

FACULTY PROFILE

Name of the Staff : **Dr. RAMACHANDRAN M**
Official Address :
ARUMUGAM PILLAI SEETHAI AMMAL COLLEGE,
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Personal Details:

Age : 48
Date of Birth : 02/06/1976
Sex & Marital Status : Male & Married
Citizenship : Indian
Department : PHYSICS
Date of Joining : 10/01/2008

Qualification:

Degree	Programme and Specialization	Class/CGPA	Month & Year of Passing	Institute/University
Ph.D	Physics-Solid state ionics	Highly commended	09/2019	Alagappa University, Karaikudi
M.Phil	Physics-Crystallography	First	05/2006	M.S.University, Tirunelveli
M.Sc	Physics- Solid state Physics	First	04/1999	School of Physics, Madurai Kamaraj University, Madurai
B.Sc	Physics	Second	04/1997	H.K.R.H.College

Professional Experience:

Teaching Experience:

Designation	Institute/University	Period		Nature of Duties
		From	To	
Lecturer	H.K.R.H.College, Uthama Palayam	18/08/2000	03/04/2001	Teaching
Lecturer	J.C.College, Periyakulam	10/04/2001	10/04/2003	Teaching
Lecturer	C.P.A.College, Bodi	27/08/2003	09/01/2008	Teaching
Assistant Professor	A.P.S.A.College, Tiruppattur	10/01/2008	09/01/2021	Teaching
Associate Professor	A.P.S.A.College, Tiruppattur	10/01/2021		Teaching

Other Academic Credentials:

S.No	Title
1	Secured univervisty II rank in M.Sc., April 99, Madurai Kamaraj University, Madurai

Area of specialization:

S.No	Title
1	Solid state ionics, Nano science and Material science

Course Taught:

S.No	Course Title	U.G. or P.G
1	Fundamentals of nanoscience, Atomic Physics, General allied Physics-II, Solid state Physics, Optics and spectroscopy, General Allied Physics-I	U.G

H-Index:

Research Gate	Google Scholar	Scopus	Web Of Science
5	5	3	4
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Development or Training Activity:**Organized:**

S.No	Role	Title	Period		No. of Participants	Course Type	Type of Program
			From	To			
1	Convener	RTEM-2021	14/07/2021	15/07/2021	106		Virtual conference
2	Organizing secretary	National Webinar on Theoretical Physics-2020	27/06/2020	27/06/2020	68		Virtual seminar

Attended:

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
1	NCRTEM-2010	10/03/2010	11/03/2010	Department of Physics		National conference
2	ICMCT-2014	10/03/2014	12/03/2014	VIT, Vellore		International conference

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
3	National conference on crystal growth and Nano materials-2014	07/08/2014	09/08/2014	Department of Physics, National college, Trichy		National conference
4	National conference on Materials for energy storage and conversion	04/09/2014	05/09/2014	PSN Engineering College, Tirunelveli.		National conference
5	Biovision-2014	05/09/2014	06/09/2014	A.P.S.A.College , Tiruppattur		National conference
6	FACTs-2016	21/03/2016	23/03/2016	Department of Industrial chemistry, Alagappa university, Karaikudi		International conference
7	FUNMAT-2016	26/05/2016	28/05/2016	Functional Material division, CECRI, Karaikudi		National symposium
8	EApp-2016	27/06/2016	29/06/2016	Dept of Nano science and Nano Technology, Sathiyabama University, Chennai		International conference
9	NCEM-2018	28/06/2018	29/06/2018	Dept of Physics, M.S.University, Tirunelveli		National conference
10	ICONN-2019	28/01/2019	30/01/2019	Dept of Nano sciene and Nano Technology, SRM University, Chennai		International conference
11	NCAMSES-2019	20/03/2019	22/03/2019	Dept of Physics, Alagappa University, Karaikudi		National conference
12	Workshop on Innovative Approaches for sustainable Development of India	13/04/2013	13/04/2013	Industry and Consultancy Cell, Alagappa University		workshop
13	One day Acquaintance Programme on Experimental facilities at IUAC-New Delhi	15/11/2013	15/11/2013	School of Physics, Madurai Kamaraj University, Madurai		workshop
14	International Seminar on Advanced materials	26/01/2014	26/01/2014	Dept of Physics, SSA College, Devakottai		International seminar
15	Innovative Practice in Teaching and learning	04/10/2016	04/10/2016	IQAC, A.P.S.A.College , Tiruppattur		Seminar

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
16	Recent Trends in Advanced Energy Materials	10/03/2010	11/03/2010	School of Physics, Madurai Kamaraj University, Madurai		National level seminar
17	Recent Trends in Condensed Matter Physics	15/02/2010	16/02/2010	School of Physics, Madurai Kamaraj University, Madurai		National seminar
18	Recent Developments and Applications on Nano systems	10/03/2011	11/03/2011	School of Physics, Madurai Kamaraj University, Madurai		National seminar
19	77 th Annual Meeting of the Indian Academy of Sciences.	17/11/2011	20/11/2011	PRL, Ahmedabad		National level symposium
20	International Workshop on Advanced Energy Materials [IWAEM-2012]	09/10/2012	10/10/2012	Dept of Physics, Alagappa University, Karaikudi		International level workshop
21	23rd mid-year meeting-Indian Academy of sciences	12/07/2012	14/07/2012	Indian Institute of science, Bangalore		National level symposium
22	State level conference On ETMSC-2013	19/01/2013	20/01/2013	National college, Trichy		State level conference
23	International workshop on Advanced Materials (IWAM-2014)	20/03/2014	21/03/2014	School of Physics, Alagappa University, Karaikudi.		International level
24	Short term course on Magnetic and Semi conducting nano materials 2014	31/10/2014	01/11/2014	Dept of Physics, NIT, Trichy		National level
25	Indian Nano Electronics Familiarization workshop 2014	28/11/2014	30/11/2014	IIT, Mumbai		National level
26	International conference on microbiology	21/12/2016	22/12/2016	Dept of Microbiology, Alagappa University, Karaikudi		International conference
27	Three-Day workshop on “ Research Methods and LaTeX”	24/06/2019	26/06/2019	Dept of Library, Alagappa University, Karaikudi		National level
28	MOODLE Learning management system	12/05/2020	12/05/2020	online mode		National level
29	Five day online workshop for teachers	14/05/2020	14/05/2020	Online mode		National level
30	E-learning program on Bioinformatics an cartiographic tool in drug delivery	19/05/2020	19/05/2020	Online mode		National level

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
31	Chemistry in our day-to day life	04/06/2020	04/06/2020	Online mode		National level
32	Online lectures in solid state Physics- Series I Electron in solids	26/05/2020	26/05/2020	Online mode		Natioanl level
33	Workshop on computational Physics	30/08/2013	31/08/2013	School of Physics, Madurai Kamaraj University, Madurai		National level Workshop
34	NWCT-2	21/03/2013	23/03/2013	Department of Physics, Alagappa University, Karaikudi		National level
35	SLWSSP-XRD 2011	26/07/2011	27/11/2011	School of Physics, Alagappa University, Karaikudi		National level
36	Workshop on Materials Characterization Techniques	09/01/2015	09/01/2015	International Research centre, Kalasalingam University, Krishnankoil		National level workshop
37	National seminar on Quality Assurance in Higher Education: Global perspective	21/10/2010	22/10/2010	A.P.S.A.College , Tiruppattur		National level
38	Refresher course on Experimental Physics	07/05/2009	22/05/2009	School of Physics, Alagappa University, Karaikudi	Refresher Course	Indian Academy of Sciences sponsored program
39	Managing Onlne classes and co-creating MOOCs	20/04/2020	06/05/2020	online mode-conducted by Ramanujan College, New Delhi	Professional Development Programme	UGC-sponsored program
40	One week online Faculty development program on SciLab.	22/05/2020	27/05/2020	online mode-conducted by Pimpri Chinchwad Educational Trust associated with IIT, Bombay	FDP	FDP
41	Managing Onlne classes and co-creating MOOCs 3.0	25/07/2020	10/08/2020	online mode-conducted by Ramanujan College, New Delhi	Professional Development Programme	UGC sponsored
42	58 th Orientation course	01/11/2008	28/11/2008	UGC-Academic staff college, Bharathidasan University, Tiruchirappalli	Orientation Programme	UGC-sponsored

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
43	Refresher course on Emerging Trends in Physics	03/11/2009	23/11/2009	UGC-Academic staff college, Madurai Kamaraj University, Madurai.	Refresher Course	UGC sponsored
44	Refresher course on 'Interdisciplinary avenues in Basic sciences'	02/11/2016	22/11/2016	UGC-HRDC, Madurai Kamaraj University, Madurai	Refresher Course	UGC sponsored
45	Refresher course on 'Interdisciplinary avenues in Basic sciences'	02/11/2016	22/11/2016	UGC-HRDC, Madurai Kamaraj University, Madurai	Refresher Course	UGC sponsored
46	Summer school in Material science –Equivalent to Refresher course	02/03/2018	22/03/2018	UGC-HRDC, Bharathidasan University, Tiruchirappalli	Refresher Course	UGC sponsored
47	UGC-HRDC, Bharathidasan University, Tiruchirappalli	07/01/2020	13/01/2020	UGC-HRDC, Bharathidasan University, Tiruchirappalli	Short Term Course	UGC-Sponsored
48	Workshop on data analytics	30/01/2023	30/01/2023	Madurai Kamaraj University, Madurai		State level workshop- Naan Muthalvan scheme
49	Advanced Data Analytics using Python	22/01/2024	31/01/2024	Alagappa university Karaikudi		State level program under Naan Mudhalvan scheme

Expert Lecture Delivered/Judge:

S.No	Title	Period		Venue
		From	To	
1	Acted as Resource person to District level guide Teacher's training program (23rd NCSC Program)	18/09/2015	18/09/2015	A.P.S.A.College, Tiruppattur
2	Acted as Judge 23rd NCSC District level project demonstration	15/11/2015	15/11/2015	S.M.S.V.Matric.Hr.sec school, Karaikudi
3	Acted as Resource person to District level guide Teacher's training program (24th NCSC Program)	26/07/2016	28/07/2016	A.P.S.A.College, Tiruppattur
4	Acted as Resource person to District level B.T Orientation course for science teachers	14/07/2017	14/07/2017	Subbiah Ambalam Matriculation Hrs.School,
5	Acted as Resource person to District level guide Teacher's training program (25th NCSC Program)	05/10/2017	06/10/2017	A.P.S.A.College, Tiruppattur
6	Acted as Judge 25th NCSC District level project demonstration	12/11/2017	12/11/2017	Raja Govt.Hr.Sec.School
7	Acted as Resource person to District level guide Teacher's training program (26th NCSC Program)	24/07/2018	26/07/2018	A.P.S.A.College, Tiruppattur

S.No	Title	Period		Venue
		From	To	
8	Acted as Judge 26th NCSC District level project demonstration	03/11/2018	03/11/2018	Baba Amir Badhusa Matriculation Hr.Sec.School, Tiruppattur
9	Delivered a talk to District level guide Teacher's Training program (27th NCSC program)	30/07/2019	30/07/2019	A.P.S.A.College, Tiruppattur
10	Acted as Judge 27th NCSC District level project demonstration	10/11/2019	10/11/2019	Govt.Hr.Sec.School, Thirupuvanam
11	Delivered a talk on digital fundamentals	07/02/2020	07/02/2020	M.S.N.P.W.College, Poovanthi
12	Delivered a talk on An overview of Nanomaterials and Nano Technology.	05/03/2021	05/03/2021	C.P.A.College, Bodi
13	Delivered a talk to District Level guide Teacher's Training program (29th NCSC Program)	22/09/2021	22/09/2021	A.P.S.A.Collge, Tiruppattur
14	Acted as Judge 29th NCSC district level project demonstration	19/12/2021	19/12/2021	Murugappa Matric Hr.Sec.School, Kallal
15	Acted as a Resource person on Online FDP-Modern Trends in Physics, (Under DBT-Star College scheme)	29/01/2022	29/01/2022	Online mode
16	Acted as Resource person in the phase II TNST, Chennai.	23/08/2022	23/08/2022	Sri Saratha Niketan College for women, Karaikudi.
17	Delivered a talk to District guide Teacher's training program (30th NCSC Program)	19/09/2022	19/09/2022	A.P.S.A.College, Tiruppattur
18	Acted as Judge 30th NCSC district level project demonstration	03/12/0022	03/12/2022	Sri Saraswathy vikas Vidyalaya, Kalayarkovil.
19	Acted as resource person-Mega Patent - 2023	16/03/2023	16/03/2023	Department of Maths and Physics
20	Delivered a talk to District Level guide Teacher's Training program (31st NCSC Program)	16/08/2023	18/08/2023	A.P.S.A.College

Other Credentials:

S.No	Title
1	Swayam online program on Academic writing course is completed on sep 2020 with 84 percentage score.
2	Subject expert committee member, Department of Physics, Sri KALISWARI COLLEGE, SIVAKASI during 24.4.18
3	Board of studies member, Directorate of distance Education M.Sc., Physics, Alagappa University, Karaikudi during
4	Subject expert committee member, Department of Physics, Vivekananda College, Tiruvudagam west, Madurai
5	Resource Person in PCP, DDE Alagappa University for I and II M.Sc Physics course on 2011 onwards
6	Question paper setter and evaluator for both B.Sc., M.Sc., Physics courses- Alagappa University, M.K.U, M.S.

Awards:

S.No	Title
1	Best paper award in EApp-2016 which is organized by Dept of Nano Sciene and Nano Technology, Sathiyabama

Research Achievements:**International Journal Publications:**

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
1	Influence of CeO ₂ as dispersoid in blend poly(styrene-co-methylmethacrylate) as electrolyte for lithium-ion battery	Polymer international	71(3), 310-316	03/2022	Published
2	Electrochemical analyses of ZrO ₂ dispersoid incorporated Poly(Styrene-methyl methacrylate) blend gel polymer electrolytes for Lithium-ion battery.	Journal of Applied Polymer science	18(5), 1533-1544.	10/2021	Published
3	Influence of the concentration of capping agent on synthesizing and analyses of Ceria nano-filler using modified co-precipitation technique	International journal of Applied Ceramic Technology	18(5), 1533-1541	10/2021	Published
4	Enriched energy storage capability and bi-functional ability of boron-doped graphene as efficient electrode for supercapacitors and lithium sulfur batteries	J.Material science and Mat.Electronics	32, 22760–22770	08/2021	Published
5	Upshot of concentration of Zirconium(IV) Oxynitrate hexa hydrate on preparation and analyses of Zirconium oxide (ZrO ₂) Nano particles by modified co-precipitation method.	J.Nano science and nano technology	21, (1-7)	11/2021	Published
6	Physical and electrochemical chattels of phosphonium ionic liquid-based solid and gel-polymer electrolyte for lithium secondary batteries	J.Material science and Material electronics	31(24), 22933-22944	11/2020	Published
7	Role of pH on synthesis and characterization of Cerium oxide (CeO ₂) nano particles by modified co-precipitation method	Vacuum	161, 220-224	03/2019	Published
8	Facile synthesis and characterization of ZrO ₂ nano particles by modified co-precipitation method	J.Nano science and nano technology	18(1), 368-373.	01/2018	Published

National Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	EFFECT OF REACTION TEMPERATURE ON SYNTHESIS AND CHARACTERIZATION OF CERIUM OXIDE (CeO ₂) NANO PARTICLES VIA MODIFIED CO-PRECIPIATION METHOD	NCN-2017	Arignar Anna Government Arts college, Namakkal	12/2017
2	Effect Of ZrO ₂ nanofiller on the electrochemical characteristics of composite polymer electrolytes based on (PVDC-AN) co-polymer	NCN-2017	Arignar Anna Government Arts college, Namakkal	12/2017
3	Optimization of blend of Polymethyl Methacrylate (PMMA) With Poly vinylidene chloride co-acrylonitrile (PVdC-co-AN) Composite Electrolytes	NCN-2017	Arignar Anna Government Arts college, Namakkal	12/2017

International Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Preparation and Characterization of CeO ₂ via Co-Precipitation Method	ICMNRE-2018	Department of Physics, Alagappa University, Karaikudi	04/2018
2	ROLE OF PRECIPITATION AGENT ON FACILE SYNTHESIS OF CERIA NANO PARTICLES-POLY VINYL PYROLODIVINE ASSISTED CO-PRECIPIATION METHOD	ICMNRE-2018	Department of Physics, Alagappa University, Karaokudi	04/2018
3	OPTIMIZATION OF TEMPERATURE ON SYNTHESIS OF ZIRCONIA (ZrO ₂) NANO PARTICLES	ICMNRE-2018	Department of Physics, Alagappa University, Karaokudi	04/2018
4	OPTIMIZATION OF pH ON THE SYNTHESIS AND CHARACTERIZATION OF ZIRCONIA (ZrO ₂) NANOPARTICLES	ICMNRE-2018	Department of Physics, Alagappa University, Karaokudi	04/2018
5	INVESTIGATION OF THE ROLE OF DIFFERENT PLASTICIZERS IN PVdC-co-AN BASED GEL POLYMER ELECTROLYTE	ICMNRE-2018	Department of Physics, Alagappa University, Karaokudi	04/2018
6	Role of surfactant on synthesis and characterization of Cerium oxide (CeO ₂) nano particles by modified co-precipitation method.	ISMST-2017	Department of Physics, Mother Teresa Wome's umiversity	10/2017
7	Effect of different salts on P(VdC-co-AN) gel polymer Electrolyte for Li-Rechargeable batteriers.	ISMST-2017	Department of Physics, Mother Teresa Wome's umiversity	10/2017
8	Effect of surfactant on synthesis and characterization of CeO ₂ based P(S-MMA) gel polymer electrolyte for Lithium polymer battery	ISMST-2017	Department of Physics, Mother Teresa Wome's umiversity	10/2017
9	Role of precipitation agent on ZrO ₂ nano particle synthesis using co-precipitation technique.	ISNST 2016	Department of Physics, Mother Teresa Wome's umiversity	09/2016
10	Structural, Ionic Transport and surface Morphology analysis on ZrO ₂ based P (S-MMA)-LiClO ₄ -(EC+ PC) Polymer Electrolyte for Lithium polymer battery	AMMA-2015	Metallurgical and Materials Engineering, NIT, Tiruchi	04/2015

Book/ Chapters Publishing:

S.No	Title Of The Book	Name Of The Publisher	Type	Year Of Publishing
1	Nuclear and Particle Physics	Pragathi Publishers	National	2019
2	Molecular spectroscopy	Alagappa University	National	2020

Project Guidance:

Degree	Number of Projects
UG Degree	11

Other Contribution work to the Institute/Organization:

S.No	Name	Role	Period		Nature of Duties
			From	To	
1	Parents contact cell	Member	07/01/2011	05/04/2016	Arrange and organize the meeting.
2	Furniture and building maintenance	member	07/01/2011	05/04/2016	Take the steps to maintain the furniture
3	Photography club	member	07/01/2009	05/04/2012	To arrange the photography competition
4	Electronics club	Member	07/01/2012	05/04/2014	To create the electronics hobby
5	Examination committee	Member	07/01/2014	05/04/2016	Contact the centralized internal exam
6	Career guidance and entry in service	member	07/01/2016	05/04/2019	To organize the campus interview
7	Public relation and press committee	member	07/05/2016	05/04/2019	verbal communication to the press people
8	Canteen committee	Member	07/01/2016	05/04/2019	To maintain the hygienic food
9	NPTEL Department member	member	07/01/2017	05/04/2019	To educate the importance of the courses
10	Library and network resource centre	member	07/01/2019	05/04/2020	To enhance the resources in the library
11	Library advisory committee	co-convener	07/05/2020	30/04/2023	To organize student's program
12	Faculty improvement program	Member	07/01/2020	30/04/2023	To provide the quality program to the faculty
13	Parent Teachers Association	Executive Member	07/01/2020		To maintain the relationship to the parents

S.No	Name	Role	Period		Nature of Duties
			From	To	
14	Capability enhancement cell	convener	07/01/2021	30/04/2023	To provide the professional training programs
15	Infrastructure and Maintenance committee	Convener	06/20/2023		To maintain the campus infrastructure
16	Library advisory committee	Member	06/20/2023		To coordinate the Library activities
17	Gurudaksharambh committee	Member	06/20/2023		To conduct the program among the faculty
18	Capability enhancement scheme	co-convener	06/20/2023		To provide professional training programs