



**Dr.M.ARULMOZHI ,M.E., Ph.D.  
Professor**

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## Education

**Ph.D.,**

National Institute of Technology, Tiruchirappalli (2009)

**M.E.,**

Chemical Engineering, Annamalai University (2000)

**B.E.,**

Chemical Engineering, Annamalai University(1997)

## Experience

### PROFESSOR

19/08/2015 to Till Date

Department of Petrochemical Technology, UCE,  
(BIT Campus), Anna University, Tiruchirappalli.

**(Head of Department- July 2015 to Nov.2019)**

### ASSOCIATE PROFESSOR

19/08/2012 to 18/08/2015

Department of Petrochemical Technology, UCE,  
Anna University, Tiruchirappalli.

### ASSISTANT PROFESSOR

19/08/2009 to 18/08/2012

Department of Petrochemical Technology, Anna  
University, Tiruchirappalli

### SENIOR LECTURER

25/02/2008 to 18/08/2009

Department of Petrochemical Technology, Anna  
University, Tiruchirappalli.

### LECTURER

25/02/2003 to 24/02/2008

Department of Petrochemical Technology,  
Bharathidasan Institute of Technology,  
Bharathidasan University, Tiruchirappalli.

### GUEST LECTURER

02/11/2001 to 24/02/2003

Department of Petrochemical Technology,  
Bharathidasan Institute of Technology,  
Bharathidasan University, Tiruchirappalli.

### LECTURER

01/12/1998 to 24/08/2000

E.G.S. Pillay Engineering College, Nagapattinam.

27/02/1998 to 31/10/1998

AAM Engineering College, Kovilvenni.

## Research Interests

Foam Separation, adsorption , Plastics Waste Management , Waste Water Treatment, Nano material Synthesis and Applications, Alternate Fuels.

## Ph.D Guidance

S.No.	Name of the Scholar	Title of the Thesis	Year of Completion
1	N. Saravani	Biosorptive Foam Separation of Phenolic Compounds from Waste Water using Microorganisms and Surfactants	28.09.2017
2	R. Krithikadevi	Investigations on doped and co doped ZnO nanostructures based heterojunction diodes for electronics applications	14.12.2017
3	B. Balraj	Studies on biological,optical and electrical properties of biofabricated nanomaterials using Streptomyces Sp.,	14.12.2017
4	D B Sivakumar	Studies on performance and emission characteristics of a variable compression ratio engine using ether gasoline blends	22.10.2020
5	M. Jayapriya	Synthesis, characterization and multidunctional applications of Metal/Metal oxide Nano composites mediated by Musa Paradisiaca bract and piper longum catkin Extracts	22.04.2021
6	B. Vijayakumar	Synthesis of Activated Carbon from Mango seed coat and its application in synthetic textile dyes removal	11.11.2020
7	N.Dharuman	Studies on synthesis of low thermal conductivity ceramic oxides and their applications as thermal barrier coatings using plasma spray process	Thesis Submitted
8	J. Sumathi	Modelling and optimization based control of dissolved oxygen for industrial effluents in semibatch fermenter	19.08.2021
9	J. Nandhini	Desalination using foam separation	Confirmation completed
10	M.Sofiya	Nano materials for Electronics Applications	Confirmation completed
11	N.R.Shailaja	Investigations on the Cytotoxic Potentials of Biofabricated Nanomaterials using Corallocarpus Epigaeus	6-11-2024
12	S.Leelavathy	Isolation Identification and Synthesis of Microbial Metabolites from Endophytic Fungi in Eragrostis Teff and Generation of Nanomaterials and Applications	Course Work
13	Sonia Sakthi S	Machine Learning Applications in Plastics waste Degradation	Course Work
14	Imayavathi M R	Nanomaterials for sensor applications	Course Work

## Ph.D Examinership

S.No	Name of the Candidate	University	Title of Thesis	Year
1.	Ms.M.Gayathri	Bharathidasan University	Physiological and Molecular Characterization of CYanobacterial elicitors in plant growth promotion	2017
2.	Ms.B.Suganya	Anna University	Studies on the effect of different metabolic uncouplers for enhancing the degradation rate of toluene in a Biofilm Reactor	2019
3.	Mr.V.Moorthi	Anna University	A Study of VCR Diesel Engine fuelled with Marotti Bio-Diesel using CFD and RSM	2023
4.	Mr.Karuganti Sukumar	Bharathidasan University	Isolation and characterization of silicate solubilizing <i>Bacillus tequilensis</i> SKSSB09 and studying the enhancement of drought mitigation in <i>Zea mays</i> L. under in vivo conditions	2024

## PDF Guidance

1. Dr.S.Latha, National Postdoctoral Fellow (NPDF) sponsored by DST, SERB on "Promising oleaginous *Streptomyces* as sustainable biodiesel feedstock: exploration and documentation" (**Ref: SERB/F/7310/2018-2019 dated 11.10.2018**)
2. Dr.K.Muthukumar, University Grants Commission (UGC), Dr. D. S. Kothari Postdoctoral Fellowship Scheme On " "Development of Biogenic Inhibitor on Fouling and Corrosion from *Turbinaria Ornata* Seaweeds – An Alternative to Astm std. Clarke Solution" (**Ref: F.4-2/2006(BSR)/ES/20-21/0014 dated 14.09.2021**)

## M.Tech Guidance - 32 students completed

## Projects and Fellowships

1. Received Tamilnadu State Council for Science and Technology (TNSCST) Project fund titled " Design of fully automated sanitizing device coupled with Nava Ayush-Sanitizer" (Ref:TNSCST/STP/Covid-19/2020-21/3697,dated 29.03.2021) Rs.2,70,000/-
2. **DST Young Scientist Award:** Received **Young Scientist** project fund under **FAST TRACK** Scheme for Young Scientist by SERB, DST for **Rs.18, 80,000/-** (Ref: SR/FT/ETA-0017/2012) for the project titled," Studies on removal of phenolic compounds from aqueous media and industrial effluents using biosorbents and ionic/ biosurfactants and modeling of the processes.

3. **Centre for Sponsored Research and Consultancy (CSRC)**, Anna University, Chennai funded students Innovative Project for Rs.25,000 (Ref: Proceedings No:P2425S00065/CSRC dated 10/02/2025 ) titled “Nano Fertilizers for Enhancing Soil Carbon Sequestration in Precision Agriculture” students; Mr.K.Madhavan, Mr.O.Siddharthan and Mr. M.Logesh Raja
4. **Tamilnadu State Council for Science and Technology (TNSCST)**, DOTE Campus, Chennai funded students Innovative Project for Rs.7500 for the year 2023-24 titled “Plastics degradation by Microwave Treatment” student; Ms.Nishika B S
5. **Centre for Technology Development and Transfer (CTDT), Anna University, Chennai** funded students Innovative Project for Rs.25,000 (Ref: Proceedings No:P-1819S4346/CTDT dated 08/05/2019 ) titled “Design and fabrication of biocompatible core –shell nanocomposites for the enhanced antioxidant and antimicrobial activities” students; Ms.M.Abinaya and Mr.R.Bharath
6. **Centre for Technology Development and Transfer (CTDT), Anna University, Chennai** funded students Innovative Project for Rs.25,000 (Ref: Proceedings No:P-1819S4336/CTDT dated 08/05/2019 ) titled “Development and Demonstration of the Ultra efficient nano filter system for recycling of Textile Effluents” students; Mr.M.Veeramani and Mr.W. Ambrose Thiagaraja
7. **Centre for Technology Development and Transfer (CTDT), Anna University, Chennai** funded students Innovative Project for Rs.25,000 (Ref: Proceedings No:P-1819S4345/CTDT dated 08/05/2019 ) titled “Biodegradation of Oil Spills by Indigenous Actinobacteria originated from Hydrocarbon Contaminated Soils” students; Mr.Tamizhazhagan, Mr.V. Seenuvasan and Mr. P.Varun

## TEQIP II Student Fellowships

S.no.	Name of Students	Degree	Project Fund/Fellowship Amount	Year
1	N.Saravani	Ph.D.	Rs.12,000/month	Feb.2015 to Oct.2016
2	R.Krithikadevi	Ph.D.	Rs.12,000/month	Mar.2016 to Oct.2016
3	B.Balraj	Ph.D.	Rs.12,000/month	Mar.2016 to Oct.2016
4	M.Jayapriya	Ph.D.	Rs.12,000/month	May2016 to Oct.2016
5	T.Saranya	B.Tech	Rs.10,000	2015
6	M.Hemalatha	B.Tech	Rs.10,000	2015

7	K.P.Suriya	B.Tech	Rs.10,000	2015
8	S.Saranya	B.Tech	Rs.10,000	2016
9	A.D. Surendhar	B.Tech	Rs.10,000	2016

## Administrative Responsibilities & Professional Recognition

1. Head of the Department (7 July 2015 to 18 Nov.2019)
2. Coordinator (R&D),UCE, BIT Campus, Anna University, Tiruchirappalli-24 from Sep.2024.
3. Coordinator (PoSH Cell), UCE BIT Campus, Anna University, Tiruchirappalli-24 from 2021.
4. Member, Women Empowerment Cell, UCE BIT Campus, Anna University, Tiruchirappalli-24 from Dec. 2024.
5. Subject Expert in the selection committee for CAS promotion to the faculty of Madurai Kamaraj University, Madurai during 2022.
6. Subject expert in the selection committee to recruit project fellow under RUSA 2.0 of Bharathidasan University,Tiruchirappalli-24.
7. Board of Studies member for Department of Petrochemical Engineering,Perunthalaivar Kamarajar Institute of Engineering and Technology (PKIET), (Govt. of Puducherry Institution), Nedungadu, Karaikal 609 603 for the year 2021.
8. Received sponsorship from Ministry of New and Renewable Energy (MNRE) for Rs.1,00,000 and Rs.30, 000 from Council of Scientific and Industrial Research (CSIR) for organizing a national conference on Renewable Energy Sources during Feb.2011.
9. Anna University Nominee for academic council of PSG College of Technology, Coimbatore for the academic year 2021-2022, Nandha Engineering College, Erode for 2021-2023,Coimbatore Institute of Technology for 2022-2024.
10. Anna University Nominee in the board of studies for Sethu Institute of Technology,2018-2022.
11. Expert Committee member in Kochi- Kootanad-Bangalore- Mangalore Pipeline, Project of GAIL, Government of Tamil Nadu.(G.O No.274, Industries (MIA.1), Department dated 14.12.2015).
12. Governing Council Member in United Institute of Technology, Coimbatore during 2023-2025.
13. AICTE expert committee member in Swachhata Ranking of Higher Educational Institutions 2017.
14. AICTE expert committee member in faculty selection committee in Coimbatore Institute of Technology, Coimbatore 2016-2018.

15. NBA Coordinator for the Department of Petrochemical Technology, BITCampus(2013-2015) and 2019 to till date.
16. Coordinator for Women Empowerment cell of Anna University of Technology, Tiruchirappalli from 2010 to 2015.
17. Doctoral committee member for 10 PhD scholars of Anna University , 3 of National Institute of Technology, Tiruchirappalli and 2 sscholars of Vellore Institute of Technology, Vellore.
18. Professor-in-charge in the M.Tech (Energy Conservation and Management) syllabus committee board during 2010.
19. Assistant Warden for Kothai Hostel for women from November 2004 to December 2006
20. Received travel grant from Council for Scientific and Industrial Research(CSIR) (Amount Rs: 5000/-) and SERB,GOI (Rs.1,00,000) to attend International Conference at Malaysia in Jan.2008 and USA in Nov.2019 respectively.
21. Served as Associate Editor for the International Journal of Environmental Sustainability during 2008.
22. Reviewer for International Journals namely Chemical Engineering Journal, Bioresource Technology, International Journal of green energy and Cellular and molecular biology etc.,
23. Served as expert member for the brain storming session on "Road map for Hydrogen" conducted by Central Electrochemical Research Institute, Karaikudi.
24. Coordinator, Department of Pharmaceutical Technology from 2-11- 2001 to 24-02-2003.
25. Convener for Syllabus framing of Diploma and P.G. Diploma in Process Engineering courses of Bharathidasan University,Tiruchirappalli.
26. Serving as external examiner for M.Tech., (Biotechnology) intergrated course lab exams of Bharathidasan University, Tiruchirappalli, M.Tech Project viva, Ph.D. compre. external member of National Institute of Technology, Tiruchirappalli.
27. Committee member for Credit and Grade system of Regulation 2007,BIT Campus, Tiruchirappalli.
28. Instrumental in setting up of Process control laboratory and other chemical engineering Laboratories in the Department of Petrochemical Technology since 2001.
29. Served as member board of studies for B.Tech Petrochemical Technology, School of Engineering and Technology, Bharathidasan University,2005-2006.

## Patent Details

No. of Patents Published: 5

## No. of Copy rights

Registered:1

Applied:1

## No. of Design Patents

Registered:1

Applied : 1

## Awards and Honors

- Received Chartered Management Institute (CMI), U.K Level 5 certificate on Management and Leadership, Training organized by All India Council for Technical Education (AICTE) ,GOI and Dudley College, United Kingdom organized during 2019-20.
- **Best paper award** for the paper titled "Optimization of fuel oil yield through microwave catalytic copyrolysis of waste plastics and biomass : waste to sustainable wealth approach" in National Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD) held at Annamalai University, Jan.,24-25,2025.
- **Best paper award** for the paper titled "Biosorptive Fom Separation of Phenolic Compounds using Pseudomonas Putida and CTAB" in International Conference on Translational Biotechnology held at Motilal Nehru National Institute of Technology,Allahabad, Feb.,4-6,2016.
- **DST Young Scientist Award:** Received **Young Scientist** project fund under **FAST TRACK** Scheme for Young Scientist by SERB, DST
- Life member in Indian Society for Technical Education (ISTE) (LM36083)
- Life member in Indian Institute of Chemical Engineers (IICChE) (12080)
- Life member in Institution of Engineers (IE) (M1558360)

## Books

1. **M.Arulmozhi** & K.Kumaraguru, "Emerging Trends in Petrochemical Technology" ASSVET International Publishers Co., Chennai, First Edn., , ISBN: 978-93-5254-503-2 [2016]
2. Krithikadevi Ramachandran, **Arulmozhi Muthukumarasamy**, Siva Chidambaram" Bismuth Ferrite Nanoparticles " Lambert Academic Publishing „Germany ISSN: 978-3-659-78025-7 [2015]

## Book Chapter

1. Ethnic probiotic foods of south India and their Health Benefits by Selvanathan Latha, Anandhan Hemamalini, Sundarraj Dinesh Kumar, Arulmozhi Muthukumarasamy and Dharmadurai Dhanasekaran for the book titled " Fermented Food Products", CRC Press, Taylor and Francis Group, 1st Edition, 2020 , ISBN:9780429274787 [2020]
2. **Green Synthesis of Nanoparticles from Agro-waste: A Sustainable Approach** by K.



*Muthukumar, M. Jayapriya, M. Arulmozhi, T. Senthilkumar, and R. Krithikadevi* for the book titled "Waste to Profit Environmental Concerns and Sustainable Development", Edited By Meera Sheriffa Begum K.M., Anand Ramanathan, Amaro Olimpio Pereira Junior, Dmitrii O. Glushkov, M. Angkayarkan Vinayakaservi, CRC Press, Taylor and Francis Group, 1st Edition, 2023, <https://doi.org/10.1201/9781003334415>

3. **Conversion of Waste Plastics into Sustainable Fuel by Mohanraj Chandran, T. Senthilkumar, M. Chandrasekar, and M. Arulmozhi** for the book titled "Waste to Profit Environmental Concerns and Sustainable Development", Edited By Meera Sheriffa Begum K.M., Anand Ramanathan, Amaro Olimpio Pereira Junior, Dmitrii O. Glushkov, M. Angkayarkan Vinayakaservi, CRC Press, Taylor and Francis Group, 1st Edition, 2023, <https://doi.org/10.1201/9781003334415>

## Overseas Visit

- ❖ Universiti Malaysia Terengganu, Malaysia for Oral Presentation in International Conference during January 2008 funded by CSIR and NITT.
- ❖ Oral Presentation in American Institute of Chemical Engineers (AIChE) spring meeting at Florida, USA during Nov.2019 funded by SERB.

## National Publications

1. **M.Arulmozhi**, K.M.Meera S.Begum ,N.Anantharaman and M.Thenmozhi, "Zinc (II) recovery from aqueous solution using continuous foam fractionators"Journal of Chemical and Pharmaceutical Sciences, ,Pg.277-281.ISSN0974-2115, March 2015
2. **M.Arulmozhi**, K.M.Meera S.Begum ,N.Anantharaman and M.Thenmozhi, "Continuous foam fractionation of copper(II) ions from aqueous media and industrial effluents", Journal of Chemical and Pharmaceutical Sciences, , Pg.182-185, Dec 2014
3. **M.Arulmozhi**, K.M.Meera S.Begum and N.Anantharaman, "Removal of heavy metal ions from aqueous and industrial effluent by foam separation", Water Digest, , II, 2008

## International Publications

1. N. Dharuman, M. Arulmozhi, Sathish Kumar Ramachandran and Gosipathala Sreedhar,2024 "High-temperature oxidation behaviors of rare earth-based pyrochlore structured A2B2O7/yttria-stabilized zirconia thermal barrier coatings", Material Science and Technology, SAGE Publications,May 2024 , <https://doi.org/10.1177/02670836241249827> (I.F.2.3)
2. Shailaja NR , Arulmozhi M , Balraj B,2023," Two step green plasmonic synthesis of Gd <sup>3+</sup> /Nd <sup>3+</sup> ions influenced ZrO <sub>2</sub> nanoparticles for enhanced in-vitro antibacterial, antifungal and antidiabetic activities, Journal of Molecular Structure, Elsevier Publications, 1274 (2023) 134524 ,(I.F:3.841)



3. N.R. Shailaja, M. Arulmozhi ,B. Balraj , C. Siva ,2023,"*Corallocarpus epigaeus* mediated synthesis of ZnO/CuO integrated ZrO<sub>2</sub> nanoparticles for enhanced in-vitro antibacterial, antifungal and antidiabetic activities, Journal of the Indian Chemical Society, 100 (2023) 100991,(I.F:0.243)
4. Muthukumar Krishnan, Harinee Subramanian, Arulmozhi Muthukumarasamy, Ashok Mahalingam , Arthur James Rathinam , Hans-Uwe Dahms and Jiang-Shiou Hwang ,2023" Synthesis of Bimetallic BiPO<sub>4</sub>/ZnO Nanocomposite: Enhance Photocatalytic Dye Degradation and Antibacterial Applications ",International Journal of Molecular Sciences, MDPI, DOI:[10.3390/ijms24031947](https://doi.org/10.3390/ijms24031947) (I.F:6.208)
5. Harinee Subramanian , Arthur James Rathinam , Ashok Mahalingam , Sathish Kumar Ramachandran, Arulmozhi Muthukumarasamy, Krishnan Muthukumar , 2023"Hydrothermal synthesis of spindle structure copper ferrite-graphene oxide nanocomposites for enhanced photocatalytic dye degradation and in-vitro antibacterial activity", Environmental Research, Elsevier Publications volume 231, Part 2, 15 August 2023,
6. 116095.(I.F:8.431)S. Harinee , K. Muthukumar, R.A. James , M. Arulmozhi , H.-U. Dahms , M. Ashok,2022" Bio-approach ZnO/Ag nano-flowers: enhanced photocatalytic and photoexcited anti-microbial activities towards pathogenic bacteria", Materials Today Sustainability,Elsevier Publications,18 (2022) 100133, (I.F:8.57)
7. Jayapriya Maruthai , Krithikadevi Ramachandran , Arulmozhi Muthukumarasamy , Siva Chidambaram , Mounir Gaidi , Kais Daoudi,2022," Bio fabrication of 2D MgO/Ag nanocomposite for effective environmental utilization in antibacterial, anti-oxidant and catalytic applications", Surfaces and Interfaces, Elsevier Publications, Volume 30, June 2022, 101921(I.F:6.137)
8. J. Sumathi, **M. Arulmozhi**, S. Sundaram, 2020," RSM and ANN modeling of dissolved oxygen response using paper industry effluent in semi batch fermenter" Desalination and Water Treatment, 188,140–150,June 2020, (I.F: 1.32)
9. N Dharuman, **M Arulmozhi**, Mukiri Soban Babu, L John Berchmans and Gosipathala Sreedhar," Investigations on oxidation, hot corrosion and thermal gradient performance of low k-La<sub>2</sub>Mo<sub>2</sub>O<sub>9</sub> thermal barrier coating", Bulletin of Material Science, Indian Academy of Sciences, 44:8, 2021, <https://doi.org/10.1007/s12034-020-02279-0>, (I.F: 1.392)
- 10.M. Jayapriya, **M. Arulmozhi**, 2021, "Beta vulgaris peel extract mediated synthesis of Ag/TiO<sub>2</sub> nanocomposite: Characterization, evaluation of antibacterial and catalytic degradation of textile dyes-an electron relay effect", Inorganic Chemistry Communications, Elsevier Publications,

<https://doi.org/10.1016/j.inoche.2021.108529>, 8 March 2021 (I.F: 2.495)

- 11.D.B.Sivakumar, **M.Arulmozhi**, S.Sathyanarayanan, M.Sridharan, 2021," Optimization of gasoline engine operating parameters fueled with DIPE-gasoline blend: Comparative evaluation between Response Surface Methodology and Fuzzy Logic Expert System", Process Safety and Environmental Protection, Elsevier Publications, <https://doi.org/10.1016/j.psep.2021.12.015>, 10 Dec. 2021 (I.F:6.158)
- 12.Vinothini G., Latha S., **Arulmozhi M.**, Dhanasekaran D. 2019. Statistical optimization, physio-chemical and bio-functional attributes of a novel exopolysaccharide from probiotic *Streptomyces griseorubens* GD5. International Journal of Biological Macromolecules, 134, 575–587. [IF: **3.909**]
- 13.Vinothini G., Kavitha R., Latha S., **Arulmozhi M.**, Dhanasekaran D. 2018. Cell aggregating temperament and biopotency of cultivable indigenous actinobacterial community profile in chicken (*Gallus gallus domesticus*) gut system. Arabian Journal for Science and Engineering, 43, 3429–3442. [IF: **1.092**]
- 14.B. Vijaya Kumar , **M. Arulmozhi** , B.G. Prakash Kumar and G. Ashwin, 2019. Production of activated carbon from mango seed coat using chemical activation. Journal of Environmental Biology, 40(3):283-290. [IF: **0.727**]
- 15.Jayapriya Maruthai **Arulmozhi Muthukumarasamy** "Fabrication and characterisation of silver nanoparticles using bract extract of Musa paradisiaca for its synergistic combating effect on phytopathogens, free radical scavenging activity, and catalytic efficiency", IET Nanobiotechnology, The Institution of Engineering and Technology, Sep.2018 (Impact Factor :1.98)
- 16.Jayapriya Maruthai, **Arulmozhi Muthukumarasamy**, Balraj Baskaran"Optical, biological and catalytic properties of ZnO/MgO nanocomposites derived via Musapadisiaca bract extract" Ceramics International, Elsevier publications OI: <https://doi.org/10.1016/j.ceramint.2018.04.138>, Apr 2018 (Impact Factor :3.1)
- 17.Jayapriya Maruthai, **Arulmozhi Muthukumarasamy**,D.Dhanasekaran, "Green Synthesis of Silver Nanoparticles Using Piper Longum Catkin Extract Irradiated By Sunlight: Antibacterial And Catalytic Activity, Research on Chemical Intermediates, Springer Verlag,2019 (Impact Factor :1.674) Article DOI: 10.1007/s11164-019-03812-
- 18.Saravani Natrajan, **Arulmozhi Muthukumarasamy**, Abstraction of phenol onto Pseudomonas putida and CetylTrimethyl Ammonium Bromide, Accepted for Publication in Cellular and Molecular Biology Journal, OMICS publications, Vol. 63, Issue. 6, Pages. 29, Jul 2017 (Impact Factor:1.234)Saravani Natrajan, **Arulmozhi Muthukumarasamy**, "Influence of various process parameters on the biosorptive foam separation performance of o-cresol onto Bacillus cereus and Cetyl Trimethyl

Ammonium Bromide”, Journal of the Taiwan Institute of Chemical Engineers, Elsevier Publications, Oct 2016 (Impact Factor:4.217)

- 19.B Balraj, **M Arulmozhi**, C Siva, R Krithikadevi, Synthesis, characterization and electrochemical analysis of hydrothermal synthesized AgO incorporated ZrO<sub>2</sub> nanostructures, Journal of Materials Science: Materials in Electronics, Volume. 28, Issue. 8, Pages. 5906-5912, Springer ,US, Apr 2017 (Impact Factor :2.019)
- 20.B Balraj, N Senthilkumar, C Siva, R Krithikadevi, A Julie, I Vetha Potheher, **Arulmozhi** “Synthesis and characterization of Zinc Oxide nanoparticles using marine Streptomyces sp. with its investigations on anticancer and antibacterial activity”, Research on Chemical Intermediates, Volume. 43, Issue. 4, Pages. 2367-2376, SpringerNetherlands, Apr 2017 (Impact Factor :1.369)
- 21.Balraj Baskaran, **Arulmozhi Muthukumarasamy** “Isolation, characterisation and enzymatic activity of Streptomyces sp. and its pH control during fermentation process”, **IET Systems Biology**, IET Digital Library, Apr 2017 (**Impact Factor :1.048**)
- 22.R Krithikadevi, **M Arulmozhi**, C Siva, B Balraj, G Mohan Kumar, Optical and electrical properties of n-ZnAgAuO/p-Si heterojunction diodes, Journal of Materials Science: Materials in Electronics, Volume. 28, Issue. 7, Pages. 5440-5445, Springer US, Apr 2017(Impact Factor :2.019)
- 23.Krithika devi Ramachandran, Siva Chidambaram, Baalraj Baskaran, **Arulmozhi Muthukumarasamy**, John Berchmans Lawrence, “Investigations on Structural, Optical and Magnetic Properties of Solution Combustion Synthesized Nanocrystalline Iron Molybdate”, Bullatin of Material Science, Springer Publications, Feb 2017 (Impact Factor: 1.017)
- 24.Krithikadevi Ramachandran, **Arulmozhi Muthukumarasamy**, Balraj Baskaran, Siva Chidambaram, “Optical and Electrical Characteristics of n-ZnSmO/p-Si Heterojunction Diodes”, Applied Surface Science, Elsevier Publications, Volume 418, Part A, 1 October 2017, Pages 312-317, Jan 2017 (Impact Factor :3.387)
- 25.Saravani Natrajan, **Arulmozhi Muthukumarasamy**, “Experimental Investigation on Abstraction of Phenol onto Micrococcus lylae and CetylTrimethyl Ammonium Bromide” Accepted for Publication in CLEAN Soil Air Water Journal, Wiley Publications, Volume. 44, Issue. 11, Pages. 1489-1498, Nov 2016 (Impact Factor:1.945)
- 26.Krithika devi Ramachandran, Siva Chidambaram, Baalraj Baskaran, **Arulmozhi Muthukumarasamy**, Ganesan Mohan, “One pot polyol synthesis of CuO-CuFe<sub>2</sub>O<sub>4</sub> nanocomposites and their structural, optical and electrical property studies” Materials Letters, Elsevier Publications, 175, 106-109, Jul 2016 (Impact Factor:2.489)

27. Balraj B, **Arulmozhi M**, Siva C, Abimanyu S, Krithikadevi R Thaneswari RM, "Cytotoxic potentials of biologically fabricated platinum nanoparticles from *Streptomyces* sp. on MCF-7 breast cancer cells", IET Nanobiotechnology, Available online: 17, Jan 2016 (Impact Factor:1.5), DOI: 10.1049/iet-nbt.2016.0040, Online ISSN 1751-875X
28. D B Kumar, **M Arulmozhi**, T Senthil Kumar "Experimental Investigation on the Performance of SI Engine using Oxygenate Additives", Asian Journal of Research in Social Sciences and Humanities Volume. 6, Issue. 9, Pages. 246-253, Asian Research Consortium, 2016
29. **M. Arulmozhi**, K.M.Meera S.Begum, N.Anantharaman "Continuous foam fractionation of Chromium (VI) ions from aqueous and Industrial Effluents", **Desalination and Water Treatment, Taylor and Francis Journal**, 1-11. Oct 2013 **(Impact Factor:1.173)**
30. **M. Arulmozhi**, K.M.Meera S.Begum and N.Anantharaman, "Continuous foam separation of heavy metal ions from electroplating industrial effluent" **Chemical Engineering Communications, Taylor and Francis Journal**, Volume 198, Issue 4, Pages 541-551, Nov 2010 **(Impact Factor: 1.104)**
31. **M Arulmozhi**, KM Meera Sherifa Begum, N Anantharaman "Foam Separation of Copper(II) from Aqueous Solutions", Journal of Environmental Research And Development Vol. 2, Issue. 2, Oct 2010
32. **M. Arulmozhi**, K.M.Meera S.Begum and N.Anantharaman, "Foam separation of proteins" International Journal of Chemical Sciences. Vol.8(5):S1-S595, Jan 2010
33. G. Sarojini, **M. Arulmozhi**, P. Mullai & M. Thenmozhi, "Reverse Micellar Separation of Protease from fermentation broth" International Journal of Chemical Sciences. Vol. 8(5): S1-S595, Jan 2010
34. **M. Arulmozhi**, K.M.Meera S.Begum, N.Anantharaman, "Removal of Chromium (VI) ions by foam separation: Aqueous and Industrial effluent", International Journal of Environmental Sustainability, Volume-2, No 4, Jan 2008
35. **M. Arulmozhi**, K.M.Meera S.Begum and N.Anantharaman, "Foam separation of Cu(II) from aqueous solutions", International Journal of Environmental Research and Development. Vol.2 No.2, Dec 2007. M. Jayapriya, K.Premkumar, **M. Arulmozhi**, K.Karthikeyan, "One step biological synthesis of cauliflower like Ag/MgO nanocomposite with antibacterial, anticancer and catalytic activity towards anthropogenic pollutants". Research on Chemical Intermediates, Springer Publications, 2020, <https://doi.org/10.1007/s11164-019-04062-1>, [I.F: 2.064]
36. Balraj B, Arulmozhi M, Jayapriya M, Biological fabrication of silver nanomaterials and its applications in Pharmaceutical Fields, Inderscience - Int. J. of Computational

Materials Science and Surface Engineering, Vol. 7, No. 2, pp. 79-88, 2018, SNIP: 0.332, DOI: 10.1504/IJCMSSE.2018.092532, ISSN:1753- 3473.

37. Balraj B, Senthilkumar N, Vetha Potheher I, Arulmozhi M, Characterization, antibacterial, anti-arthritis and in-vitro cytotoxic potentials of biosynthesized Magnesium Oxide nanomaterial, Elsevier - Materials Science & Engineering - B, Vol. 231, pp. 121-127, 2018, Impact Factor: 3.316, DOI: 10.1016/j.mseb.2018.10.011, ISSN:0921-5107

## National Conferences

1. M.Arulmozhi, J.Nandhini, Archana Menon "Optimization of fuel oil yield through microwave catalytic copyrolysis of waste plastics and biomass : waste to sustainable wealth approach" in National Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD) held at Annamalai University, Jan.,24-25,2025.
2. **M.Arulmozhi,** "Foam Separation- Application to Industrial Effluent Treatment " **National Conference on Emerging Trends in Chemical and Petrochemical Technology**, Department of Petrochemical Technology, BIT Anna University, Trichy, Mar2016.
3. **M.Arulmozhi,** "Gas Sensors for Chemical and Petrochemical Industries" **National Conference on Emerging Trends in Chemical and Petrochemical Technology**, Department of Petrochemical Technology, BIT Anna University, Trichy, Mar2016.
4. **M.Arulmozhi, M.Thenmozhi, PL.Sabarathinam,** "Regular Solution NRTL equation in VLE calculations", **National seminar on Current Trends in orienting students towards industrial projects**, Department of Petrochemical Technology, School of Engineering and Technology, Bharathidasan University, Feb 2004.
5. **M.Arulmozhi, K.M.Meera S.Begum, N. Anantharaman,** " A review on Foam separation", **National Conference on Advances in Chemical Engineering and Biotechnology**, St.Joseph's College of Engineering, Jeppiaar Nagar, Old Mamallapuram Road, Chennai.

## Paper Presentation

## International Conferences

1. Sonia Sakthi S, Kumaraguru K, **Arulmozhi M** and Mirthula T "Leveraging Machine Learning for Advanced Plastic Pyrolysis: A Review" in International Conference on Recent Developments in Pure and Applied Mathematics (IRDPAM 2025) held at

University College of Engineering, Anna University, Tiruchirappalli Jan.,6-7,2025.

2. **M.Arulmozhi**, N.Saravani, "Ameliorated Phenol Uptake From Paper Mill Effluent onto Spent Brewer's *Saccharomyces Cerevisiae* in the Presence of Cetyltrimethyl Ammonium Bromide", AIChE 2019 Annual Meeting in Orlando, FL on November 10 – November 15, 2019
3. J.Sumathi, P.Aravind, **M.Arulmozhi**, T.Senthilkumar S.Sundaram," State Feedback controller Design for Dissolved Oxygen Parameter using Paper Mill Effluent in a semi batch fermenter", International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment", organised by Department of Chemical Engineering, National Institute of Technology Tiruchirappalli-15, March 12-13,2021.
4. **M.Arulmozhi**, K.M.Meera S.Begum, N.Anantharaman, "Removal of Chromium(VI) ions by foam separation : Aqueous and Industrial effluent", The fourth International Conference on Environmental Sustainability, University Malaysia Terengganu, Malaysia, 4-7 Jan 2008
5. **M.Arulmozhi**, K.M.Meera S.Begum N.Anantharaman, "Foam separation of Tributyl Phosphate", International Conference on Cleaner Technologies and Environmental Management", Pondicherry Engineering College, Puducherry, India. 4-6 Jan 2007
6. **M.Arulmozhi**, K.M.Meera S.Begum N.Anantharaman, "Foam separation of Cu(II) from aqueous solutions", International Congress of Environmental Research, Bhopal, India, 28-30 Sep 2008
7. **M.Arulmozhi**, K.M.Meera S.Begum N.Anantharaman, "Recovery of Zn(II) from aqueous and Industrial effluent using a batch foam fractionators", 14 th Annual International sustainable development research conference, New Delhi, India, 21-23 Dec 2008
8. **M.Arulmozhi** ,V.Prabhakaran, R.Ranjith kumar, K.M.Meera S.Begum, "Foam separation of copper(II) from aqueous and industrial effluent", CHEMCON 2008, Indian Institute of Chemical Engineers, Kolkata, 27-30
9. **M.Arulmozhi**, C.Sudha, K.M.Meera S.Begum and N.Anantharaman, "Foam separation of Proteins", International Conference on Challenges in Biotechnology and Food Technology", Department of Technology, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar Aug 2009
10. M.Arulmozhi, K.M.Meera S.Begum and N.Anantharaman, "Continuous foam fractionation of Chromium(VI) ions", CHEMCON 2010, Indian Institute of Chemical Engineers, Department of Chemical Engineering, Annamalai University, Annamalai Nagar, Dec 2010



11. **M.Arulmozhi**, N.Alwyn Blessing Johnson and V.Ramji, "Solar desalination plant-boon for domestic water needs in coastal areas" **International Conference on Renewable Energy Utilization (ICREU-2012)**, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore-641 014, 4-6 Jan 2012
12. **M.Arulmozhi**, D.B.Sivakumar, and T.Senthilkumar, "A study on performance and emission of SI engine with oxygenated fuel", IEEE-International Conference on Advances in Engineering, Science and Management-2012, E.G.S. Pillay Engineering College, Nagapattinam, 30-31 Mar 2012
13. **M.Arulmozhi**, S.Vijayapriya, "Optimization of reactant and catalyst for the production of biodiesel", IEEE-International Conference on Advances in Engineering, Science and Management-2012, E.G.S. Pillay Engineering College, Nagapattinam-611 002, 30-31 Mar 2012
14. **M.Arulmozhi**, S.Vijayapriya, "Biosorbents for toxic heavy metals-A review", IEEE International Conference on Advances in Engineering, Science and Management-2012, E.G.S. Pillay Engineering College Nagapattinam, 30-31 Mar 2012
15. **M.Arulmozhi**, S.Vijayapriya, "Bioremediation of coloured industrial effluent using the white rot fungi *Phanerochaete chrysosporium*", IEEE-International Conference on Advances in Engineering, Science and Management-2012, E.G.S. Pillay Engineering College, Nagapattinam-611 002, 30-31 Mar 2012
16. **M.Arulmozhi**, K.M.Meera S.Begum, N.Anantharam, M.Thenmozhi "Continuous foam fractionation of Chromium (VI) ions from aqueous and Industrial Effluents", International conference on advances in Chemical Engineering ICACE-2013 Department of Chemical Engineering, National Institute of Technology, Raipur, 5-6 Mar 2012
17. **M.Arulmozhi**, V.Manojkumar, "Thermal Energy Storage Technologies in Concentrated Solar Thermal plant", International conference on advances in mechanical and energy engineering ICAMEE-2013, Dr.M.G.R. Educational and Research Institute University, Chennai-95, 4-5 Apr 2013
18. N.Saravani, **M.Arulmozhi**, K.Vaidhegi, A.Anbuthangam & G.Archunan, "Removal of Phenolic compounds from aqueous solutions by biosorptive foam separation containing CTAB using *Micrococcus lylae*". International Conference on Emerging Trends in Biotechnology, ICETB-2014, 6-9, Jawaharlal Nehru University, New Delhi Nov 2014
19. **M.Arulmozhi**, K.M. Meera S.Begum, N.Anantharaman & M.Thenmozhi, "Continuous foam fractionation of copper(II) ions from aqueous media and industrial effluents", National Conference on Green Engineering and Technologies



for sustainable Future, 5- 6, Pg.182-185 Dec 2014

20. **M.Arulmozhi**, K.M.Meera S.Begum ,N.Anantharaman and M.Thenmozhi, "Zinc (II) recovery from aqueous solution using continuous foam fractionators"International Conference on Energy Efficient Technologies for Automobiles, Pg.277-281.ISSN0974- 2115 Mar 2015
21. **M.Arulmozhi**, "Removal of toxic metal ions from water using Agricultural Waste", International Conference on Modern, Intelligent and Green Manufacturing, ICMIGM 2015, 11-12, Erode Sengunthar Engineering College, Erode Dec 2015
22. **M.Arulmozhi**, " Removal of pollutant and reuse the polluted water" International Conference on Modern, Intelligent and Green Manufacturing, ICMIGM 2015, 11-12, Erode Sengunthar Engineering College, Erode Dec 2015
23. **M.Arulmozhi**, "Synthesis and characterization of silver doped nano particles for the sulphur removal in industrial tannery effluent", International Conference on Modern, Intelligent and Green Manufacturing, ICMIGM 2015, 11-12, Erode Sengunthar Engineering College, Erode Dec 2015
24. Balraj Baskaran, **Arulmozhi M** "Enhanced control strategy for lab scale fermentation process of actinomycetes sp. and its antibacterial activity", **IEEE International Conference on Green Engineering and Technologies (IC-GET)**, PP. 1-5 Nov 2015
25. DB Sivakumar, **M Arulmozhi**, T Senthil Kumar "Performance & emission of SI engine with oxygenated fuel Advances in Engineering", **International Conference on Engineering, Science and Management (ICAESM)**, Pages. 117-120 Mar 2012
26. S Vijaya Priya, **M Arulmozhi** "Biosorbents for toxic heavy metals-A review ", , **IEEE International Conference on Advances in Engineering, Science and Management (ICAESM)**, 221-230 Mar 2012
27. S Vijaya Priya, **M Arulmozhi** Bioremediation of colored industrial effluent using the white-rot fungi Phanerochaete Chrysosporium, **IEEE International Conference on Advances in Engineering, Science and Management (ICAESM)**, Pages. 199-203 Mar2012
28. N.Saravani, **M.Arulmozhi** "Biosorptive foam separation of phenol onto Pseudomonas Putida and CTAB", **International Conference on Translational Biotechnology**, (Biosangam 2016), Motilal Nehru National Institute of Technology Allahabad (MNIT), Feb.4-6,2016
29. B.Balraj,**M.Arulmozhi**, P.Yuvarani "Adaptive Controller Implementation Issues for nonlinear fermentation Processes ", **TEQIP-II sponsored International Conference on Trends and Innovations in Chemical and Pharmaceutical Technologies**, Feb 2 -4, Feb 2017
30. Krithikadevi R, **Arulmozhi M**, Jayapriya M, Prince. R "Elucidation of

multifunctional ZnO nanoparticles for optoelectronics and biological application”, TEQIP-II sponsored **International Conference on Trends and Innovations in Chemical and Pharmaceutical Technologies- TICPT**, Feb2-4,2017

31. Krithikadevi R, **Arulmozhi** M, Jayapriya M, Prince. R “Elucidation of multifunctional ZnO nanoparticles for optoelectronics and biological application”, TEQIP-II sponsored International Conference on "**Trends and Innovations in Chemical and Pharmaceutical Technologies- TICPT**", Feb2-4,2017

32. Jayapriya M, **Arulmozhi** M, Krithikadevi R, Balraj B, Balambika R, Rajapriya V , “Evaluation of invitro Anti Dandruff Activity with the aid of Green Synthesized ZnO nanoparticles”, TEQIP-II sponsored **International Conference on Trends and Innovations in Chemical and Pharmaceutical Technologies- TICPT**, Feb2-4,2017

33. Mahesh A, Vinothini G, **Arulmozhi** M, Senthilkumar.T, Archunan. G “Evaluation of invitro Anti Dandruff Activity with the aid of Green Synthesized ZnO nanoparticles, TEQIP-II sponsored International Conference on "**Trends and Innovations in Chemical and Pharmaceutical Technologies- TICPT** 2017, Feb2-4,2017

## Invited Lectures

1. PoSH Act Awareness Lecture given at J.J. College of Engineering and Technology, Tiruchirappalli dated 5-9-2024.
2. PoSH Act Awareness Lecture given at Mount Zion College of Engineering and Technology, Tiruchirappalli dated 01-10-2024.
3. Delivered Key note Lecture for the National Conference on Advanced Technologies in Waste Water Treatment at Karpagam Academy of Higher Education, Coimbatore titled "Foam separation and Biosorptive Foam Separation Techniques for Waste Water Treatment", on 5-5-2022.
4. Delivered expert lecture on " Universal Human Values", during AICTE Training and Learning (ATAL) Academy sponsored online 5 Days Faculty Development (FDP) on Alternate Fuels during 8.12.2020 to 12.12.2020 organized by at the Department of Mechanical Engineering, University College of Engineering, Anna University-BIT Campus, Tiruchirappalli on 12-12-2020
5. Delivered expert lecture on " Universal Human Values", on 30-11-2020 and 02-12- 2020 during AICTE sponsored Six Days Short Term Training Programme (STTP) on Finite Element Analysis using ANSYS (FEAAS'20) during 30.11.2020 to 05.12.2020, organized by at the Department of Mechanical Engineering, University College of Engineering, Anna University-BIT Campus, Tiruchirappalli. Delivered guest lecture on " Floatation Based Separations" on

30.10.2020 in AICTE Sponsored Short Term Training Program (STTP) on "Recent Advances in Separation Processes (RASP)" held during 29<sup>TH</sup> October – 4<sup>TH</sup> November 2020 at Department Of Chemical Engineering, Pondicherry Engineering College, Pillaichavady, Puducherry – 605 014.

6. Delivered Guest Lecture on " Biosorptive flotation and Microbial biodegradation technologies for waste management", on 16-10-2020 F.N in the AICTE ATAL Faculty Development Programme on "Recent Trends in Waste Management Technologies" held during 12-16 October 2020 at the Department of Petrochemical Technology, University College of Engineering, Anna University, Tiruchirappalli-24.
7. Delivered a guest lecture on "Universal Human Values", on 17.5.2021 F.N in the one week Faculty Development Programme on " Innovation in Teaching, Research and Challenges in Accreditation Process for Higher Educational Institutions during 17-22 May 2021 in the Department of Civil Engineering, St. Peter's Engineering College, Hyderabad.
8. Delivered an Invited lecture on “ **Biosorptive Flotation of Phenolic Compounds**” at Biotech Research Society International Conference-Emerging Trends in Biotechnology held at Jawaharlal Nehru University, New Delhi, 6-9 Nov.2011
9. Resource person for FDP on “**Engineering Thermodynamics**” held at Department of Mechanical Engineering, BIT, Anna University, Trichy ,June 2014
10. Delivered Expert Lecture on “**Biomass Power for Rural Applications**” at MNRE sponsored seminar on Implementation of Hybrid Technologies in rural applications at Star Lion College of Engineering and Technology, 8-6-2013.
11. Resource person for FDP on “**Latest advanced technology and tasks in Automobile Engineering**” held at Department of Automobile Engineering, BIT, Anna University, Trichy 18-26, Dec.2013
12. Resource Person for FDP on **Bioreactor Design** , Dept. of Biotechnology, BIT, Dec.2013
13. Expert lecture delivered in the AICTE sponsored FDP on " **Advances in Wastewater Treatment and Air Pollution Control Techniques**" during 13-2 Nov. 2017 organized by Department of Chemical Engineering, Annamalai University.

14. Delivered guest lecturer in the TEQIP II 3 days workshop on "**Future Perspectives on clean energy and clean water**" held at Dept. of Chemical Engineering, National Institute of Technology, Tiruchirappalli. during Feb.16-18 2017.
15. Delivered a lecture in Indo-UK workshop sponsored by British Council and RSC entitled "**Nano-Biomaterials for water purification**" at MG University, Kerala dated 12-15 Dec.2016.
16. Resource person for Centre for Faculty Development, Anna University, Chennai sponsored FDP on "**Automotive Pollution and Control**" held at Department of Mechanical Engineering, BIT, Anna University, Trichy and delivered a lecture on Chemiluminescent Analyzer and Gas Chromatograph "on 08-06-2016 F.N and on Thermal Reactors and Catalytic Converters on 07-06-2016
17. Resource person for Centre for Faculty Development, Anna University, Chennai sponsored FDP on "**Process Instrumentation Dynamics and Control**" held at Department of Petrochemical Technology, BIT, Anna University, Trichy and delivered a lecture on Advanced Control Systems "on 18-12-2015 F.N.
18. Delivered an Invited Lecture on "**Properties of Steam**" at Star Lion College of Engineering and Technology, Manankorai, Thanjavur, on 26-09-2015
19. Resource person for Centre for Faculty Development, Anna University, Chennai sponsored FDP on "**Engineering Thermodynamics**" held at Department of Mechanical Engineering, BIT, Anna University, Trichy and delivered a lecture on "Thermodynamics of Gas Mixtures" on 01-07-2014 F.N and on "Ideal and Real Gas Behaviour" on 28-06-2014.
20. Expert lecture titled "Foam Separation and Biosorptive foam Separation Techniques for Industrial Effluent Treatment" on 31-12-2019 at Dr.A.P.J. Abdul Kalam Lecture Hall, The Institution of Engineers (India), Tiruchirappalli Local Centre, IEI premises.

## Training Programmes Attended

- Attended one day training programme on PoSH Act 2013 on 04-01-2025
- **AICTE -UKIERI Technical Leadership Development Programme** for the AY 2019-2020 at AICTE Head quarters, New Delhi during 30 July - 2nd August 2019.
- UK-India Newton Researchers Link Workshop at **Indian Institute of Science Education and Research**, Pune, dated 4-8 Sep.2017
- Indo-UK workshop sponsored by British Council and RSC entitled "**Nano-**

**Biomaterials for water purification"** at MG University, Kerala dated 12-15 Dec.2016

- TEQIP II sponsored **"Management Capacity Enhancement Programme for Administrators"**, held at Indian Institute of Management Lucknow, 5 days Nov 2015
- Indo- French seminar on **"Women in Science" through CEFIPRA, Indian Institute of Science**, Bangalore, 3 days Feb 2015
- DST and IUSSTF organized 5 days international training program on **"Leadership and career development for women Scientists and Technologists"** Indian Institute of Science, Bangalore, Sep 2014
- Attended the TEQIP II sponsored **"Academic Leadership Programme"** at Bangaluru, Jul 2013
- One day workshop on **"Environment and Hygiene"**, Department of Chemical Engineering, National Institute of Technology, Trich., Dec 2006
- One Day workshop on **"Membrane Technology in water Management"**, Pondicherry Regional centre for Indian Institute of chemical Engineers, Pondicherry, Aug2004

## Faculty Development Programmes (FDP) Attended

1. Attended " Part 1 of the online UHV Refresher 1 FDP organized by All India Council for Technical Education(AICTE) from 15 February, 2021 to 19 February, 2021.
2. Participated in online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" during 18-22, July 2020 organized by All India Council for Technical Education(AICTE).
3. Centre for Faculty Development, Anna University, Chennai sponsored faculty development programme on **Graph Theory and Applications**, 22-28 May 2017 [07 Days] Department of Mathematics, BIT Campus, Anna University, Tiruchirappalli.
4. TEQIP II sponsored FDP on Computation, **Optimization and Modeling of Sustainable Energy Systems**, 20 June -03 July 2016 [14 Days] Department of Electrical and Electronics Engineering, Anna University, BIT Campus Tiruchirappalli
5. Received Chartered Management Institute (CMI), U.K Level 5 certificate on Management and Leadership, Training organized by All India Council for Technical Education (AICTE) ,GOI and Dudley College, United Kingdom organized during 2019-20.
6. TEQIP II sponsored FDP on **Frontiers Research in Applied Sciences**, 03-16 June 2015 [14 Days], Department of Chemistry, BIT, Anna University, Trichy
7. TEQIP II sponsored FDP on Comprehensive **Approach of Biotechnological Applications**, 16-29 April 2015 [14 Days] Department of Biotechnology, BIT, Anna

University, Trichy.

8. Centre for Faculty Development, Anna University Chennai sponsored FDP on Engineering **Thermodynamics**, 24 June 2014 - 1 July 2014 [08 Days] Department of Automobile Engineering, BIT, Anna University, Trichy.
9. Anna University Chennai sponsored FDP on **Heat and Mass Transfer**, 17-24 Dec. 2012 [08 Days], Department of Chemical Engineering, Indian Institute of Technology, Madras, Chennai-36.
10. QIP short term training programme on “ **Semiconductor manufacturing Process**”, 23.05.2005 To 27.05.2005 [05 Days], Department of Physics, PSG college of Technology, Coimbatore - 4.
11. AICTE-ISTE short term training programme on “ **Emerging Areas in thin film science and Technology**”, 31.05.2004 To 11.06.2004 [12 Days] Centre for Energy and Environmental Science and Technology (CEESAT) National Institute of Technology, Trichy-15.
12. AICTE-ISTE short term training programme on “ **Emerging Energy Technologies**”, 17.05.2004 To 28.05.2004 [12 Days] Department of Automobile Engineering, BIT, Anna University, Trichy
13. AICTE-ISTE short term training programme on “**Computational Methods in Engineering**” 05.06.2000 To 16.06.2000 [12 Days] Department of Chemical Engineering, Regional Engineering College, Warangal-4.
14. AICTE-ISTE Short term training programme on” **Recent trends in Energy Conservation through Exergic system optimization**”, 19.06.2000 To 30.06.2000 [12 Days] Department of Mechanical Engineering, Centre for Energy Studies, Vellore Engineering College, Vellore-14.
15. AICTE sponsored “ **Induction training Programme in Engineering**”, 18.05.1999 To 07.06.1999 [21 Days] Academic Staff College, Pondicherry University, Pondicherry.
16. AICTE-ISTE short term training programme on “ **Advances in Plastics and Rubber Processing**” 05.10.1998 To 17.10.1998 [13 Days] Division of Rubber Technology, Madras Institute of Technology, Anna University, Chennai-44.

## Programmes Organized

1. Awareness Programme on Women Empowerment and PoSH for Teaching Staff, BIT Campus, Anna University, Tiruchirappalli-24 dated 6-2-2025.
2. Awareness Programme on Women Empowerment and PoSH for Nonteaching Staff, BIT Campus, Anna University, Tiruchirappalli-24 dated 17-2-2025.
3. One Day Workshop on “Prioritizing Women Wellness for Healthy nation” dated 19.02.2025 by PoSH Cell and Dept. of Physical Education.



4. Organized a workshop on "Stress Free Learning" during the 75<sup>th</sup> Independence day "Azadi ka Amrit Mahotsav", on 16.08.2022 at UCE, BIT Campus, Trichy.
5. Coordinator for AICTE ATAL Sponsored Faculty Development Programme on "Recent Trends in Waste Management Technologies" 12-16 Oct. 2020
6. Organized Centre for Faculty Development, Anna University Chennai sponsored Faculty Development Training Programme on "Fluid Flow Operations" 19-25
7. Organized TEQIP II sponsored Faculty Development Programme on " Nano Technology Applications in Engineering and Technology" held at Department of Petrochemical Technology, BIT, Anna University, Tiruchirappalli-24.during 06-19 May 2016.
8. Organized an IOCL sponsored National Conference on " Emerging Trends in Chemical and Petrochemical Technology" held at Department of Petrochemical Technology, BIT, Anna University, Tiruchirappalli-24.during 10-11 March 2016.
9. Organized Centre for Faculty Development, Anna University Chennai sponsored Faculty Development Training Programme on "Process Instrumentation Dynamics and Control" held at Department of Petrochemical Technology, BIT, Anna University, Tiruchirappalli-24.during 14-20 December 2015
10. Coordinator for TEQIP II sponsored Two weeks Faculty Development Programme on "Advanced Technologies for Societal Applications" held at Department of Petrochemical Technology, BIT, Anna University, Tiruchirappalli-24.during 6-19 June 2016
11. Coordinator for International Conference on Energy and Environmental Engineering held at Department of Petrochemical Technology, BIT, Anna University, Tiruchirappalli-24.during 6-7 Nov.2014
12. As the Coordinator for Women Empowerment Cell, Organized "Young Women Achievers Award Ceremony", on 30.03.2011 at BIT Campus, Anna University, Trichy.
13. Organized MNRE and CSIR sponsored National Conference on "Recent trends in renewable energy sources for sustainable (NCRES 2011) development", 22<sup>nd</sup> and 23<sup>rd</sup> Feb.2011.
14. Under Women Empowerment Cell organized One day workshop on "Empowering Women through technical Education" on 03-12-2010.
15. Organizing Committee member in MNRE sponsored Two days National seminar on "Role of Renewable Energy in Energy Conservation" (REEC-2010), held at Department of Petrochemical Technology, BIT, Anna University, Tiruchy, 14 & 15 Dec. 2010.
16. Organized National Symposium on "Frontiers in Chemical Technology", held at Department of Petrochemical Technology, 2nd February, 2007.
17. Organized National seminar on "Current Trends in orienting students towards



industrial projects”, Department of Petrochemical Technology, School of Engineering and Technology, Bharathidasan University, Feb.23-25, 2004.

18. Under Women Empowerment Cell, Organized training programmes for self help group (SHG) and other women in the “synthesis of bleaching, scouring and detergent powders”. 100 women were benefitted by this programme.