ANNEXURE



Name : Dr.M.MARGABANDHU

Designation : Assistant Professor of Physics (Sl.Gr) & HOD(i/c)

Mail ID : uceamarg@gmail.com

Mobile No : 6369787279

- **Area of Interest/Research**: Nanoparticles, Nanofluids, Ferrofluids, Material Science and Semiconductors

- **Educational Qualifications**:

S.No	Qualification	Specialization	Year of Pass
1.	Ph.D	Science and Humanities (Physics)	2010-2018
2.	M.Ed	Education	2007-2008
2.	M.Phil	Physics	2006-2007
3.	M.Sc	Physics	2002-2004
4.	B.Sc	Physics	1999-2002

- **Experience:**

Name of Company / Institutions	Designation	Year of Experience
Kongunadu college of Engg and Technology, Tholurpatti, Thottium, Trichy	Lecturer	1 yr
University College of Engineering, Ariyalur	Assistant Professor	15 yrs 5 months

- **Additional / Academic Responsibilities at Institution/University Level:**

- **NSS Programme Officer** at UCE-Ariyalur from 22-08-2012 06-03- 2017

- **Executive Warden** at UCE-Ariyalur from 07-08-2014 to 06-05-2015

- **HOD (i/c)** at Dept of Physics, UCE-Ariyalur from 02-09-2014 to 24-07-2018

- **Exam Cell Co-ordinator** at UCE-Ariyalur from 08-10-2021 to 18-08-2022

- **First year coordinator** at UCE-Ariyalur from 22-08-2022 to till date
- **UCEA Academic Events Coordinator** at UCE-Ariyalur from 03-06-2022 to till date
- **Kanitamil Peravai Coordinator** at UCE-Ariyalur from 09-02-2023 to till date
- **Library Coordinator** at UCE-Ariyalur from 30-09-2022 to till date
- **HOD (i/c)** for the Dept of Science and Humanities at UCE-Ariyalur from 12.03.2024 to till date

- **Professional Activities:** Two Research Scholars pursuing PhD

- **List of Seminar / Short Term Course /FDP/ Workshop attended:**

  Presented a Technical Paper in "National workshop on Recent Advances in Engineering Materials & Chemical Sciences (NWRAEMCS 2016)" organized by Anna University Dept of Chemistry, UCE-Villupuram

- **List of Seminar / Short Term Course /FDP/ Workshop attended:**

1. "**Research Methodology for Engineering and Management(2012)**", organized by Dept of EEE, Kongu Engineering College Perundurai Erode during 31-08-2012 to 01-09-2012 (02 Days)
2. **NSS Orientation Course (2012)** organized by Madras School of Social Work (MSSW) Egmore Chennai during 21-09-2012 to 27-09-2012 (07 Days)
3. **Teaching Skills and Smart Classroom Tools (2013)** organized by CFD, Anna University Chennai during 07-01-2013 to 07-01-2013 (01 Day)
4. **Mini Colloquim on Nanofabriction Technologies (2013)** organized by Division of Nanoscience and Nanotechnlogy, BIT Campus, Tiruchirappalli during 25-03-2013 to 26-03-2013 (02 Days)
5. **Recent Trend and Application of Nanophotonics in Optical Communication (2014)** organized by Dept of ECE, University College of Engineering, Ariyalur during 11-10-2014 to 11-10-2014 (01 Day)
6. **Frontiers Research in Applied Sciences (2015)**organized by Dept of Chemistry, BIT Anna University, Tiruchirappalli, sponsored by TEQUIP II during 03-06-2015 to 16-06-2015 (14 Days)
7. **Faculty Development Programme on PH 6251 Engineering Physics II (2015)** organized by CFD, Anna University Chennai at University College of Engineering, Tindivanam during 15-12-2015 to 21-12-2015 (07 Days)

8. **Faculty Development Programme on MA6351 Transform and Partial Differential Equations (2017)** organized by CFD, Anna University Chennai, at University College of Engineering, Ariyalur during 25-05-2017 to 31-05-2017 (07 Days)
9. **Foundation Programme in ICT for Education (2017)** organized by IIT Bombay during 03-08-2017 to 07-09-2017 (36 Days)
10. **Pedagogy for Online Teaching and Learning Process (2017)** organized by IIT Bombay during 14-09-2017 to 12-10-2017 (28 Days)
11. **National Workshop on Engineering Materials and Chemical Sciences (NWRAEMS 2016)** Organised by Dept of Chemistry, University College of Engineering, Villupuram during 26-02-2016 to 26-02-2016 (01 Day)
12. **Effective use of IT for Professional Activities(2018)**organized by IIT Bombay during 06-09-2018 to 11-11-2018 (66 days)
13. **Soft Skills(2018)** organized by IIT Bombay during 06-09-2018 to 04-10-2018 (28 days)
14. **Workplace communication(2018)** organized by IIT Bombay during 04-10-2018 to 12-11-2018 (39 days)
15. **English for Oral Communication (2019)** organized by IIT Bombay during 19-02-2019 to 17-04-2019 (57 days)
16. **Financial Literacy (2019)** organized by IIT Bombay during 19-02-2019 to 18-03-2019 (27 days)
17. **Handling large projects(2019)** organized by IIT Bombay during 26-03-2019 to 22-4-2019 (27 days)
18. **Fundamentals of 3D Visualization (2019)** organized by IIT Bombay during 05-09-2019 to 23-12-2019 (109 days)
19. **Basic 3D Modeling using Blender(2019)**organized by IIT Bombay during 05-09-2019 to 23-12-2019 (109 days)
20. **Basic 3D Animation using Blender(2019)**organized by IIT Bombay during 05-09-2019 to 23-12-2019 (109 days)
21. **Inculcating Universal Human Values in Technical Education(2020)** organized by AICTE, New Delhi during 11-5-2020 to 15-5-2020 (5 days)
22. **Three weeks industrial training on "Basic Science and Communication"(2020)** organized by Rajiv Gandhi Memorial Telecom Training Centre, BSNL, Chennai during 08-06-2020 to 26-06-2020 (19 days)
23. **Date Science for All(2020)** organized by Electronics and ICT Academies – NIT Warangal, IIITDM Jabalpur and NIT Patna during 27-07-2020 to 08-08-2020 (13 days)
24. **Part 1 of the Online Universal Human Values Refresher-1 FDP (2022)**organized by AICTE during 21-02-2022 to 25-02-2022 (5 days)

25. **NITTT - AICTE 8 Modules Course (2024)** organized by NITTT & AICTE, New Delhi during Jan 2024 – Dec 2024 (1 year)

- **International / National Conferences Participated:**

1. **Second International Workshop on Advanced Functional Nanomaterials (SIWAN 2013)** organized by Centre for Nanoscience and Nanotechnology, Anna University Chennai during 28-01-2013 to 30-01-2013 (03 Days).
2. **Presented a Technical Paper in "Second National Conference on Material Science and its Future Prospects (NCMSFP -2017)"** organized by Anna University Dept of Chemistry, UCE-Villupuram

- **Publications :**

a. International Journals.

1. "Synthesis Characterization and Antibacterial Activity of Iron Oxide Nanoparticles" **M. Margabandhu,** S. Sendhilnathan, S. Maragathavalli, V. Karthikeyan and B. Annadurai, Global Journal of Bioscience and Biotechnology, Vol. 4(4), 2015, pp. 335-341.
2. "Investigation of Structural and Magnetic Properties of Cobalt Manganese Ferrite Nanoparticles" **M. Margabandhu,** S. Sendhilnathan and G. Vijayakumar, International Journal of Innovation and Scientific Research, Vol. 25, No. 1, 2016, pp. 1-7.
3. "Ground Water Analysis by Using GIS Techniques at Ariyalur Taluk, Tamilnadu, India", G.Vijayakumar, G. Baskar and **M. Margabandhu,** International Journal of Innovation and Scientific Research,Vol. 34, No.2, 2016, pp. 452-460.
4. "Experimental Investigation on Heat Transfer Rate of Co-Mn Ferrofluids in External Magnetic Field" **M. Margabandhu,** S. Sendhilnathan, S. Senthilkumar, K. Hirthna, Materials Science-Poland, Vol.34(2), 2016, pp. 427-436.
5. "Investigation of Structural, Morphological and Magnetic Properties and Biomedical applications of Cu^{2+} substituted Uncoated Cobalt Ferrite Nanoparticles", **M. Margabandhu,** S. Sendhilnathan, S. Senthil kumar and D. Gajalakshmi, Brazilian Archives of Biology and Technology, Vol.59.e16161046, 2016, pp. 1-10.
6. "Tuning of Heat Transfer rate of Cobalt Manganese Ferrite based Magnetic Fluids in Varying Magnetic Field", **M. Margabandhu,** S. Sendhilnathan, S. Thongmee, Materials Science (MEDZIAGOTYRA), Vol.23, No.3, 2017, pp. 294-299.
7. "Impact of Manganese dopant on Structural, Morphological and Magnetic Properties of Coated Cobalt Ferrite Nanoparticles" **M. Margabandhu**, S. Sendhilnathan, Hirthna, Advances in Natural and Applied Sciences, Vol. 11(8), 2017, pp. 341-345.
8. "Modeling of MSVPWM for single phase H – bridge five-level Inverter with PV and FPGA Implementation" S. Senthil kumar, S.Rajarajacholan, **M.Margabandhu,** Solid State Technology, Vol: 64 Issue: 2, 2021, pp.4268-4279.