

## PROFILE



### PERSONAL DETAILS

Name : Dr P.Chithralekha  
 Qualification : M.Sc., M.Phil., Ph.D.  
 Designation : Associate Professor & Head  
 Department : Physics  
 Email ID : chithralekha1980@gmail.com

### ACADEMIC QUALIFICATIONS

| Degree | Specialization           | College                      | University                 | Year of Passing |
|--------|--------------------------|------------------------------|----------------------------|-----------------|
| Ph.D   | Ultrasonic Studies       | Thiagarajar college, Madurai | Madurai Kamaraj University | 2023            |
| M.Phil | Acoustics                | -                            | Pondicherry University     | 2003            |
| M.Sc   | Condensed Matter Physics | -                            | Pondicherry University     | 2002            |

### ACADEMIC IDENTITY

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| *VIDWAN ID     | <a href="https://vidwan.inflibnet.ac.in/profile/482583">https://vidwan.inflibnet.ac.in/profile/482583</a> |
| Orchid Id      | 0009-0003-1126-1038                                                                                       |
| Scopus Id      | 55551567800                                                                                               |
| Google Scholar | HwwH66oAAAAJ                                                                                              |
| Researchid     | rid122705                                                                                                 |
| Web of science | OTJ-0399-2025                                                                                             |
|                |                                                                                                           |

### TEACHING EXPERIENCE

|                            |            |
|----------------------------|------------|
| <b>Date of Appointment</b> | 05.02.2007 |
| <b>Date of Retirement</b>  | 30.04.2040 |
| <b>Teaching Experience</b> | 18yrs (UG) |
| <b>UG</b>                  | Physics    |

| COURSES/CLASSES TAUGHT | NAME OF THE INSTITUTIONS                 | DURATION   |            | Years      |
|------------------------|------------------------------------------|------------|------------|------------|
|                        |                                          | From       | To         |            |
| UG (Physics)           | G.Venkataswamy Naidu College, Kovilpatti | 05.02.2007 | 30.04.2040 | 18yrs (UG) |

| AWARDS AND APPRECIATION RECEIVED |                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                               | Certificate of appreciation from Tamil Nadu State Aids Control Society and Tamil Nadu State Blood Transfusion Council for organizing a voluntary Blood Donation camp at G. Venkataswamy Naidu College. (2015-2016) |

| ADMINISTRATIVE<br>EXPERIENCE / POSITIONS IN VARIOUS CLUBS |                                                                     |                                             |                   |
|-----------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------|
| S. No                                                     | DESIGNATION                                                         | INSTITUTIONS                                | YEAR              |
| 1.                                                        | Head of the Department                                              | G.Venkataswamy Naidu<br>College, Kovilpatti | 2012 to till date |
| 2                                                         | Chief Invigilator- TNPSC-Group IV                                   |                                             | 06.11.2016        |
| 3.                                                        | NSS Programme Officer                                               |                                             | 2012-2016         |
| 4.                                                        | RRC Programme Officer                                               |                                             | 2012-2016         |
| 5.                                                        | Convener- Examination Committee                                     |                                             | 2014-2016         |
| 6                                                         | Convener-Youth Welfare Club                                         |                                             | 2019-2020         |
| 7                                                         | Advisor- Library Committee                                          |                                             | 2020-2023         |
| 8                                                         | Convener-Digital Learning Club<br>(MOOCS/NPTEL/ SPOKEN<br>TUTORIAL) |                                             | 2019-2022         |
| 9                                                         | Staff council Member                                                |                                             | 2012 to till date |
| 10                                                        | Discipline Committee Member                                         |                                             |                   |
| 11                                                        | Admission Committee Member                                          |                                             |                   |
| 12                                                        | Statutory Body Member                                               |                                             | 2020 to till date |
| 13                                                        | Academic Council Member                                             |                                             |                   |
| 14                                                        | Convener- Women's Cell & Internal<br>Complaints Committee           |                                             | 2023 to till date |
| 15                                                        | Presiding Officer – Panchayat<br>Election                           |                                             | 2011              |
| 16                                                        | Presiding Officer – Lok Sabha<br>Election                           |                                             | 2024              |
| 17                                                        | Senate Member                                                       | M.S.University,<br>Tirunelveli              | 2020-2023         |

| ORIENTATION/REFRESHER COURSES/FACULTY DEVELOPMENT<br>PROGRAMME UNDERGONE |                                                     |                                  |                                                                                              |
|--------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|
| S. No                                                                    | Name of the Training                                | Name of the<br>Sponsoring Agency | Place and Date                                                                               |
| 1.                                                                       | Refresher Course<br>Topic: New Trends in<br>Physics | University Grands Commission     | Madurai Kamaraj<br>University Academic Staff<br>College, Madurai<br>10.11.2010 to 30.11.2010 |
| 2.                                                                       | Orientation Course                                  | University Grands Commission     | Madurai Kamaraj<br>University Academic Staff<br>College, Madurai<br>16.05.2012 to 12.06.2012 |

|    |                                                                                                                                                       |                                                                      |                                                                                              |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 3. | Refresher Course<br>Topic: Basic Science                                                                                                              | University Grands Commission                                         | Madurai Kamaraj<br>University Academic Staff<br>College, Madurai<br>02.11.2016 to 22.11.2016 |
| 4  | Orientation Training                                                                                                                                  | Empanelled Training Institution-<br>National Service Scheme          | Avinashilingam University,<br>Coimbatore<br>01.03.2016-07.03.2016                            |
| 5  | Refresher Course<br>Topic: Basic Science                                                                                                              | University Grands Commission                                         | Madurai Kamaraj<br>University Academic Staff<br>College, Madurai<br>09.3.2018-29.03.2018     |
| 6  | Three Weeks Industrial<br>Training<br><br>Topic: Basic Science and<br>Communication                                                                   | Rajiv Gandhi Memorial Telecom<br>Training Centre                     | BSNL, Virudhunagar<br>01.06.2020 - 19.06.2020                                                |
| 7  | Two Weeks Refresher<br>Course/ Faculty<br>Development Program<br>Topic:Research<br>Methodology and Data<br>Analysis (Online)                          | Malaviya National Mission on<br>Teachers and Teaching                | Teaching Learning centre,<br>Ramanujan College, Delhi<br>17.05.2021-31.05.2021               |
| 8  | Two Weeks Refresher<br>Course/ Faculty<br>Development Program<br>Topic:Advanced Research<br>Methodology and Data<br>Analysis (Online)                 | Malaviya National Mission on<br>Teachers and Teaching                | Teaching Learning centre,<br>Ramanujan College, Delhi<br>22.03.2022- 05.04.2022              |
| 9  | Short Term Programme on<br>ICT Application in<br>Assesment & Evaluation                                                                               | Malaviya Mission Teachers<br>Training Centre- UGC                    | The Gandhigram Rural<br>Institute-DBTU,<br>Gandhigram<br>18.11.24-23.11.2024                 |
| 10 | One Week Faculty<br>Development Program on<br>“Next- generation<br>Technologies: Green<br>Hydrogen and Carbon<br>Capture for A Sustainable<br>Future” | Dept of Physics, PSGR<br>Krishnammal College For<br>Women,Coimbatore | 09.12.2024 - 14.12.2024                                                                      |
| 11 | Five Day FDP on<br>Revolutionizing Digital<br>Content Curation and<br>Access                                                                          | G.V.N.College (SF), Kovilpatti                                       | 17.2.25 – 21.2.25                                                                            |

| DETAILS OF RESEARCH WORK |                                                                              |                                           |
|--------------------------|------------------------------------------------------------------------------|-------------------------------------------|
| Research Stages          | Titles of the Thesis                                                         | University where the work was carried out |
| Ph.D                     | On the Acoustical Properties of Nano ferrofluids                             | Madurai Kamaraj University                |
| Minor Research Project   | UGC Sponsored: Ultrasonic Studies of Nanoferrofluid Sanctioned Rs 3,00,000/- | G.V.N.College                             |
| M.Phil                   | Thermal Diffusivity Studies on Copper Ferrites by Photoacoustic              | Pondicherry University                    |
| M.Sc                     | PhotoAcoustics                                                               | Pondicherry University                    |

| AREAS OF RESEARCH |
|-------------------|
| Ultrasonics       |
| PhotoAcoustics    |

| PUBLICATIONS  |                     |                                                         |                                        |            |
|---------------|---------------------|---------------------------------------------------------|----------------------------------------|------------|
| BOOKS         | BOOK CHAPTERS       | SCOPUS                                                  | WEB OF SCIENCE                         | UGC LISTED |
| -             |                     | 2                                                       |                                        | -          |
| OTHER INDEXED | ASA RESOURCE PERSON | PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS | WEBINARS, SEMINARS, WORKSHOPS ATTENDED |            |
| -             | -                   | 13                                                      | 31                                     |            |

| PUBLICATIONS: SCOPUS INDEXED JOURNALS & WEB OF SCIENCE |                                                                                                                                          |                                                                                                                                                                                                         |                                                                                                                                                                      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S. No                                                  | Title of the Paper                                                                                                                       | Name of the Journal                                                                                                                                                                                     | ISSN No., Volume, Issue, Impact factor & Pg. No                                                                                                                      |
| 1.                                                     | The study on ultrasonic velocities of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ nanoferrofluid prepared by co-precipitation method          | <i>NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS</i> , 2016,                                                                                                                                             | 7 (3), P. 558–560                                                                                                                                                    |
| 2.                                                     | ASTUDY ON ACOUSTICAL PARAMETERS OF $\text{Ni}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ NANOFERROFLUIDS PREPARED BY CO-PRECIPITATION METHOD | Stochastic Modeling & Applications Vol. 26 No. 3 (January - June, Special Issue 2022 Part - 10) 172 Special Issue on Innovative Research in Management, Applied Science and Engineering ISSN: 0972-3641 | Vol. 26 No. 3 (January - June, Special Issue 2022 Part - 10) 172 Special Issue on Innovative Research in Management, Applied Science and Engineering ISSN: 0972-3641 |

| <b>WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP</b> |                                                                                                                                 |                                                                                                     |                         |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------|
| <b>PAPER PRESENTED: National - International -</b>           |                                                                                                                                 |                                                                                                     |                         |
| <b>S. No</b>                                                 | <b>Name of the Event</b>                                                                                                        | <b>Name of the Sponsoring Agency</b>                                                                | <b>Place and Date</b>   |
| 1.                                                           | NationalSeminar on Quality Enhancement & Sustenance in the Institutions of Higher Education with Rural & Semi urban Background. | NAAC, G.V.N.College, Kovilpatti                                                                     | 07.10.2010 -08.10.2010  |
| 2                                                            | International Conference on Nano Science Engineering Applications                                                               | Center for Nano Science and Technology, JNTUH Hyderabad                                             | 26.06.2014 -28.06.2014  |
| 3.                                                           | International Conference on “Perspectives in Vibrational Spectroscopy”                                                          | Dept of Physics,Mar Ivanios College & The Kerala State Higher Education Council, Trivandrum, Kerala | 08.06.2014 -12.06.2014  |
| 4                                                            | UGC Sponsored National Seminar on Recent Trends in Crystal Growth and Nano Materials                                            | National College, Tiruchy                                                                           | 07.08.2014 – 09.08.2014 |
| 5.                                                           | International Conference on Nano Science and nano technology                                                                    | KS Rangasamy College of Technology,Tiruchengode                                                     | 07.09.2015-10.9.2015    |
| 6                                                            | International Conference on Nano Science and nano technology                                                                    | VIT university,Vellore                                                                              | 19.10.16-21.10.16       |
| 7                                                            | International Seminar on Nanoscience and Technology                                                                             | Dept of Physics, Mother Teresa women’s University, Kodaikanal                                       | 20.09.16                |
| 8.                                                           | International Conference on Functional Materials                                                                                | Thiagarajar college,Madurai                                                                         | 07.09.2017-08.09.2017   |
| 9                                                            | International Conference on Functional Materials for energy,Environment and Bio medical applications                            | Madurai Kamaraj University                                                                          | 11.12.17-12.12.17       |
| 10                                                           | National Symposium on Advances in functional and Exotic material                                                                | MRSI Trichy Chapter and centre for high pressure research, Bharathidasan university, Tirchy         | 14.2.18-16.2.18         |
| 11                                                           | National Confrence on Recent Advanced Materials                                                                                 | Thiruvalluvar University College of Arts and Science,Vandavasi                                      | 23.2.18-24.2.18         |

|    |                                                                                                        |                                                                       |                   |
|----|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------|
| 12 | International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications | K.S.R.College of Arts and Science for Women & SWANSEA University , UK | 31.08.18-01.9.18  |
| 13 | 64 <sup>th</sup> DAE Solid State Symposium                                                             | BARC, Mumbai,IIT,Jodhpur                                              | 18.12.19-22.12.19 |

#### SEMINARS/CONFERENCES/SYMPOSIA/WORKSHOP/ATTENDED:

| S. No | Name of the Event                                                                                                                  | Name of the Sponsoring Agency                                                                       | Place and Date          |
|-------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------|
| 1.    | National Seminar on Nano Science and Nano technology                                                                               | Sarah Tucker College,Tirunelveli                                                                    | 11.10.2007              |
| 2     | National Seminar on Quality Enhancement & Sustenance in the Institutions of Higher Education with Rural & Semi urban Background.   | NAAC, G.V.N.College, Kovilpatti                                                                     | 07.10.2010 - 08.10.2010 |
| 3     | One Day Workshop on Effective Usage of Internet in Teaching, Learning & Research                                                   | IQAC, G.V.N.College, Kovilpatti                                                                     | 08.01.2011              |
| 4     | National Seminar on Innovative Strategy for Technological and Developments Designing New Business Model in Renewable Energy Sector | V.H.N.S.N.College, Virudhunagar                                                                     | 03.03.11- 04.03.2011    |
| 5     | Two Days Training Program on IT for Non-IT Staff                                                                                   | G.V.N.College, Kovilpatti                                                                           | 27.01.2012 - 28.01.2012 |
| 6     | One Day Workshop on E-Governance                                                                                                   | NSS Cell, MS University                                                                             | 21.01.2014              |
| 7     | National Seminar on “Nuclear Energy- Powering the future”                                                                          | V.H.N.S.N.College, Virudhunagar                                                                     | 21.02.2014 - 22.02.2014 |
| 8     | UGC Sponsored Two Days Staff Competence Building Programme                                                                         | G.V.N.College, Kovilpatti                                                                           | 03.06.2014 - 04.06.2014 |
| 9     | International Conference on Nano Science Engineering Applications                                                                  | Center for Nano Science and Technology, JNTUH Hyderabad                                             | 26.06.2014 - 28.06.2014 |
| 10    | International Conference on “Perspectives in Vibrational Spectroscopy”                                                             | Dept of Physics,Mar Ivanios College & The Kerala State Higher Education Council, Trivandrum, Kerala | 08.06.2014 - 12.06.2014 |
| 11    | UGC Sponsored National Seminar on Recent Trends in Crystal Growth and Nano Materials                                               | National College, Tiruchy                                                                           | 07.08.2014 - 09.08.2014 |
| 12.   | One DayNSS Programme Officers Meeting                                                                                              | NSS CELL, M.S.University, Tirunelveli                                                               | 21.01.2015              |
| 13    | One Day Trainging Programme                                                                                                        | RRC, M.S.University, Tirunelveli                                                                    | 06.02.2015              |

|    |                                                                                                                  |                                                                                              |                                                        |
|----|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 14 | International Conference on Nano Science and nano technology                                                     | KS Rangasamy College of Technology, Tiruchengode                                             | 07.09.2015 - 10.09.2015                                |
| 15 | International Conference on Nano Science and nano technology                                                     | VIT University, Vellore                                                                      | 19.10.16 - 21.10.16                                    |
| 16 | International Seminar on Nanoscience and Technology                                                              | Dept of Physics, Mother Teresa women's University, Kodaikanal                                | 20.09.2016                                             |
| 17 | Two Day FDP on "Personal and Professional Transformation"                                                        | IQAC, G.V.N.College, Kovilpatti                                                              | 01.12.2016 - 02.12.2016                                |
| 18 | One Day Workshop on Advancement in characterization techniques                                                   | C.A.R.E. Group of institution, Trichy                                                        | 20.02.2017 – 21.2.2017                                 |
| 19 | International Conference on Functional Materials                                                                 | Thiagarajar college, Madurai                                                                 | 07.09.2017 - 08.09.2017                                |
| 20 | International Conference on Functional Materials for energy, Environment and Bio medical applications            | Madurai Kamaraj University                                                                   | 11.12.2017 - 12.12.2017                                |
| 21 | National Symposium on Advances in functional and Exotic material                                                 | MRSI Trichy Chapter and centre for high pressure research, Bharathidasan university, Tiruchy | 14.02.18 - 16.02.2018                                  |
| 22 | National Conference on Recent Advanced Materials                                                                 | Thiruvalluvar University College of Arts and Science, Vandavasi                              | 23.02.2018 - 24.02.2018                                |
| 23 | International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications           | K.S.R.College of Arts and Science for Women & SWANSEA University, UK                         | 31.08.2018 - 01.9.2018                                 |
| 24 | FDP on "Effective Teaching Pedagogy and Enabling Positive Values"                                                | IQAC, G.V.N College, Kovilpatti.                                                             | 24.04.18                                               |
| 25 | FDP - One day Orientation Programme on "Re-Accreditation Process"                                                | IQAC, G.V.N College, Kovilpatti.                                                             | 25.04.19                                               |
| 26 | Spoken Tutorial                                                                                                  | ICT Academy                                                                                  | 20.07.19                                               |
| 27 | Orientation Programme on "Outcome Based Education"                                                               | G.V.N College, Kovilpatti.                                                                   | 26 <sup>th</sup> Nov 2019                              |
| 28 | Orientation Programme on "Guideliness for Autonomy Process"                                                      | G.V.N College, Kovilpatti.                                                                   | 05 <sup>th</sup> December 2019                         |
| 29 | NPTEL -Workshop                                                                                                  | IIT, Madras & MS University                                                                  | 19.07.2019                                             |
| 30 | 64 <sup>th</sup> DAE Solid State Symposium                                                                       | BARC, Mumbai, IIT, Jodhpur                                                                   | 18.12.2019- 22.12.2019                                 |
| 31 | FDP on "ICT Tools and E-Content"                                                                                 | G.V.N College, Kovilpatti.                                                                   | 25 <sup>th</sup> May 2020 to 27 <sup>th</sup> May 2020 |
| 32 | Professional Development Program on "Advancements in Topological carbon Materials"                               | P.K.R.Arts college for Women, Erode                                                          | 04.06.2020                                             |
| 33 | State level Webinar on "Writing a Scientific Manuscript and Scientific Research Proposal-Key Points to Remember" | Department of Chemistry, G.V.N College, Kovilpatti.                                          | 30.10.20                                               |
| 34 | FDP on "Research and Development Funding Opportunities for Indian                                                | G.V.N.College, Kovilpatti                                                                    | 03.11.2020                                             |

|    | Faculty                                                                  |                                                                   |                         |
|----|--------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------|
| 35 | Training Programme on “Laboratory Safety and First Aid”                  | Department of Chemistry, G.V.N College, Kovilpatti.               | 13.02.21                |
| 36 | FDP on “New Education Policy in Higher Education”                        | G.V.N.College, Kovilpatti                                         | 24.02.2021              |
| 37 | FDP on “Introduction to drafting and filing a Patent”                    |                                                                   | 22.05.21                |
| 38 | National Level Webinar on “Cancer Prevention and Healthy Lifestyle”      | Sangeevani-Life Beyond Cancer, Mumbai & G.V.N.College, Kovilpatti | 10.06.21                |
| 39 | State Level Technical Workshop on” Intellectual Property Rights”         | TSCST, TIFAC and G.V.N.College                                    | 21.07.2023 & 22.07.2023 |
| 40 | National Seminar on “Whack of Technology on Women’s Spirit”              | Centre for women Empowerment & women Studies                      | 19.01.2023              |
| 41 | Orientation and Sensitization Training                                   |                                                                   | 01.10.2024              |
| 42 | National Workshop Comprehensive Training on X-Ray Diffraction Techniques | Sri Kaliswari College, Sivakasi                                   | 19.12.2024 – 20.12.2024 |
| 43 | Seminar on empowering Women through Building Self Esteem & Resilience    | Centre for women Empowerment & women Studies                      | 24.01.2025              |

| S. No | Name of the Event                                                                   | Name of the Sponsoring Agency      | Place and Date               |
|-------|-------------------------------------------------------------------------------------|------------------------------------|------------------------------|
| 1     | State Level Seminar on “Photonics and EnergyMaterials”                              | G.V.N.College                      | 01.10.2014<br>G.V.N.College  |
| 2     | National Level Seminar on”Nanomaterials ,Synthesis, Charecterisation & Applications | UGC Sposored                       | 05.08.2015 & 06.08.2015      |
| 2     | National Seminar on “Nuclear Energy-A Boon for Energy Scarcity”                     | Kudankulam Power Plant, Kudankulam | 22.12.2016,<br>G.V.N.College |
| 3     | State Level Seminar on “Recent trends in Photonics and Sensors”                     | G.V.N.College                      | 28.10.2022                   |
| 4     | ISRO -Space Exhibition 2K19                                                         | ISRO, Mahendragiri & G.V.N.College | 14.10.2019 – 15.10.2019      |
| 5     | Webinar on “Energy Resources of the future- An Overview”                            |                                    | 12.6.2020                    |



|    |                                                                  |               |                       |
|----|------------------------------------------------------------------|---------------|-----------------------|
| 6  | National Level Webinar on “Exploring Problem Solving in Physics” | G.V.N.College | 22.6.2020 & 23.6.2020 |
| 7  | International Webinar on “Photovoltaic Energy- An Overview”      |               | 20.7.2020             |
| 8  | Webinar on “Laws of Thermodynamics”-                             |               | 14.10.2020            |
| 9  | Webinar on “Application of Fibre Optic Sensors”                  |               | 6.5.2021              |
| 10 | Webinar on “Nanoscience and Nanotechnology”                      |               | 3.6.2021              |
| 11 | Webinar on” A New Approach to deal the Physics”                  |               | 16.9.2021             |

| MEMBERS IN PROFESSIONAL BODY |                                               |           |                                                     |
|------------------------------|-----------------------------------------------|-----------|-----------------------------------------------------|
| S. No                        | Name of the Body                              | Member ID | Location of the Body                                |
| 1                            | Ultrasonic Society of India                   | LM-378    | CSIR-National Physical Laboratory, New Delhi        |
| 2                            | Indian Laser Association                      | LM-1422   | Raja Ramanna Centre for Advanced Technology, Indore |
| 3                            | Board Member- Allied Physics Valuation Board, |           | M.S.Uninersity, Tirunelveli                         |
| 4                            | Physics Board-Question Paper Setter           |           | M.S.Uninersity, Tirunelveli                         |