

Dr. S. Shailajha M.Sc.,Ph.D.

Assistant Professor
Department of Physics
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Abishekapatti



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Education

Ph. D. (Physics)

Annamalai University,
Chidambaram/IIT Madras Tamilnadu,
India. Title: “Studies on Molecular
interactions in Ternary liquid systems
and few glass samples using Ultrasonic
Technique”

2004 – 2008

M.Sc. (Physics)

Annamalai University, Chidambaram,
Tamilnadu, India (First Class)

2002 – 2004

B.Sc. (Physics)

A.V.C College, Mayiladudhurai,
Bharathidasan University, Tamilnadu,
India (First Class)

1999 – 2002

Academic Affiliation

2009 Onwards

**Assistant Professor, Department of
Physics, Manonmaniam Sundaranar
University, Tirunelveli, Tamilnadu, India**

Professional Affiliation

- Ph. D- External Panel Examiner
- University Representative, Einstein College of Arts and Science, Seethaparpanallur, Tirunelveli, **2025** onwards.
- Programme-in-charge for B.Sc./M.Sc. Physics Courses of DD & CE, MSU, **2024** onwards.
- Programme-in-charge for B.Sc./M.Sc. Physics Courses of ODL (DD & CE), **2024** onwards.
- Inspection Committee Member, Ranianna College, Gandhinagar, **2024**.
- Convocation Committee Member, MSU, **2024**.
- Selection Committee Member of Temporary Assistant Professor for the academic year **2024-2025**, MSU
- Reviewer – Elsevier Publication (Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Ceramics International, Applied Surface Science, Journal of Material Science, etc.), **2024**.
- Reviewer – Springer Publication (Optical and Quantum Electronics, Journal of Material Science: Materials in Electronics, Journal of Inorganic and Organometallic Polymers and Materials), **2024**.
- Departmental Liaison Officer, IQAC, M.S.U. **2022** onwards.
- Member of Energy Audit Committee, M.S.U. **2022** onwards.
- Inspection Committee Member, **2022**.
- BOS Member, M.S.U, **2022**. Subject Expert (VC Nominee) for the recruitment of Assistant Professor in Physics, Vyasa Arts and Science Women’s College, **2022**.
- Doctoral Committee member of M. Sharmila from Department of Physics, Sadakathullah Appa College, M.S.U, **2018** onwards.
- Observer, Online Ph.D Viva, **2022**.
- Doctoral committee member of H. Dhillshath Raihana from Department of Chemistry, MSU, **2019** onwards.
- Doctoral Committee member of K. Karthick from Department of Chemistry, M.S.U, **2018** onwards.
- University Representation, Sri Ram Nallamani Yadava College of Arts & Science, Tenkasi, **2018** onwards.
- B. Sc, M. Sc Physics Course Faculty, DD & CE, 2017 onwards.
- Academic Council Member, St.Mary’s College, Tuticorin, **2017** onwards.
- Member – Advisory Committee.
- Faculty-in-charge for B.Sc. /M.Sc. Physics Courses of ODL (DD & CE), **2017** onwards.
- Faculty-in-charge for B.Sc. /M.Sc. Physics Courses of DD & CE, **2017** onwards.
- Executive Warden for Women’s Hostel, **2017-2018**.
- Co-ordinator of Physics Alumni Association meet, **2017**.
- Observer, Central Board of Secondary Education, New Delhi, **2012** onwards.
- Faculty-in-charge for purchase chemicals & glasswares, **2010** onwards.
- Member of an Inspection Commissions.
- Observer, Ph. D Viva-voce Examinations.
- Observer, Pre-Ph. D Viva voce.
- Member - Board of Studies, M. S. University, Tirunelveli, India
- Member - World Academy of Science and Engineering Technology (WASET).
- Member - The International Association of Computer Science and Information Technology (IACSIT)
- Member - Science and Engineering Institute (SCIEI).

Post-doctoral positions/other

INSA Summer Research Fellow with Prof. V.Murugesan, Supercomputer Education Research Centre, Indian Institute of Science, Bangalore.
2011

Abroad Visit

Professor Norlida Kamarulzaman Ph.D.,
Applied Science & Technology Universiti Teknologi MARA Kolej Amira Uitm
Puncak Alam Road, 42300 Shah Alam, Selangor, Malaysia
2012

Area of Research

- Bioactive glass/ceramics Materials
- Silver Bio-Nanomaterials, Theoretical Studies.
- Ultrasonics

Seminar/ Conference / Workshop Organized

12

Research Publications

35

Participated/Papers presented in National and International Conference / Symposia/ Workshop

73

- Remedial Coaching Course In-Charge, August 2011.
- Faculty-in-charge for UGC-NET/SET Coaching Schemes **2011**.
- Faculty-in-charge for Bank Exam Coaching Schemes **2011**.
- Taught DD & CE Classes for PG Students, **2010 – 2012**.
- Women's Welfare Committee Member, September **2010** onwards.
- Flying Squad in Mumbai and Pune M.S University centres, **2010**.

Honors / Award / Nomination to prestigious in State / National / International level

1. **Invited Talk** in Awareness Lecture on 'Doctor's Insights on Health & Wellness of Women', organized by Centre for Women Empowerment & Women Studies, M.S.U. **26th February 2025**.
2. **Chief Guest** of International Conference, Sri Sarada College for Women, Ariyakulam, Tirunelveli, **20th September 2024**.
3. **Chaired Session** in International Conference, Sri Sarada College for Women, Ariyakulam, Tirunelveli, **20th September 2024**.
4. **Academic Excellence Award**, **5th Sep 2024, M.S.U.**
5. **Observer – UGC NET Examination, September 2024**.
6. **Observer – Joint CSIR-UGC NET Examination, July 2024**.
7. **Observer – NEET Examination, May 2024**.
8. **Women Achiever Award (Teaching Category), 8th Mar 2024**
From all over M.S. University affiliated Colleges (Tirunelveli, Thoothukudi, Nagercoil, Kanniyakumari) Centre for Women Empowerment & Women Studies, M.S.U.
9. **Judge in Cosplay** for Mano-Intramural Competitions, Organized by Youth Welfare Department & Centre for Students Affairs, M.S.U. **2023**.
10. **Judge in Literary Competitions** for International Women's Day Celebration, Organized by the Centre for Women Empowerment & Women Studies, M.S.U. **2023**.
11. **Prize for the best interaction**
"Intellectual Property Right", Conducted by Patent Information Centre, TNSCST on **4th Aug 2022**.
Prize Book: "Grass Roots Innovation"
12. **NPTEL-SWAYAM Online Course Completed Certificate**
Subject :Biomedical Nanotechnology Duration :Aug –Sep **2022** (4 weeks) **Marks : 62% with Elite Medal**
Type of Certificate :Elite
13. **Chaired Session** in the 5th International Conference on Recent Trends in Applied Science and Technology (ICRTAST – 2021) Department of Physics, Chemistry and Life Science Manonmaniam Sundaranar University, Tirunelveli, 25th - 28th **November 2021**.
14. **Inter/Multi-Disciplinary Refresher Courses Course** on MOOCs and E-Content Development, UGC – Human Resource Development Centre (HRDC), Pondicherry University, 01 – 14th, October **2021**.
(Representative of the Course)
15. **NPTEL-SWAYAM Online Course Completed Certificate**
Subject :Biomaterials for Bone Tissue Engineering Applications Duration :Jul –Sep **2019** (8 weeks)
Marks :94% with Gold Medal (Topper)
Type of Certificate: Elite+Gold
16. **Best Minutes Award** for Paper Presentation in "The Indian Science Congress" Manipur University, Imphal, on **16th to 20th March, 2018**.

Research Projects

Dr. APJ Abdul Kalam Fellowship Project fund sanctioned

2018-2021
Completed

Tamil Nadu Government fund sanctioned

2017-2018
Completed

Book Published

Book Title: Integrated M.Sc ☑ . Physics
Laboratory Manual

Authors: Dr. S. Shailajha; Dr. S. Arunavathi

Funded by: MHRD, Pandit Madan Mohan
Malavia National Mission on Teachers and
Teaching (PMMMNTT)

Book Title: B.Sc./M.Sc. Physics Courses of
ODL (DD & CE)

Author: Dr. S. Shailajha

No. of Students completed and ongoing in Research

Ph. D

Awarded : 6
Submitted : 0
Ongoing : 3

M.Phil

Awarded : 17

M. Sc.

Awarded : 71
Ongoing : 00
Internship : 11

Integrated M. Sc.

Individual Project Awarded : 3
Internship : 9
Other Department Internship: 1

Title: “Biosynthesis and Characterization of Silver nanoparticles using Tinospora Cordifolia leaf extract and their antimicrobial Activity”

17.**Reviewer** - Materials Science and Engineering C (Elsevier Journal).

18.**Reviewer** – Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.

19. **Best paper Award** in State level Seminar on Recent trends in Material Science (**RTMS – 2015**), **16th February 2015**.

Title: Biosynthesis of Silver Nanoparticles from Leaf Extract of Azadirachta Indica and its Application of Antimicrobial Activity

20. **Best Paper Award** in National Conference (**NCAMA – 2014**), **4th and 5th April 2014**. **Title:** Ecofriendly Synthesis and anti-bacterial application of Ag and AgO nanofiber using O.Florum and S.Trilobatum

21. **Chaired Session** in “National Seminar on Recent Trends in Physics 2013” on 18th March

2013 at Department of Physics, Manonmaniam Sundaranar University, Tirunelveli.

22. **Chaired Session** in **ICBESE 2012**- International Conference on Biological, Ecological and Environmental Science and Engineering on Feb 19- 21, **2012** at **Kuala Lumpur, Malaysia**.

23. **DST – SERB** Sanctioned International Travel Grant for Attending International Conference on Biological, Ecological and Environmental Science and Engineering, **Feb 19 – 21, 2012** at Kuala Lumpur, Malaysia.

24. **Awarded Summer Research Fellowship 2011**, Supercomputer Education Research Centre, Indian Institute of Science, May – July, **2011** Bangalore.

Faculty Development Programme

1.REFRESHER COURSE IN PHYSICAL SCIENCES

UGC-MALAVIYA MISSION TEACHER TRAINING PROGRAMME
Gandhigram Rural Institute- Deemed to be University
25 sep -8 oct 2024, Score: A+

2. NPTEL-SWAYAM Online Course Completed Certificate

Subject: Biomedical Nanotechnology Duration: Aug –Sep **2022**
(4 weeks)
Marks: 62% with Elite Medal
Type of Certificate: Elite

3. Inter/Multi-Disciplinary Refresher Courses Course on MOOCs and E-Content Development

UGC – Human Resource Development Centre (HRDC),
Pondicherry University,
01 – 14th, October 2021.

4. NPTEL-SWAYAM Online Course Completed Certificate

Subject: Biomaterials for Bone Tissue Engineering Applications
Duration: Jul –Sep **2019** (8 weeks)
Marks: 94% with Gold Medal (Topper)
Type of Certificate: Elite+Gold

5. UGC-Sponsored Short-term Course in Gender Sensitization

University of Kerala, Kariavattom, Trivandrum,
21st – 29th December, 2018.

6. Short term Course on Faculty Empowerment Programme on Students Success(FEPS – 2018)

Manonmaniam Sundaranar University, Tirunelveli,
18th – 24th January 2018.

7. Refresher Course on Experimental Physics

Indian Academy of Sciences, Bangalore,
6 – 21st June 2013.

8. Orientation Programme

University of Calicut, Calicut
1 – 28th February **2011.**