

UNIVERSITY COLLEGE OF ENGINEERING
BHARATHIDASAN INSTITUTE OF TECHNOLOGY (BIT) CAMPUS
ANNA UNIVERSITY TIRUCHIRAPPALLI – 620024.



Personal Info.

Name of the Faculty : Dr. E. Gomathi
Designation : Assistant Professor (Sl. Gr)
Department : Petrochemical Technology

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E-Mail - gomathipetro@gmail.com,
gomathie@aubit.edu.in
<https://vidwan.inflibnet.ac.in/profile/199608>
Tel: +91- 9789819743



Specialization:

- Heat Transfer
- Process Calculation



Educational Qualifications:

- Ph.D. Anna University, Chennai
- M.Tech. Energy Technology, Pondicherry University, India
- B.Tech. Chemical Engineering. University of Madras, India.



Knowledge:

- 23 Years Teaching Experience




Professional:




- Assistant Professor (Sl. Grade) 2014 Onwards
Department of Petrochemical Technology
UCE – BIT Campus, Anna University, Tiruchirappalli - 24.
- Assistant Professor (Sr. Grade) 2009 Onwards
Department of Petrochemical Technology
UCE – BIT Campus, Anna University, Tiruchirappalli - 24.
- Lecturer(2008-2009)
Department of Petrochemical Technology,
Anna University Tiruchirappalli - 24.
- Lecturer (2005-2008)
Department of Chemical Technology,
Vel SRS High Tech Engineering College, Chennai - 62
- Lecturer (2000-2003)
Department of Chemical Engineering,
Raja Desingh Polytechnic College, Gingee -206



Research Area:

- Wastewater Treatment, Advanced Oxidation Process, Nano materials, Sludge Treatment, Carbon capture System, PV Grid System.

Ph.D Guidance:	<ul style="list-style-type: none"> • Under Progress : 2Nos – Provisional Confirmation – Completed • 1No - Course Work - Completed
 Awards:	<ul style="list-style-type: none"> • Session Chair, National Conference On Recent Trends In Chemical and Environmental Bio Technology (RTCEB-2020), Department of Chemical Engineering, Annamalai University, 2020. • NPTEL Motivated Learner in Chemical Engineering, Jan-Apr 2021. • NPTEL Domain Scholar in Energy and Environment (Chemical Engineering) in the period April 2021. • Paper presentation – Second Place on Sixth International Conference on Technology Development on Agriculture Energy and Environmental Engineering for Green World”, Vivekanandha College of Engineering For Women, Tiruchengode, 2017. • Best paper presentation - First prize on National Conference on “Futuristic Trends in Biotechnology and computational Biology” VIT University, Vellore, Tamilnadu. 2016. • Best Teachers Award from Vel High Tech Sri Rangarajan Sakunthala Engineering College, Chennai – 100% Results. 2007.

 Membership:	<ul style="list-style-type: none"> • Life member -The Indian Society for Technical Education Member No. LM 48369. • Lie member -The Institution of Engineers (India) Member No. M-1558344. • Life member - Indian Institute of Chemical Engineers LM- 57666.
 Sponsored Project:	<ul style="list-style-type: none"> • Project sanctioned under UGC - Minor research project scheme Rs.2,50,000/- (Ref: F.NO:4-4/2015-16 (MRP / UGC - SERO) for the project titled " 'PAMAM Dendrimer coated Iron Oxide Nanoparticles, synthesis, characterization and removal of heavy metals from tannery effluents". • Mentor – Project seed Money received from TEQIP II – Project Seed Money Rs. 50,000/- AY- 2016-17. • Mentor – Project sanctioned under TEQIP II – Students Project Scheme Rs. 10,000 AY-2015-16. • Mentor – Project sanctioned under Centre For Sponsored Research and Consultancy (CSRC) Students Project Scheme Rs 25,000/- (P-2425S0057/CSRC) for the project titled “Development of Kcarrageenan - Based Composite Gel for Food Packaging Using DIW 3D Printing Technology”, AY 2024-2025 .
 Publications:	
Book Chapters:	<ol style="list-style-type: none"> 1. E. Gomathi (2018), "Advanced Oxidation Process for Waste Water Treatment " In: K. Kumaraguru & M. Arulmozhi, Introduction to Energy Engineering, ASSVET International Publishers Co., No. 30, TVK Second Link Road, Thiruvalluvar Nagar, Chennai – 600118. pp. 4.1- 4.12 (ISBN

	<p>:978-81 - 932456-8 -2).</p> <p>2. E. Gomathi (2016), "Steam Power Plant", In: M. Arulmozhi & K. Kumaraguru. Emerging Trends in Petrochemical Technology. Chennai: ASSVET International Publishers Co., pp. 16.1-16.8(ISBN: 978-93-52545-03-2).</p> <p>3. E. Gomathi, P.Rajeshprasanna & P.Selvamani, (2014) “Syntheses and characterization of PAMAM dendrimer and its application for removal of heavy metals” International Book Chapters by Elsevier.</p>																																								
Book Published	<p>1. Dr. E.Gomathi, Dr. Kannan Kaliappan, Mrs. Seema Verma, Dr. Rohit Kumar, “ Handbook of Renewable Energy”, Published by Scientific International Publishing House, 2023, ISBN: 978-93-5757-990-2.</p>																																								
Patent details	<p>No. of Design Patents:</p> <table><tr><th>Sl.No</th><th>Patent Number (Design) (Granted)</th><th>Indian/UK</th><th>Title of the Patent</th></tr><tr><td>1</td><td>391382-001</td><td>Indian</td><td>Artificial Intelligence (Ai) Based Floor Cleaner</td></tr><tr><td>2</td><td>6371315</td><td>UK Design</td><td>Artificial Intelligence Based CCTV Camera For Surveillance</td></tr><tr><td>3</td><td>6371316</td><td>UK Design</td><td>Smart Agriculture Plant Health Monitor</td></tr><tr><td>4</td><td>6371317</td><td>UK Design</td><td>Crop Health Monitoring Device</td></tr><tr><td>5</td><td>6371318</td><td>UK Design</td><td>Smart Drone For Enhanced Classroom Monitoring</td></tr><tr><td>6</td><td>6371319</td><td>UK Design</td><td>Portable Solar Charging Stand</td></tr><tr><td>7</td><td>6371320</td><td>UK Design</td><td>Soil Quality Analysis</td></tr><tr><td>8</td><td>6371321</td><td>UK Design</td><td>Solar Power Station For Electric Vehicles</td></tr><tr><td>9</td><td>6371322</td><td>UK Design</td><td>Solar-Powered Plastic Recycler</td></tr></table>	Sl.No	Patent Number (Design) (Granted)	Indian/UK	Title of the Patent	1	391382-001	Indian	Artificial Intelligence (Ai) Based Floor Cleaner	2	6371315	UK Design	Artificial Intelligence Based CCTV Camera For Surveillance	3	6371316	UK Design	Smart Agriculture Plant Health Monitor	4	6371317	UK Design	Crop Health Monitoring Device	5	6371318	UK Design	Smart Drone For Enhanced Classroom Monitoring	6	6371319	UK Design	Portable Solar Charging Stand	7	6371320	UK Design	Soil Quality Analysis	8	6371321	UK Design	Solar Power Station For Electric Vehicles	9	6371322	UK Design	Solar-Powered Plastic Recycler
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9	6371322	UK Design	Solar-Powered Plastic Recycler																																						
Internationally Refereed Journals: (along with Impact Factor)	<p>1. E. Gomathi, V. Chokkalingam, A.Paramasivam, J. Rajprasad, “Experimental Exploration of Rice Husk Gasification in the Circulation in the Circulate Fluidized Bed Gasifier”, Advances in Additive Manufacturing Technologies@ 2024 Taylor& Francis Group, Londo, ISBN 978-1-032.90013-1.</p> <p>2. E. Gomathi ,T. Senthilvelan , Hanumant Singh Rathore, Rames C Panda, Praveen Kumar Issac, Ajay Guru, Jesu Arockiaraj,“The enzymatic decolorization of leather azo dyes (AB 113 and AB 52) using crude fungal laccase: an eco-friendly approach towards pollution reduction”, Biomass</p>																																								

	<p>Conversion and Biorefinery, 2023.,(Impact Factor 4).</p> <p>3. E. Gomathi, P. Maharaja, Hanumant Singh Rathore, R. Boopathy, Rames C. Panda, T. Senthilvelan & Maruthapillai Arthanareeswari , “Treatment of textile dye consortium through photo-electro-fenton process using graphite-Ti electrode system and toxicity studies”, Carbon Letters, 2023., (Impact Factor 3.1).</p> <p>4. E. Gomathi, Sowmya B, Rajesh Kannan R , Venkatkumar S,” Experimental Study of Photo Electro- Fenton method for the removal of Reactive Yellow 186: Influence of operational parameters” , Environmental Progress & Sustainable Energy, 2022., (Impact Factor 2.8).</p> <p>5. E. Gomathi*, M. Jayapriya, J Kuberan, R Krithikadevi, M Kouthaman, Basella alba leaves assisted eco - fabrication of Ag/ZnO nanocomposite for anti-bactericidal and anthropogenic pollutants degradation with catalysis chemistry”, Chemical Engineering & Technology, (2022), .(Impact Factor 1.728).</p> <p>6. E. Gomathi*, M. Jayapriya, M. Arulmozhi.” Environmental benign synthesis of tin oxide (SnO₂) nanoparticles using Actinidia deliciosa (Kiwi) peel extract with enhanced catalytic properties”, Inorganic Chemistry Communications, 130 (2021) 108670.(Impact Factor 2.495).</p> <p>7. E. Gomathi, K. Kumaraguru, “Electrochemical degradation of scarlet red dye from aqueous environment by titanium-based dimensionally stable anodes with SS electrodes”, The Korean Society for Applied Biological Chemistry(2018), Volume 61, Issue 3, pp 289–293. (Impact Factor 1.813).</p> <p>8. E. Gomathi K. Kumaraguru “Green Synthesis and Photogenerated Charge Carriers Transfer in SnO₂ QDs Decorated rGONanosheets for Highly Efficient Visible Light Photocatalysis”, Journal of Inorganic and Organometallic Polymers and Materials (2018), Volume 28, Issue 4, pp 1664–1670. (Impact Factor 3.543).</p> <p>9. E. Gomathi*, P. Rajesh Prasanna, P. Selvamani. “Waste Water Treatment through Dendrimer – Conjugated Magnetic Nanoparticles”, International Journal of Chem Tech Research. (2013), Volume 5, No.3, pp 1239-1245.</p>
National Journals:	<p>1. E.Gomathi*, Boobalan.V and Leela.P, “Review on Electrochemical Oxidation for Degradation of Dye Effluents”, Elixir Renewable Energy 102 (2017), pp 44160 - 44161, ISSN NO: 2229-712X.</p> <p>2. E. Gomathi*, B. Arun and M. Dinesh, "Applications of Super Absorbent Polymer: A Review", Elixir Renewable Energy 102 (2017), pp.44179-44181, ISSN NO: 2229-712X.</p>
International Conferences:	<p>1. Bharath M, Gomathi E (2025),” Reduction of Excessive charging and Discharging in Battery Management System by using Lithium - Ion Battery”, CSIR & TNSCST Sponsored International Conference on Applied</p>

- Mathematics and Computing (ICAMAC 25), Organized by the Department of Mathematics, Kongu Engineering College, Perundurai, Erode, Tamil Nadu, During 21st and 22nd, February 2025.
2. Pavithra C U, **Gomathi E** (2024), "Removal of Emerging Contaminants by Biosolids management – A Review", International Conference on "Climate Change and Environmental Protection (ICCEP – 2024) & International Award Ceremony Prajna- 2024, Organized by Sidvi Foundation, Globethics South Asia Centre, Bangalore, During 4th & 5th June 2024.
 3. Sivamathivanan V, **Gomathi** (2024), "Importance of Carbon Capture Utilisation and Storage For Indian Refineries – Cryogenic method", International Conference on "Chemical Engineering Innovations in Energy, Environment, and Industrial Safety (ICCEIEIS – 2024)" Organized by the Department of Chemical Engineering, Erode Sengunthar Engineering College (autonomous), Perundurai, Erode, during 4th & 5th April 2024.
 4. **E. Gomathi** (2023), "Green Synthesis And Characterization Of Copper Nanoparticles And Its Various Biomedical Applications In Emerging Technologies", 8th International Conference on Recent Advances In Chemical And Environmental Research (**ICRACER-2023**). Organized under the aegis of the PG & Research Department of Chemistry, Jamal Mohammed College (Autonomous), Tiruchirappalli, India during on 20th December 2023.
 5. **E. Gomathi** (2022), "Degradation and Mineralization of Methylene Blue from Aqueous Solutions using Fe³⁺ catalyst and in-situ H₂O₂ generated at Ti Mesh Anodes", 4th International Conference on Challenges in Chemical and Biochemical Engineering for Sustainable Development (**CBSD**). Organized by Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar, India, during on 22nd to 24th March 2022.
 6. **E. Gomathi**¹, G.Soundarya², A. Janani², R. Sharmila², R. Vaitheeswari², "Study the influence of the operational parameters on the Photo Electro Fenton Process of Synthetic Textile Waste Water", International e - Conference on Bioengineering for Health & Environment (**ICBHE 2021**), 16th & 17th December 2021, Sathyabama Institute of Science and Technology, India and MAHSA University, Malaysia.
 7. **E. Gomathi**, & K. Kumaraguru, "Synthesis of Ag- ZnO nanoparticles and its photocatalytic degradation of anthropogenic pollution", International Conference on recent trends in science, engineering and management 22nd & 23rd March 2019, KarpagaVinayaga College of Engineering and Technology, Chennai.
 8. **E. Gomathi**, K. Kumaraguru, "Optimization of biosorption process for removal of Cr (VI) by brown seaweed and applicability in isotherms and thermodynamics modeling", International Conference on recent trends in science, engineering and management 22nd & 23rd March 2019, KarpagaVinayaga College of Engineering and Technology, Chennai.
 9. **E. Gomathi***, K. Kumaraguru, L Nagarajan, "Decolourisation of Dye by Photo Electro Fenton Process", International Conference on Civil, Mechanical, Chemical Engineering & Technologies – 2018 (**ICCMCT - 2018**). organized by SVS College of Engineering, Coimbatore from 23rd & 24th February 2018.

	<p>10. E. Gomathi*, K. Kumaraguru, V. Boobalan, B. Arun “Optimization study of Scarlet Red Degradation by Electro Fenton Process”, International Conference on Recent Trends in Science, Engineering & Management (ICRTSEM-2017)” 10th - 11th March 2017, Organized by KarpagaVinayaga College of Engineering and Technology, Padalam, Kanchipuram Dt. Tamilnadu, India.</p> <p>11. E. Gomathi, P. Leela* & K. Kumaraguru, “Synthesis and characterization of Dendrimer – Conjugated Magnetic Nanoparticles for removal of Mercury (II) from Aqueous Solutions”. TEQIP II Sponsored International conference on Trends and Innovations in Chemical & Pharmaceutical Technologies (TIPCT 2017) 2nd - 4th, February 2017. Department of Petrochemical, Pharmaceutical Technology and Department of mathematics, BIT Campus, Anna University, Tiruchirappalli.</p> <p>12. E. Gomathi, K. Kumaraguru*, “Adsorption Behaviour of Functional Grafting Particles Based on Polyethyleneimine on Gracilariacorticata for the Removal of Hexavalent chromium From Aqueous Solutions Using Response Surface Methodology”. TEQIP II Sponsored International conference on Trends and Innovations in Chemical & Pharmaceutical Technologies (TIPCT 2017) 2nd - 4th, February 2017. Department of Petrochemical, Pharmaceutical Technology and Department of mathematics, BIT Campus, Anna University, Tiruchirappalli.</p> <p>13. E. Gomathi “Reclamation of used Oil by Solvent Extraction Process”, International Conference on Energy and Environmental Engineering for Green World” (ICTDAEEGW’17) 21st - 22nd, February 2017. Organized by the Department of Biotechnology, Vivekanandha College of Engineering for Women & Vivekanandha College of Arts & Science for Women, Tiruchengode, Namakkal Dt. Tamilnadu, India.</p> <p>14. E. Gomathi*, P. RajeshPrasanna & P. Selvamani, “Waste Water Treatment Through Dendrimer – Conjugated Magnetic Nanoparticles as adsorbents for removal of heavy metals”, International conference on Nanobio Collaborative, 27th - 29th June 2013. Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli.</p> <p>15. E. Gomathi, A. Sathiamourthy, R. Mohandass and A. Selvaraju, “Theoretical Analysis of a Cogeneration System Suitable for Solar Energy Applications”. International Conference on Energy Engineering, 7th – 9th January 2009. Pondicherry Engineering College, Puducherry, India.</p>
National Conferences	<p>1. Pavithra C U, E. Gomathi, “Closing The Loop: Integrating Municipal Sludge Management with urban Agriculture and food systems”, in the National level conference on Recent Advance in Chemical and Environmental Engineering (RACEE-2025) Organized by Department of petrochemical Technology, UCE - BIT Campus, Anna University, Tiruchirappalli on 07th & 08th Marc 2025.</p> <p>2. G.D. Gayathri, E. Gomathi, N. Ilavarasan, “Air Pollution Tolerace Index (APTI) Assessment in Tiruchirappalli”, Region in the National level conference on Recent Advance in Chemical and Environmental Engineering (RACEE-2025) Organized by Department of petrochemical Technology, UCE - BIT Campus, Anna University, Tiruchirappalli on 07th & 08th Marc 2025.</p>

3. **E. Gomathi**, “Battery management method for energy – transportation network by using deep reinforcement learning algorithm”, National Conference on "Artificial Intelligence and Machine Learning (NCOAIML-2024)", Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College, Perundurai on 27th December 2024.
4. **E. Gomathi**, “Bio Synthesis of Copper Oxide Nano Particles from *Pyrus Pashia*”, National Conference on “Emerging Trends in Chemical and Petrochemical Technology” (**NETCPT 22**), Department of Petrochemical Technology, UCE - BIT Campus, Anna University, Tiruchirappalli, during 3rd to 4th June 2022.
5. **E. Gomathi**, K. Kumaraguru, “Degradation and COD Removal of Consortium Dye Using an Electro Fenton (EF) Process”, National conference on Recent Trends in Chemical and Environmental Biotechnology (**RTCEB 2020**) on 14th & 15th February 2020. Department of Chemical Engineering, Annamalai University, Annamalai Nagar, Tamilnadu, India.
6. **E. Gomathi**, S. Swane (2019), “Bio-Synthesis of SnO₂ Nano Particles by Aqueous Leaf Extract of *Calotropis Gigantea* for Photocatalytic Application”, Indian Institute of Chemical Engineers **CHEMCON-2019**. December 16th – 19th 2019, at Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India
7. **E. Gomathi**, S. Swane (2019), “Synthesis of SnO₂ - ZnO Nano Composite by Different Technique and their Application”, National Conference on “Emerging Trends in Chemical and Petrochemical Technology” (**NETCT’ 19**), 20th September 2019, Department of Petrochemical Technology, University College of Engineering - BIT Campus, Anna University, Tiruchirappalli – 620 024.
8. **E. Gomathi**, G. Bagavananth, R. Gautham, “Water As A Fuel By Electrolysis", National Conference on Emerging Trends in Chemical and Petrochemical Technology (**NETCT’ 19**), 20th September 2019, Department of Petrochemical Technology, University College of Engineering - BIT Campus, Anna University, Tiruchirappalli – 620 024.
9. **E. Gomathi & K. Kumaraguru** (2019), “Electrochemical Decolourisation and Degradation of Methylene Blue Dye Using An Electro Fenton (EF) Process” National Conference on Industrial Pollution and Control Technology, **IPACT – 2019**, Organized by Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar, India, during on 13th to 14th March 2019. Proceedings Industrial Effluent Treatment - (IPACT-2019 – IET – 013; ISBN – 978-93-5351-024-4).
10. **E. Gomathi***, G. Bagavananth, R. Gautham. “Biosynthesis of SnO₂ Nanoparticles by aqueous leaf extract of *Ficus Carica* for Anti Reflective Coating on a Solar Panels”, National Conference on “Environmental Pollution and Control Technologies” (**EPACT - 2019**) on 30th & 31st August 2019, organized by the Department of Chemical Engineering, Annamalai University. Proceedings Environmental Pollution and Control Technologies - 2019, Funded by TANSCH, Government of Tamil Nadu: ISBN: 978-93-5361-615-1.

11. **E. Gomathi***, S. Swane. "Biosynthesis of SnO₂ nano particles by aqueous leaf extract of calotropis – gigantean for photo catalytic application", National Conference on "Environmental Pollution and Control Technologies (**EPACT - 2019**) on 30th & 31st August 2019, organized by the Department of Chemical Engineering, Annamalai University. Proceedings Environmental Pollution and Control Technologies - 2019, Funded by TANSCH, Government of Tamil Nadu: ISBN: 978-93-5361-615-1.
12. **Gomathi. E**, "Dye Degradation of Photo Electro Fenton Process" National Conference on Emerging Trends in Chemical and Petrochemical Technology, (**NETCT' 17**), 25th September 2017, Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 620 024.
13. **Gomathi. E***, Kumaraguru. K ,Boobalan V, Lal S.R, "Application of Chitosan, a Natural amino polysaccharide, for dye removal from textile wastewater by Adsorption" DBT Sponsored National Conference on "Futuristic Trends in Biotechnology and Computational Biology", 13th - 14th October 2016, Department of Biotechnology, School of Bio Sciences and Technology, VIT University, Vellore.
14. **Gomathi. E***, Boobalan .V &Leela. P, "Dye Degradation by Electrochemical Treatment Process using TSIA Electrodes," TEQIP II Sponsored National Conference on Green Engineering and Technologies for Sustainable Future (**NCGET'16**) 16th - 17th September 2016, Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 620 024.
15. **Gomathi. E**, Dinesh. M, Arun. B, "Applications of Super Absorbent Polymer," TEQIP II Sponsored National Conference on Green Engineering and Technologies for Sustainable Future (**NCGET'16**) 16th - 17th September 2016, Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 24.
16. **Gomathi. E***, Boobalan. V & Leela. P, "Synthesis of Magnetite Nanoparticles Coated with Chitosan used for Wastewater Treatment", National Conference on Emerging Trends in Chemical & Petrochemical Technology March 10th & 11th 2016, Sponsored by Indian Oil Corporation Limited, Organized by Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 24.
17. **Gomathi. E***, Shriram.V.A & Murali. M, "Treatment of Tannery Effluent using Electro Coagulation", National Conference on Emerging Trends in Chemical & Petrochemical Technology 10th and 11th March 2016, Sponsored by Indian Oil Corporation Limited, Organized by Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 620 024.
18. **E. Gomathi***, P. Rajesh Prasanna, P. Selvamani and "Waste Water Treatment Through Dendrimer– Conjugated Magnetic Nanoparticles", National Conference on Industrial Pollution and Control Technology, **IPACT – 2013**, March 14th and 15th, 2013, Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar, India.

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 Webinar Series on, Indian Institute of Chemical Engineers, IICHE Students Chapter, Department of Petrochemical Technology, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli – 24 dated 18-11-2023.
4. Two days National Level Technical Symposium – **VENZINI FIESTA'22**, 14th & 15th October 2022, Department of Petrochemical Technology, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli – 24.
5. Spoken Tutorial Project, IIT Bombay, Organizer and successfully conducted IT Skills courses Training for the students of University College of Engineering, BIT Campus Tiruchirappalli for the academic year 2021-22.
6. Spoken Tutorial Project, IIT Bombay, Organizer and successfully conducted IT Skills courses Training for the students of University College of Engineering, BIT Campus Tiruchirappalli for the academic year 2020-21.
7. TEQIP II Sponsored Seven days, “Student Technical Training Course” (**STTC–17**) 4th & 10th March 2017, Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli – 24.
8. TEQIP II Sponsored Two days, “Industrial Workshop” (**PETRO FUSION–17**) 9th & 10th January 2017, Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli – 24.
9. TEQIP II Sponsored Two days National Level Conference on “Green Engineering and Technology (**NCGET'16**)” in 16th & 17th September 2016, Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli – 24.
10. TEQIP II Sponsored Two days National Level workshop on “Emerging Trends in Unit Processes in Petrochemical Industries – **ETUPI 16**” 12th & 13th February 2016, Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli – 24.
11. TEQIP II Sponsored Faculty Development Programme on “Depleting Energy Resources and Alternate Sources for Sustainable Energy Future”, 16th - 22nd December 2013. Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli – 24.
12. National Conference on “Recent Trends in Renewable Energy Sources for Sustainable Development”, 22nd & 23rd February 2011, Department of Petrochemical Technology, Anna University of Technology, Tiruchirappalli – 24.

Seminar/Conference/Workshop/FDP/STTP Attended

Sl. No	Topic	Host Institution	Date
1.	Two weeks Online Winter Faculty Development Programme “Technology – Enabled teaching, learning & Process for Institutes”	Ministry of Electronics and Information Technology, Government of India, Jointly organized by IIT Guwahati, IIT Roorke, NIT Patna, MNIT Jaipur, IIITDM Jabalpur.	03 rd - 14 th February 2025
2.	DST – SERB sponsored Two days National level workshop on “Recalcitrant pollutants Degradation and Toxicity Assessment”	Department of Biotechnology, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli-24	08 th – 09 th January 2025
3.	One Week Naan Mudhalvan – A Massive Upskilling Faculty Development Programme on "EBPL – IBM (ARTIFICIAL INTELLIGENCE”	Government College of Engineering Srirangam, Trichy.	05 th – 10 th August 2024
4.	Two weeks Professional Training Program on “Chemical Process Engineering - ASPEN HYSYS”	Institute of ChemE Design and Development (An ISO 9001:2015 Certified) Chemical Engineering Design Training and Services, Coimbatore.	03 rd July – 17 th July 2023
5.	Four week Faculty Induction/Orientation/ Programme for Faculty in Universities / Colleges / Institutes of Higher Education	Teaching Learning Centre, Ramanujan College, and University of Delhi in association with MHRD, PMMMNMTT.	22 nd March – 20 th April 2023
6.	Two day workshop on “Writing Science Engineering and Technology in Tamil”	Tamil Development Center for Engineering Technology, Anna University, Chennai in collaboration and sponsorship with Directorate of Tamil Development, Government of Tamil Nadu. At University College of Engineering - BIT Campus, Tiruchirappalli – 24.	9 th - 10 th Feb 2023
7.	Two Weeks Industrial Training Programme on “Plastics Processing And Testing”	Central Institute of Petrochemicals Engineering & Technology (CIPET): CSTS- Madurai.	10 th June -22 nd June 2021
8.	One week STTP on Recent advances in soft computing techniques in optimizing Industrial process (MOSCHEMA II)	AICTE sponsored by Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar – 608002, Tamil Nadu, India.	27 th Sep – 02 nd Oct 2021

9.	5-day online FDP on “Inculcating Universal Human Values in Technical Education”	All India Council for Technical Education(AICTE)	31 st Jan – 4 th Feb 2022
10.	Two weeks Industrial Training Programme on Plastic processing and testing	Central Institute of Petrochemical and Technology(CIPET : CSTS) Madurai	10 th – 22 nd June 2021
11.	Faculty Development Programme on "Advanced Technologies in Chemical Industries”	Department of Chemical Engineering in association with IChE-SPCET Student Chapter.	23 rd – 26 th June 2020
12.	Online webinar on the topic” A Recent Insight on Intellectual Property Rights in India, USA and Europe”	Department of Pharmaceutical Technology University College of Engineering, BIT Campus, Anna University , Tiruchirappalli	06 th July -2020
13.	Online webinar on the topic “Overview of pressure Equipments in Oil and Gas Industry”	Department of Petrochemical Technology University College of Engineering, BIT Campus, Anna University , Tiruchirappalli	10 th July -2020
14.	National Workshop on “Perspectives and Challenges in Outcome Based Research”	National Institute of Technology(NIT-T), Tiruchirappalli-620015 under the aegis of AICTE-MARGDHARSHAN SCHEME,	13 th - 17 th July 2020
15.	Faculty Development Programme on “LATEX”	University College of Engineering, Bharathidasan Institute of Technology (BIT) Campus, Trichirappalli with course material provided by Spoken Tutorial Project, IIT Bombay .	10 th – 14 th August 2020
16.	Faculty Development Programme on “ Recent Advancements in Chemical and Environmental Engineering”	Department of Chemical Engineering , School of Bio and Chemical Engineering , Sathyabama Institute of Science and Technology , Chennai , through Zoom video communications during	6 th - 12 th August 2020.
17.	Short Term Training Programme on “Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education”.	AICTE Sponsored by Department Of Chemical Engineering, St. Joseph’s College Of Engineering, St. Joseph's Group of Institutions, OMR, Chennai – 600119.	27 th July - 1 st August 2020
18.	Intellectual Property Rights and Entrepreneurship	Entrepreneurship Development and Innovation Institute Tamil Nadu under Academic Innovation and Entrepreneurship Development	22 nd - 23 rd Nov - 2019

		Program, organized by EDII-AIEDP Trichy Hub, University College of Engineering, BIT Campus, Anna University , Tiruchirappalli.	
19.	Entrepreneur Development Programme	Jointly organized with the Women Entrepreneurs Association of Tamilnadu (WEAT), Tiruchirappalli and Entrepreneurship Development Cell, University college of Engineering, BIT Campus, Anna University, Tiruchirappalli.	06 th Oct - 2017
20.	PC6403 – Fluid Flow Operation	Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli-24	19 th - 25 th Dec - 2016
21.	Communication, Optimization and Modeling of Sustainable Energy System (COMSES'16)	Department of Electrical and Electronic Engineering, BIT Campus, Anna University, Tiruchirappalli-24	20 th - 03 rd Jul - 2016
22.	Advanced Technologies for Societal Applications (ATSA'16)	Department of Petrochemical Technology, Anna University, BIT Campus, Tiruchirappalli-24.	06 th - 19 th Jun - 2016
23.	Energy Conservation and Alternative Options.	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli	20 th May - 2016
24.	Confederation of Indian Industry (CII).	BIT Campus, Anna University Tiruchirappalli-24	01 st Mar-2016
25.	PC6601 – Process Instrumentation Dynamics & Control.	Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli-24	14 th - 20 Dec - 2015
26.	Role of Renewable Energy in Indian Power Sector (RREIPS'15).	Department of Electrical and Electronics Engineering, BIT Campus, Anna University, Tiruchirappalli-24	21 st - 27 th Sep - 2015
27.	Thermal Engineering Applications for Sustainable Improvement.	Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli-24	15 th - 28 th Jun - 2015
28.	Nano Technology Applications in Engineering and Technology.	Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli-24	06 th - 19 th May - 2015
29.	E – Resources for Scholarly Communication.	Department of Central Library, Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli-24.	28 th Feb -2014
30.	Multidisciplinary Perspectives for Pharmaceutical, life science Educators and Researchers.	Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli-24.	09 th - 15 th Dec- 2013
31.	Recent Trends in Renewable and Non	Department of Petrochemical Technology, BIT	26 th Aug to

	Renewable Energy (RANRES-2013).	Campus, Anna University, Tiruchirappalli-24.	01 st Sep-2013
32.	Emerging Trends in Biotechnology.	Department of Biotechnology Technology, BIT Campus, Anna University, Tiruchirappalli-24.	19 th - 25 th Aug - 2013
33.	Research Methodology.	Centre of Research, Anna University of Technology, Tiruchirappalli-24	27 th Aug - 2011
34.	Bioprocess Modelling Optimization and Simulation.	Department of Chemical Engineering, Annamalai University Annamalai Nagar	18 th - 19 th Feb- 2011
35.	Renewable Energy.	Rural Energy Centre, Gandhigram Rural Institute – Deemed University, Gandhigram – 624302 Tamilnadu, India.	1 st - 22 nd Dec - 2010
36.	Sustainable Municipal Solid Waste Management.	Dept. of Civil Engineering, Anna University of Technology Tiruchirappalli-24.	04 th Oct - 2010
37.	Quality Improvement Programme.	National Institute of Technical Teachers Training & Research, Government of India, Ministry of Human Resource Development. Chennai.	02 nd - 06 th May - 2006
38.	Familiarisation Programme on Thermal Power Plant.	National Power Training Institute, Under Ministry of Power, Government of India, Tamilnadu.	06 th - 07 Oct - 2003

Additional Academic Contributions

1.	Member, Women Empowerment Cell, UCE BIT Campus, Anna University, Tiruchirappalli-24 from December 2024.
2.	DC Member at VIT University, Vellore.
3.	Expert member - Question paper scrutiny board in Dhanalakshmi Srinivasan College, Perambalur
4.	Adjudication Member - Ph.D Viva Examiner, VIT University, Vellore.
5.	Adjudication Member - M.Tech Viva Examiner, VIT University, Vellore.
6.	Question paper setter and External examiner for various Autonomous institutions and Universities
7.	Chair Person for Various International and National Conferences.
8.	Served as Department IIChe Student Chapter Coordinator since 2020
9.	Served as Department Spoken Tutorial Programme, IIT Bombay since 2020. .
10.	Served as Journal Reviewer For Bioorganic Chemistry , 2019
11.	Serving as Department coordinator for University Entrepreneurship cell since 2017.

12.	Served as Department Timetable coordinator for Academic Year 2010 – 2016 Anna University Tiruchirappalli.
13.	Served as Purchaser for verifying specifications and Prepares purchase orders for Department Laboratory Equipments (Heat Transfer Laboratory - 2013).
14.	Served as Journal Reviewer for The Korean Journal of Chemical Engineering (KJCE), 2013.
15.	Served as Coordinator for Women Empowerment cell of Anna University of Technology Tiruchirappalli from 2012.
16.	Served as M.Tech Class Coordinator for Department of Petrochemical Technology Anna University Tiruchirappalli. During the Academic year 2010- 2013.
17.	Served as Board of Studies Member in M.Tech (2009) Department of Petrochemical Technology Anna University Tiruchirappalli.
18.	Served as committee Member for Energy Conservation and Management syllabus, during Academic Year 2009.
19.	Served as member Board of Studies – B.Tech Chemical Technology, Anna University Tiruchirappalli.
20.	Served as member for Academic Regulation 2007 & 2008 Syllabus Revision 3-8 semester, Anna University Tiruchirappalli.

Online Courses Completed

AICTE Approved NPTEL Online Courses Completed	
1.	NPTEL - AICTE one week Faculty Development Programme on “Waste to Energy Conversion”, January - April 2019.
2.	NPTEL - AICTE half week Faculty Development Programme on “Selection of Nanomaterials for Energy Harvesting and Storage Applications” -July - August 2019.
3.	NPTEL - AICTE one week Faculty Development Programme on “Technologies for Clean and Renewable Energy Production” - July to September 2019.
4.	NPTEL - AICTE one and half week Faculty Development Programme on “Non-Conventional Energy Resources” Jan – April 2020.
5.	NPTEL - AICTE one week Programme on “Ecology and Environment”, Sep-Nov 2020.
6.	NPTEL - AICTE one week Faculty Development Programme on “Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems”, Jan – Mar 2021.
7.	NPTEL - AICTE one and half week Faculty Development Programme on “Biomass Conversion and Biorefinery” Jan – April 2021.
8.	NPTEL - AICTE one and half week Faculty Development Programme on “Environmental Quality Monitoring & Analysis” Jan – April 2021

9.	NPTEL - AICTE one and half week Faculty Development Programme on “Fundamentals of Artificial Intelligence” Jul – Oct 2024.
AICTE Approved NITTTR Online Courses Completed	
1	Two Credit course NITTTR - SWAYAM Exclusive MOOC one week Faculty Development Programme on “Integrating Educational Technology into Teaching”, Jan – Mar 2021.
2	Two Credit course NITTTR - SWAYAM Exclusive MOOC one week Faculty Development Programme on “Laboratory and Workshop Based Instruction and Learning”, Jan – Mar 2021.
3	Two Credit course NITTTR - SWAYAM Exclusive MOOC one week Faculty Development Programme on “Managing Learning Resources”, Jan – Mar 2021.
4	Two Credit course NITTTR - SWAYAM Exclusive MOOC one Week Faculty Development Programme on “E-Content Development”, July to Sep 2021, NITTTR, Chennai.
5	Two Credit course NITTTR - SWAYAM Exclusive MOOC one Week Faculty Development Programme on “Student Assessment”, Jan to May 2022, NITTTR, Chennai.
6	Two Credit course NITTTR - SWAYAM Exclusive MOOC one Week Faculty Development Programme on “Communication Skills, Modes & Knowledge Dissemination”, July to November 2022, NITTTR, Chandigarh.
7	AICTE, NITTTR, Module2: “Professional Ethics and Sustainability”, February 2024.
8	AICTE, NITTTR, Module4: “Instructional Planning and Delivery”, February 2024.
9	AICTE, NITTTR, Module5: “Technology Enabled learning and Life – Long Self Learning”, February 2024.
10	AICTE, NITTTR, Module1: “Orientation Towards Technical Education and Curriculum Aspects”, September 2024.
11	AICTE, NITTTR, Module3: “Communication Skills, Modes and Knowledge Dissemination”, September 2024.
12	AICTE, NITTTR, Module6: “Student Assessment and Evaluation”, September 2024.
13	AICTE, NITTTR, Module7: “Creative Problem Solving, Innovation and Meaningful R & D”, September 2024.
14	AICTE, NITTTR, Module8: “Institutional Management and Administrative Procedures”, September 2024.

AICTE Approved ATAL Online Courses Completed

1.	AICTE Training And Learning (ATAL) Academy Online FDP on "Waste Technology" from 12-10-2020 to 16-10-2020 at University College of Engineering, Anna University, Tiruchirappalli.
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2.	AICTE Training And Learning (ATAL) Academy Online FDP on "Green Technology & Sustainability Engineering" from 19-10-2020 to 23-10-2020 at Dr BR Ambedkar National Institute of Technology Jalandhar.
3.	AICTE Training And Learning (ATAL) Academy Online FDP on "Environmental Geotechnology" from 04- 01 2021to 08-01-2021 at National Institute of Technology Karnataka Surathkal.
4.	AICTE Training And Learning (ATAL) Academy Online FDP on "Novel Materials" from 08-02-2021 to 12-02-2021 at National Institute of Technology Patna.
5.	AICTE Training And Learning (ATAL) Academy Online FDP on “Plastic Waste Management: Challenges & opportunities" from 23-08-2021 to 27-08-2021 at Central Institute of Petrochemicals Engineering & Technology.
6.	5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31 st January, 2022 to 4th February, 2022.
7.	AICTE Training And Learning (ATAL) Academy Online FDP on “Recent progress in Process Modeling, Simulation and Process Control,” from January 6 th to January 11 th , 2025 at Department of Chemical Engineering, NIT Tiruchirappalli.