Resume

I General Information

Name : Dr. K.UMA MAHESWARI

Father's Name : K.Krishnan

Age & Date of Birth : 57 Years

Designation : Associate Professor & Head

Department : Physics

Mobile No : 9486726991

Email ID : <u>umamaheswarivvvcollege.org@gmail.com</u> &

umannt@gmail.com

Service in other colleges : Years Months

Date of appointment : 20.05.1985 Date of retirement : 31.05.2020

II Educational Qualification

Examination	Doord/I Iniversity	Subject	Year of	Class /
Passed	Board/University	Subject	Passing	Percentage
SSLC	Board of Secondary	Tamil,	1978	I
	Education	English,		
		Mathematics,		
		Science &		
		History&		
		Geography		
PUC/ Higher	Board of Higher	Physics	1979	I
Secondary	Secondary Education	Chemistry		
	-	Biology		
Bachelor's	Madurai Kamaraj	Physics	1982	I
Degree	University. Madurai			
Master's Degree	Madurai Kamaraj	Physics	1984	I
	University. Madurai			
M.Phil	Madurai Kamaraj	Physics	1992	I
	University. Madurai			
PhD	M .S University	Physics	2018	
	Thirunelveli			

III Teaching Experience : UG : 34 Years

PG : 4 Years M.Phil : - Years PhD : - Years Field of Specialization : Thin Films & Solar Thermal Energy Technology

Awards won : -

IV Research Experience

Minor Research Project

Topic	Period	Funding Agency	Amount sanctioned in `
Experimental investigation on	2008-	UGC	56,640
Conical shaped Desalination system	2010		
used for irrigating medicinal plants			

No. of articles published in Journals

International : 1 National : 2

No. of papers presented in Seminars / Conferences

International : 4 National : 9

No. of articles published in Books / Conference Proceedings:

Year	Book title / Conference	ISBN	Article title
2010	Renewable Energy	ISBN: 978-81-	Experimental investigation
	Research.	908283-7-6	on conical shaped
		Page no : 67-71	Desalination system
2011	Innovative Strategy	ISBN::978-81-	Experimental Estimation
	forTechnical Devolopments	910426-6-5	The Thermal Performances
	and Designing New Business	910420-0-3	of Copper, Aluminium and
	Model in Renewable Energy	Page no: 40-	Mild Steel Absorber
	Sector.	45	Integrated solar collectors'-
2011	Energy Conservation and	Page no: 22	Optical and Thermal
	Renewable Energy Technology		Characteristics of integral
			components of solar
			thermal gadgets.
2011	Challenges of Commerce	Page no:316	A Study on viability of
	Education in the Twenty first		selected Solar Gadgets
	century		
2012	Science and Technology for	Page no: 88-	Experimental assessment of
	Clean and Green Environment	89	the Energy, Environmental
		67	and Economic benefits of
			Flat Plate Collector assisted
			Solar Thermal Systems.
2013	Multidisciplinary Research	ISSN:2347-	Characterization of nano-
	Journal of VVVCollege	3967	chromium based absorptive
		Volume 1-	coating on solar Fins
		Number 2	

2014	National Seminar on Advances in Material Science	ISBN: 978- 93-81402-16-0 Page no: 147- 149	Thermal analysais on solar collecter with nano-chromium coated absorbers
2014	Solutions to Ecological Challenges: Multidimensional perspectives	ISBN: 978-81- 926370-2-0 Page no : 130- 135	Solar heating and cooking systems: An assessment on technical feasibility, thermal performance and mitigation of pollutants
2015	Modern Trends in Chemistry	ISBN: 978-93- 85109-02-7 Page no :24- 28	Studies on Nano-sized carbon coated fin, C/Al ₂ O ₃ coated absorber and TiO ₂ /Si O ₂ /Ag thin film coated Reflector.

Articles published

- 1. Uma Maheswari, K., and Jeba Rajasekhar, R.V., (2015), Absorptive coating with nano sized carbon and aluminum oxide: Preparation, characterization and estimation of thermal enhancement in solar absorber, *International Journal of Recent Scientific Research* 6:(3), 3226-3228
- 2. Uma Maheswari, K., and Jeba Rajasekhar, R.V., (2016), Experimental estimation of the thermal performances of copper, aluminum and mild steel absorber integrated solar collectors, *International Journal of Applied Research* 2(11): 459-461
- 3. Uma Maheswari, K., and Jeba Rajasekhar, R.V., (2017), Preparation and characterization of nano-carbon and aluminum oxide based fins and their applications in solar water heating collector, *Renewable Energy* 102: 44515-44519

Papers presented

Date	Seminar / Conference	Title of the paper	Venue
21.01.2010	National	Design, Fabrication and	V.H.N.S.N .College,
-	Conference	Performance Evaluation of low	Virudrunagar.
23.01.2010		cost Conical Shaped	
		Desalination System- UGC	
		Sponsored	
15.10.2010	National	Experimental Investigations on	Government Arts
	Conference	Novel Conical Shaped	College, Melur,
		Desalination System	Madurai, Tamilnadu.
03.04.2011	National	Experimental Estimation The	V.H.N.S.N .College,
-	Seminar	Thermal Performances of	Virudrunagar.
04.03.2011		Copper, Aluminium And Mild	
		Steel Absorber Integrated solar	
		collectors'- sponsored by	
		MNRE, Government of India	

22.09.2011	National Seminar	A Study on viability of selected Solar Gadgets'- UGC Sponsored	Département of Commerce, V.V.V.Collège
03.01.2012	National Conférence	Estimation of Thermal Performance of Solar flat plate collectors with variations in number of black chrome coated copper absorber fins.	V.V.V College
09.02.2013	National Seminar	Experimental Investigations Solar Arrays- UGC Sponsored	Amman College of Atrs & Science, Dindugal.
29.09.2014	National seminar	Thermal analysis on solar collector with nano-chromium coated absorbers- UGC Sponsored	Manonmanium Sundaranar University, Tirunelveli.
11.12.2014	International Conférence	Solar heating and cooking systems: An assessment on technical feasibility, thermal performance and mitigation of pollutants	Fatima College, Madurai
06.01.2017	UGC sponsored International Conférence	Experimental assessment gain and performance of nams structural solar absorber with carbon & Ferric oxide coating	Sri Meenakshi Government Art and College For Women , Madurai

Articles published in Books / Conference Proceedings

Books published / edited

Year	Book title	Published / edited	ISBN	Publisher
2013	Heat,	Published	ISBN:978-81-	Daisy &Darein
	Thermodynamics &		921895-0-5	Publisher Lld,
	Statistical Physics			Madurai.

V Seminars/Conferences/Workshops attended

Date	Seminar / Conference/ Workshop	Title of the Conference	Venue
22.08.2007	Workshop	Renewable Energy –Today and Tommorrow	KCET, Virudhunagar
22.12.2009 To 07.01.2009	-	Refresher Course in Experimental Physics	Indian Academy of Sciences, Bangalore, Indian National Science

			Academy, Delhi, National Academy of Sciences of India & M KUniversity
15.02.2010 & 16.02.2016	Seminar	Recent Trends in Condensed Matter Physics	M KUniversity Madurai
08.09.2011	State level Seminar	Utilization & Conservation of Energy	Sermathai Vasan College for Women
30.01.2012	State level Seminar	Recent Trends in Medical Imaging and Radiation Ongology Awareness Programme	Vivekananda College, Thriruvedagam (West)
22.01.2013	National level Seminar	Current trends in Crystal Growth and Solar Energy	Sri Meenakshi College For Women (Autonomous) Madurai
10.01.2014	State level Seminar	Emerging trends in Physics of Materials	The Madura College (Autonomous) Madurai
19.02.2014	International Symposium	Nano structures for Photovoltaic Applications	Fatima College, Madurai
20.02.2014	State level Seminar	Recent Trends in Solar Technologies	The American College, Madurai
04.09.2014 & 05.09.2014	Lecture Workshop	Understanding properties of Materials using Quantum Mechanics	Government Arts College,Melur, Madurai,Tamilnadu
07.11.2014 & 08.11.2014	Short Term Programme	Nano structured Materials : Processing and Characterization	NIT, Tiruchirapalli
19.11.2014	Workshop	Material Characterization Techniques-AFM& XRD	Madurai Kamaraj University, Madurai
09.01.2015	TNSCST sponsored Lecture	Multifunctional Materials::From Home Appliances to the Space Applications	
14.08.2015	National Seminar	Recent Trends in Energy Technologies	The American College, Madurai
19.02.2016	Workshop	Astronomy and Astrophysics	The American College, Madurai
29.09.2016 & 30.09.2016	National Level Workshop	The Role of National Skills Qualifications Framework in Designing the Curriculum	V.H.N.S.N .College, Virudrunagar.

$VI \qquad \textbf{Course attended (Refresher / Orientation / any other)} \\$

Name of the Course	Venue	Duration
Orientation Course	Bharathidhasan University,	03.10.1988 - 31.10.1988
	Trichy.	
Refresher course in	Madurai Kamaraj	26.02.1996 – 18.03.1996
Energy Science	University, .Madurai	
Refresher course in	Madurai Kamaraj	01.02.2000 - 21.02.2000
Physics	University, Madurai .	
Refresher course in	Vivekananda College	23.04.2001 - 140.5.2001
Value education	Thiruvedagam, Madurai	

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VII Role in Academic Bodies

As a member of Board of Studies

University / College	Period	Board
Sri Meenakshi Govt .Arts College For Women,	2007-2008,	B.Sc, Physics
Madurai.	2012-2013	
Devanga Arts College, Aruppukkottai.	2012-2013	B.Sc, Physics
Madurai Kamaraj University, Madurai	2014-2016	B.Sc., Physics
Sri Kaliswari Cllege (Autonomous) Sivakasi.	2014-2016	B.Sc, Physics
Mannar Thirumalai College Madurai	2015-2017	B.Sc, Physics
Mannar Thirumalai College Madurai	21.01.2017	B.Sc, Physics
Sri Meenakshi Govt. Arts College For Women, Madurai.	12.01.2017	B.Sc, Physics
Madurai Kamaraj University, Madurai	01.01.2017-	B.Sc., Physics
	30.06.2017	
Sri Ramasamy Naidu Memorial College	04.03.2017	B.Sc., Physics
Vivekananda College, Thriruvedagam (West)	2019-2020	B.Sc, Physics

As a member in

Inspection Commission / Interview Panel / others

Particulars	Date	Venue	Course / Post
CSIR-Research Associate Interview Selection	01.07.2011	Government Arts& Science College, Melur, Madurai, Tamilnadu	Selection committee member.
Selection committee member for the Best Exhibit –INSPIRE AWARD	31.10.2011	K.V.Sala Higher Secondary School, Virudrunagar.	Selection of the Best Exhibit – INSPIRE AWARD Science Exhibition- TNSCST, Chennai
Faculty Development Programme- UGC XII Plan	23.09.2015	Arulmigu Palaniandavar College Arts Culture, Palani	University Nominee for the Verification Process
Appointment of Assistant Professor	08.11.2016	ANJA College Sivakasi	Selection committee member
44 th Jawaharlal Nehru State level Science Exhibition, Department of School Education, Tamilnadu	26.11.2016	O.C.P.M.Girls Higher Secondary School, Madurai	Judge
Appointment of Assistant Professor	26.04.2017	SN College Madurai	Selection committee member
B.Sc, Course	18.05.2017	R.V. S. College of Arts And Science. Dinugal	Commission Member
Appointment of Assistant Professor	20.10.2017	S.F.R College for Women, Sivakasi	Selection committee member

VIII Resource person / Chairperson

Activity	Date	Topic / Theme	Event	Venue
Guest Lecture	28.01.2016	Fundamental	-	Vivekananda
		properties of nano-		College,
		structured materials		Thiruvedagam(West)

IX Seminars / Conferences / Workshops organized

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Date	Level	Theme		
08.10.2014	National Conférence	Recent Trends in Astro Physics.		
18.01.2017	National Seminar	Recent Trends in Medical Physics		

11.01.2018	Workshop	Nano materials and Characterization Techniques
01.02.2019	National Seminar	Recent Trends in Material science

X Student – oriented Service

Staff – in – charge of various activities in the

i. **Institution**:

2011 -2012	Academic audit Member
2012 – 2013	Member of Academic audit & Governing body Member
2013 -2014	Governing body Member
2014 -2015	NAAC Steering Committee member
2015-2016	NAAC Steering Committee member
2016-2017	IQAC Coordinator
2017-2018	NAAC Coordinator&
	Dean Science
2017-2018	Examination Committee Member
2017-2018	Governing body Member
2018-2019	College Council Member
2019-2020	Student Council Member

Department:

Time Table, Mark register, library in Charge, Work adjustment	
register, PTA meeting, Counselling	
Mark register, Remedial coaching	
Time Table, Association in Charge, Equipment in charge, Remedial	
coaching, Extension activity, Result analysis	
library-in-Charge, Work load, Time Table, Equipment in charge	
Work load, Time Table, Equipment in charge,	
PTA meeting, Work load, Time Table, Equipment in charge,	
Study tour, Work load, Time Table, Equipment in charge, In charge	
for Extra credit paper	
Work load, Time Table, Equipment in charge	
Work load, Time Table, Equipment in charge, In charge for Extra	
credit paper	
Work load, Time Table, Equipment in charge	

ii. Any other information (Membership in various academic related bodies / societies / associations)

Residential Address: 10, Preetham Street,

Duraisamy Nagar, Bye-pass Road, Madurai-625016