

**Dr. M. MARGABANDHU**  
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**Department of Physics**  
**University College of Engineering, Ariyalur**  
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➤ **Research Area: Magnetic Nanoparticles and Ferrofluids.**

➤ **Educational Qualifications:**

Qualification	Department	Year (From -To)	Percentage	Class
Ph.D	Science and Humanities (Physics)	2010-2018	----	----
M.Phil	Physics	2006-2007	84	I class Distinction
M.Sc	Physics	2002-2004	73	I class
B.Sc	Physics	1999-2002	81	<u>I Class Distinction</u>
H.S.C	Maths-Biology	1998-1999	80	I
S.S.L.C	State Board	1996-1997	88	I

➤ **Experience:**

Name of Company / Institutions	Designation of Post	From	To	Relived on	Experience in Year
Kongunadu college of Engg and Technology, Tholurpatti, Thottium, Trichy	Lecturer	10-07-2008	24-08-2009	24-08-2009	1 yr
University College of Engineering, Ariyalur	Assistant Professor	25-09-2009	(Till Date) 24-05-2022	-----	12 Yrs 08 months

➤ **Awards:** -----

➤ **Additional / Academic Responsibilities at University:**

- NSS Programme Officer at UCE-Ariyalur from 22-08-2012 to 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 Till date

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

- a. **"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)
- b. **NSS Orientation Course (2012)** organized by Madras School of Social Work (MSSW) Egmore Chennai during 21-09-2012 to 27-09-2012 (07 Days)
- c. **Teaching Skills and Smart Classroom Tools (2013)** organized by CFD, Anna University Chennai during 07-01-2013 to 07-01-2013 (01 Day)
- d. **Mini Colloquim on Nanofabrication Technologies (2013)** organized by Division of Nanoscience and Nanotechnology, BIT Campus, Tiruchirappalli during 25-03-2013 to 26-03-2013 (02 Days)
- e. **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)
- f. **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)
- g. **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)
- h. **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)
- i. **Foundation Programme in ICT for Education (2017)** organized by IIT Bombay during 03-08-2017 to 07-09-2017 (36 Days)
- j. **Pedagogy for Online Teaching and Learning Process (2017)** organized by IIT Bombay during 14-09-2017 to 12-10-2017 (28 Days)
- k. **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)
- l. **Effective use of IT for Professional Activities(2018)** organized by IIT Bombay during 06-09-2018 to 11-11-2018

- m. **Soft Skills(2018)** organized by IIT Bombay during 06-09-2018 to 04-10-2018
- n. **Workplace communication(2018)** organized by IIT Bombay during 04-10-2018 to 12-11-2018.
- o. **English for Oral Communication (2019)** organized by IIT Bombay during 19-02-2019 to 17-04-2019
- p. **Financial Literacy (2019)** organized by IIT Bombay during 19-02-2019 to 18-03-2019
- q. **Handling large projects(2019)** organized by IIT Bombay during 26-03-2019 to 22-4-2019
- r. **Basic 3D Modeling using Blender(2019)** organized by IIT Bombay during 05-09-2019 to 23-12-2019
- s. **Basic 3D Animation using Blender(2019)** organized by IIT Bombay during 05-09-2019 to 23-12-2019
- t. **Inculcating Universal Human Values in Technical Education(2020)** organized by AICTE, New Delhi during 11-5-2020 to 15-5-2020
- u. **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
- v. **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
- w. **Part 1 of the Online Universal Human Values Refresher-1 FDP (2022)** organized by AICTE during 21-02-2022 to 25-02-2022

➤ **International Conferences Participated:**

- a. **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).

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<sup>2+</sup> substituted Uncoated Cobalt Ferrite Nanoparticles", **M. Margabandhu**, S. Sendhilmathan, 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. Sendhilmathan, 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. Sendhilmathan, 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.

**a. National Conferences:**

**x. Second National Conference on Material Science and its Future**

**Prospects(NCMSPF 2017)** Organised by Dept of Chemistry, University College of Engineering, Villupuram during 01-03-2017 to 01-03-2017 (01 Day)