

**Govindammal Aditanar College for Women, Tiruchendur**  
**Faculty Profile**



1. Name (in Block Letters) : Dr. R. GANDHIMATHI
2. Department : Physics
3. Qualification : M.Sc., M.Phil., PGDCA., Ph.D., SET
4. Present Designation : Associate Professor
5. Contact No. : 9445291311
6. Email id : [gandhimathi.phy@gmail.com](mailto:gandhimathi.phy@gmail.com)
- Vidwan id : 593366
- Vidwan Link : <https://vidwan.inflibnet.ac.in/profile/593366>
7. Date of joining : 16.06.2008
8. Field of specialization in research : Crystal Growth
9. Title of the Thesis : Crystal Growth and Studies of some Tartaric  
Acid Compound Crystals

**10. Orientation/FDPprogrammes/other short-term courses attended**

S. No.	Name of the course	University/ Institute	Duration in days	From - To
1.	Orientation Programme on Professional for Physical Sciences	Bharathiyar University, Coimbatore & TANSCH	1 day	30-09-2020
2.	FDP on Recent	Sree Saraswathi	7 days	16-06-2021

	Developments in Material Science	Thyagaraja College, Pollachi		to 21-06-2021
3	FDP on Recent Trends in Material Physics	Karpagam Academy of Higher Education, Coimbatore	7 days	22-06-2021 to 28-06-2021
4	FDP on Microsoft Office	Naan Mudhalvan in partnership with Microsoft	5 days	04-04-2022 to 08-04-2022
5	FDP on Train the trainer program on Digital Productivity and AI Fluency	Naan Mudhalvan in partnership with Microsoft	5 days	28-08-2023 to 01-09-2023
6	FDP on Innovations in Sustainable Research and Modern Data – Driven Approaches	St. Joseph University, Nagaland	5 days	14.10.2024 to 18.10.2024

#### 11. Participation /Presentation in seminar/workshop/symposia/conference:

S.No.	Level (State/national/international)	Participation /presentation	Title of the paper presented	Title of the seminar/workshop/symposia/conference (Specify online/offline)	Date and Venue
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1.	University	Participation	-	Workshop on skill - based subjects “Personality Development and Effective Communication”	14-12-2009 & 15-12-2009 V.O.C College, Thoothukudi
2.	National	Participation	-	XVI National Seminar on “Crystal Growth”	19-01-2012 to 21-01-2012 Aditanar College of Arts & Science, Tiruchendur.
3.	National	Participation	-	National workshop on “Advanced Material”	25-01-2012 P.S.N. College of Engineering & Technology, Tirunelveli.
4.	National	Oral Presentation	Growth and Characterization of Manganese Sulpho Tartrate (MST) - a semiorganic NLO crystal	National seminar on materials, process and applications of novel technologies NMAT-2013	H.H.M.S.P.B.N. S.S College for women, Thiruvananthapuram,
5.	National	Poster Presentation	Growth and Characterization of Di-Ammonium Hydrogen Phospho Tartrate (DAHPT) - a semiorganic NLO crystal	National seminar on materials, process and applications of novel technologies NMAT-2013	07-11-2013 & 08-11-2013.  H.H.M.S.P.B.N. S.S College for women, Thiruvananthapuram,
6.	National	Poster Presentation	Synthesis, Growth,	National seminar on advances in Materials	29-09-2014 & 30-09-2014

			Structural, Optical, Mechanical and Thermal Characterization of Di Ammonium Hydrogen Phospho Tartrate (DAHPT) Crystal.	Science NSAMS-2014	ManonmaniamS unadaranar University, Tirunelveli
7.	International	Poster Presentation	Growth, Optical, Spectral and Mechanical properties of Sodium Chloro L-Tartaric Acid Single Crystals	International Conference on recent trends in Materials	22-12-2014 & 23-12-2014  Devanga Arts College, Aruppukottai.
8.	State	Oral Presentation		State level Seminar on “Recent Trends in Materials Science” (RTMS - 2016)	11-01-2016 Sadakathullah Appa College, Tirunelveli.
9.	National	Participation	-	National Seminar on “Recent Trends in Materials Science”	16-02-2018 Aditanar College of Arts & Science, Tiruchendur.
10	National	Participation	-	National level Seminar on Luminescence Dating Technique and NH <sub>3</sub> Gas Sensors	18-12-2019 Wavoo Wajeetha Women’s College of Arts Science
11		Participation	-	Muicro& Nanotechnology and its applications	14.05.2020 G.T.N. Arts College

					(Autonomous), Dindigul
12	International	Participation	-	Functional novel Materials for Electrochemical Sensors and Energy Storage Devices	15-05-2020 Thiagarajar College, Madurai
13		Participation	-	Series of online lectures in Solid State Physics-Series 1: 'Eletrons in Solids'	26.05.2020 to 30.05.2020 Department of Theoretical Physics, University of Madras,
14	State	Participation	-	Five days Virtual Workshop on "Analytical Instrumentation"	05-07-2020 to 09-07-2020 B.S.Abdur Rahman Crescent Institute of Science & Technology
15	International	Participation	-	Webinar on "Emerging semiconductor materials and its day- to-day applications"	09-07-2020 Sri Sarada College for Women, Tirunelveli
16	National	Participation	-	Webinar on "Recent Trends in Crystal Growth"	10-07-2020 St.Xavier's College, Palayamkottai
17	National	Participation	-	Webinar on "Greening the Red Planet"	17-07- 2020Aditanar College of Arts and Science, Tiruchendur

18	International	Participation	-	Webinar on Astronomy and Astrophysics entitled “Are We Alone in the Universe?”	24-07-2020 Karunya Institute of Technology and Sciences, Coimbatore
19	International	Participation	-	Webinar on “Developing Digital Literary Skills”	03-08-2020 Govindammal Aditanar College for Women, Tiruchendur
20		Participation	-	Webinar on “Recent trends in Green Energy Harvesting Technology”	23-04-2024 JP College of Arts and Science, Tenkasi
21	National	Participation	-	Webinar on “Recent Developments & Future Advancements in Nanotechnology”	05-05-2021 Nehru Institute of Tehnology, Coimbatore
22	International	Participation	-	Conference on “Sustainable Materials and Technologies for Bio and Energy Applications”	19-05-2021 to 21-05-2021 SSN College of Engineering, Chennai
23	National	Participation	-	Webinar on “Microstructural Characterization of Pozzolan Materials”	28-05-2021 St. Joseph University, Dimapur, Nagaland
24	International	Participation	-	Seminar on “Nonlinear Physics”	05-06-2021 SSN College of Engineering, Chennai
25	National	Participation	-	Webinar on “Analyse of Structure and Surface Morphology of Engineering Materials using various Microscopy Techniques”	14-06-2021 Dr M.G.R Educational and Research Institute, Chennai
26	International	Participation	-	Webinar on “Astronomy and Astrophysics”	24-06-2021 & 28-06-2021 Karunya

					Institute of Technology and Sciences, Coimbatore
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## 12. Research publications:

S. N o.	Name of the Journal, Vol.&Issue no., year, pp. no.& ISSN no.	Title of the paper	UGC CARE listed journal (Yes / No)	Author Order
1	IOSR Journal of Applied Physics (IOSR-JAP) ISSN : 2278-4861 Volume 6, Issue 6, Ver. IV (Nov. - Dec. 2014), PP 30-37	Growth and characterization of Di-Ammonium Hydrogen Phospho Tartrate (DAHPT) – A Semiorganic NLO crystal	No	I  R. Gandhimathi, C. Muthu Krishnan, P. Selvarajan
2	Elsevier – Optik- International Journal for Light and Electron Optics 126(21)(2015) PP 2925-2929	Growth and characterization of Magnese Sulpho tartrate (MTS) – A semi organic NLO crystal	Yes (SCOPUS)	I  R. Gandhimathi, C. Muthu Krishnan, P. Selvarajan
3	Journal of Advanced Physics 5 (2016) Page No. 1-6	Growth and characterization of Sodium Chloro L-Tartaric Acid (SCLT) – A semi organic Nonlinear optical crystal	Yes	I  R. Gandhimathi, C. Muthu Krishnan, P. Selvarajan

4	International Organization of Scientific Research Vol. 3, 2017, PP 31-38. ISSN : 2278-4861	Growth, Dielectric, Impedance and THG properties of Di-Ammonium Hydrogen Phospho Tartrate (DAHPT) single crystals	No	I  R. Gandhimathi, C. Muthu Krishnan, P. Selvarajan
5	Taylor & Francis – International Journal of Green Energy <a href="https://doi.org/10.1080/15435075.2024.2332918">https://doi.org/10.1080/15435075.2024.2332918</a> Volume 21, 2024 Issue 12 ISSN No: 1543-5083	An overview of photocatalytic degradation of agricultural pollutants in water	Yes (SCOPUS)	II  B Malini, R Gandhimathi
6	International Journal of Environmental Analytical Chemistry <a href="https://doi.org/10.1080/03067319.2024.2384653">https://doi.org/10.1080/03067319.2024.2384653</a>	Benefits and challenges of nanotechnology-based photocatalysts in achieving a pollution free environment	Yes (SCOPUS)	II  B Malini, R Gandhimathi
7	Oxidation Communications 47, No 2, 327 – 339 (2024)	Rosebengal Dye – Photocatalytic degradation – Sunlight aided toxicity removal using Silver doped Titania	Yes (SCOPUS)	II  B Malini, R Gandhimathi
8	Journal of Research in Chemistry Vol. 5, Issue 1, Part C, 2024, PP No. 211-220 & P-ISSN: 2709-9415, E-ISSN: 2709-9423	Synthesis, growth and characterization of a new nonlinear optical crystal: Magnesium Chloro L-Tartaric acid (MCLT)	No	II  B Malini, R Gandhimathi
9	International Journal of Advanced Chemistry	Copper doped Titania: Characterization and	No	II

	2024; 6(1): 237-248 <a href="https://doi.org/10.33545/26646781.2024.v6.i1c.235">https://doi.org/10.33545/26646781.2024.v6.i1c.235</a>	Photocatalytic performance on Rosebengal dye		B Malini, R Gandhimathi
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### 13. Book / Chapter Publications:

S. No.	Title of the book	Name of the publisher and the year of publication	ISBN No.
1.	Process and Applications of Novel Technologies	Nalini Publications, Nagercoil. 2013	9789380609157
2.	Advances in Materials Science	Department of Physics and Publication division, Manomaniam Sundaranar University, Tirunelveli. 2014	9789381402160

### 14. Membership in the academic bodies of the University /other institutions:

**Question paper setting:** St. Mary's College, Thoothukudi and Sarah Tucker College, Tirunelveli

### 15. Seminars/Workshops/ Enrichment programmes organized :

Practical Enrichment Programme" for +2 Students from 2010 onwards

### 16. Administrative / Other Experience:

- AQAR Preparation:** In charge of Criterion VII for the Annual Quality Assurance Report (AQAR) preparation from 2016 to the present year.

2. **UMIS** :Nodal Officer of University Management Information System from 2022 onwards.
3. **ABC ID** : Coordinator of Academic Bank of Credits from 2021 onwards.
4. **Committee Membership**: Served as a member of various committees within the college, contributing to institutional growth and development.