

Faculty Name : **Dr. M. Rengasamy**
Designation : **Asst. Professor (Sr. Grade)**
Department : **Petrochemical Technology**

Address : **University College of Engineering
BIT Campus, Anna University
Tiruchirapalli – 620 024.**

Date of Birth : **05.12.1971**

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Academic Profile

Ph.D	Faculty of Technology	(08.06.2016)	UCE – BIT Campus Tiruchirappalli Anna University, Chennai
M.Tech.	Petroleum Refining and Petrochem Tech	(1993 – 1995)	A. C. Tech, Anna University, Main Campus, Chennai, Tamilnadu, India
B.Tech.	Chemical Engineering	(1989 – 1993)	A. C. Tech, Anna University, Main Campus, Chennai, Tamilnadu, India

Professional Background

May, 2015 Onwards	Asst.Professor [Senior Grade] Department of Petrochemical Technology, UCE – BIT Campus, Anna University, Tiruchirappalli.	[8.2 Year, as on Aug-2023]
Aug, 2009 – May 2015	Asst.Professor, Department of Petrochemical Technology, UCE – BIT Campus, Anna University, Tiruchirappalli.	[5.10 Years]
Jun, 2007 – Aug, 2009	Lecturer, Department of Petrochemical Technology, Anna University of Technology Tiruchirappalli.	[2.2 Year]
Aug, 2004 – Apl, 2007	Lecturer, Department of Petrochemical Technology, Bharathidasan University, Tiruchirappalli.	[2.8 Year]
Apl, 1995 – Aug, 2004	Production Executive, M/s.Goodlass Nerolac Paints Ltd, Chennai, India	[8.3 Year]

Additional Responsibilities – University / Institute Level

2007 – 2010	Deputy Controller of Examinations, Anna University Tiruchirappalli, Tiruchirappalli.
February, 2013	Committee Member – NBA Accreditation Process – UCE-BIT
April, 2013	Additional Chief Superintendent, TANCET – 2013
March, 2014	Additional Chief Superintendent, TANCET – 2014
2015 – 2016	Controller of Examination, Indian Institute of Technology –Srirangam (IIITS), Tiruchy
Feb – 2017	Member of Inspection Committee, Centre for Affiliation of Institution, Anna University, Chennai
2013 – 2017	Nodal Officer – Procurement, TEQIP – II Bharathidasan Institute of Technology, Tiruchirappalli.
February, 2018	Chief Superintendent Feb-Mar, 2018 Special University Examination UCE, BIT Campus, Tiruchirappalli
May, 2019	Nodal officer, TANCET – 2019, BIT Campus
Mar, 2020	Member of Inspection Committee, Centre for Affiliation of Institution, Anna University, Chennai
2011 – 2021	Member, Anti-Ragging Committee UCE, BIT Campus, Tiruchirappalli
2011 – Till Date	Member, Seating Arrangement, Graduation Day UCE, BIT Campus, Tiruchirappalli
2019 – Till Date	Co-ordinator, Product Development Cell UCE, BIT Campus, Tiruchirappalli
Nov, 2021 – Till Date	Vice Chairman, Anti-Ragging Committee UCE, BIT Campus, Tiruchirappalli.

Additional Responsibilities – Department Level

2007 – Till date	Laboratory Incharge Petroleum Product Testing Lab, Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli
2011– Till date	Placement Coordinator, Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli
2011– Till date	Alumni Coordinator, Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli.
2011– Till date	Class Coordinator, B, Tech -- Third year Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli
2015– Till date	Editor, Dept. News Letter, Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli
2018 – 2020, 2022	Co-ordinator, 1st Year Induction Programme Dept. of Petrochemical Tech, UCE, BIT Campus, Tiruchirappalli
2021 – 2023	Naan - Mudhalvan, Incharge – B. Tech – Third Year Dept. of Petrochemical Tech, UCE, BIT Campus, Tiruchirappalli

Representation in International/National/State Bodies

2017 - 2019	Selection Committee Member for SRF/JRF Post, Indian Institute of Food Processing Technology (IIFPT), Thanjavur.
July 2017	External Examiner for PG & Ph.D 2017 Admission, Indian Institute of Food Processing Technology (IIFPT), Thanjavur.
2018	External member for the purchase of lab Equipment. Indian Institute of Food Processing Technology (IIFPT), Thanjavur.
Nov, 2017	Expert Member-Question Paper Scrutiny, Sethu Institute of Technology (Autonomous), Kariapatti
Apl, 2018	Expert Member-Question Paper Scrutiny, Sethu Institute of Technology (Autonomous), Kariapatti
Mar, 2019	Jury Member International Conclave (BIOFLAIR-2019), Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli
May, 2020	Chairman, B.Sc- Health Safety & Environment Programme, University Examination, Annamalai University, Cidambaram.
2015-2021	Question Paper Setter for Anna University, Sathiyabama University, Annamalai University, Kongu college of Engg., Paavai Ins. of Tech.. Sethu Ins. of Technology. Nantha College of Engineering, etc

Field of Interest

- Petroleum Refining Technology
- Petrochemical Technology
- Natural Gas Engineering
- Petroleum Exploration Technology
- Industrial Safety

Research Interests

- Nano Technology
- Alternate fuels
- Environmental Studies
- Biopolymers

Ph.D Guidance:

Completed PhD : Nil

Under Progress : 2 Nos – Provisional Confirmation - Completed
2 Nos – Course Work – Completed

Book Published

G, Venkatesan, **M. Rengasamy** and P. Saravanan, "Waste Water Treatment", Published by Lakshmi Publications, Chennai, 2022, ISBN (Online) : 978-981-5039-92-4; ISBN (Print) : 978-981-5039-93-1.

Book Editorship

G, Venkatesan, S. Lakshmana Prabu and **M. Rengasamy**. "Sustainability studies: Environmental and Energy Management", Bentham Science Publishers Pte, Ltd, Singapore, 2022, ISBN (Online) : 978-981-5039-92-4; ISBN (Print) : 978-981-5039-93-1;https://drive.google.com/open?id=1x5STVHQJ6sNi_i9YHQavN4G4j9-eLlI6&authuser=epub%40benthamscience.net&usp=drive_fs

Book Chapters

1. **Mookan Rengasamy**, Sundaresan Mohanraj, Krishnasamy Anbalagan, Shanmugam Kodhaiyolii, and Velan Pugalenthi, “Production of biodiesel from neem oil using synthesized iron nanocatalyst”, Recent Advances in Bioenergy Research, Vol.3, 2014, PP 337 – 348, Electronic version published by SSS-NIRE, ISBN 978-81-927097-2-7.
2. N. Stalin and **M.Rengasamy**, “ASPEN HYSYS Steady State Training Manual”, Published by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University – BIT Campus, Tiruchirappalli- 620 024.
3. **M.Rengasamy** and AD. Surendhar, “Low temperature waste heat recovery”, Emerging Trends in Petrochemical Technology, Chapter-10, Published by ASSVET International Publishers, Chennai, pp.10.01-10.10, ISBN 978-93-525450-3-2.
4. Umamaheswari A., Lakshmana Prabu S., **Rengasamy M**, Venkatesan G. (Jan, 2018), “A Safety Promotion Approach for Handling of Chemicals in the Working Environmental Management”. In: Hussain C. (eds) Handbook of Environmental Materials Management. Springer, Cham. PP:1-24. Online ISBN: 978-3-319-58538-3; DOI: [10.1007/978-3-319-58538-3_66-1](https://doi.org/10.1007/978-3-319-58538-3_66-1).
5. S. Lakshmana Prabu, R. Thirumurugan, **M. Rengasamy** and G. Venkatesan, ”Remediation approaches for the degradation of textile dye effluents as sustaining environment”, book titled, Sustainability studies: Environmental and Energy Management, Bentham Science Publishers Pte, Ltd, Singapore, 2022, pp. 74-103. ISBN (Online) : 978-981-5039-92-4; ISBN (Print) : 978-981-5039-93-1; https://drive.google.com/open?id=1x5STVHQJ6sNi_i9YHQavN4G4j9-elI16&authuser=epub%40benthamsience.net&usp=drive_fs

Awards, Honors and Recognitions:

1. **NPTEL Domain Scholar** in “Energy and Environment (Chemical Engineering)” in the period April 2021. <https://nptel.ac.in/nptelStars/DomainScholars.html>
2. Certificate of Appreciation, “**NPTEL BELIEVERS**” by NPTEL-SWAYAM, January – December 2020. <https://nptel.ac.in/nptelStars/nptelBelievers.html>
3. Certificate of Appreciation, “**NPTEL MOTIVATED LEARNERS**” by NPTEL-SWAYAM, December 2020. <https://nptel.ac.in/nptelStars/motivatedLearners.html>
4. **Topper (TOP 2%) and Silver Medal** in NPTEL Online Certification course on “Biomass Conversion and Biorefinery”, January - April 2021 (12 week)
5. **Topper (TOP 5%)** in NPTEL Online Certification course on “Waste to Energy Conversion”, Feb-Apr 2019 (8 week)

6. **Silver Medal** in NPTEL Online Certification course on “Plastic Waste Management”, February-April 2019 **(8 week)**
7. **Silver Medal** in NPTEL Online Certification course on “Selection of Nanomaterials for Energy Harvesting and Storage Application”, July-August 2019 **(4 week)**
8. **Silver Medal** in NPTEL Online Certification course on “Technology for Clean and Renewable Energy Production”, July-September 2019 **(8 week)**
9. **Silver Medal** in NPTEL Online Certification course on “NBA -Accreditation and Teaching – Learning in Engineering (NATE)”, January-April 2020. **(12 week)**
10. **Silver Medal** in NPTEL Online Certification course on “Ecology and Environment”, September - November 2020 **(8 week)**
11. **Best paper** of the technical session for oral Presentation in TEQIP II sponsored International conference on "Trends and Innovations in Chemical and Pharmaceutical Technologies" TICPT 2017 during February 2-4, 2017, BIT campus, Anna University, Trichy.
12. Secured **100% Pass Result** in the subject, “**CH8094-Polymer Technology**”, 5th Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the Academic Year 2021-22.
13. Secured **100% Pass Result** in the subject, “**PE8073-Enhanced Oil Recovery**”, 7th Semester, Department of Petrochemical Technology, University College of Engineering, BIT Campus Anna University, Tirucirappalli, for the Academic Year 2021-22.
14. Secured **100% Pass Result** in the subject, “**Ch1805-Industrial Safety**”, 5th Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the Academic Year 2021-22
15. Secured **100% Pass Result** in the subject, “**PM8451-Petroleum Exploration and Exploitation Techniques**”, 4th Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the Academic Year 2021-22.
16. Secured **100% Pass Result** in the subject, “**PM8452-Petroleum Primary Processing Technology**”, 4th Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the Academic Year 2021-22

Academic Achievements (Completed Projects)

- 1. Co-investigator for the Project Funded by Department of Biotechnology (DBT) Government of India - Rs.26.29 Lakhs (Total 68.42 Lakhs)**
“Enhancement Of Bio Hydrogen Production Using Integrated Nano Particle Catalysed Fermentation” (Collaborative project with NEERI and Annamalai University), (Completed 2010 – 2012).
- 2. Mentor – Student Projects Scheme Funded by TEQIP – II, Anna University, BIT Campus, Tiruchirappalli – Rs. 10,000.** Proceeding No: BIT/DEAN/TEQIP/Project Proposal Order/2016-055, Dt: 28.03.2016.
(Mr. N. Mugundhan, Mr. A. amesh kumar, Mr. R. Parthasarathy)
- 3. Mentor – Student Innovative Projects Funded by Centre for Technology Development and Transfer (CTDT) Anna University – Rs. 25,000.**
“Design And Fabrication Of One Step Oil Removal From Crude Oil Spills Using Novel Adsorbent” – Proceedings No: P-1819S4373/CTDT Dt: 08.05.2019.
(Mr. V. Krishna Theja, Mr. S. Manojkumar, Mr. V. Vijayakumar)
- 4. Mentor – Student Projects Funded by Tamil Nadu State Council for Science and Technology (TNSCST), Govt of Tamilnadu – Rs. 7,500.**
“Fabrication of capillary action crude oil removal and recovery model to clean up oil spills”, Proceedings No: Lr.No.TNSCST/SPS/AR/2019-2020 Dt: 20.03.2020. (Mr. V. Krishna Theja, Mr. S. Manojkumar, Mr. V. Vijayakumar)
- 5. Mentor – Student Projects Funded by Centre for Sponsored Research and Consultancy (CSRC), Anna University, Chennai – Rs. 25,000.**
“Design and Fabrication of Portable Fuel Extractor from a Used Masks and PPE Kits of Covid-19”, Proceedings No: P-2122S4509/CSRC, Dt: 18.07.2022. (Mr. Mohamed Yasir. M and Mr. Siva Sati Kumar. S)
- 6. Mentor – Student Projects Funded by Centre for Sponsored Research and Consultancy (CSRC), Anna University, Chennai – Rs. 25,000.**
“Design and Fabrication of Suction Pump for Removal of Oil Spills from Sea Water”, Proceedings No: P-2122S4487/CSRC Dt:18.07.2022. (Miss. Enayah Dastagir, Miss. T.Subhashini)

Articles in Tamil News Paper / Tamil Weekly

- 1. “Burning Plastic In Cement Industries** “JUNIOR VIKATAN, Dt. 26-08-2018, PP – 16.
- 2. “Polygal Jakkirathai”** PUTHIYA THALAIMURAI, Dt. 28.03.2019, Vol-10, Issue-26, PP-40-41.

Publications

1. **M.Rengasamy**, V.Sivasubramanian, and M.Sathosh Kumar, “Effect of Plasticizer, Filler and Solvent swell on Polyurethane Elastomers”, Rubber India, Volume LXI, Issue No.5, May - 2009.
2. **M.Rengasamy**, Sivasubramanian and A. Brinda Lakshmi, “Potential of Phenol Removal by low cost adsorbent in a batch Reactor” International Journal on applied Bioengineering, Vol-6, No-1, January 2012, PP 39-43. ISSN 0973-9084, DOI: 10.18000/ijabeg.10091. <http://journals-sathyabama.com/archives/upload/39-43%20int%20bio%20jr%2006.pdf>
3. Sundaresan Mohanraj, Shanmugam Kodhaiyolii, **Mookan Rengasamy** and Velan Pugalenthii, “Green Synthesized Iron Oxide Nanoparticles Effect on Fermentative Hydrogen Production by Clostridium acetobutylicum” Applied Biochemistry and Biotechnology, Vol. 173, 2014, PP 318–331. DOI:10.1007/s12010-014-0843-0. <https://link.springer.com/article/10.1007%2Fs12010-014-0843-0> <http://sci-hub.cc/10.1007/s12010-014-0843-0>
4. **Mookan Rengasamy**, Sundaresan Mohanraj, Krishnasamy Anbalagan, Shanmugam Kodhaiyolii, and Velan Pugalenthii, “Production of biodiesel from neem oil using synthesized iron nanocatalyst”, Recent Advances in Bioenergy Research, Vol.3, 2014. PP 337 – 348, Electronic version published by SSS-NIRE, ISBN 978-81-927097-2-7. [http://sphinxesai.com/2014/RACE/1/\(4511-4516\)%20014.pdf](http://sphinxesai.com/2014/RACE/1/(4511-4516)%20014.pdf)
5. Sundaresan Mohanraj, Shanmugam Kodhaiyolii, **Mookan Rengasamy** and Velan Pugalenthii, “Phytosynthesized iron oxide nanoparticles and ferrous iron on fermentative hydrogen production using Enterobacter cloacae: Evaluation and comparison of the effects”, International Journal of Hydrogen Energy, Vol.39, August 2014, PP 11920–11929. DOI:10.1016/j.ijhydene.2014.06.027. <https://link.springer.com/article/10.1007/s12010-014-0843-0> <http://sci-hub.cc/10.1016/j.ijhydene.2014.06.027>
6. K. Kumaraguru, **M. Rengasamy**, E. Titus Praveen Kumar and D. Venkadesh, “Factors affecting printing quality of paper from bagasse pulp”, International Journal of ChemTech Research, Vol.6, No.5, Aug-Sept. 2014, PP 2763-2767. [http://www.sphinxesai.com/2014/vol6pt5/3/\(2783-2788\)S-2014.pdf](http://www.sphinxesai.com/2014/vol6pt5/3/(2783-2788)S-2014.pdf)
7. **M. Rengasamy**, K. Anbalagan, S. Mohanraj, V. Pugalenthii, “Biodiesel Production from *Pongamia pinnata* Oil using Synthesized Iron Nanocatalyst”, International Journal of ChemTech Research Vol.6, No.10, September 2014, PP: 4511-4516, ISSN : 0974-4290. [http://www.sphinxesai.com/2014/RACE/1/\(45114516\)%20014.pdf](http://www.sphinxesai.com/2014/RACE/1/(45114516)%20014.pdf)
8. **M. Rengasamy**, S. Mohanraj, S. Harsha, R. Balaji and V. Pugalenthii, “Transesterification of castor oil usiplasticng nano-sized iron catalyst for the production of biodiesel”, Journal of Chemical and Pharmaceutical Sciences, Special Issue 2: October 2014, PP 108 – 112. ISSN: 0974-2115. <https://www.jchps.com/specialissues/Special%20issue2/jchps%20si%2019%20Mookan%20Rengasamy%20das%20108-112.pdf>

9. **M. Rengasamy**, E. Titus Praveen Kumar, T. Satheesh, D. Venkadesh and K.Kumaraguru, "Hydrodynamic cavitation for the production of biodiesel from sunflower oil using NaOH catalyst", Journal of Chemical and Pharmaceutical Sciences, Special Issue 4: December 2014, PP 104 – 106. ISSN: 0974-2115. https://www.jchps.com/specialissues/Special%20issue4/jchps%2036%20m_rengasamy_104-106.pdf
10. A. Sumithra, M. Shyama Sundari, S. Venkatesan, **M. Rengasamy** and A. Brinda Lakshmi, "Statistical optimization of chromium ion removal using response surface methodology", Journal of Chemical and Pharmaceutical Sciences, Special Issue 4: December 2014, PP 196 – 200. ISSN: 0974-2115. <https://jchps.com/specialissues/Special%20issue4/jchps%2068%20a%20sumithra%20196-200.pdf>
11. M. Ramamoorthi, P. Navaneetha Krishnan and **M. Rengasamy**, "Performance analysis of mustard and pongamia methyl ester blends with diesel in CI engine", Journal of Chemical and Pharmaceutical Sciences, Special Issue 6: March 2015, PP257–259.ISSN:0974-2115. <https://jchps.com/specialissues/Special%20issue%206/JCHPS%2059%20RAMAMOORTHI%20257-259.pdf>
12. **M. Rengasamy**, K. Anbalagan, S. Kodhaiyolii and V. Pugalenthii, "Castor leaf mediated synthesis of iron nanoparticles for evaluating catalytic effects in transesterification of castor oil", RSC Advances., 2016, Vol. 6, PP. 9261–9269. DOI:10.1039/C5RA15186D. <http://pubs.rsc.org//content/articlelanding/2016/ra/c5ra15186d/unauth#!divAbstract>
13. K. Kumaraguru, D. Vinoth, R. Sandeep Kumar, S. R. Lal and **M.Rengasamy***, "Mercury(II) Ions Removal by Adsorption", Elixir Renewable Energy, Vol.102, January 2017, PP. 44236-44238. ISSN: 2229-712X. http://www.elixirpublishers.com/articles/1485171000_ELIXIR2017015509X.pdf
14. **M. Rengasamy**, R. Vinoth Raj and N. Vedagiriswaran, "Study on Oil Extraction from Jackfruit Seed and its Application in Biodiesel Production", Elixir Renewable Energy, Vol.102, January 2017, PP. 44269-44272. ISSN: 2229-712X. http://www.elixirpublishers.com/articles/1485330704_ELIXIR2017015510g.pdf
15. **M. Rengasamy**, S. Mohanraj, K. Anbalagan, and V. Pugalenthii, "Synthesis of maghemite nanoparticles, biodiesel and hydrogen: One pot sequential reactions", Applied Catalysis A: General, 25 September 2017, Vol. 546, PP. 22-29. DOI: [10.1016/j.apcata.2017.07.019](https://doi.org/10.1016/j.apcata.2017.07.019). <http://www.sciencedirect.com/science/article/pii/S0926860X17303198>
16. **M. Rengasamy**, V. Pugalenthii, V. Sivasubramanian, N. Jaya, "Synthesis of Biodiesel from Palm oil & Rice bran oil using Na₂SiO₃ as Heterogeneous base Catalyst", Engineering Reports, 2018, Vol. 1 Iss. 1, PP. 11-21. DOI: [10.26524/er1813](https://doi.org/10.26524/er1813) <https://eyleon.in/index.php/er/article/view/24/23>.
17. R. Arivarasan, D. Sathishkumar and **M. Rengasamy**, "Assessment of Hydrocarbon Oil Spill Pollutants in Agricultural Land" Asian Journal of Engineering and Applied Technology, 2018, Vol. 7 No. S1, pp.69-72. ISSN: 2249-068X

- 18 S. Kodhaiyolii, S. Mohanraj, **M. Rengasamy** and V. Pugalenti, "Phytofabrication of bimetallic Co-Ni nanoparticles using Boerhavia diffusa leaf extract: analysis of phytocompounds and application for simultaneous production of biohydrogen and bioethanol", Materials Research Express, 2019, Vol.6 (9), No. 9, PP. 095051
<https://doi.org/10.1088/2053-1591/ab2ea8>;
<https://iopscience.iop.org/article/10.1088/2053-1591/ab2ea8>
- 19 V. Krishna Theja, S. Manojkumar, V. Vijayakumar and **M. Rengasamy**, "Study and Selection of Adsorbent for the Removal of Petroleum product spills in Marine environment", South Asian Journal of Engineering and Technology, 2020, Vol. 1, PP. 1-4. DOI:10.26524/sajet10.1: E-ISSN : (2454-9624).
<https://journals.eleyon.org/index.php/sajet/article/view/363/288>.
- 20 S. Naveen Prasanth, G. Tamilselvan, R. Vishal and **M. Rengasamy**, "Green Synthesis and Properties of Bioplastic Produced from Gelatin and other Waste", Petrochemica, 2020, Vol. 1, Issue No.1, PP. 32-38.
- 21 K Indirajith, N Jaya, **M Rengasamy**, N Manikandan, Exploration of High-voltage Outdoor Insulations–A Review Based on Field Study, Solid State Technology, 64(2) 2021. PP. 1779-1799.
<http://solidstatetechnology.us/index.php/JSST/article/view/9340>
- 22 S. Rajeswari,. P. Saravanan , N. Jaya, **M. Rengasamy**, Divya Baskaran, V. Saravanan,. R. Rajesh kannan, M. Rajasimman, "A scientometric analysis of research on bio filtration of waste gas streams during 1989-2020", Research Square, 2021 <https://www.researchsquare.com/article/rs-672214/v1>.
- 23 J.Vijayaraghavan, R.Jeevakkumar, G.Venkatesan, **M.Rengasamy**, J.Thivya, "Influence of kaolin and dolomite as filler on bond strength of polyurethane coated reinforcement concrete", Construction and Building Materials. Volume 325, 28 March 2022, 126675. DOI: <https://doi.org/10.1016/j.conbuildmat.2022.126675>.
<https://www.sciencedirect.com/science/article/abs/pii/S095006182200366X>

Publications in International Conferences

1. **M. Rengasamy**, Dr.V.Sivasubramanian, and M.Sathosh Kumar, "Effect of Plasticizer Filler and Solvent swell on Polyurethane Elastomers", International conference on Advances in Polymer Technology-08, Sep 25 – 26, 2008 Cochin University of Science and Technology, Kochi, India.
2. **M. Rengasamy**, K.Kumaraguru, M.Parthiban and APS. Akilan, "Response Surface Modeling and Optimization of Mercury Removal from Aqueous Solution using Tamarind Seed Powder in Batch Process", Microbes in Wastewater and Waste Treatment, Bioremediation and Energy Production (MWT 2011) Innovations in Materials and Product Development, International Conference on Advancements in Polymeric Materials, January 24 – 27, 2011 organized by International Water Association and Birla Institute of Technology & Science, Goa, India.
3. **M. Rengasamy**, K. Kumaraguru and M. Vivek Sheraton, "Analysis of Temperature Effect and Additive Impact on Polyurethane based Elastomers", Innovations in Materials and Product Development, International Conference on Advancements in Polymeric Materials, Mar 25 – 27, 2011 organized by CIPET, Chennai, India.

4. **M. Rengasamy** and N. Jaya, "Synthesis, Optimization and Fuel Property Studies of Biodiesel from Edible oil using Heterogeneous base catalyst", International Conference on Trends and Innovations in Chemical and Pharmaceutical Technologies, February 2 – 4, 2017 organized by Dept. of Petrochemical Tech, Dept. of Pharmaceutical Tech and Dept. of Mathematics, Bharathidasan Institute of Technology, Anna University – BIT Campus, Tiruchirappalli- 620 024.
5. **M. Rengasamy**, Kavvya and Subhasree, "Treatment of Crystal Violet from Textile Effluent using Novel Technique", 6th International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World (ICTDAEEGW'17), February 21 – 22, 2017 organized by Dept. of Biotechnology, Vivekanandha College of Engineering for Women, Tiruchengode – 637 205.
6. **M. Rengasamy**, N. Jaya, B. Vinithkumar and R. Vinothraja, "Optimization and simulation of biodiesel production from Pongamia pinnata oil using synthesized iron nanocatalyst through aspen hysys software" International conference on energy, environment and industrial safety (SALVATIO'18), February 22-23, 2018 organized by Department of Applied Science and Technology, A.C.Tech, Anna University, Chennai – 25.
7. **M. Rengasamy**, N. Vedagiriswaran, V. Manikandan and G. Raam kumar, "Single atom alloy catalyst of Pt-Cu, a novel approach for the production of 1, 3 Butadiene from naphtha" International conference on energy, environment and industrial safety (SALVATIO'18), February 22-23, 2018 organized by Department of Applied Science and Technology, A.C.Tech, Anna University, Chennai – 25.
8. S. Kodhaiyolii, **M. Rengasamy** and V. Pugalenti, "One pot phytofabrication of bimetallic Fe-Ni Nanoparticles using Bogrhavia Diffusa leaf extract : Spectroscopic and Microscopic analysis", International conclave for the advancements in Bio, Chemical and Pharmaceutical technologies (BIOFLAIR 2019), 6-8 March, 2019 organized by Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli.
9. S.Koteshwaran, **M. Rengasamy** and G.Venkatesan "Green synthesis of nano particles and its application in dye effluent treatment plant ", International conference on Recent Advances in computer, Electricl , Electronics , Civil and mechanical Engineering Organized by Ranganathan Engineering College held on Coimbatore ,22nd and 23th March 2019.
10. C. Anupriya, G.Venkatesan and **M. Rengasamy** "Removal of Oil Spill from Sea Water using Novel Adsorbents" Innovative Practices, Recyclable Materials and Energy Efficient Methods in Civil Engineering organized by the Civil Engineering PSG Institute of Technology and Applied Research Coimbatore on 23th to 24th March 2018 pp 198-202
11. **M. Rengasamy**, R.Jeevakumar and S. Venketesen, "Simultaneous Electricity Production and Waste Water Treatment from Dairy Industries", 2nd International Conference on Innovations in Thermal, Manufacturing, Strucural and Environmental Engineering, held on 23.05.2020, organized by Department of Mechanical and Civil Engineering, Kongunadu College of Engineering and Technology, Thottiam.

Publications in National Conferences

1. SHAKTI on Renewable Energy “Production of fuels from waste polyethelene bags” School of Engg & Tech, BARD University School of Engg & Tech, BARD University,20.08.2005
2. Innovation in Chemical Engineering and Biotechnology, “Production of fuels from waste polyethelene bags” Department of Chemical Engineering and Biotechnology, St Joseph’s Collage of Engineering, Chennai, 31.01.2006
3. Advances in chemical engineering and Biotechnology “Removal of Mercury (II) Ions By Adsorptions” Department of Chemical Engineering and Biotechnology, St Joseph’s Collage of Engineering, Chennai, 30.01.2007
4. National level Technical Symposium “Hydrodynamic Cavitation” Department of Chemical Engineering, SSN college of Engineering, Chennai – 110, Sep – 2007
5. Technical Symposium on Electrochemical Technology, “Hydrodynamic Cavitation for degradation of crystal violet” Electrochemical Technologists Association CECRI, Karaikudi, from 21.02.2008 to 22.02 2008.
6. Chemcon 2008 “Treatment of Aromatic Amine dye by hydrodynamic Cavitation”, Department of Chemical Engineering Punjab University, Chandigarh, Dec.27-30,2008
7. National Conference on Evolving Challenges in Renewable Energy Sources “OFF Wind Energy Systems - A Review” Department of Chemical Engineering, Adhiparasakthi Engineering Collage on16.04.2009
8. Alchemy 2010 “Treatment of Petrochemical Effluent Using Nano Zero Valent Iron” Department of Chemical Engineering National Institute of Technology, Trichy-15, March-2010
9. Chemcon 2010 “Optimization of mercury(II) removal by adsorption using response surface methodology” Department of Chemical Engineering Annamalai University, Annamalainagar, Dec 27-29,2010.
10. Chemcon 2010 “Optimization of chromium removal by solvent extraction using response surface methodology” Department of Chemical Engineering Annamalai University, Annamalainagar, Dec 27-29,2010
11. International Conference on Advancements in Polymeric Materials, APM 2011 “Poster Presentation on Plasticizer, Filler and Solvent swell effect on Polyurethane Elastomer”, CIPET, Chennai, Mar 25-27,2011
12. INDIA BIO 2011 “Oxidative destabilization of dissolved organic and E-coli in domestic waste water through immobilized cell reactor system”, Vision Group on Biotechnology Biocon Ltd., Bangalore, 4th to 6th May 2011

13. RESURRECTA -13 National Level Technosium “Poster Presentation on Enhancement of Methane discharge from Methane” Clathrates –Page No 57 Department of Electrochemical Technology CECRI, Karaikudi, 15th and 16th February 2013
14. 3rd National Conference on Recent Advances in Bio-Energy Research “Production of biodiesel from neem oil using synthesized iron nanocatalyst” Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, Punjab 22nd to 24th November 2013.
15. National Conference on “Recent Advances in Chemical Engineering -2014. “Biodiesel Production From *Pongamia Pinnata* Oil Using Synthesized Iron Nanocatalyst” Dept. of Chem. Engg. Annamalai University & IChE Annamalai Neyveli Regional Center 12 and 13 July 2014, Annamalai University, Chidambaram.
16. National Conference on “Plant Metabolomics” “Transesterification of Castor Oil Using Nano-Sized Iron Catalyst For The Production of Biodiesel” Department of Biotechnology, BIT Campus, Anna University, Tiruchirappalli 15th -16th October 2014
17. National Conference on “Green Engineering and Technologies for Sustainable Future” “Hydrodynamic cavitation for the production of biodiesel from sunflower oil using NaOH catalyst” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 5th -6th December 2014
18. National Conference on “Green Engineering and Technologies for Sustainable Future” “Statistical optimization of chromium ion removal using response surface methodology” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 5th -6th December 2014
19. National Conference on “Energy Conclave in Emerging Trends in Petroleum Industries” “Design of cement slurry for shallow well” Department of Petroleum Engineering, Rajiv Gandhi College of Engineering, Sriperumbudur, 3rd – 5th March 2016
20. National Conference on “Emerging Trends in Petrochemical Technology” “Low temperature waste heat recovery” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 10th -11th March 2016
21. National Conference on “Green Engineering and Technologies for Sustainable Future” “Mercury(II) Ions Removal by Adsorption” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 16th -17th September 2016
22. National Conference on “Green Engineering and Technologies for Sustainable Future” “Biodiesel Production from The Oil Extracted from Artocarpus

Heterophyllus (Jackfruit) Seed” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 16th -17th September 2016

23. National Conference on “Green Engineering and Technologies for Sustainable Future” “Textile Wastewater Treatment : Hydrodynamic Cavitation Technique” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 16th -17th September 2016
24. National Conference on “Green Engineering and Technologies for Sustainable Future”. “Thermal Degradation of Plastic Waste to Fuel” Department of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli 16th -17th September 2016
25. Chemcon 2016 “Synthesis of Biodiesel from Palm Oil & Rice Bran Oil using Na₂SiO₃ as Heterogeneous Base Catalyst” Depr.of Chem. Engineering, A.C.Tech Anna Univ, Chennai-25, Dec 27-30,2016
26. Advanced Oxidation Process, AOP’ 2017 “Bacterial synthesis of photocatalytic titanium dioxide nanoparticles” Dept of Chemistry, BIT Campus, Anna Univ. Tiruchirappalli, Dec 17-19, 2017
27. G. Venkatesan, C. Anupriya and M. Rengasamy, presented paper on “Removal of oil spill from sea water using novel adsorbents” in the National Conference on “Innovative practices, recyclable materials and energy efficient methods in civil engineering” (IPRME’18), organized by Department of Civil Engineering PSG Institute of Technology and Applied Research, Coimbatore – 62, Mar 23-24, 2018.
28. V. Krishna Theja, S. Manojkumar, V. Vijayakumar and [M. Rengasamy](#) presented paper on “Fabrication of capillary action crude oil removal and recovery model to clean up oil spills”, in the National Conference on “Emerging trends in Chemical and Petrochemical Technology”, organized by Department of Petrochemical Technology, UCE, BIT Campus, Anna University, Tiruchirappalli, 20th September 2019.
29. J.Vijayaraghavan, R.Jeevakkumar, G.Venkatesan, [M.Rengasamy](#), J.Thivya, presented a paper on “Study on geopolymer coating for evaluation of corrosion protection of steel reinforcements in R.C.C structures” National Conference on Advancements in Civil Engineering, organized by Department of Civil Engineering, Vignan Institute of Technology and Science, Telangana, India, held on 29.12.2020 to 30.12.2020.

FDP in NPTEL Online Certification Course

1. NPTEL –AICTE one week FDP on “**Plastic Waste Management**”, February - April 2019 (8 weeks)
2. NPTEL –AICTE one week FDP on “**Waste to Energy Conversion**”, February - April 2019 (8 weeks)
3. NPTEL –AICTE one week FDP on “**Technology for Clean and Renewable Energy Production**”, July-September 2019 (8 weeks)
4. NPTEL –AICTE half week FDP on “**Selection of Nanomaterials for Energy Harvesting and Storage Application**”, July-August 2019 (4 weeks)
5. NPTEL-AICTE one and half week FDP on “**Environmental Quality Monitoring and Analysis**”, January-April 2020. (12 weeks)
6. NPTEL-AICTE one and half week FDP on “**Non-Conventional Energy Resources**”, January-April 2020. (12 weeks)
7. NPTEL-AICTE one and half week FDP on “**NBA Accreditation and Teaching - Learning in Engineering (NATE)**”, January-April 2020. (12 weeks)
8. NPTEL-AICTE one and half week FDP on “**Biomass conversion and Bio-refinery**”, January-April 2021. (12 weeks)
9. NPTEL-AICTE one week course on “**Ecology and Environment**”, September-November, 2020. (NON-FDP) (8 weeks)
10. AICTE 5-day online FDP on the theme “**Inculcating Universal Human Values in Technical Education**” organized by All India Council for Technical Education (AICTE) from 27th December, 2021 to 31st December, 2021. (5 Days)

NITTTR Online Certification Courses

1. Two Credit course NITTTR Exclusive MOOC, “**Laboratory and Workshop based Instruction and Learning**”, July – November 2020.
2. Two Credit course NITTTR Exclusive MOOC, “**Managing Learning Resources**”, July – November 2020.
3. Three Credit course NITTTR Exclusive MOOC, “**Integrating Educational Technology into Teaching**”, September – November 2020.
4. Three Credit course NITTTR Exclusive MOOC, “**E-content Development**”, July – September 2021.
5. Three Credit course NITTTR-AICTE FDP Exclusive MOOC, “**Student Assessment and Evaluation**”, January – May 2022.
6. Two Credit course NITTTR Exclusive MOOC, “**Graphics and Animation Development**”, January – May 2022.

FDP in ATAL Online Certification Courses

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, BIT Campus, Anna University, Tiruchirappalli. (5 Days)
2. AICTE Training and Learning (ATAL) Academy Online FDP on "**Environmental Geotechnology**" from 04.01.2021 to 08.01.21 at National Institute of Technology Karnataka Surathkal. (5 Days)
3. 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 Days)
4. 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. (5 Days)

Industrial Training Programme

1. Attended TWO weeks Industrial Training Programme on "**Plastic Processing and Testing**", organized at Central Institute of Petrochemical and Technology(CIPET : CSTS) Madurai from 10.06.2021 to 22.06.2021. (23 Days)
2. Attended FOUR weeks Faculty Induction/Orientation Programme for "**Faculty in Universities/Colleges/Institutes of Higher Education**", organized by Teaching Learning Centre, Ramanujan College, University of Delhi, from 22 March – 20 April, 2023. (30 Days)
3. Attended TWO weeks Professional Training Programme on "**Chemical Process Engineering – ASPEN HYSYS**", organized by Institute of ChemE Design and Development (ICDD), Coimbatore, from 03.07.2023 to 17.07.2023. (15 Days)

Faculty Development Programme

1. UGC Sponsored Refresher course (2005-2006) on "**Industrial Biotechnology**", Organized by Chemical Engg. Dept., Annamali University. from 19.12.2005 to 08.01.2006 (21 Days)
2. Centre for Faculty Development – Anna University – Chennai Sponsored FDP (2012) on "**ME 2251 - Heat and Mass Transfer**", Organized by Dept. of Mechanical, BIT Campus, Anna University, Tiruchirappalli, from 17.12.2012 to 24.12.2012 (8 Days)

3. TEQIP II Sponsored Faculty Development Programme (2013) on **“Emerging Trends in Biotechnology”**, Organized by Dept of Biotechnology, BIT Campus, Anna University, Tiruchirappalli from 19.08.2013 to 25.08.2013 (7 Days)
4. TEQIP II Sponsored Faculty Development Programme (2013) on **“Recent Trends in Renewable and Non Renewable Energy Sources to 2013”**, Organized by Dept. of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli from 26.08.2013 to 01.09.2013 (7 Days)
5. TEQIP II Sponsored Faculty Development Programme in association with NITTR-Chennai (2013) on **“Smart Teaching for the NET Generation”**, (Basic and Advanced Pedagogy) Organized by Bharathidasan Institute Technology Tiruchirappalli from 09.12.2013 to 23.12.2013 (15 Days)
6. TEQIP II Sponsored Faculty Development Programme (2015) on **“Nano Technology Applications in Engineering and Technology”**, Organized by Dept. of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli from 06.05.2015 to 19.05.2015 (14 Days)
7. TEQIP II Sponsored Faculty Development Programme (2015) on **“Advanced Research in Materials for Engineering and Technological Applications (ARMETA to 2015)”**, Organized by Dept of Physics, BIT Campus, Anna University, Tiruchirappalli from 17.07.2015 to 30.07.2015 (14 Days)
8. TEQIP II Sponsored Faculty Development Programme (2016) on **“Advanced Technologies for Societal Applications (ATSA’16)”**, Organized by Dept. of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli from 06.06.2016 to 19.06.2016 (14 Days)
9. TEQIP II Sponsored Faculty Development Programme (2016) on **“Computation, Optimization and Modelling of Sustainable Energy system (COMSES’16)”**, Organized by Dept of EEE, BIT Campus, Anna University, Tiruchirappalli from 20.06.2016 to 03.07.2016 (14 Days)
10. TEQIP II Sponsored Faculty Development Programme (2016) on **“PC 6403 - Fluid Flow Operation”**, Organized by Dept. of Petrochemical Technology, BIT Campus, Anna University, Tiruchirappalli from 19.12.2016 to 25.12.2016 (7 Days)
11. Centre for Faculty Development – Anna University – Chennai Sponsored Faculty Development Programme (2019) on **“CE 8302 – Fluid Mechanics”**, Organized by Department. of Civil Engineering, UCE-BIT Campus, Anna University, Tiruchirappalli from 24.06.2019 to 29.06.2019 (6 Days)
12. Participated Online Faculty Development Programme (2020) on **“Role of**

Chemical Engineering in Sustainable Process Development" organized by Department of Chemical Engineering, Sri Venkateswara College of Engineering, Chennai From 08.06.2020 To 12.06.2020. **(5 Days)**

13. Participated Online Faculty Development Programme (2020) on "**Advanced Technologies in Chemical Industries**" organized by the Department of Chemical Engineering, St. Peter's College of Engg and Tech, Chennai in association with IChE-SPCET Student Chapter from 23.06.2020 to 26.06.2020. **(4 Days)**.
14. Participated Online Faculty Development Programme (2020) on "**LaTeX**", organized by UCE-BIT Campus, Anna University, Tiruchirappalli with course material provided by Spoken Tutorial Project, IIT Bombay from 10.08.2020 to 14.08.2020 **(5 Days)**
15. Participated Online Faculty Development Programme (2020) on "**Recent Trends in Waste Management Technologies**", organized by the Department of Petrochemical Technology, UCE-BIT Campus, Anna University, Tiruchirappalli from 12.10.2020 to 16.10.2020 **(5 Days)**
16. Participated 5 days Online Faculty Development Programme (2021) on "**Inculcating Universal Human Values in Technical Education**", organized by All India Council for Technical Education (AICTE) from 20.12.2021 to 24.12.2021 **(5 Days)**

Seminar Organized / Co-organized

1. One Day Seminar on SAKTHI – “Renewable Energy – Energy of the further”, Organized by Department of Petrochemical Technology, School of Engineering and Technology and Tamilnadu Energy development Agency 20th August 2005.
2. National Symposium on “Frontiers in Chemical Technology”, Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Bharathidasan University on 2nd February 2007.
3. Co-coordinator for MNRE Sponsored two days National Seminar on “Role of Renewable Energy in Energy Conservation”, Organized by Department of Petrochemical Technology, Anna University of Technology Tiruchirappalli Tiruchirappalli on 14 and 15th December 2010.
4. Organizing Member for MNRE and CSIR Sponsored two days National Conference on “Recent Trends in Renewable Energy Sources for Sustainable Development”, Organized by Department of Petrochemical Technology, Anna University of Technology Tiruchirappalli Tiruchirappalli on 22nd and 23rd February 2011.
5. Coordinator for Two Days seminar on, “Advancements in Refining Operations and Management of Alternate Sources (AROMA-13)”, Organized by Department of

Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 25 and 26th October 2013.

6. Organizing Member for one week Faculty Development Programme on, “Depleting Energy Resources and Alternative Sources for Sustainable Energy Future (DAS-13)” Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 25 and 26th October 2013.
7. Coordinator for two days National Level Students Technical Symposium, “PECONOVA’14 - Eco friendly Innovations” Organized by Department of Petrochemical Technology and Association of Petrochemical Technologists, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 21 and 22nd March 2014.
8. Convener for two days International Conference on “Energy and Environmental Engineering” held in Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 6 and 7th November, 2014.
9. Coordinator for TEQIP sponsored one week HYSYS software training programme on “Equipments Design Software Training for Engineers (EDSTE - 2016) Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 22nd to 29th February 2016.
10. Coordinator for TEQIP sponsored two days national conference on “Green Engineering & Technologies for Sustainable Future” Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 16th and 17th September 2016.
11. Organizing Member for two days TEQIP sponsored Industrial workshop, “Petro-Fusion-17” Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 9th and 10th January 2017.
12. Organizing Member for three days TEQIP sponsored International Conference on Trends and Innovations in Chemical & Pharmaceutical Technologies, Organized by Department of Petrochemical Technology, Pharmaceutical Technology and Mathematics, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli during 2-4, February, 2017.
13. Coordinator for two days National Level Students Technical Symposium, “PECONOVA’2K18 - Eco friendly Innovations” Organized by Department of Petrochemical Technology and Association of Petrochemical Technologists, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 15th October 2018.

14. Coordinator for one day National Conference on “Emerging trends in Chemical and Petrochemical Technology”, Organized by Department of Petrochemical Technology, UCE, BIT Campus, Anna University, Tiruchirappalli, 20th September 2019.
15. Coordinator for one day live webinar on, “Overview of Pressure Equipment’s in Oil and Gas Industries” Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on 10th July 2020.
16. Coordinator for Two days National Conference on “Emerging Trends in Chemical and Petrochemical Technology (NETCPT ’22)”, Organized by Department of Petrochemical Technology, Anna University–UCE, BIT Campus, Tiruchirappalli on 03rd & 04th June 2022.
17. Coordinator for online Voice of Alumni programme on “What Next? – After B, Tech –MBA or M. Tech”, Organized by Department of Petrochemical Technology, Anna University–UCE, BIT Campus, Tiruchirappalli on 13.11.2022.

Membership in Professional Society

1. Life member in **IChE. (LM – 30618)** from 09.12.2005.
2. Member in **IAENG. (Member No: 104228)**
3. Life member in **Institute of Engineers** (Member No: **M- 1558379**) from 2016
4. Life member in **ISTE.** (Member No: **LM- 113818**) from 2016
5. Life member in **Indian Desalination Association (IDA) (LM-424)** from 2016

Summer / Winter Schools Attended

Title	Date/Period	Training by	Organized by
“ISO 9000 Quality System awareness”	08.04.1997	QSR Technologies, Chennai - 86	GNP (Madras) Ltd, Chennai – 96
“Fire Safety Management”	22.08.1998	National Fire Training Cell, Chennai – 34	Drew Treat Chemicals Ltd, Chennai – 96
“ISO 9000 Internal Quality Auditors”	13.07.1999-15.07.1999	QRS Technologies, Chennai – 86	Chemguard Coating Ltd, Chennai – 96.

Workshop Attended

Activity	Title	Date/Period	Intitution
Participation – One day Workshop	“Safety and Stress Management”	08.12.2006	Dept. Chemical Engg., NIT, Trichy – 15
Participation – One day Workshop	“Multiphase Flow and Process Industries”	24.03.2007	Dept. Chemical Engg., NIT, Trichy – 15
Participation – One day Workshop	“Nanomaterials Characterization and their Process Application”	28.02.2008	Dept. Chemical Engg., NIT Trichy – 15
Participation – One day Workshop	“Nanorevelations-2010 Recent trends in Nanoscience and Technology”	09.09.2010	Dept. of Nanotechnology Anna University of Technology- Trichy
Activity	Title	Date/Period	Intitution
Participation – Two day UGC Sponsored National Seminar	“Bioprocess Modeling Optimization and Simulation – 2011”	18.02.2011 19.02.2011	Dept. Chemical Engg, Annamali University. Chidambaram.
Participation – Two day National Level Technical Symposium PETROVISION-12	ASPEN Workshop	19.01.2012 20.01.2012	Dept. Chemical Engg, A.C.Tech Anna University. Chennai.
Participation - Two day Mini Colloquium on Nanofabrication Technologies	Mini Colloquium on Nanofabrication Technologies	25.03.2013 26.03.2013	BIT-AU Tiruchirappalli and INUP,IIT-Bombay
Participation – Residential Workshop on Research Methodology	Research Methodology – The Science of Creating New Knowledge	27.01.2014 29.01.2014	Society for Educational & Entrepreneurship Development, Chennai.
Participation – TEQIP-II Sponsored National Seminar	E- Resources for Scholarly Communication	28.02.2014	Central Library Bharathidasan Institute Technology Tiruchirappalli.

Participation – TEQIP-II Sponsored one day workshop	Environmental Management Framework	21.08.2014	SPFU – Tamilnadu & GCT-Coimbatore
Participation – TEQIP-II Sponsored one day workshop	Procurement Practices	22.08.2014	NPIU, SPFU-Tamilnadu & PSG College of Technology, Coimbatore.
Participation – IOCL Sponsored two days National Conference	Emerging Trends in Chemical and Petrochemical Technology	10.03.2016 & 11.03.2016	Dept of Petrochemical BIT Campus, Anna University, Tiruchirappalli
Participated - National Conference	Emerging Trends in Chemical and Petrochemical Technology	25.09.2017	Dept of Petrochemical BIT Campus, Anna University, Tiruchirappalli
Participation – Training programme	Entrepreneur Development Programme	06.10.2017	Women entrepreneurs association of tamilnadu and Anna University Tiruchirappalli
Participation – International Seminar	Development of smart inverters for photovoltaics and energy storage	20.12.2017	Dept of EEE TRP Engineering College Tiruchirappalli
Participation – One day National Workshop	Modelling and Simulation of Energy Systems	27.03.2018	Dept. of EEE UCE-BIT Campus, Tiruchirappalli.
Participation – Training programme	Advancement in compounding and testing of rubber products	06.09.2018 & 07.09.2018	Indian Rubber Manufacturers Research Association (IRMRA) Hotel Germanus, Madurai
Participation – One day workshop on	Recent Trends in Operations of Petrochemical and Petroleum Industries	04-09-2019	Dept. of Petrochem Tech, SSM College of Engineering Namakkal
Participation - Training programme	Intellectual Property Rights and Entrepreneurship,	22-11-2019 23-11-2019	PMO-IEDP, BIT Campus, Anna University, Trichy.
Participated in the webinar on	“Analytics of Air Pollution”	21-05-2020	UCE, BIT Campus, Anna University, Tiruchirappalli

Participated in webinar on	“Energy Optimization in Petrochemical Industry”	28-05-2020	Department of Petrochemical Engineering, JCT College of Engg & Tech, Coimbatore.
Participated in an online webinar on	“Open Educational Resources, Knowledge Management and Organizational Culture in Libraries”	29.05.2020 & 30.05.2020	Central Library, UCE, BIT Campus, Anna University, Tiruchirappalli
Participated in an online webinar on	“Role of Chemical Engineering in Industrial Safety”	7.06.2020 or 27.06.2020	Department of Chemical Engineering Saveetha Engineering College, Chennai.
Participated in webinar on	“Thermo-Chemical Conversion of Plastics”	13-06-2020	Department of Chemical Engineering, Sethu Institute of Tech, Kariapatti.
Participated in webinar on	“How to set Open Book Questions for Chemical Engg. Students, a need of an hour”	14-06-2020	Department of Chemical Engineering, Mohamed Sathak Engg & Tech, Kilakarai
Participated in webinar on	“Yoga for Immunity”	21-06-2020	Jeppiaar Institute of Technology, Chennai.
Participated in an online webinar on	“Oil and Gas Production Optimization using Artificial Lifts”	23.06.2020	Department of Petroleum Engg, Dhaanish Ahmed College of Engineering, Chennai
Participated in live webinar on	“Fire & Gas Detection for Oil & Gas / process industrial applications”	27-06-2020	Department of ICE, St. Joseph’s College of Engineering, Chennai.
Participated in the webinar on	“Elemental Carbon for New Generation Devices”	29-06-2020	Department of Science & Humanities, SRM TRP Engineering College, Trichy.
Participated in webinar on	“A Recent Insight on Intellectual Property Rights in India, USA and Europe”	06-07-2020	Department of Pharmaceutical Technology, UCE, BIT Campus, Anna University, Tiruchirappalli

Participated in the webinar on	“Recent trends in machine learning and Introduction to Oil & Gas industry”	11-07-2020	Department of ICE, St. Joseph’s College of Engineering, Chennai.
Participated AICTE - MARGDHARSHAN National Workshop on	“PERSPECTIVES AND CHALLENGES IN OUTCOME BASED RESEARCH”	13. 07. 2020 & 17. 07. 2020	National Institute of Technology, Tiruchirappalli-15
Participated in Dr. A.P.J. Abdul Kalam Memorial online Lecture on	“PURA – Providing Urban amenities in Rural Areas”	27. 07. 2020	Rotaract Club of Anna University, Tiruchirappalli
Participated in AICTE Sponsored Short Term Training Programme on	"Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education“	27. 07. 2020 & 01. 08. 2020	Department of Chemical Engineering St. Joseph’s College of Engg, Chennai.
Participated in AICTE sponsored one week STTP on	“Recent advances in soft computing techniques in optimizing Industrial process (MOSCHEM II – 2021”	27/09/2021 & 02/10/2021	Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar

Expert Lecture

Title	Date/Period	Programme	Organized by
“Refining - An Overview”	18.11.2009	AICTE Sponsored Staff Development Programme	Nandha Polytechnic College Erode -52
“Challenges for Chemical Engineers”	18.10.2010	“CHEMZEN-10” one day national level technical symposium	The Department of Chemical Engineering, St. Michael College of Engg. and Technology. Sivagangai.
“Role of Nanotechnology in Alternate Energy”	16.06.2016	TEQIP – II Sponsored Workshop on Nanomaterials for Energy & Environment	The Department of Chemical Engineering National Institute of Technology, Tiruchirappalli
“Plastics and its impact on Human Life”	12.01.2019	“To Face Plastic Causes”[Negilium Gnamum]	Thunipie Eyakkam, Prembalur

"Petroleum Refining Technology"	09.08.2019	Guest Lecture arranged by IChE – NEC student Chapter	The Department of Chemical Engineering Nantha College of Engineering Erode
"Petroleum Refining Technology"	04.09.2019	Workshop on “Recent Trends in Operations of Petrochemical and Petroleum Industries”	The Department of Petrochemical Technology SSM Engineering College Namakkal
"Petroleum Exploration & Refining Processing"	10.03.2020	National level eminar on “EWxisting Scenario in Chemical and Petrochemical Engineering Sources for Sustainable Development”	The Department of Petrochemical Engineering Mahendra Institute of Engineering and Technology Namakkal
“Introduction to oil and Gas Industries”	19.08.2021	Webminar on “Introduction to oil and Gas Industries”	The Department of Petrochemical Engineering Mahendra Institute of Enginnering and Technology Namakkal
“Crude oil and Natural Gas Processing”	13.10.2022	Webminar on “Crude oil and Natural Gas Processing”	The Department of Petrochemical Engineering Mahendra Institute of Enginnering and Technology Namakkal

Certificate of Appreciation

1. Certificate of Appreciation for Contribution as Chaairrperson in the International conclave for the **Advancements in BIO, Chemical and Pharmaceutical Technology (BIOFLAIR-2019)**, On 08.03.2019, organized by Dept. of Biotechnolgy, Pavendar Bharathidasan College of Engineering and Technology, Trichy.
2. Certificate for successfully Completion of E-Learning program on “**Desulphurisation**”, by TATA Steel on 13.05.2020.
3. Certificate of Appreciation for successfully Completion the “**Online Quiz on Awareness Of Covid-19**” on 17-5-2020.Organized by Department of Pharmaceutics, Shivalingeshwar College Of Pharmacy, Almala
4. Certificate of Appreciation for successfully Completion (Score of 100%) online “**Faculty Program on NBA**” on 17-05-2020, Organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai-400614.

5. Certificate for successfully Completion of E-Learning program on “**Industrial Water system**”, by TATA Steel on 18.05.2020.
6. Certificate for successfully Completion of E-Learning program on “**Fuel and Combustion**”, by TATA Steel on 22.05.2020.
7. Certificate of Appreciation for successfully Completion of online National Level Online Quiz on “**E-Learning**”, Organized by department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai, dated 15-06-2020.
8. Certificate of Achievement as, “**Certified Virtual Classroom Teacher**” from Classle SKILLNET on 27.06.2020.

Academic Activities

As an Executive in M/S Goodlass Nerolac Paints Ltd. (Apl 1996 – Aug 2004)

- Responsible for Planning and Meeting Production Targets and managing work force for manufacturing activities.
- Attending customer complaints and Initiate Cost Reduction Activities.
- Internal Quality Auditor and responsible for activities of ISO 9002.

As Deputy Controller of Examination-AUT-Trichirappalli (Jul 2007 – Jul 2010)

- Preparation of student data base, staff data base and Expert List.
- Arrangements for question setting, Scrutiny, Printing and Distribution.
- Preparation of schedule for University Examination both Theory and Practical.
- Nodal centers selection and correspondence to Nodal centers.
- Distribution of Stationary and question paper to colleges.
- Appointment of chief superintendent, external examiner, AUR, squad and Examiner for Central valuation.
- Arrangements for central Valuation & Preparing various essential forms & Publication of results.
- Conducting Pass Board meeting and Malpractice committee meeting.

As Controller of Examination- IIT-Srirangam (Nov, 2015 – Apl 2016)

- Preparation of student data base, staff data base and expert list.
- Arrangements for question paper setting, scrutiny, printing and distribution.
- Preparation of schedule for University Examination both theory and practical.
- Conduct of End Semester examination and Arrangements for central valuation
- Appointment of chief superintendent, external examiner and internal examiners.
- Preparing various essential forms and maintaining essential records.
- Conduct of Performance Analysis Report (PAC) meeting and Publication of results.

As a Teaching Staff (Aug 2004 – Till-Date)

- Served as member of board of studies for B.Tech. Chemical Technology (with specialization in Petrochemical Technology) Program of School of Engineering & Technology, Bharathidasan University, Tiruchirappalli for a three year period from 2005-06.
- Department representative for M.Tech-Nanoscience and Technology Program of Anna University, Tiruchirappalli.
- Compiled All Test Methods for Petroleum product in accordance with the Bureau of India Standards (BIS - 1448).
- Acted as Guest Faculty at National Institute of Technology (NIIT) for “Safety in Petrochemical Industries” for M.Tech., Industrial Safety Engineering Programme from July – 2005 to Nov – 2005.
- Served as Examination-evaluator and Question Paper setter for various Technical Universities.
- Serving as department placement officer from 2012.
- Serving as Class Coordinator for third year Petrochemical Technology from 2010.

As a TEQIP – Nodal Officer – Procurement (Aug 2013 – May 2017)

- Initiation Procurement Activities and Co-ordination with Head of Departments and Department co-ordinator.
- Purchase of equipments worth Rs. 6.75 crores to the various department of Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
- Maintaining procurements documents via Procurement Management System Software (PMSS)
- Maintaining relevant documents and reports

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