

## CURRICULUM VITAE

**Dr. R. Arivuselvi**  
**Assistant Professor & Head**  
**PG & Research Department of Physics**  
**Sri Vidya Mandir Arts & Science College (Autonomous)**  
**Katteri, Uthangarai, Krishnagiri(Dt)**  
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### **OBJECTIVE**

Seeking a challenging position to utilize my skills and ability in research and academic that offers professional carrier.

**\*Currently working as a Assistant Professor and Head in Sri Vidya Mandir Arts and Science College (Autonomous) from August 2003 – still.**

Name of the College	Designation	Services		Total Experience
		From	To	
Sri Vidya Mandir Arts and Science College (Autonomous)	Assistant Professor of Physics	04.08.2003	17.01.2016	12 Years 5 Months
	Assistant Professor and Head of Physics	18.01.2016	Till Date 24.07.2025	9 Years 6 Months
Total Teaching Experience				21 Years 11 Months

- I.** Name : Dr.R.ARIVUSELVI
- II.** Designation : Assistant Professor and Head
- III.** Date of Birth : 06. 06.1981
- IV.** Qualification :M.Sc.,M.Phil.,SET.,Ph.D.,



S.No	Qualification	Institution/ University	Year of Passing	Class
1	10 <sup>th</sup>	Government Girls Higher Secondary School, Harur, Dharmapuri(D.T), Tamil Nadu	1996	First (74.44%)
2	12 <sup>th</sup>	Government Girls Higher Secondary School, Harur, Dharmapuri(D.T), Tamil Nadu	1998	First (70.16%)
3	B.Sc (Physics)	Sri Sarada College for Women, Salem – Periyar University	2001	First (65.90%)
4	M.Sc (Physics)	Sacred Heart College, Tirupathur – University of Madras	2003	First (68.33%)
5	M.Phil (Physics)	Bharathidasan University, Tiruchy	2008	First (76.90%)
6	SET (Physics)	Bharathiar University, Coimbatore	2012	-
7	Ph.D (Physics)	VIT University, Vellore.	2017	Highly Commended

**V. Residential Address for Communication :** Dr. R. Arivuselvi  
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STM, TNSTC  
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Nehru Nagar, Dharmapuri – 636 701  
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**VI. Teaching Experience** : UG – 21 Years, 07 Months  
PG –17 Years, 05 Months

**VII. Area of Specialization** : Material Science (Micro & Nano level)

**VIII. Student Projects guided in PG level &M.Phil:**

-  M.Sc(Physics) :Completed- 74 & Ongoing - 3
-  M.Phil (Physics) :Completed- 24

**IX. List of Research Publications- National/ International Journals:**

S.No	Authors Name	Title of thePaper	Name of the Journal	Year	Volume & Page Number	ISSN	Indexinig
1	A. Sudha I. Manimehan B. Sundaresan <b>R. Arivuselvi</b> S. Manivannan M. Ayyanar P. Ganagapriya K.Ravichandran	Eco – friendly photocatalytic dye detoxification and biomedical applications of ZNO:Sr/g –C <sub>3</sub> N <sub>4</sub> nanocomposite:reaping the benefit of band gap reduction	Applied Physics A	2025	131 -393 (1- 15)	1432 -0630	Scopus, Web of Science, & SCI
2	N. Regan Vivvegamoorthy R. Anandhi <b>R. Arivuselvi</b> P.Devendran M. Murugesan R. Karkuzhali N.Anandhan K.Ravichandran	Enhanced electrochemical performance of spinel structured MnCO <sub>2</sub> O <sub>4</sub> Nanoparticles as an electrode material for high performance energy storage device	Inorganic Chemistry Communications	2025	Vol. 176 Pp 114210 -1- 13	1387 - 7003	Scopus & SCI
3	S. Suresh K.M. Prabu <b>R. Arivuselvi</b> M. Kandasamy N. Pugazhenthiran	Cow dung extract as a low-cost and natural sensitizer for zinc oxide nanoparticles photoanode based dye-sensitized solar cell: A novel initiative for waste to energy conversion	Results in Chemistry	2023	Vol.6 Pp 101060 - 1-12	2211-7156	Scopus & SCI
4	P. Ramesh Babu, B.Srimathy K. Shakila, M. Lakshmi priya <b>R. Arivuselvi</b>	Investigation on photocatalytic properties of RE-Doped titanium dioxide nanoparticles through sol - gel technique	AIP Conference Proceedings	2021	Vol. 2369 Pp 020081- 1- 020081 - 8	1551-7616	Scopus
5	<b>R. Arivuselvi,</b> P. Ramesh Babu, K. Shakila, M. Lakshmi priya	Synthesis, Growth, Optical, Structural and Mechanical Characterization of SPNP and KPNP Single Crystal using Ethanol as a Solvent	International Journal of Recent Technology and Engineering	2019	Vol.8 Issue-4, Pp 7782 - 7785	2277-3878	Scopus
6	<b>R. Arivuselvi</b> P.RameshBabu P.Laxmi priya	Growth and Characterization of Non Linear Optical inorganic Magnesium Chloride Doped	Journal of applied Science and Computations	2019	Vol. 06 Pp 17 - 21	1076- 5131	UGC Approved

		Ammonium Sulphate(MCAS) Single Crystal					
7	<b>R. Arivuselvi,</b> P.Ramesh Babu	Investigation of inorganic nonlinear optical Potassium Penta Borate Tetra Hydrate (PPBTH) single crystals grown by slow evaporation method	Physica B: Condensed Matter	2018	Vol. 533 Pp 17 - 21	0921- 4526	Scopus, Web of Science, & SCI
8	<b>R. Arivuselvi</b>	Growth, Structural And Optical Properties Of Nonlinear Optical Potassium Diammonium Chloride (PADC) Single Crystal	International Journal of Multidisciplinary Research Review,	2017	Vol.1 Pp. 91 - 93	2395-1877	Scopus
9	<b>R. Arivuselvi</b>	Studies On Growth And Characterization Of Potassium Diammonium Chloride (PADC) Single Crystal By Solution Growth Technique	International Journal of Advance Engineering And Research Development	2017	Vol. 4 582 -587	2348-6406	Scopus
10	<b>R. Arivuselvi,</b> A. Ruban Kumar	Crystallization of inorganic nonlinear optical zinc di- magnesium chlorosulphate(ZDMCS) single crystal	Optics and Laser Technology	2017	Vol. 88 pp. 147-151	0030-3992	Scopus, Web of Science, & SCI
11	<b>R. Arivuselvi,</b> A. Ruban Kumar	Growth and characterization of inorganic non linear optical Barium Calcium Borate (BCB) crystal	Materials Letters	2016	Vol. 178 pp. 264 - 267	0167-577X	Scopus, Web of Science, & SCI
12	<b>R. Arivuselvi,</b> A. Ruban Kumar	Structural, Spectral and dielectric characterization non linear optical inorganic Diammonium Zinc (II) Sulphate (DAZS) single crystals grown by slow evaporation solution method	International Journal of Science, Technology and Humanities	2016	Vol. 4 pp. 17- 20	2394 - 7209	Scopus
13	<b>R. Arivuselvi,</b> A. Ruban Kumar	Growth, optical, elemental and spectral characterization of semiorganic Non Linear Optical zinc thiosemicarbazide sulfate (ZTSCS) single crystals	International Journal of ChemTech Research	2015	Vol.8, pp.1304 - 1309	0974-4290	Scopus

14	<b>R. Arivuselvi,</b> A. Ruban Kumar	Growth of non linear optical zinc thiosemicarbazide sulfate (ZTSCS) single crystal and its studies on FT-Raman, XRD, mechanical and dielectric studies	International Journal of ChemTech Research	2014-2015	Vol. 7, pp.2251 - 2256	0974-4290	Scopus
15	<b>R. Arivuselvi,</b> A. Ruban Kumar	Growth, SXRD, optical and dielectric studies on inorganic ammonium sulphate doped ammonium dihydrogen phosphate (ASADP) single crystals	International Journal of Science, Technology and Humanities	2015	Vol. 2 pp. 41- 44	2394 - 7209	-
16	<b>R. Arivuselvi,</b> A. Ruban Kumar	Synthesis, crystal growth, spectral and dielectric studies of Barium Tetra Borate (BTB) single crystal	International Journal of Science, Technology and Humanities	2014	Vol. 1 pp. 39- 43	2394 - 7209	-
17	M. Selvapandiyan <b>R. Arivuselvi</b>	Crystal Growth and Characterization of KDP and ADP single crystal	Asian Journal of Engineering and Applied Technology	2014	Vol.2 pp. 71 - 77	2249 - 068X	UGC Approved
18	<b>R. Arivuselvi,</b> M.Selvapandiyan	Growth, optical and structural Characterization of non linear optical Glycine Thiourea(GTU) single crystals	International Journal of Review and Research in Applied Sciences and Engineering	2013	Vol.3 pp. 44 - 47	2231-0061X	UGC Approved
19	<b>R. Arivuselvi,</b> M.Selvapandiyan	Growth, optical and structural Characterization of non linear optical thiosemicarbazide borate (TSCB) single crystals	Indian Journal of Pure and Applied Physics	2013	Vol.1 pp. 7 – 11	0975-1041	Scopus

**X. List of Book Published**

<b>S.No</b>	<b>Authors Name</b>	<b>Title of the Book</b>	<b>Name of the Publisher</b>	<b>Year</b>	<b>ISBN</b>
1	M.Selvapandiyan <b>R.Arivuselvi</b> P.Kannan	Crystal Growth and Nano Technology	Today Publication, Chennai – 5	2014	978-93-81992-24-1
2	S.Cholan <b>R.Arivuselvi</b> K.Venkatesan P.Vijayalakshmi G.Sivakumar	Electronic Communication	Shanlax Publications Madurai – 625 003	2015	978- 93-80686-30-1
3	<b>R. Arivuselvi</b> <b>et al</b>	A Text book Major Physics Practicals	Thannambikkai Publication Coimbatore – 41	2016	978-93-84234-85-0
4	<b>R.Arivuselvi</b> (Editor)	Proceedings of the International conference on modern materials research 2016	Eswar publishers, Uthangarai& SLAA publications, Bangalore-32	2016	978-93-85648-86-5
5	<b>R.Arivuselvi</b> (Editor)	Proceedings of the International Virtual Conference on Physics of Emerging Materials and Molecules (IVCPEMM 2021)	Charulatha Publications Chennai	2021	978-93-90614-35-6
6	<b>R. Arivuselvi</b> <b>et al</b>	A Text book Major Physics Practicals	Royal Publication Coimbatore – 41	2021	789391 -131760
7	<b>R.Arivuselvi</b> (Editor)	Proceedings of the International Conference on Research in Emerging Advanced Materials and Spectroscopy (ICREAMS 2024)	Eleyon Publishers Salem	2024	978 -8119-821785
8	<b>R. Arivuselvi</b> P. Vijayalakshmi G. Kalaiyan K. Ravichandran	Solid State Physics	Royal Publication Coimbatore – 41	2025	9789348505774

**XI. List of Conferences / Workshops / Seminars/Faculty Development Programme Participated/ Paper Presented (National/ International Level) and Invited Talk**

✚ Paper Presented in International Conferences	= 25
✚ Paper Presented in National Conferences	= 12
✚ Participated in Seminars/Workshop/ FDP	= 23
✚ Invited Talk in Conferences / Workshops / Seminars/ (National/ International Level)	= 11

**XII. List of Workshops / Seminars/ Inspire Camps Organized with External Funding Agencies**

S.No	Title of the Program	Sponsored/collaboration	Date, Month and Year	Nature of the Work
1.	Young Students Scientist Programme - 2025	Sponsored by TNSCST, Tamil Nadu	23 May 2025 – 06 June 2025	Co – Ordinator
2.	Anu Yatra -2025	Sponsored by IGCAR, Kalpakkam	22 January 2025	Co – Ordinator
3.	Inspire Camp 2019	Sponsored by DST, India	18 – 22 October 2019	Co – Ordinator
4.	Young Student Scientist Programme – 2019	Sponsored by TNSCST, Tamil Nadu	03 – 17 May 2019	Co – Ordinator
5.	Science Academies' Lecture Workshop in Recent Trends in Applied Physics for Technology (SALWRTAPT)	Sponsored by Indian Academy of Sciences (Bangalore) Indian National Science Academy (New Delhi) The National Academy of Sciences (Allahabad)	21 & 22 July, 2017	Organizing Secretary
6.	Inspire Camp 2016	Sponsored by DST, India	24 – 28 September 2016	Organizing Member
7.	Science Academies Lecture workshop on recent trends in Materials Science	Sponsored by Indian Academy of Sciences (Bangalore) Indian National Science Academy (New Delhi) The National Academy of Sciences (Allahabad)	2 & 3 Jan 2015	Organizing Member
8.	Inspire Camp 2015	Sponsored by DST, India	26 – 30 September 2015	Organizing Member

9.	Inspire Camp 2013	Sponsored by DST, India	27 <sup>th</sup> November – 01 <sup>th</sup> December 2013	Organizing Member
10.	Creation of Scientific Awareness Programme 2013 (CSAP 2013)	Sponsored by TNSCST, Tamil Nadu	29 – 31 January 2013	Organizing Member
11.	Inspire Camp 2012	Sponsored by DST, India	27 – 31 December 2012	Organizing Member



**XIII. List of Conferences / Workshops Organized with Internal Funding Agencies**

<b>S.No</b>	<b>Title of the Program</b>	<b>Sponsored/collaboration</b>	<b>Date, Month and Year</b>	<b>Nature of the Work</b>
1	National Symposium on Materials Innovation and Leading Exploration	Collaboration with Indian Spectro Physics Association, Chennai.	27 & 28 December 2024	Convenor
2	International Conference on Research in Emerging Advanced Materials and Spectroscopy (ICREAMS 2024)	Collaboration with Indian Spectro Physics Association, Chennai.	21 & 22 February 2024	Convenor
3	International Virtual Conference on Physics of Emerging Materials and Molecules (IVCPMM 2021)	Collaboration with Indian Spectro Physics Association, Chennai.	04 & 05 March 2021	Convenor
4	International workshop on Recent Advances in Material Science	Sri Vidya Mandir Arts & Science College, Katteri, Uthangarai, Krishnagiri(D.T), Tamilnadu.	14 February 2019	Organizing Secretary
5	International Conference on Modern Materials & Research 2016 (ICMMR 2016)	Collaboration with Indian SpectroPhysics Association, Chennai.	19 & 20 December 2016	Convenor
6	National Conference on Advanced Materials 2014 (NCAM 2014)	Collaboration with Indian SpectroPhysics Association, Chennai.	18 & 19 July 2014	Organizing Secretary
7	International Conference on Recent Advances in Physics 2013 (ICRAP 2013)	Collaboration with Indian SpectroPhysics Association, Chennai.	12 & 13 August 2013	Organizing Secretary
8	National Conference on Recent Advances in Physics 2012 (NCRAP – 2012)	Collaboration with Indian Spectro Physics Association, Chennai.	20 & 21 July 2012	Organizing Secretary

**XIV. List of Co - Curricular and Extension Activities**

<b>Sl. No.</b>	<b>Name of Co-curricular and Extension Activities</b>	<b>About the Activity (Provide a brief write-up)</b>	<b>Year / Period of Activity</b>
1	Curriculum Development cell (CDC)	The Curriculum Development Cell was established in our institution for the effective execution of the autonomy. The major role of the CDC is to	<b>June 2020- Till date</b>

	Co -ordinator	design the curriculum that involves the formulation of general course scheme and scheme of examinations for all UG, PG Degree Programs along with the regulations and the teaching and evaluation strategies.	
2	Anti –Ragging (AR) Co-ordinator	The functions of Anti-Ragging Squad will be to keep a vigil and stop the incidences of Ragging, if any, happening / reported in the places of Student aggregation including, Classrooms, Canteens, Buses, Grounds, Hostels etc.	June 2009 – Till Date
3	Transport committee (TC) Co - Ordinator	Regulate the students discipline in bus and also rectify the grievance of students through principal.	June 2009 - May 2017
4	Cultural Committee (CC) Co-ordinator	Co – Ordinate the cultural event of the students in and around the College	June 2005 – Till Date
5	Discipline Committee (DC) Member	Monitoring and regulate the students in discipline aspects	June 2005 – Till Date
6	Board of Studies (BoS)- Physics in SVMASC Board Chairman	The Board of Studies is a statutory body and reports to the Academic Council through the Head of department Concerned. Each Academic Department shall have a Board of Studies. All academic matters like Introduction of a new Academic Programme, Revision of a programme / course, review of academic rules, etc. shall be handled by the board of studies.	<b>June 2020- Till date</b>
7.	<b>Quality Circle Coordinator</b>	The aim of the QC is to improve overall quality of the institution & quality of learning and also attend to issues related to students behavior, interpersonal relationship and effective use of infrastructure	July 2023 – Till Date

## XV. Awards

Sl. No.	Title of the Award	Organization Confer the Award	Purpose	Year
1	Best Women Assistant Professor Award in Physics	PEARL - A Foundation for Educational Excellence	Academic	2018

2	Best Teacher Award	Sri Vidya Mandir Arts & Science College, Katteri, Uthangarai, Krishnagiri(D.T), Tamilnadu.	Academic	2008
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#### XIV. Patent

Sl. No.	Name of the Inventor	Title	Angeniges	Patent Number	Year
1	<b>Dr. R. Arivuselvi</b> Dr. N. Suresh Dr. S. Thambidurai Dr. C. Ragavan Dr. Kavitha	Artificial Intelligent and LoRAWAN based Weather Forecasting Systems	INIDAN	202241046869 A	16/09/2022
1	<b>Dr. R. Arivuselvi</b> Dr. K.Venkatesan Dr.G.Kalaiyan	Multi layered Dielectric Mirror for Laser Applications	INIDAN	202541042953	30/05/2025

#### XV. Question Paper Setter

Theory and Practical question paper setter at UG & PG level in various Autonomous Colleges in Tamil Nadu.

Date : 24/07/2025

Place: Katteri, Uthangarai

**R.Arivuselvi**