

CURRICULUM VITAE

1. Name : Dr.K.JAYA BALA
2. Age & Date of Birth : 36 & 07.07.1982
3. Designation & Subject : Assistant professor
4. Educational Qualification :M.Sc.,M.Phil.,Ph.D.,
5. Date of Appointment : 17.08.2007
6. Date of Retirement :31.07.2040
7. Spouse Name and Occupation :D.Murali, Business



8. Qualifications – Academic:

Examinations passed	Register Number	Month & Year of passing	Subject	Class with Marks or Grade	Name of the College/University
Bachelor's Degree B.Sc	99PH48	April 2002	Physics	I	G.T.N.Arts College,Dindigul
Master Degree M.Sc	MPH004	April 2004	Physics	I	Mother Teresa Women's University,Kodaikanal
Research Degree M.Phil.,	04CD- 15906	April 2006	Physics	I	Bharathidasan University, Trichy
Research Degree Ph.D	P3647	DEC 2017	Physics		Madurai Kamaraj University, Madurai

9. Teaching Experience

Sl. No.	Place of Service	Period		Designation
		From	To	
1	G.T.N. Arts college, Dindigul	17.8.2007 to till date		Assistant Professor

10. Total Teaching Experience as on May 2022:

Under graduate - 15 Years

- 11. Area of Specialization** : **i) Teaching - Materials Science**
ii) Research - Quantum Mechanics

12. Orientation Course, Refresher, Short Term Courses Attended

Sl. No.	Name of the Institution/University	From	To
1	UGC - HRDC - Orientation Course (Grade A) Bharthidasan University, Trichy	02.05.2008	29.05.2008
2	UGC - HRDC - Refresher Course , Bharthidasan University, Trichy	10.11.2010	30.11.2010
3	UGC - HRDC - Refresher Course , Madurai Kamaraj University, Madurai	16.11.2018	06.12.2018
4	UGC - HRDC - Refresher Course Madurai Kamaraj University, Madurai	10.11.2021	23.11.2021
5	SWAYAM – NPTEL Exam Biomedical Nanotechnology	August 2021	September 2021

12. Seminars/Workshops/Conferences/Symposium – Participation

Sl. No.	Theme of Seminar / Workshops / Conferences/ Symposium	Institution/Organisation	Date
1	International Seminar	G.T.N.Arts college, Dindigul, MK University	24.02.2014
2	National Level Seminar	G.T.N.Arts college,PG and Research department of Chemistry ,Dindigul	18.03.2015
3	State Level Seminar	Sacred Heart College of Arts and Science ,Department of Physics, Dindigul,	06.10.2015
4	International Conference	Devanga Arts college, Aruppukottai, MK University	22.01.2016 and 23.01.2016
5	Webinar on “ASTROPHYSICS” Organized by	Department of Physics, Periyar Maniammai Institute of Science & Technology (Deemed to be University),	06.08.2021

		Vallam,Thanjavur	
6	National level E –Quiz on “Play with Physics”	IQAC,The Madurai Diraviyam Thayumanavar Hindu College,Tirunelveli.	17.08.2021
7	UGC Sponsored Webinar on “Research Ethics”	UGC – HRDC -Madurai Kamaraj University, Madurai	11.09.2021
8	UGC Sponsored Webinar on “Development of e-Content”	UGC – HRDC -Madurai Kamaraj University, Madurai	18.09.2021
9	International webinar on “Nanomaterials for Energy Applications”	Department of Physics, G.T.N.Arts College,Dindigul	22.09.2021
10	Quiz Program on “World Pharmacist Day”	G.T.N.Arts College,Dindigul	25.09.2021
11	One week yoga training for wellness	Azad mahavidyalaya,Ausa	15.09.2021 to 21.09.2021
12	Online Webinar on “Physics for Medical Imaging	Vivekananda College, College with Potential for Excellence, Tiruvedakam West, Madurai - 625234,Tamilnadu.	01.10.2021

13. Seminars/Workshops/Conferences/Symposium – Paper Presentation

Sl. No.	Title of the Paper	Seminar / Workshop / Conference	Institution where Attended	Year
1	Threshold optical pump intensity effect in Nitride based group III – V semiconductor quantum dots	International Conference	Madurai Kamaraj University	2015
2	Geometrical of Threshold optical pump intensity for various indium alloy in GaInN/GaN Quantum dot	International Conference	Coimbatore Institute of Technology, Coimbatore	2015
3	Effects of Quantum confinement on Intersubband optical transition energies in a GaN / AlInN Quantum dot	International Conference	Cochin University of Science and Technology, Kochi	2016
4.	Intersubband optical absorption coefficient in	International Conference	Devanga Arts college, Aruppukottai,	2016

	a group III Nitride based wide band gap semiconductor quantum dot,			
5.	Optical transition energies due to intersubband and interband transition in a wide band gap group III Nitride quantum dot,	National Conference	Bharathidasan University, Trichy,	2016
6.	Lecture workshop on Recent Trends in advanced in Material Science,	Workshop	Arulmigu Palaniandavar college of Arts and Culture, Palani	2017
7.	Optical Properties of Group III Nitride Based Semiconductors	Seminar	Sakthi College of Arts and Science for Women, Oddanchatram	2015
8.	Electronic Properties in a Wide Bandgap Gallium Nitride Semiconductor	Seminar	Arulmigu Palaniandavar College of Arts and Culture, Palani	2016
9.	Properties and applications of Gallium Nitride semiconductor	Seminar	Rama Prabha College of Arts and science, Dindigul.	2016

14. List of Publications

International Journals

Sl. No.	Title of the Article	Name of the Journal	Volume, Year, Page No.	ISSN No.	Impact Factor	Scopus Index Yes / No
1	Interband optical properties in wide bandgap group-III nitride quantum dots	Advances in Nano Research	3,2015, 13 – 27			
2	Intersubband optical transitions in nitride based group-III semiconductor quantum dots	Journal of Advanced Physics,	3,2014, 282 - 288			
3	Differential optical gain in a GaInN	Journal of Semiconductor	38,2017,6			

	/AlN quantum dots					
4	Simultaneous effects of pressure and temperature on the optical transition energies in a Ga _{0.7} In _{0.3} N/GaN quantum ring	Journal of Chem.Phys,	495,2017, 42 - 47			

15. Life Membership Details.

1. Indian Laser Association membership No. is LM1428.