

**CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
STAFF PROFILE**

PERSONAL INFORMATION

1. Name : Dr.G. MAHESWARI

2. Date of Birth : 28.05.1979

3. Address :

Residential	Office
PLOT NO .42 SRI SAI NAGAR, NEAR SBIOA SCHOOL , RICEMIL STOP , UDAYANPATTI, KK NAGAR, TRICHY DISTRICT PIN CODE- 620 007	CAUVERY COLLEGE FOR WOMEN, ANNAMALAI NAGAR, TRICHY – 620 018

ACADEMIC INFORMATION

4. Designation & Department: HEAD &ASSOCIATE PROFESSOR, DEPT. OF PHYSICS

5. Educational Qualification :

Degree	Year	College/University
Ph.D	2020	St .Joseph's College(Autonomous), Trichy
P.G.D.H.E.T	2006	Bharathidasan university, Trichy
M. Phil.,	2002	St. Joseph's college, Trichy
M.Sc.,	2001	Bishop Heber College, Trichy
B.sc.,	1999	Cauvery college for women, Trichy- 18

6. Experience :

Date of Joining	Institution	Year of Experience
09.07.2003	Cauvery College For Women	18

7. Areas of Specialization : Ultrasonics, thin film physics and vibrational spectroscopy

8. Languages known : TAMIL, ENGLISH

9. Subjects Taught :

UG	Properties of matter, Mechanics and Relativity, Mechanics, Optoelectronic and Fiber optic communications, Electricity Magnetism and Electromagnetism, Thermal and Statistical Mechanics, Heat and Thermodynamics, Programming in C, Optics, Electronics, Applied Physics-I, Applied Physics-II, Allied Physics, Digital electronics, Spectroscopy and Laser Physics, Nuclear and Particle Physics, Industrial Electronics.
PG	Nonlinear Optics, Solid state physics, Classical Dynamics and Relativity, Atomic and Molecular Physics, Electromagnetic Theory, Electronics-I.

10. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
Journal of Applied Electrochemistry	2016	0021-891X	Betalain and anthocyanin dye-sensitized solar cells	2.223
Journal of solid state Electrochemistry	2017	1099-0062	Effect of TiO ₂ /reduced graphene oxide composite thin film as a blocking layer on the efficiency of dye-sensitized solar cells	2.327
Journal of Materials in Electronics: Material Science	2017	0957-4522	Reduced graphene oxide embedded titanium dioxide nanocomposite as novel photo anode material in natural dye-sensitized solar cells	2.324
International Journal of Research and Analytical Review	2019	2349-5138	FT-IR, UV, Molecular Structure, MESP, NBO, HOMO-LUMO Investigation and Modeling of Oligomers of Polyvinyl Alcohol for Dye-Sensitized Solar Cell Application: a DFT Approach	5.75

Journal of Information and Computational Physics	2019	1548-7741	Theoretical Insights of Poly Ethylene Oxide to Predict the Properties for Dye-Sensitized Solar Cell Applications: a DFT Approach	0.15
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11. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
29.12.2005 - 30.12.2005	Dept of educational technology, Bharathidasan University & British Council, Chennai.	Indo-British seminar on Educational technology for the empowerment of the disadvantaged communities	Meeting the needs of disadvantaged community through Technology
21.12.2009 - 23.12.2009	VIT university, Vellore, Tamilnadu.	18 th national symposium on ultrasonics	Ultrasonic investigation on surfactants in the presence of builders and fillers
29.01.2016 - 30.01.2016	Department of Physics in association with Materials Research Society of India & IEEE Nanotechnology council, Hindustan University, Chennai	National Conference on Advanced in Applied Physics and Materials Science.	Investigation of Polyvinyl alcohol for solar cell application
07.10.2016	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli.	Preparation and characterization of Polyvinyl Alcohol-Solar cell application.	National conference on Advanced Materials-2016 (NCAM-2016)
06.01.2017 - 07.01.2017	Department of Physics, Holy Cross College (Autonomous), Tiruchirappalli.	A study of Polymer Nano Composite Thin films- Solar cell applications.	International conference on Advances in Material science.
15 .02.2017	Department of Physics, Jamal Mohammad College (Autonomous), Tiruchirappalli.	Preparation and physical properties of Polyvinyl alcohol doped with Potassium iodide and iodine thin films-solar cells.	National level seminar on "Recent Advancements in Materials"(NLS-RAM:17)

04.08.2017	Department of Physics Mother Teresa Women's University, Kodaikanal	Investigation of biodegradable polymer as polymer electrolyte in Dye Sensitized Solar Cells (DSSCs)	One day International seminar on "Materials Science and Technology (ISMT- 2017)
14.12.2017 - 15.12.2017	Department of Physics St. Joseph's College (Autonomous). Tiruchirappalli	A study on electrolyte interactions with polymer and nanofiller for Dye Sensitized Solar cells	Two days International Conference on Advanced Materials (ICAM-2017)
29.01.2018	PG & Research Department of Physics, Bishop Heber College (Autonomous) Tiruchirappalli	Theoretical studies on electronic, optical and thermodynamical properties of biodegradable polymer for solar cell application	One day International Conference on Material physics (ICOMP-2018)
04.02.2019 - 06.02.2019	PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli & Swansea university, United Kingdom	Theoretical insights of poly oxide to predict the properties sensitized solar cell application approach	India – UK Second international conference on "Advanced nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2019)

12. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
07.09.2010	PG & Research Department of physics, Bishop Heber College (Autonomous), Trichy-17.	"Recent Advances in Spectroscopic techniques"	National	-
07.10.2010	Department of physics, Jamal Mohamed College (Autonomous), Trichy.	"Nano Science and Technology"	National	-

10-04 -2020	Center for Virtual Learning, Dr.N.G.P. Arts and Science College, Coimbatore	Moodle Learning Management system	National (FDP)	-
03.05.2020	PG Dept of Physics, Cauvery College For Women(Autonomous),Tir uchirappalli	How Nanoscience and Technology Inspired fromNature and Transforming World	State Level (Webinar)	-
05.06.2021	Department of Physics,Noorul Islam Centre for Higher Education,Kumaracoil, Kanyakumari	Opportunitie s and Approaches to get National and International Fellowship	State Level (Webinar)	-

13. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Topic/Position
23.01.2013 & 24.01.2013	TNSCST sponsored two days national seminar on current trends in material science and nano structured materials CTMN-2013	National	Organizing Secretary
12.12.2015	NGO sponsored one day symposium on Einstein's general theory of Relativity- GTR 100 "2015"	National	Organizing Secretary
03.05.2020	How Nanoscience and Technology Inspired fromNature and Transforming World	International	Organizing Secretary

14. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
30.05.2005 - 26.06.2005	Orientation Course	UGC Academic Staff College, Bharathidasan University, Tiruchirappalli- 620 003.
27.11.2017- 09.12.2017	Science Academies Refresher Course on Quantum Mechanics	Indian Academy of science, Bangalore and National Science Academy, New

		Delhi and The National Science Academy of Science, Allahabad.
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15. Details of Membership in Academic Bodies/ Board of Studies:

Board of studies – St.Joseph’s College (Autonomous) Tiruchirappalli. 2016-2017.

16. Details of Membership of Professional Bodies:

Life time member of Indian society of systems for science and engineering (ISSE) –
2017 to till date