



Dr. R. JAYACHITRA, M.Sc., M.Phil., Ph.D., PGDCA.,

ASSISTANT PROFESSOR

PG & Research Department of Physics

UrumuDhanalakshmi College

Tiruchirappalli – 620 019

ACHIEVEMENTS

Educational Qualifications :

Examination	Subject (s)	Name of the Board/ University	Year of Passing	Division / Class / Grade
SSLC	Tamil, English, Maths, Science, History & Geography	Board of Secondary Education, Tamilnadu	1990	First
HSC	Tamil, English, Maths, Physics Chemistry, Biology	Board of Higher Secondary Education, Tamilnadu	1992	First
Under Graduate	B.Sc. PHYSICS	Bharathidasan University, Tiruchirappalli.	1995	First
Post Graduate	M.Sc. PHYSICS	Bharathidasan University, Tiruchirappalli.	1999	First
Other Academic Qualifications PGDCA	Computer Application	Bharathidasan University, Tiruchirappalli	1997	First

Research Degree :

Research Stage	Title of work/Thesis	University where the work was carried out
M.Phil	Properties of L-Alanine crystal	Bharathidasan University, Tiruchirappalli
Ph.D	Ultrasonic and Fast Fourier Transform Spectral Analysis for Characterization of Microstructure and Mechanical Properties of Heat Treated Stainless Steel and Titanium Alloys	Bharathidasan University, Tiruchirappalli

Teaching Experience :

P.G. Level : 14 Years

U.G. Level : 14 Years

Research Experience : 12 Years

M.Phil Guidance – Guided 20 students and at present guiding 2 towards their M.Phil Degree on Material Science and Ultrasonic characterization.

M.Sc Guidance – Guided 30 students and at present guiding for their M.Sc Projects in Electronics, Spectroscopy, Material Science and NDT.

Current / Previous Positions in UDC

1	UG – Admission Committee member
2	Member of Magazine Committee
3	Convenor – Electoral Literacy Club
4	Member of Nutrition Club

Orientation/ Refresher/Other Courses attended :

Name of the Course	Academic Staff College, University	Duration In Days	Period (Mention dates)	
			From	To
UGC Sponsored ORIENTATION COURSE for College Faculty	Academic Staff College, Bharathidasan University, Trichy	28	01.11.2008	28.11.2008
UGC Sponsored REFRESHER COURSE in Physics	Academic Staff College, Bharathidasan University, Trichy	21	27.01.2012	16.02.2012
UGC Sponsored REFRESHER COURSE in Physics	Academic Staff College, Bharathidasan University, Trichy	21	02.11.2016	22.11.2016
UGC Sponsored REFRESHER COURSE in Physics	Academic Staff College, Bharathidasan University, Trichy	14	23.10.2019	05.11.2019
UGC Sponsored Academic Leadership course	Academic Staff College, Bharathidasan University, Trichy and Aligarh Muslim University	06	06.02.2021	12.02.2021

List of Publications in Journals/Proceedings :

Sl. No.	Name of the Journal	Title of the Paper	Authors	Year of Publishing
1	Material Science and Engineering A.	Influence of heat treatment on the microstructure, ultrasonic attenuation and hardness of the SAF 2205 duplex stainless steel	K. Vijayalakshmi V. Muthupandi R. Jayachitra	529 (2011) 447– 451 IP 2.1
2	Material Science Research India	Microstructural Characterisation of SAF 2205 Duplex Stainless steel Heat – Treated at 1300°C	R. Jayachitra K. Vijayalakshmi V. Muthupandi	8(2) (2011) 309-313
3	International Journal of Scientific and Research Publications	Characterization of Duplex Stainless Steel Heat – Treated at 1300°C	R. Jayachitra V. Muthupandi K. Vijayalakshmi	2 (2) (2012) 244-249
4	Advanced Materials and its Applications	Effect of Heat Treatment on the Ultrasonic Parameters of SAF 2205 Duplex Stainless Steel	R. Jayachitra K. Vijayalakshmi V. Muthupandi	(2011) 1274-1281
5	National seminar on new materials research and nano technology	Sensitization in austenitic stainless steel by ultrasonic characterization	R. Jayachitra K. Vijayalakshmi V. Muthupandi	(2012) 234-238
6	International conference on Research in condensed matter physics	Characterization of Austenitic stainless steel by ultrasonic technique	R. Jayachitra V. Muthupandi K. Vijayalakshmi	(2012) 226-23
7	National Conference on Advancement of Women in Science and Technology	Position of Women in Higher Education - A Concise Report Women Power	S. Ananthalakshmi, R. Jayachitra, R. Kalaivani	(2014) 138 – 144
8	International Journal of Engineering, Science & Research Technology	Characterization of Microstructure and Determination of Elastic Properties in SAF 2205 Duplex Stainless Steel using Ultrasonic Measurements	R. Jayachitra	(2016) 863 – 873

Sl. No.	Name of the Journal	Title of the Paper	Authors	Year of Publishing
9	International Journal of Current Trends in Engineering & Research	Ultrasonic Spectral Analysis for Heat Treated Titanium Alloy	R. Jayachitra K. Vijayalakshmi V. Muthupandi	(2016) 508 – 515
10	International Journal for Science and Advance Research in Technology	Ultrasonic Characterization and Sensitization of Austenitic Stainless Steels	R. Jayachitra	(2017) 1063 - 1070

Conferences/ Workshops attended :

Sl. No	Name of the Seminar / Conference / Symposia Workshop etc.	Name of the Sponsoring Agency	Place and Date
1	Workshop on Electron Microscopy (3DWEM – 2009)	Federation of Science Clubs of Tamilnadu (FSCT), Chennai. Central Electro Chemical Research Institute (CECRI), Karaikudi	Karaikudi From 31.07.2009 to 01.08.2009
2	National conference on Recent Advances in Materials Science –2009	UGC	Devakottai From 21.08.2009 to 22.08.2009
3	Awareness workshop on The facilities of UGC – DAE Consortium for Scientific Research	UGC – DAE CSR	Bharathidasan University, From 16.09.2009 to 17.09.2009
4	National Seminar & Exhibition on Non Destructive Evaluation – NDE2009	Indian Society for Non-Destructive Testing Tiruchirappalli sector	BHEL & NIT, Tiruchy, From 10.12.2009 to 12.12.2009
5	National Conference on Nano Materials for Energy Conversion and Conservation	UGC	Bishop Heber College, Tiruchy 26.03.2009
6	National Conference on Perspectives in laser, optics, spectroscopy and nano science	UGC	Bishop Heber College, Tiruchy 14.02.2011
7	National Programme on Technology Enhanced Learning (NPTEL Workshop)	NPTEL, IIT madras	New Rev. Jacob Memorial Christian College, Dindigul 02.02.2013
8	Short term course on Electrochemistry – Energy and Environment Applications	Department of Chemistry, National Institute of Technology, Trichy	NIT, Trichy, From 11.02.2013 to 12.02.2013

Sl. No	Name of the Seminar / Conference / Symposia Workshop etc.	Name of the Sponsoring Agency	Place and Date
9	One day Gender Training Workshop	Department of Women's Studies, Bharathidasan University & Inner Wheel Club of Tiruchirappalli	Bharathidasan University, Tiruchy, 20.02.2014
10.	National conference on Recent Innovation in Production Engineering (RIPE)	UGC	Anna University, Chennai (April 2010).
11.	National seminar on new materials research and nano technology	UGC, DST, BRNS and CSIR	Govt. Arts Collge, The Nilgiris, From 12.09.2012 to 14.09.2012
12.	International Conference on Materials for the Future (ICMF)	UGC	Government Engineering College, Thrissur(February 2011)
13.	International Conference on Advanced Materials and Its Applications (ICAMA)	Multifunctional Materials Research Centre	Kalasalingam University, Krishnan Koil (March 2011)
14.	International conference on Research in condensed matter physics	University of Madras, DST(SERB), DST(Purse), DST-JSPS, DRDO and DBT	University of Madras From 01.10.2012 to 03.10.2012
15.	National Conference on Advanced of Women in Science and Technology	UGC	Bishop Heber College, Tiruchy - 2014
16	One day Gender Training Workshop	Department of Women's Studies, Bharathidasan University & Inner Wheel Club of Tiruchirappalli	Bharathidasan University, Tiruchy, 20.02.2014
17.	National Conference on Advanced of Women in Science and Technology	UGC	Bishop Heber College, Tiruchy - 2014

