

**Mrs.VIDHYA R.**

Assistant Professor,  
Department of Physics,  
Bishop Heber College,  
Tiruchirappalli - 17.

E-mail : vidhyasuresh08@gmail.com

Phone : 9865611636

Web:

## Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D.	Physics	Bharathidasan University, Tiruchirappalli	2023
M.Phil	Physics	Seethalakshmi Ramaswami College,Trichy	2011
M.Sc	Physics	Chidambaram Pillai College For Women,Mannacahanllur	2010
B.Sc	Physics	Seethalakshmi Ramaswami College,Trichy	2008

## Ph.D. Details

Title of Thesis	Area of Specialization	Research Supervisor	Research Centre	Year of Award
Experimental and theoretical investigations of heat transfer performance of heat pipe charged with few hybrid nanofluids	Nanofluids	Dr. T. Balakrishnan	Thanthai Periyar Govt. Arts and science College, Trichy	December 2023

## Additional Qualification

Name of Course	Place of Study	Date	Duration
PGDCA	Info school,Trichy	April 2005	1 year

## Work Experience

Name of Institution	Address of Institution	Designation	From	To
M.A.M SCHOOL OF ENGINEERING	SIRUGANUR,TRICHY	ASSISTANT PROFESSOR	20.1.12	31.10.14

## Teaching / Research Experience

**U.G. :** 9 years      **P.G. :** 7 years      **M.Phil.** 4      **Ph.D.**

## Table of Contents

1.	Conferences / workshops / Seminars Attended	54
2.	Research Papers Presented	10
3.	Publication in Journals	4
4.	Publication in Books	0
5.	Books Published / Edited	0
6.	Conferences / Workshops / Seminars Organised	1
7.	Research Projects	0
8.	Resource Person	0
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	0 / 0

1. College level Orientation on **"Faculty Development Programme on Student Mental Health"** sponsored by IQAC & Deanery of Academics organized by IQAC & Deanery of Academics at Bishop Heber College, Trichy during 15/07/2022 to 15/07/2022.
2. College level Workshop on **"Faculty Development Programme on Python for Scientific Computation"** sponsored by PG & Research Department of Physics organized by PG & Research Department of Physics at Bishop Heber College (Autonomous), Tiruchirappalli during 04/06/2022 to 06/06/2022.
3. State level Workshop on **"Material Characterization Data Analysis using Rietveld Refinement, XPS and DFT"** sponsored by PG & Research Department of Physics organized by PG & Research Department of Physics at Bishop Heber College (Autonomous), Tiruchirappalli during 15/03/2022 to 17/03/2022.
4. National level Seminar on **"National Science Week"** sponsored by Govt. of India organized by Office of the principal scientific advisor to the Govt. of India at Bishop Heber College (Autonomous), Tiruchirappalli during 22/02/2022 to 28/02/2022.
5. National level Conference on **"New Perspectives and Opportunities in Physics"** sponsored by Department of Physics, Vasanthrao Naik Arts, Commerce and Science College organized by Department of Physics, Vasanthrao Naik Arts, Commerce and Science College at Shahada during 13/10/2021 to 13/10/2021.
6. National level Seminar on **"National Webinar on light matter interaction probe and prospects"** sponsored by Department of Physics, Christ College organized by Department of Physics, Christ College at Irinjalakuda during 12/10/2021 to 12/10/2021.
7. State level Orientation on **"Faculty Development Programme on Problem Solving in Quantum Physics"** sponsored by PG & Research Department of Physics, Bishop Heber College organized by PG & Research Department of Physics, Bishop Heber College at Tiruchirappalli during 23/07/2021 to 24/07/2021.
8. International level Seminar on **"One day international webinar on challenges and opportunities in advanced materials"** sponsored by PG & Research Department of Chemistry, Govt Arts College organized by PG & Research Department of Chemistry, Govt Arts College at Tiruchirappalli during 14/07/2021 to 14/07/2021.
9. National level Seminar on **"International webinar on innovative research in chemical sciences"** sponsored by PG & Research Department of Chemistry, Govt Arts College organized by PG & Research Department of Chemistry, Govt Arts College at Tiruchirappalli during 10/07/2021 to 10/07/2021.
10. National level Seminar on **"Advanced nanomaterials for sustainable development and energy applications"** sponsored by SRM Institute of science and Technology organized by at Chennai during 28/05/2021 to 28/05/2021.
11. National level Workshop on **"National Workshop on Recent Advances in Materials for Multidisciplinary Applications"** sponsored by PG & Research Department of Physics, Bishop Heber College organized by PG & Research Department of Physics, Bishop Heber College at Tiruchirappalli during 30/03/2021 to 31/03/2021.
12. International level Conference on **"International conference on novel engineering materials for biomedical, energy, environment, sensing and other applications-2021"** sponsored by NIT organized by NIT at Tiruchirappalli during 11/03/2021 to 13/03/2021.
13. College level Seminar on **"Special Lecture On Building Character & Competency"** sponsored by Bishop Heber College organized by Bishop Heber College at Tiruchirappalli during 13/10/2020 to 16/10/2020.
14. National level Conference on **"National conference on material science"** sponsored by Loyola Physics Association Loyola college organized by Loyola Physics Association Loyola college at Chennai during 01/09/2020 to 01/09/2020.

15. State level Orientation on **"An online training programme for CSIR NET exam in physical sciences"** sponsored by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli organized by PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli at online during 02/06/2020 to 05/06/2020.
16. State level Workshop on **"An Online Training Programe For CSIR NET Exam In Physical Sciences"** sponsored by Bishop Heber College organized by Bishop Heber College at Tiruchirappalli during 02/06/2020 to 05/06/2020.
17. State level Seminar on **"Reprogramming your mind"** sponsored by Sri Venkateswara college of technology, Sriperampudhur organized by Sri Venkateswara college of technology, Sriperampudhur at online during 01/06/2020 to 01/06/2020.
18. State level Seminar on **"Online teaching tools"** sponsored by Bishop Heber College, Tiruchirappalli organized by Bishop Heber College, Tiruchirappalli at online during 30/05/2020 to 30/05/2020.
19. State level Seminar on **"Webinar on Global opportunities in space exploration and research"** sponsored by Sri Venkateswara college of technology, Sriperampudhur organized by Sri Venkateswara college of technology, Sriperampudhur at online during 29/05/2020 to 29/05/2020.
20. State level Seminar on **"Webinar on future of automoyive technology"** sponsored by Sri Venkateswara college of technology, Sriperampudhur organized by Sri Venkateswara college of technology, Sriperampudhur at online during 28/05/2020 to 28/05/2020.
21. National level Workshop on **"Training on C & CPP"** sponsored by Jammal Mohamed College organized by Jammal Mohamed College at Tiruchirappalli during 27/05/2020 to 27/05/2020.
22. International level Seminar on **"International webinar on Passive and active hyberbolic metamaterials and therir applications"** sponsored by SRM institute of science and technology, Chennai organized by SRM institute of science and technology, Chennai at online during 26/05/2020 to 26/05/2020.
23. National level Orientation on **"3-days online faculty development programme on academic process, measures and metrics for NAAC accreditation"** sponsored by IIR, India organized by Srinivasan Arts & Science, Perambalur at online during 25/05/2020 to 27/05/2020.
24. National level Orientation on **"Three days online faculty development programme on Academic Process, Measures and metrics for NAAC Accreditation"** sponsored by Department of Management Studies & IQAC and Integrated and Intelligent Research organized by Department of Management Studies & IQAC and Integrated and Intelligent Research at Chennai during 25/05/2020 to 27/05/2020.
25. College level Seminar on **"Webinar on unlocking online evaluation"** sponsored by IQAC, Bishop Heber College, Tiruchirappalli organized by IQAC, Bishop Heber College, Tiruchirappalli at online during 22/05/2020 to 22/05/2020.
26. College level Seminar on **"Webinar on online teaching: the new form"** sponsored by IQAC, Bishop Heber College, Tiruchirappalli organized by IQAC, Bishop Heber College, Tiruchirappalli at online during 21/05/2020 to 21/05/2020.
27. State level Seminar on **"Webinar on application of space technology in our day to day life"** sponsored by Sri Venkateswara college of technology, Sriperampudhur organized by Sri Venkateswara college of technology, Sriperampudhur at online during 19/05/2020 to 19/05/2020.
28. State level Seminar on **"Webinar on ypu-2.0"** sponsored by Sri Venkateswara college of technology, Sriperampudhur organized by Sri Venkateswara college of technology, Sriperampudhur at online during 18/05/2020 to 18/05/2020.
29. International level Seminar on **"International webinar on nonlinear waves in physics: from solitary waves to rogue waves"** sponsored by SRM institute of science and technology, Chennai organized by SRM institute of science and technology, Chennai at online during 13/05/2020 to 13/05/2020.
30. State level Seminar on **"Webinar on skills acquired during the transition"** sponsored by Pandit Deendayal Petroleum University organized by Pandit Deendayal Petroleum University at online during 12/05/2020 to 12/05/2020.



31. National level Orientation on **"Online faculty development programme"** sponsored by IIT Bombay & MHRD, Govt. of India organized by Loyola college of arts and science, Chennai at online during 11/05/2020 to 16/05/2020.
32. State level Seminar on **"Assessment and evaluation in outcome based education"** sponsored by G. T. N. Arts college(Autonomous), Madurai organized by G. T. N. Arts college(Autonomous), Madurai at online during 11/05/2020 to 01/01/1900.
33. State level Seminar on **"Webinar on crystallography and its applications"** sponsored by Er. Perumal manimekalai college of engineering, Hosur organized by Er. Perumal manimekalai college of engineering, Hosur at online during 08/05/2020 to 08/05/2020.
34. National level Workshop on **"Online workshop on research methodology: Reviewing literature"** sponsored by Pandit Deendayal Petroleum University organized by Pandit Deendayal Petroleum University at online during 07/05/2020 to 07/05/2020.
35. National level Workshop on **"Online workshop on research methodology"** sponsored by Pandit Deendayal Petroleum University organized by Pandit Deendayal Petroleum University at online during 05/05/2020 to 05/05/2020.
36. National level Workshop on **"One Day Online Workshop on "Spectroscopy techniques"'"** sponsored by Immaculate College for Women organized by Immaculate College for Women at Viriyur during 30/04/2020 to 30/04/2020.
37. National level Seminar on **"National Seminar on popularization of solar energy and materials for solar cell(SEMSC-2020)"** sponsored by TNSCST & NCST organized by Periyar E.V.R College at Tiruchirappalli during 31/01/2020 to 31/01/2020.
38. International level Conference on **"International conference on Applied Basic Sciences"** sponsored by Bishop Heber College organized by Bishop Heber College at Tiruchirappalli during 19/11/2019 to 21/11/2019.
39. College level Refresher on **"Faculty Enrichment Programme: An intensive coaching for UGC/CSIR-NET examinations"** sponsored by IQAC, Bishop Heber College organized by IQAC, Bishop Heber College at Tiruchirappalli during 15/11/2019 to 16/11/2019.
40. State level Workshop on **"Two days workshop on Intellectual property Rights"** sponsored by Patent Information Centre & TNSCST organized by Patent Information Centre, TNSCST & Cauvery College for Women, Trichy at Tiruchirappalli during 26/09/2019 to 27/09/2019.
41. College level Refresher on **"Faculty Recharging Programme"** sponsored by IQAC, Bishop Heber College organized by IQAC, Bishop Heber College at Tiruchirappalli during 12/06/2019 to 13/06/2019.
42. College level Orientation on **"FDP on Problem Solving in Physics"** sponsored by PG & Research Department of Physics, Bishop Heber College organized by PG & Research Department of Physics, Bishop Heber College at Tiruchirappalli during 06/06/2019 to 06/08/2019.
43. International level Conference on **"International conference on recent trends in nanomaterials for energy, environmental and engineering applications"** sponsored by Elsevier publications organized by K. Ramakrishnan college of technology, Samayapuram at Tiruchirappalli during 14/03/2019 to 15/03/2019.
44. International level Conference on **"International conference on signal processing and communication systems"** sponsored by M. Kumarasamy college of engineering organized by M. Kumarasamy college of engineering at Karur during 05/03/2019 to 05/03/2019.
45. National level Seminar on **"National seminar on nanoscience"** sponsored by UGC organized by Periyar E.V.R College at Trichy during 28/02/2019 to 01/01/1900.
46. International level Conference on **"ANEH 2019-Advanced Nanomaterials for Energy Environment and Health care Applications"** sponsored by Swansea University UK & BHC India organized by Swansea University UK & BHC India at Bishop Heber college, Tiruchirappalli during 04/02/2019 to 06/02/2019.
47. College level Orientation on **"Faculty Enriching programme"** sponsored by IQAC organized by IQAC at Bishop Heber college, Tiruchirappalli during 19/11/2018 to 24/11/2018.

48. College level Orientation on **"Faculty Development programme"** sponsored by UGC organized by IQAC, BHC at TRICHY during 28/07/2018 to 28/07/2018.
49. College level Workshop on **"oneday workshop on examinations and evaluation reforms"** sponsored by IQAC,BHC organized by IQAC,BHC at TRICHY during 10/03/2018 to 01/01/1900.
50. State level Orientation on **"Research Orientation Programme for Aspirants in Materials Characterization for Device Applications"** sponsored by DBT organized by Bishop Heber College(Autonomous) at Tiruchirappalli during 16/02/2018 to 17/02/2018.
51. College level Orientation on **"Faculty Improvement Programme on Experimental Physics"** sponsored by DBT organized by Bishop Heber College(Autonomous) at Tiruchirappalli during 12/02/2018 to 13/02/2018.
52. International level Conference on **"International conference on Materials Physics"** sponsored by Bishop Heber College(Autonomous) organized by Bishop Heber College(Autonomous) at Tiruchirappalli during 29/01/2018 to 29/01/2018.
53. College level Workshop on **"Capacity building Workshop"** sponsored by IQAC,Bishop Heber College(Autonomous) organized by IQAC,Bishop Heber College(Autonomous) at Tiruchirappalli during 14/07/2017 to 15/07/2017.
54. National level Conference on **"National conference on Exploring the Frontiers of Vibrational Spectroscopy"** sponsored by Women's Christian College organized by Women's Christian College at Nagercoil during 01/09/2011 to 02/09/2011.



1. **"Comprehensive Analysis of Heat Transfer coefficient of Nanofluids"** in the International conference on *Scientific and Technological Advancements for Reliable and Sustainable-future (STARS-2022)* sponsored by , organized by Deanery of Academics and all Science Departments at Bishop Heber College (Autonomous), Tiruchirappalli during 16/11/2022 to 18/11/2022.
2. **"Experimental Studies on Thermophysical Properties of MgO- Al<sub>2</sub>O<sub>3</sub> Hybrid Nanofluids"** in the International conference on *3rd International Conference on Recent Advances in Materials Science (ICRAMS-2022)* sponsored by TNSCST, organized by PG & Research Department of Physics at National College, Tiruchirappalli during 19/05/2022 to 21/05/2022.
3. **"Enhancement of thermophysical properties of nanofluids in a heat pipe"** in the International conference on *International conference on recent trends in nanomaterials for energy, environmental and engineering applications* sponsored by Elsevier Publications, organized by K. Ramakrishnan college of Technology, samayapuram at Tiruchirappalli during 14/03/2019 to 15/03/2019.
4. **"Investigation of heat transfer characteristics of nanofluid"** in the International conference on *International conference on signal processing and communication systems* sponsored by , organized by M. Kumarasamy college of engineering at Karur during 05/03/2019 to 05/03/2019.
5. **"Synthesis of pure and surfactant assistant ZnO nanoparticles"** in the International conference on *ANEH 2019* sponsored by , organized by Swansea University UK and BHC India at Bishop Heber college Tiruchirappalli during 04/02/2019 to 06/02/2019.
6. **"Effect of Temperature on the synthesis of Al<sub>2</sub>O<sub>3</sub> nanoparticles"** in the International conference on *ANEH 2019* sponsored by , organized by Swansea University UK and BHC India at Bishop Heber college Tiruchirappalli during 04/02/2019 to 06/02/2019.
7. **"Synthesis, Characterization and antimicrobial activity of MgO nanoparticles"** in the International conference on *ANEH 2019* sponsored by , organized by Swansea University UK and BHC India at Bishop Heber college Tiruchirappalli during 04/02/2019 to 06/02/2019.
8. **"Green synthesis and characterization of zinc oxide nanoparticles using leaves extract of ocimum tenuiflorum"** in the International conference on *International conference on materials physics* sponsored by , organized by Bishop Heber College(Autonomous) at Tiruchirappalli during 29/01/2018 to 01/01/1900.
9. **"Intermolecular Interaction Studies in L. Arginine and its Derivatives With Non – Aqueous Solution"** in the National conference on *National conference on Exploring the Frontiers of vibrational spectroscopy* sponsored by , organized by Women's Christian College at Nagercoil during 01/09/2011 to 02/09/2011.
10. **"Comparative Analysis of Spectroscopic and Transport Properties of Non – Aqueous polymer solutions"** in the National conference on *National conference on Perspective in LASER, Optics, Spectroscopy and Nano Science* sponsored by , organized by Bishop Heber College(Autonomous) at Tiruchirappalli during 14/02/2011 to 01/01/1900.

1. **"An Experimental Study of ZrO<sub>2</sub>-CeO<sub>2</sub> Hybrid Nanofluid and Response Surface Methodology for the Prediction of Heat Transfer Performance: The New Correlations"** published in Journal of Nanomaterials (PEER REVIEW) Vol. 2022, Issue No. , June 2022 ISSN : ---.  
Impact factor , Scopus Index 4, h - index 4, Citation index 80
2. **"Experimental and theoretical investigation of heat transfer characteristics of cylindrical heat pipe using Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>/W-EG hybrid nanofluids by RSM modeling approach"** published in Journal of Engineering and Applied Science (PEER REVIEW) Vol. 68, Issue No. , October 2021 ISSN : ---.
3. **"Investigation on thermophysical properties of zinc oxide nanofluid for heat transfer applications"** published in Materials Today: Proceedings (PEER REVIEW) Vol. , Issue No. 2021, September 2021 ISSN : ---.
4. **"Investigation on thermophysical properties and heat transfer performance of heat pipe charged with binary mixture based ZnO-MgO hybrid nanofluids"** published in Materials Today: Proceedings (PEER REVIEW) Vol. 37, Issue No. 2021, October 2020 ISSN : ---.

## Conferences / Workshops / Seminars Organised

- 1

1. Local level Workshop Entitled **"Heber Exhibition on Science and Technology for Global Wellbeing"** at PG & Research Department of Physics, Bishop Heber College (Autonomous), Tiruchirappalli, sponsored by , during 28/02/2023 to 28/02/2023.



**Signature of Staff**  
**(VIDHYA R.)**