., etc. Pass) (BA / B.Sc., etc. Hons.)	V.S.S Government Arts College, Pulankurichi.	05.07.2004 to 24.01.2008
	Kalaignar Karunanidhi Government Arts College for Women(A), Pudukkottai.	13.10.2008 to till date
v) PG (MA / M.Sc., etc.)	Kalaignar Karunanidhi Government Arts College for Women(A), Pudukkottai.	13.10.2008 to till date

Total Teaching Experience (in years and months):

- a) Under-graduate(Sci.) : 19 years 3 months
b) Under-graduate (Hons.):
c) Post-graduate : 14 years 7 months
d) Research : (M.Phil)
: (Ph.D)

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

a) Design of Curriculum:	Competitive Exams Oriented syllabus
b) Teaching methods:	Power Point Presentation, Lecturing and Group Discussion
c) Laboratory experiments:	Repetition of practicals in all subjects and guiding projects.
d) Evaluation methods:	Asking questions, Class test and asking the students to take Seminars.

e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	Hints taken from various books and articles, internets presentations
f) Remedial Teaching / Student Counseling (academic) :	Extra care taken for below average as well as average students
g) Any other:	Teaching basic Computers programming techniques and Molecular techniques

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 : Nil

b) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity : National Service Scheme (2013-2014)

D. Participation in Corporate Life

Please give a short account your contribution to:

a) College/ University / Institution	Member in evaluate of theory papers and practical's in various colleges and University, Member in Board of studies, Question paper setting for various colleges.
b) Co-curricular Activities	NSS Programme Officer 2013-2014
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Nil
d) Students Welfare and Discipline	Member in Anti ragging committee of the college.

e) Membership / Participation in Bodies / Committees on Education and National Development	Nil
f) Professional Organization of Teachers	

E.Membership of Professional Bodies, Societies etc. : Nil

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

(b) Editorship of Journals : Nil

F. Any other information :

(Signature of the Teacher)

Annexure - I

PUBLICATIONS

[1] G. Amudha, R. Santhakumari, D. Chandrika S. Mugeshini N. Rajeswari, Growth and characterization of 4-amino-N-carbamothioyl benzenesulfonamide: A nonlinear optical single crystal, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 10 (2020) 7291-7302.

[2] R. Jayasree, R. Santhakumari, G. Amudha, D. Chandrika, C. Usha, Growth and Characterization of Biologically Active 4-Aminopridinium Cobalt II Chloride, International Journal of Scientific & Technology Research 9 (2020) 2277-8616.

[3] S. Mugeshini, R. Santhakumari, N. Rajeswari, G. Amudha, D. Chandrika, S. Sagadevan, Growth and computational studies on vanillin isoniazid single crystals, Chin. J. Phys. 72 (2021) 229-239, <https://doi.org/10.1016/j.cjph.2021.04.025>

[3] G. Amudha, R. Santhakumari, D. Chandrika, S. Mugeshini, N. Rajeswari, S. Sagadevan, Synthesis, growth, DFT, and HOMO-LUMO studies on pyrazolemethoxy benzaldehyde single crystals, Chin. J. Phys. 76 (2022) 44–58, <https://doi.org/10.1016/j.cjph.2021.10.038>

[5] G. Amudha, R. Santhakumari, D. Chandrika S. Mugeshini N. Rajeswari, Suresh Sagadevan, Growth, spectroscopic, and Hiresfeld surface analysis on pyridine urea single crystal, J. Mol. struct. 1257(2022) 13260, <https://doi.org/10.1016/j.molstruc.2022.132606>.

[6] G. Amudha, R. Santhakumari, D. Chandrika S. Mugeshini N. Rajeswari, Synthesis, growth, physicochemical characterization, and computational studies on aminopyridinium chloronicotinate single crystal, Crystal Research & Technology 57 (2022) 2100265, <https://doi.org/10.1002/crat.202100265>.

[7] S. Mugeshini, R. Santhakumari, N. Rajeshwari, G. Amudha, D. Chandrika, S. Sagadevan, Synthesis, growth, experimental, and theoretical characterization of 6-amino-1H-pyrimidine-2,4-dione dimethylacetamide single crystal, Chin. J. Phys. 76 (2022) 14–23 , <http://doi.org/10.1016/j.cjph.2021.10.037>.

[8] S. Mugeshini, R. Santhakumari, N. Rajeswari, G. Amudha, D. Chandrika, S. Sagadevan, Growth, computational studies, and docking analysis on α -pyrrolidinopentiophenone hydrochloride monohydrate single crystal, J. Mol. Struct. 1249 (2022) 131600, <https://doi.org/10.1016/j.molstruc.2021.131600>.

Annexure-II

TRAINING

ORIENTATION / REFRESHER COURSES ATTENDED

S.No	Name of the Training	Name of the sponsoring agency	Place and Date
1	Orientation Course	Tamil Nadu State Council for Higher Education and UGC - Academic Staff College, University of Madras	University of Madras, Madras held from 13.10.2008 to 08.11.2008
2	Refresher Course	UGC	UGC - Academic Staff College, Bharathidasan University, Trichy held from 20.11.2012 to 10.12.2012
3	NSS Orientation Course	National Service Scheme Empanelled Training Institution	Madras School of Social Work, Chennai held from 10.12.2013 to 16.12.2013
4	Refresher Course	UGC	UGC - Academic Staff College, Bharathidasan University, Trichy held from 17.12.2016 to 08.03.2016

5	Refresher Course	UGC	UGC-Human Resource Development Centre, Madurai Kamaraj University, Madurai held from 18.12.2018 to 07.01.2019
6	Refresher Course	Teaching Learning centre, Ramanujan College, University of Delhi.	Teaching Learning Centre, Ramanujan College, University of Delhi, held from 07.12.202 to 21.12.2022
7	Faculty Development Program	Tamil Nadu Skill Development Corporation, Government of Tamil Nadu.	Bharathidasan University, Thiruchirappalli held on 30.01.2023 to 03.02.2023

S.No	Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Title of the Paper	Place and Date
1	National Seminar on Renewable Energy	UGC Sponsered	Combined effect of molar Concentration and doping level on structured electrical & optical properties of fluorine incorporapted SnO ₂ films deposited using a simplified spray method for Solar cell application	A.D.M. College for Women(A), Nagapattinam January 20,21-2011
2	Current Trends in Material Science & Nanostructured Materials (CTMN-2013	Cauvery College for Women-National Seminar	Spectroscopic Studies on LAPFCN Crystals	Cauvery College for Women, Tiruchirappalli. 23 rd & 24 th January 2013
3	National Conference on Recent Trends in Nano & Bulk Superconducting & Magnetic Materials	Tamil Nadu State Council for Higher Education,Tami I Nadu State Council for Science and Technology	Synthesis and characterization of 1,1-Di-isopropyl thiourea	Srimad Andavan Arts and Science College(A), Tiruchirappalli December 20-21, 2018.

4	National seminar on specific industrial and environmental applications of Physics	Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli.		Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli, 10 th December, 2019.
5	National Conference on Fabrication and Characterization of nano materials	Theivanai Ammal College for Women (Autonomous), Villupuram	“Growth and characterization of 4-amino-N-carbamothioylbenzene sulfonamide: A nonlinear optical single crystal”	Theivanai Ammal College for Women (Autonomous), Villupuram, 10 th December 2021.
6	International Conference on advances in Science, Humanities and Technology	SIMATS School of Engineering	Synthesis, growth, physicochemical characterization, and computational studies on aminopyridinium chloronicotinate single crystal	SIMATS School of Engineering, Chennai, 9 th -10 th January 2023

Annexure- III

S. No	Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
1	Recent Trends in Materials Science	UGC Sponsored	Government Arts College for Women(A), Pudukkottai 18.03.2009
2	Quality Enhancement and Sustenance in Higher Education through Accreditation	UGC Sponsored	Government Arts College for Women(A), Pudukkottai 19.03.2009
3	National Seminar on Renewable energy- An Amazing Resource	UGC Sponsored	A. D. M College for Women(A), Nagapattinam. 20 th and 21 st January 2011
4	5 th International Symposium On Recent Trends in Macromolecular Structure and Function (ISRTMSF-2012)	University of Madras	University of Madras, Chennai. 23 rd to 25 th January 2012

5	Current Trends in Material Science & Nanostructured Materials (CTMN-2013)	Cauvery College for Women- National Seminar	Cauvery College for Women, Tiruchirappalli. 23 rd & 24 th January 2013
6	National Conference on Perspectives in Materials Science(NCPMS - 2013)	UGC Autonomous Grant) & SERB Sponsored National Conference	Government Arts College for Women(A), Pudukkottai. 6 th and 7 th August 2013
7	3D Structure Determination of Small Molecules	UGC Autonomous Grant) Sponsored	Government Arts College for Women(A), Pudukkottai 10 th October 2013
8	International Conference on Advances in Material Science (ICAMS-2017)	Holy Cross College	Holy Cross College(A) Thiruchirappalli. 6 th and 7 th January 2017
9	Faculty Development Programme on Quality Enhancement	UGC Sponsored	Government Arts College for Women(A), Pudukkottai 2 nd Feb 2017
10	Powder X-ray Diffraction Data Analysis	Srimad Andavan Arts and Science College(A)	Srimad Andavan Arts and Science College(A), Tiruchirappalli. 5 th and 6 th October 2017
11	Asia Pacific Academy of materials (APAM) Special Lecture series	Bharathidasan University	Bharathidasan University, Trichy 13 th February 2018
12	Recent Trends in Nano and Bulk superconducting and Magnetic materials	Tamil Nadu State Council for Higher Education, Tamil Nadu State Council for Science and Technology	Srimad Andavan Arts and Science College(A), Tiruchirappalli 20 & 21 st December 2018.
13	National Seminar on Specific Industrial and Environmental Applications of Physics	Srimad Andavan Arts and Science College(A)	Srimad Andavan Arts and Science College(A), Tiruchirappalli. 18 th December 2019
14	International Webinar on Recent Trends in information technology	J. J. College of Information Technology	J. J. College of Information Technology, Pudukkottai. 24 th May 2020

15	Online Physics Quiz 2020	PSNA College of Engineering & Technology	PSNA College of Engineering & Technology, Dindigul 24 th May 2020
16	Fundamentals of Nano Science	Thiru Kolanjiappar Government Arts College	Thiru Kolanjiappar Government Arts College, Vriddhachalam 25.05.2020
17	International Webinar on MRI & Raman Spectroscopy	Arulmigu Palaniandavar Arts College for Women(A)	Arulmigu Palaniandavar Arts College for Women(A), Palani 27.05.2020 & 28.05.2020
18	Characterization of Materials at Nano order Scale Length - A SAXS Approach	SNS College of Technology	SNS College of Technology, Coimbatore 25 th May 2020
19	An over view of GST and impact of COVID-19 on GST	Government Arts College for Women(A), Pudukkottai	Government Arts College for Women(A), Pudukkottai 28 th May 2020
20	International Webinar on sample preparation for TEM and Data Analysis	Madurai Kamaraj University	Madurai Kamaraj University 30 June 2020
21	FDP on Advanced materials for energy environment & Healthcare applications	Sethu Institute of Technology	June 29,30 & July 1 st 2020
22	Impact of COVID-19 on tourism Industry	Government Arts College for Women(A)	Government Arts College for Women(A), Pudukkottai 10 th October 2020
23	International Webinar on "Online tools for effective research"	Ryan Publishers	Ryan Publishers 26 th September, 2020
24	Workshop on "Curriculum Design & Development based on Learning Outcomes	IQAC	Government Arts College for Women(A), Pudukkottai 21/11/2020
25	International Webinar on "Recent Advances in material science	Aditanar College of Arts and Science, Tirunelveli	Aditanar College of Arts and Science, Tirunelveli

26	Webinar on “ Moco to Nano future of the Science and Technology”	Government Arts College for Women(A), Pudukkottai	Government Arts College for Women(A), Pudukkottai 10 th June 2021
27	Webinar on” women entrepreneurship in pandemic era grit to survive	Government Arts College for Women(A), Pudukkottai	Government Arts College for Women(A), Pudukkottai 10 th June 2021
28	Webinar on “Computers in Scientific Research”	Government Arts College for Women(A), Pudukkottai	Government Arts College for Women(A), Pudukkottai 11 th June 2021
29	International Webinar on “ Safe Products by Smart Microbes”	Government Arts College for Women(A), Pudukkottai	Government Arts College for Women(A), Pudukkottai 11 th June 2021
30	Webinar on “ Role of softskills in Career Development”	IQAC	Government Arts College for Women(A), Pudukkottai 19 June 2021