

Name of the Faculty member : Dr. R. Lavanya
 Designation : Assistant Professor
 Residential Address : Plot no. 12, 13, Agathiyar Street, John's Heaven City, Melakarungulam, Tirunelveli – 627 356
 Gender : Female
 Community : BC
 PAN Number : xxxxxx39N
 Aadhaar Number : xxxx xxxx 8145
 Vidwan ID : 369512
 Date of Birth : 07.06.1988
 Date of Appointment : 21.06.2019
 Blood Group : O⁺ve

Educational Qualification:

Sl. No.	Category	Degree	Specialization	Year of Passing	Institution	University	% of Marks/ Grades Obtained	Class Obtained
1.	UG	B.Sc.,	Physics (Special)	2008	Lady Doak College, Madurai	Madurai Kamaraj University	72	I
2.	PG	M.Sc.,	Physics	2010	The American College, Madurai	Madurai Kamaraj University	73	I
3.	Research	M.Phil.	Physics	2011	Madurai Kamaraj University	Madurai Kamaraj University	73	I
4.	Research	Ph.D	Physics	2019	Madurai Kamaraj University	Madurai Kamaraj University	--	--

Additional Qualification:

Sl. No.	Category	Degree	Specialization	Year of Passing	Institution	Class Obtained
1.	Computer Course (Bharathi Freedom)	Certificate course	Computer Fundamentals, MS DOS, MS Windows, MS Office	2001	Everonn Systems India Limited	A Grade
2.	Typewriting	Junior	English	2004	Department of Technical Education, Tamilnadu	First

Teaching Experience:

Sl. No.	Institution	Level UG/PG/ etc.	Designation	From	To	Experience		
						Years	Months	Days
1.	Madurai Kamaraj University College	UG	Lecturer	01.08.2011	31.10.2011	03	-	
2.	Madurai Kamaraj University College	UG	Lecturer	01.12.2011	30.04.2012	05	-	
3.	Manonmaniam Sundaranar University	M.Phil.	Temporary Assistant	01.08.2016	30.04.2017	08	29	
4.	Manonmaniam Sundaranar University	PG Diploma	Temporary Assistant Professor	16.07.2018	07.06.2019	10	22	
5.	Annai Hajira Women's College	UG	Assistant Professor	21.06.2019	Till Date (upto 31.12.2025)	06	10	10
Total						09	02	01

Research Experience:

Sl. No.	Institution	Designation	From	To	Experience		
					Years	Months	Days
1.	Madurai Kamaraj University	Project Assistant	18.04.2012	31.06.2015	03	03	-
Total					03	03	-

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Awards and Honors:

Sl. No.	Name of the Award	Type of Award	Awarding Agency/ University/ Government	Host Institute Name	Year
1.	Personal Meritorious Achievement	Meritorious Award	Lady Doak College	Lady Doak College	2008
2.	Dr. Richard P. Reitz Award for proficiency in Physics	Excellence on Experimental work	The American College	The American College	2010
3.	Best oral presentation award	Best oral presentation award in NCPNM 2012	Noorul Islam University	Noorul Islam University	2012
4.	Mentorship and Completion of NPTEL course with distinction in Elite category	Distinction (94%)	NPTEL	Manonmaniam Sundaranar University	2019

Details of the Orientation/Refresher Courses Attended:

S. No.	Theme	University/Institution	Sponsor	Duration	Date
1.	NPTEL FDP course on Non-Conventional Energy Sources (through MOOCs mode)	IIT Madras	Manonmaniam Sundaranar University	4 months	01.01.2019 – 30.04.2019

Publications:**(a) Articles Published in Journals:****Cumulative Impact Factor: 19.3****h-index – 5****i10-index - 3**

Sl. No.	Title of the Article	Name of the Journal	Journal Type	Paper Details Volume (Year) Page No.	Impact factor (As on May 2023)	Whether Peer reviewed? SCIE/SCI/ Scopus/ UGC Listed
1.	Role of Single Walled Carbon Nanotube in Nanophase MgH ₂ Hydrogen Storage System	Asian Journal of Chemistry	International	25 (2013) S391-S393	--	Yes – SCOPUS indexed

2.	Preparation and characterization of tungsten trioxide (WO ₃) thin films	Advanced Materials Research	International	678 (2013) 32-36	--	--
3.	First principles studies on hydrogen storage in single-walled carbon nanotube functionalized with TiO ₂	Solid State Communications	International	183 (2014) 1-7	2.4	Yes – SCOPUS indexed
4.	Properties and Photocatalytic Application of Electron beam Evaporated Titanium Dioxide (TiO ₂) Thin Films	International Journal of ChemTech Research	International	6 (2014) 3371-3373	--	--
5.	Hydrogen storage in TiO ₂ functionalized (10, 10) single walled carbon nanotube (SWCNT) - First principles study	International Journal of Hydrogen Energy	International	39 (2014) 4973 – 4980	8.3	Yes – SCOPUS indexed
6.	Theoretical insights into the minority carrier lifetime of doped Si – A	Journal of Applied Physics	International	123 (2018) 161420	2.5	Yes – SCOPUS indexed
7.	Effect of morphology on the photocatalytic property of PANI/TiO ₂ on	Materials Research Express	International	6 (2019) 125040	2.2	Yes - SCOPUS
8.	Effect of nanostructures on the hydrogen storage properties of MgH ₂ – A first principles study	Computational Condensed Matter	International	30 (2022) e00643	3.9	Yes - SCIE, SCOPUS indexed

Papers published in the Conference Proceedings:

Sl. No.	Theme	Title of the Paper	Organized by	Type	Date
1.	57 th DAE-Solid State Physics Symposium (DAE-SSPS) -2012	First Principles study of Hydrogen storage in SWCNT Functionalized with MgH ₂	IIT Bombay, Mumbai	International	Dec 03-07, 2012
2.	58 th DAE-Solid State Physics Symposium (DAE-SSPS-2013)	Possibility of Hydrogen Storage in SWCNT/TiO ₂ /SnO ₂ Hybrid System – An Ab-initio Study	Thapar University, Patiala, Punjab	International	December 17-21, 2013

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3.	Applications and Development of Advanced Materials (ADAM 2020)	Photocatalytic properties of electron beam evaporated and spin coated Titania thin films	St.John's College, Palayamkottai	National	20 October 2020
4.	NAAC sponsored Two days virtual national conference	Benefits of Online Assessment	The M.D.T. Hindu College, Tirunelveli	National	September 15-16, 2022

Invited Lectures/ Resource Person:

Sl. No.	Title	Type of the Programme	Position Held	Place of the Programme	Level - State/ National/ International	Date
1.	A brief talk on "How to overcome anger?"	Bridge course / Orientation Program for 1 years	Resource Person	Annai Hajira Women's College, Tirunelveli	College	12.08.2022
2.	Revised Bloom's Taxonomy	A Seminar on Introduction to Bloom's Taxonomy	Resource Person	Annai Hajira Women's College, Tirunelveli	College	01.02.2023

Seminars/Conferences/Workshop and Other Programmes Organized:

Sl. No.	Title	Type of the Programme	Position Held	Place of the Programme	Level - State/ National/ International	Date
1.	E-Lecture on "Emerging Solar Cell Materials and Characterization" organized by EdussX and Department of Physics	Webinar (E-lecture)	Organizer	Annai Hajira Women's College, Tirunelveli	National	June 15, 2020

2.	Petrochemical Analysis & Paint Manufacturing Technology	Industrial Training Programme for the UG and PG Students	Organizer	Annai Hajira Women's College, Tirunelveli	District	March 28, 2023
3.	International Seminar on Applied Science & Recent Trends in Technology (ISASRTT – 2024)	International Seminar	Organizer	Annai Hajira Women's College, Tirunelveli	International	August 08, 2024

Participation in Conference/ Seminar/ Workshop/ Symposium/ FDP:

Sl. No.	Theme	Place	Type of the Programme	Level	Date
1.	International Conference on Nanoscience and Nanotechnology (ICNN – 2011)	Coimbatore Institute of Technology, Coimbatore, India	Conference	International	July 6-8, 2011
2.	National Conference on Physics of New Materials (NCPNM – 2012)	Noorul Islam University, Kumaracoil, Kanyakumari, Tamil Nadu	Conference	National	April 20 & 21, 2012
3.	DAE- Solid State Physics Symposium (DAE-SSPS) - 2012	IIT Bombay, Mumbai	Symposium	International	Dec 03-07, 2012
4.	National Symposium on Nanosciences and Nanotechnology (NSNN-2013)	Karunya University, Coimbatore	Symposium	National	Sep 30 & Oct 1, 2013
5.	58th DAE-Solid State Physics Symposium (DAE-SSPS-2013)	Thapar University, Patiala, Punjab	Symposium	International	December 17-21,
6.	Workshop on Titanium Matrix Composites	IIT Madras, Chennai	Workshop	National	August 30, 2013

7.	International conference on materials and characterization techniques (ICMCT – 2014)	VIT University, Vellore, Tamilnadu	Conference	International	March 10-12, 2014
8.	National Seminar on X-ray Crystallography (NSXC - 2014)	Madurai Kamaraj University, Madurai	Seminar	National	Sep 29 - Oct 1, 2014
9.	One day workshop on Materials characterization Techniques: AFM & XRD	Madurai Kamaraj University, Madurai	Workshop	National	November 19, 2014
10.	Ph.D Teaching Programme	Inter-University Accelerator Centre (IUAC), New Delhi	Training	National	April 14 – 30, 2014
11.	National Workshop on Societal Responsibility for Rural Development: Role of Science Teachers, sponsored by PMMMNMTT, MHRD,GOI	Department of Renewable Energy Science, Manonmaniam Sundaranar University, Tirunelveli, India	Workshop	National	February 6&7, 2020
12.	Two - Week Faculty Development Programme on “Managing Online Classes & Co-creating MOOCS”	Ramanujan College, University of Delhi	FDP	National	April 20 - May 06, 2020
13.	E-Lecture on “Emerging Solar Cell Materials and Characterization” organized by EdussX and Department of Physics	Annai Hajira Women’s College, Tirunelveli (ONLINE)	E-Lecture	National	June 15, 2020
14.	Two days National level Online Faculty Development Program on “Quality Assurance in Higher Education”	Annai Hajira Women’s College, Tirunelveli (ONLINE)	FDP	National	June 18 & 19, 2020
15.	National level webinar on “Exploring Problem solving in Physics”	G.V.N. College, Kovilpatti	Webinar	National	June 22 & 23, 2020
16.	International Webinar Series on “Emerging Trends in Energy & Healthcare”	Annai Hajira Women’s College, Tirunelveli (ONLINE)	Webinar	International	June 25 - 27, 2020

17.	E-Lecture on “Application of Radiation in Material Science”	St. John’s College, Tirunelveli (ONLINE)	E-Lecture	National	July 11, 2020
18.	E-Workshop on Science and Technology of Emerging Materials (eSTEM – 21)	Chettinad College of Engineering & Technology, Trichy	E-Workshop	International	April 19-21, 2021
19.	National level one week Faculty Development Programme on Research Methodology	Kamla Nehru Mahavidyalaya, Nagpur (ONLINE)	FDP	National	April 26-May 1, 2021
20.	Seven Day Virtual Faculty Development Programme	PPG College of Arts and Science, Coimbatore	FDP	National	July 13-20, 2021
21.	National level Online Faculty Development Programme on Science Pedegogy	Dwaraka Doss Goverdhan Doss Vaishnav College	FDP	National	August 09-16, 2021
22.	Webinar on "NAAC Assessment and Accreditation”	Annai Hajira Women’s College, Tirunelveli	Webinar	--	August 28, 2021
23.	Online Faculty Development Programme on “Delivering High Impact Presentation”	ICT Academy	FDP (Online)	--	Sep 20 - 24, 2021
24.	One day Workshop on “Intellectual Property Rights”	IIC, IQAC, Annai Hajira Women’s	Workshop	National	September 30, 2022
25.	Two days National Seminar on “Recent Trends in Physical Sciences”	The MDT Hindu College, Tirunelveli	Seminar	National	Feb 02 & 03, 2023
26.	Two days FDP on A Massive Upskilling Program of Naan	Manonmaniam Sundaranar University	FDP	State	Feb 10 & 11, 2023
27.	International Women’s Day competitions organized by Youth welfare department	Department of Criminology & Criminal Justice, Manonmaniam Sundaranar	Competitions	-	March 08, 2023

28.	Five days online FDP on “Theoretical & Experimental Physics”	Vellore Institute of Technology (Online)	FDP	National	29.05.2023 - 02.06.2023
29.	NEP 2020 Orientation & Sensitization Programme (Programme Code: MMC-138-2024-AUG-A-02315)	Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce	FDP (Online)	National	05.08.2024 - 14.08.2024

Professional Affiliations / Various Positions Held:

Sl. No.	College/University/Institution	Position	Department	Duration
1.	Annai Hajira Women’s College	Convener	Fine Arts Club	June 2021- September 2025
2.	Annai Hajira Women’s College	Member	Research Development Cell	June 2022- Till date
3.	Annai Hajira Women’s College	SPOC - Naan Mudhalvan	Naan Mudhalvan Scheme, Government of Tamilnadu	February 2023 –Till Date
4.	Annai Hajira Women’s College	Nodal Officer	NIRF	June 2023 – Till Date
5.	Annai Hajira Women’s College	Nodal Officer	TNDCE, Department of Higher Education, Government of Tamilnadu	November 2024 – Till Date
6.	Annai Hajira Women’s College	Nodal Officer	University Management Information System (UMIS)	September 2025 – Till date
7.	Annai Hajira Women’s College	Institution Nodal Officer	Government of Tamil Nadu Laptop Scheme	November 2025 – Till date

Membership in Other Academic Agencies/Bodies:

Sl. No.	Name of the Agency	Board	Period
1.	Asian Consortium on Computational Materials Science (ACCMS)	Regular Member, Tohoko University, Japan	Since June 2025

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2.	NPTEL Translator (ID: TRAN2286)	NPTEL, IIT Madras	Since August 2020
3.	Sri Sarada College for Women, Tirunelveli	Paper Valuation, Evaluated Answer sheets of Chemistry UG Courses	Since November 2021
4.	Rose Mary College of Arts & Science (For Women), Muneerpallam, Tirunelveli	Acted as External Examiner & conducted Theory Examinations of Manonmaniam Sundaranar University	Since November 2019
5.	Manonmaniam Sundaranar University	Paper Valuation, Evaluated Answer sheets of Regular Physics UG Course	Since November 2021

