

Name : W. HANNAH BLESSY
Designation : Lecturer
Department : Physics
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Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
B.Sc.	Physics	Lady Doak College, Madurai (Madurai Kamaraj University)	Apr. 2004
M.Sc.	Physics	Madras Christian College, Chennai (Madras University)	Apr. 2006
M.Phil.	Physics	Madurai Kamaraj University	Apr. 2010
Ph.D. (Pursuing)	Physics	Madurai Kamaraj University	Year of Enrolment 2018

Specialisation in Teaching : Lasers, Optics, Atomic & Molecular Spectroscopy, Analog & Digital Electronics, Mechanics, Astronomy & Astrophysics, Nanophysics, Nonlinear Optics

Specialisation in Research : Infrared & Raman Spectroscopy, Molecular Dynamics Simulation, Astrophysics

Research Interests : Vibrational Spectroscopy, MD Simulation, Astrophysics

Designation	Institution / Company	Year - From (month/year) To (month/year)
Lecturer	Department of Physics, The American College, Madurai	Since July 2015
Lecturer	Department of Physics, Yadava College, Madurai	July 2014 - Mar 2015
Lecturer	Department of Physics, Fatima College, Madurai	June 2014 - July 2014
Lecturer	Department of Physics, Fatima Michael College of Engineering & Technology, Madurai	June 2011 - May 2012 & Feb 2013 - Feb 2014

Lecturer	Department of Physics (SF), NMSSVN College, Nagamalai, Madurai	Sep 2010 - Dec 2010
Lecturer	PG & Research Department of Physics, Lady Doak College, Madurai	Nov 2006 - Feb 2007
Junior Research Fellow - DST Major Project	PG & Research Department of Physics, Lady Doak College, Madurai	Feb 2007 - Nov 2009

Administrative /Academic Positions (held / currently holding): -Nil-

Positions held / currently holding	Year - From (month/year) To month/year)
Academic Advisor	2017-2018 (17 PHS Batch)
Academic Advisor	2018-2019 (17 PHS Batch)
Academic Advisor	2019-2020 (17 PHS Batch)
Academic Advisor	2020-2021 (20 PSP Batch)
Academic Advisor	2021-2022 (20 PSP Batch)

Publications:

Articles Published in International Journals:

1. C. Anzline, S. Israel, R.Niranjana Devi, P. Richard Rajkumar & W. Hannah Blessy (2014) Molecular structure, vibrational spectroscopic and site selectivity studies in 5-amino-3-methyl-1,2-oxazole-4-carbonitrile using DFT Technique, Journal of Research in Science. ISSN: 2278-9073, Vol. 2, 35-39.
2. R. Niranjana Devi, S. Israel, C. Anzline, P. Richard Rajkumar & W. Hannah Blessy (2014) Elucidation of reactivity descriptors for 2-mercaptobenzoic acid using Density Functional Theory approach, Journal of Research in Science, ISSN: 2278-9073, Vol. 2, 25-30.

Conference / Seminar Presentations:

Papers presented in International conferences / symposia / seminars:

1. W. Hannah Blessy, INVESTIGATIONS OF THE CHARACTERISTICS OF SOLAR FLARES AND CMES ASSOCIATED WITH DH TYPE II RADIO BURSTS, **International e-conference** on 'Recent Trends in Applied Physics' organized by Sri Sarada College for Women, Tirunelveli on 28 October 2021.

Papers presented in State level seminars /workshops:

1. W. Hannah Blessy (2008). Infrared Investigations of DMF / CCl₄ binary mixtures in the 10th **State level technical seminar** in Physical Sciences for PG & M.Phil students held at Meenakshi College, Chennai organized by ISPA
2. W. Hannah Blessy (2007). Infrared Investigations of binary mixtures in the **UGC sponsored State level conference** on 'Nanomaterials' held at SFR College for Women, Sivakasi
3. W. Hannah Blessy (2006). A study on simple nonlinear systems in the **State level technical Seminar** in Physical Sciences for PG & M.Phil students held at the Presidency College, Chennai organized by ISPA

Awards / Fellowships:

1. Junior Research Fellowship from DST at PG & Research Department of Physics, Lady Doak College, Madurai (Feb 2007 - Nov 2009)
2. Summer Research Internship 'Numerical Methods in Physics' at the Indian Institute of Science, Bangalore, funded by the Jawaharlal Nehru Centre for Advanced Scientific Research (2005)

Student Projects Completed:

Name of the student	Title of the thesis	Year of Completion
1. K. Mala (13PHS18)	Concentration Dependence of Viscosity in Aqueous Solutions	May 2016
2. S.Niofar Nisha (13PHS48) J.Bhuvanewari (13PHS49) M.Guna Sundari (13PHS57)	A Raman Study On Binary Mixtures Of Isopropyl Alcohol And Ethyl Alcohol	May 2016
3. B. Kayalvizhi (14PHS22) C. Pradeepa (14PHS30)	Effect of Colour of Paint on Thermal Conductivity of a Material	May 2017
4. Anitha.P (16PSP02) Thangaroja.S (16PSP23)	Growth and Characterization of L-Serine doped KDPCrystals	Oct 2017
5. Anitha.P (16PSP02) Thangaroja.S (16PSP23)	FTIR Spectroscopic Investigation and SHG studies of L-Serine doped KDP crystals	Mar 2018
6. G. Rajasri (17PSP30) G. Karthiga (17PSP16)	A Study On Speed And Bandwidth Of Coronal Mass Ejection Of 23 rd Solar Cycle	Dec 2018
7. R.Harikrishna (17PSP11), R.Ganeswaran (17PSP10) V.Vedanan (17PSP38)	Investigation On Halo Coronal mass Ejection Of 24 th Solar Cycle	Dec 2018
8. A.J.Joyese Amala (16PHS25) B.Deepa (16PHS63) A.Nancy Jesintha Mary (16PHS65)	A Raman study on Solvation of L-Serine in a Binary mixture	May 2019
9. Pa.Gokhula Prasad (19PSP06) A.Mathiyazhagan (19PSP33)	A Study on Association of Solar Energetic Particle (SEP) events with Type II Radio Bursts of Solar Cycle 23 and 24	Dec 2020
10. Pa.Gokhula Prasad (19PSP06) A.Mathiyazhagan (19PSP33)	A Study on Type II Solar Radio Burst	Mar 2021
11. M.Lakshmi Priya (19PSP13) P. Pavithra (19PSP20)	A Study on Type II Solar Radio Burst	Mar 2021
12. Aadithiyen (18PHS01) Karthikeyan (18PHS23) Rajesh (18PHS44) Rajesh Kumar (18PHS45) Rooban (18PHS46) Sundaresh (18PHS52)	A Statistical Study on SEPs of Solar Cycles 23 and 24	May 2021

Overseas Academic Visits:

6-week training programme – *International Partnership for Service Learning* (IPSL, New York) held at Trinity College, Philippines (2003), organized for participants from 8 countries of the Asia-Pacific region focusing mainly on Youth Leadership, Theology, Contemporary Social Issues, Community Service and exposure to various social organizations.

Other Activities / Academic Credentials:

External Examiner:

1. Yadava College, Thiruppalai, Madurai, Tamilnadu
2. Arul Anandar College, Karumathur, Madurai District, Tamilnadu
3. Jayaraj Annackiam College for Women, Periyakulam, Theni District, Tamilnadu (Nov 2019)

Participation in Seminars /workshops

Date	Paper Presentation / Participation
28 October 2021	Presented a paper in the International e-conference on 'Recent Trends in Applied Physics' organized by Sri Sarada College for Women, Tirunelveli, Tamilnadu, India
January 6 - 17, 2020	International (COSPAR) Capacity Building Workshop on "Coronal and Interplanetary Shocks: Analysis of data from Space and Ground based instruments" at Kodaikanal, India
1st & 2nd Nov 2019	Workshop on ' Materials Preparation and Characterization Techniques ' held at PSG College of Arts & Science, Coimbatore
28.03.2017	One-day Seminar on 'Advanced Technologies and Innovations in Energy and Environment' , held at School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai
26.09.2016	One-day TEQIP-II Sponsored International Lecture Workshop on Advanced Materials Engineering (Physics in Engineering, PiE - III) at Thiagarajar College of Engineering, Madurai
December 2014	UGC sponsored National Conference on 'Recent Trends in Quantum Chemistry' held at Nesamony Memorial Christian College, Marthandam
August 2014	UGC sponsored 'Orientation Programme for Teachers' held at Yadava College, Madurai
Feb 2009	Advanced level International workshop on Nanoscience and Technology held at Anna University, Chennai
Feb 2009	National level conference on 'Emerging Areas in Thin Film Science and Technology : MEMS and Nanotechnology' held at PSG College of Technology, Coimbatore
Feb 2009	State level seminar on 'Thinfilms and their applications' held at LadyDoakCollege, Madurai
Jan 2009	State level seminar on 'Recent Advances in Spectroscopy' held at Kandaswami Kandar's College, Namkkal
Feb 2008	2nd International Conference on Perspectives in Vibrational Spectroscopy held at MarIvaniosCollege, Trivandrum

Feb 2008	International Pre-Conference on Chemometrics Tutorial held at Mar Ivanios College, Trivandrum
Feb 2008	10 th state level technical seminar in Physical Sciences for PG & M.Phil students held at Meenakshi College, Chennai organized by ISPA Won the 1st prize for paper presentation
Jan 2008	National level seminar on 'Thrust Areas in Nano Technology' held at Fatima College, Madurai
Mar 2007	UGC sponsored State level conference on 'Nanomaterials' held at SFR College for Women, Sivakasi
Feb 2007	State level seminar on 'Nonlinear Optics and Nonlinear Dynamics' held at Lady Doak College, Madurai
2003-2004	Regional level Seminar on 'The Universe' held at Lady Doak College, Madurai
2002-2003	Regional level Seminar on 'Thrust Areas in Physics & Crystallographic Studies' held at Lady Doak College, Madurai

Training attended

Date	Programme	Remarks
2004	Regional level training programme on 'Microprocessor and its applications' held at Lady Doak College, Madurai	3 days

Webinars attended

Date	Programme	Remarks
June 19, 2020	International Webinar on 'Recent Trends in Advanced Materials Science' by The American College, Madurai, Tamilnadu, India	
June 27, 2020	Webinar on 'Changing Face of Indian Customers and Implications on Marketing' by The American College, Madurai, Tamilnadu, India	
June 30, 2020	Webinar on 'Transition to Online Teaching: Challenges and Preparation' by The American College, Madurai, Tamilnadu, India	
June 30, 2020	National Webinar on 'Advancement of Plasma Physics and Nanoscience' by Kharagpur College, West Bengal, India	
July 3, 2020	Webinar on 'Maintaining Quality of Life during COVID Era' by The American College, Madurai, Tamilnadu, India	
July 3, 2020	National Webinar on 'Stable Organic-Inorganic Hybrid Halide Perovskite Nanocrystals for LEDs' by Thiagarajar College, Madurai, Tamilnadu, India	
July 7, 2020	Webinar on 'Applications of Organic Spectroscopy' by A.V.V.M Sri Pushpam College, Poondi, Thanjavur District, Tamilnadu, India	
July 7, 2020	Webinar on 'Spectroscopic Techniques-I' by The American College, Madurai, Tamilnadu, India	
July 8, 2020	International Webinar on 'The Exciting Story of Exoplanets' by Karunya Institute of Technology and Sciences, Coimbatore, Tamilnadu, India	
July 9, 2020	Webinar on 'Analytical Techniques' by The American College, Madurai, Tamilnadu, India	

July 10, 2020	Webinar on 'Digital Transformation in Higher Education by MS Teams' by The American College, Madurai, Tamilnadu, India	
July 10, 2020	National Webinar on 'Recent Trends in Crystal Growth' by St. Xavier's College, Palayamkottai, Tamilnadu, India	
July 15, 2020	International Webinar on 'Teacher 2.0 - Motivator & Learner' by Dr. N.G.P. Institute of Technology, Coimbatore, Tamilnadu, India	
July 20, 2020	Webinar on 'Misinformation in Medicine: Myths Vs Facts' by The American College, Madurai, Tamilnadu, India	
July 20, 2020	Webinar on 'Online Teaching Tools for Faculty Members' by SRM Institute of Science and Technolgy, Chennai, Tamilnadu, India	
July 22, 2020	National Webinar on 'Teacher Vs Learner: Impact of COVID'19 in Colleges' by The American College, Madurai, Tamilnadu, India	
July 24, 2020	International Webinar on 'Optical Nano Biosensors and Microfluidics in X-Ray Spectroscopy' by St. Xavier's College, Palayamkottai, Tamilnadu, India	
19-21 October, 2020	International FDP on 'Frontiers of Physics in Bio Medical Applications' by St. Joseph's College of Engineering, Chennai, Tamilnadu, India	
8 March 2021	International Webinar on 'The Power to Change the World' organized by The American College, Madurai, Tamilnadu, India	
28 October 2021	International e-conference on 'Recent Trends in Applied Physics' organized by Sri Sarada College for Women, Tirunelveli, Tamilnadu, India	