

**Government Arts college (Autonomous),
Coimbatore - 18 Performance - Teacher**

i) General Information

- a) Name : A.UMA MAHESWARI
- b) Address (Residential) : 33B/18, Pasumpon Nagar,
Irugur(Post),Irugur,
Coimbatore -103
Mobile:9042061176/8072565880.
- c) Designation : ASSOCIATE PROFESSOR
- d) Department : PHYSICS
- f) Date of Birth : 30 MAY 1979
- g) Area of Specialisation : MOLECULAR QUANTUM MECHANICS



A) Academic Qualification Exam Passed	Subjects	Board/University	Year	Division/Grade/Merit
High School	Tamil,English Maths,Science& Social Science	Board of Secondary Education	1994	77.2% / 1st Class
Higher Secondary or Pre - degree	Tamil,English, Maths,Physics, Chemistry & Biology	Board of Higher Secondary Education	1996	54.9% / 2nd class
Bachelor' s Degree	Physics	Madurai Kamarajar University	1999	65.3% / 1st Class

Master ' s Degree (s)	Physics	Annamalai University	2001	64.9% / 1st Class
Research Degree (s)(i)M.Phil	Physics	Annamalai University	2003	68.3% / 1st Class
(ii)Ph.D	Physics	Annamalai University	2008	Highly Commented

ii) Research Experience :

Research Stage	Title of work / Thesis	University where the work was carried out
M. Phil. or Equivalent	Dielectric and Fourier Transform Infrared Spectroscopic Studies of 1 -Octanol with Amylacetate, Anisole, Cyclohexanone and Salicylaldehyde in CCl ₄	Annamalai University
Ph. D.	Dielectric and FT-IR studies of Molecular Interactions in a few liquid systems	Annamalai University

Publications:

"Journal of Molecular Liquids"	"Dipolemoment studies of some substituted anilines with Phenols"	Vol.124 , (2006),Pg:19-22
"Journal of Annamalai University, Science "	"Dipolemoment studies of molecular complexes of 1- Heptanol and 1-Octanol with Amyl Acetate and Anisole in carbontetrachloride system"	Pg.85-90, (2003)
"International Journal of current advanced Research"	"Formation constant and free energy values of 1:1complexes of Paraffinwax,Cholesterol,Naphthalene with Phenol"	Vol.7,Jan. (2018), Pg.9135-9139.

"Journal of Atoms and Molecules"	"Interaction studies of Noradrenaline with alcohols"	Vol.7(4), (2017),Pg.1081-1090
"International Journal of Scientific research and Reviews"	"Formation constant and freeEnergy values of 1:1 complexes of1 - Bromohexane,1- Bromodecane,1- Bromooctane With O- Nitrophenol in CS ₂ "	Vol.7(4),(2018),Pg.736-743
"International Journal for Research in Engineering Applications and Management"	"Interactions studies on 1- Bromohexane, 1-Bromodecane, 1-Bromooctane With O- Nitrophenol in CS ₂ -Dft approach"	Vol .4, Issue-05, Aug. (2018)
International Studies of thin films Science and Technoloav	"Spray Deposition and Characterization of P-type Li doped NiO Thin Films"	Vol.8(2),Pg:59-64

Research Guidance:

M.Phil Scholars:	Title of the Thesis	Duration and Institution
A. Nagaraj (PT- M. Phil)	"FT-IR studies of Napthaline,Cholesterol and Paraffine wax in Carbontetrachloride System"	2011-14,Bharathiar University
G. Savithiri (PT- M. Phil)	"FT-IR,UV-VIS,ULTRASONICS studies of Phenol with Triethylamine in N-pentane system"	2015-17,Bharathiar University

A.Chandirakala(FT-M.Phil)	"FT-IR,UV-VIS,ULTRASONIC studies of O-Nitrophenol with Triethylamine in N- Heptane system"	2016-17,Bharathiar University
Ph.D Scholar:		
P.Sivashankar(PT-Ph.D)	Pursuing	2012 to till date
C.Ramyatha(FT-Ph.D)	Pursuing	2018 to till date
J.Jasmine Sharmila (PT-Ph.D)	Pursuing	2021 to till date

Training:

Stage	Title of work	Where the work was carried out
31/07/2013	"State Council of Educational Research and Training"	Chennai-6
02/09/2013 & 03/09/2013	"Content Enrichment Try for PG Teachers"	Coimbatore

B) Research Projects carried out

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

Seminars/Conferences/Symposia/Workshop/FDP/etc attended (if necessary give a separate list)

Workshop: 1.Prof.K.S.Sonachalam Memorial XII Workshop on Research Methodology	Department of Economics, Annamalai University.	Annamalainagar-608 002 Feb.28th-Mar.4th,2002
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<p><u>One day Work Shop:</u></p> <p>2.Bloom's Taxonomy based Question paper Design for outcome based Education in Physics</p>	<p>Department of Physics,IQAC & Outcome based Education monitoring Council</p>	<p>Ayya Nadar Janaki Ammal College,Sivakasi -626 124. Sep.27 ,2021</p>
<p>FDP on Mathematical Physics: (Offline)</p>	<p>Department of Physics,PSGR Krishnammal College for women & Department of Bio-Technology</p>	<p>Coimbatore, Tamil Nadu, India. Nov.20-21,2018</p>
<p>Online FDP: Statistical Mechanics</p>	<p>Department of Physics,PSGR Krishnammal College for women & Department of Bio-Technology</p>	<p>Coimbatore, Tamil Nadu, India. May.25-29(Five days),2018</p>
<p>FDP: Online 3.Recent Research Advances Materials:Water and Waste water Treatment</p>	<p>Department of Science and Humanities Bharat Institute of Engineering and Technology and Indian Ceramic Society</p>	<p>Hyderabad, Telangana. Aug.02 -07(One Week),2021</p>

<p><u>Conference:Seminor:</u></p> <p>"4th Asian Meeting on Ferroelectrics(AMF-4)"</p>	<p>Indian Institute of Science, J.N.Tata Auditorium.</p>	<p>Bangalore- 560012, India. Dec.12th -15th,2003</p>
<p>"UGC Sponsored National Seminar on Emerging Trends in Molecular Physics (NASETMP-2004)"</p>	<p>Department of Physics, Annamalai University.</p>	<p>Annamalainagar- 608 002. Mar.8th & 9th,2004</p>
<p>"UGC Sponsored National Seminar on Modern Trends in Applied Spectroscopy (NASMTAS-2004)"</p>	<p>Physics Section, Faculty of Engineering and Technology, Annamalai University.</p>	<p>Annamalainagar- 608 002. Mar.25th & 26th,2004</p>
<p>"International Conference on Spectrophysics(INCONS 2005)"</p>	<p>Indian Spectrophysics Association (ISPA) and Post Graduate and Research Department of Physics, Pachaiyappa's College.</p>	<p>Chennai - 600030, India. Feb.9th - 12th ,2005</p>
<p>Orientation : "Tamilnadu State Council for Higher Education and University Grants Commission" -Orientation Programme</p>	<p>Academic Staff College, University of Madras.</p>	<p>Chennai. Oct.13th - Nov.8th,2008</p>
<p><u>Refresher Course:</u></p> <p>"UGC - Academic Staff College UGC -Sponsored Refresher Course"</p>	<p>Bharathiar University, Coimbatore-641 046</p>	<p>Coimbatore 641 046. Nov.9th - 29th,2010</p>
<p>"UGC-Academic Staff College,UGC-Sponsored Refresher Course"</p>	<p>Bharathiar University, Coimbatore-641 046</p>	<p>Coimbatore-641 046 Dec.3rd - 23rd,2014</p>
<p>"UGC-HRDC,Bharathiar University -Refresher Course"</p>	<p>Bharathiar University, Coimbatore-641 046</p>	<p>Coimbatore-641 046 Nov.20 -Dec.3 (14 days),2019</p>

iii) Teaching Experience

Courses Taught	Name of the University / College / Institution	Duration:
iv) UG (B.Sc.)	Department of Physics, Sethupathy Govt.Arts College, Ramanathapuram(Dist)	13.10.2008 To 15.07.2010
v) PG (M.Sc)	Department of Physics, Govt.Arts College (Autonomous), Coimbatore -018	16.07.2010 To Till Date
vi) M. Phil and Ph.d	Department of Physics, Govt.Arts College, Coimbatore-018	2011 & 2012 To Till Date
vii) Any other	(i) <u>Act as Coordinator</u> : Remedial classes conducted to UG (SC/ST/MBC) Students	2013- 14 and 2016- 17
	(ii) <u>Act as Subject Expert</u> : Department of Physics, Kongunadu Arts and Science College, Coimbatore	2018- 19
	iii) Act as TNPSC Exam Coordinator	2022-23

Total Teaching Experience (in years and months) :

- a) Under-graduate (Pass) : In private college- Nil service
UG - In Govt Arts college - 14 yrs & 11 months
- b) Under-graduate (Hons.) :
: PG - In Govt Arts college - 11 yrs & 10 months
- c) Post-graduate

Viii) Innovations/ Contributions in Teaching (If necessary give a separate list)

a) Design of Curriculum :	Board of studies member in Govt Arts college, CBE-018
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b) Teaching methods :	Lecture,group discussion,senior,assignment,Test assessment,Powerpoint presentation
c) Laboratory experiments :	Conducting Practical experiments in the Lab,
d) Evaluation methods :	Conducting Frequent test, Model practicals, assignment
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	Prepared study material for UG & PG
f) Remedial Teaching / Student Counseling (academic) :	Two Years(2013 & 2016) conducted Remedial classes for UG (Back lock) students
g) Any other :	TNPSC Departmental Exam Passed on 28/05/2016

ix) Extension Work/ Community Service (If necessary give a separate list)

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.

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

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.

(b) Editorship of Journals

F. Any other information

A. Umamaheswari

(Signature of the Teacher)

