

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

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

**Date of Birth** : **05.12.1971**

**Cell Number** : **94435-33238**

**E-mail Address:** [mrengasamy40@gmail.com](mailto:mrengasamy40@gmail.com)  
[mrengasamy@aubit.edu.in](mailto:mrengasamy@aubit.edu.in)



## Academic Profile

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

## Professional Background

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| <b>Aug, 2018 Onwards</b>     | <b>Asst.Professor [Selection Grade]</b><br>Department of Petrochemical Technology,<br>UCE – BIT Campus, Anna University,<br>Tiruchirappalli.<br><b>[6.0 Year, as on Aug-2024]</b> |
| <b>Aug, 2014 – Aug, 2018</b> | <b>Asst.Professor [Senior Grade]</b><br>Department of Petrochemical Technology,<br>UCE – BIT Campus, Anna University,<br>Tiruchirappalli.<br><b>[4.0 Year]</b>                    |
| <b>Aug, 2009 – Aug 2014</b>  | <b>Asst.Professor,</b><br>Department of Petrochemical Technology,<br>UCE – BIT Campus, Anna University,<br>Tiruchirappalli.<br><b>[5.0 Years]</b>                                 |

|                              |   |
|------------------------------|---|
| <b>Jun, 2007 – Aug, 2009</b> | <b>Lecturer</b> , Department of Petrochemical Technology,<br>Anna University of Technology Tiruchirappalli. <b>[2.2 Year]</b> |
| <b>Aug, 2004 – Apl, 2007</b> | <b>Lecturer</b> , Department of Petrochemical Technology,<br>Bharathidasan University, Tiruchirappalli. <b>[2.8 Year]</b>     |
| <b>Apl, 1995 – Aug, 2004</b> | <b>Production Executive</b> , M/s.Goodlass Nerolac Paints Ltd,<br>Chennai, India <b>[8.3 Year]</b>                            |

### **Additional Responsibilities – University / Institute Level**

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

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| <b>2021 – Till Date</b>      | <b>NBA – Core Coordinating Member</b><br>UCE, BIT Campus, Tiruchirappalli                        |
| <b>Nov, 2021 – Till Date</b> | <b>Vice Chairman, Anti-Ragging Committee</b><br>UCE, BIT Campus, Tiruchirappalli.                |
| <b>2011 – 2021</b>           | <b>Stock Verification - Petrochemicals</b>   |
| <b>Mar – 2022</b>            | <b>Additional Chief Superintendent</b><br>TANCET Examination<br>UCE, BIT Campus, Tiruchirappalli |
| <b>Mar – 2023</b>            | <b>Additional Chief Superintendent</b><br>TANCET Examination<br>UCE, BIT Campus, Tiruchirappalli |
| <b>Nov – 2023</b>            | <b>Chief Superintendent</b><br>SETC Recruitment Examination<br>UCE, BIT Campus, Tiruchirappalli  |
| <b>Oct - 2023</b>            | <b>Member – Graduation Regulation Com. – Gra Day – 2022</b>                                      |
| <b>Dec – 2023</b>            | <b>Malpractice Enquiry Committee Member</b> , Anna University<br>University Examination          |
| <b>May - 2024</b>            | <b>NBA – Internal Audit Member for Dept. of Biotechnology</b>                                    |
| <b>Mar – 2024</b>            | <b>Additional Chief Superintendent</b><br>TANCET Examination<br>UCE, BIT Campus, Tiruchirappalli |
| <b>Aug – 2024</b>            | <b>Counsel – Newly joining students (AY 2024-25)</b><br>UCE, BIT Campus, Tiruchirappalli         |
| <b>Mar – 2024</b>            | <b>Malpractice Enquiry Committee Member</b> , Anna University<br>University Examination          |
| <b>May – 2025</b>            | <b>Malpractice Committee Member</b> , Anna University<br>University Examination                  |
| <b>2024</b>                  | <b>Mal Practice Enquiry Committee Member</b>   |

### **Additional Responsibilities – Department Level**

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| <b>2007 – Till date</b> | <b>Laboratory Incharge</b><br>Petroleum Product Testing Lab,<br>Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli |
| <b>2011 – Till date</b> | <b>Placement Coordinator</b> ,<br>Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli                               |

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| <b>2011 – Till date</b>  | <b>Alumni Coordinator,</b><br>Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli.  |
| <b>2011 – Till date</b>  | <b>Class Coordinator,</b> B, Tech -- Third year<br>Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli                                |
| <b>2015 – Till date</b>  | <b>Editor, Dept. News Letter,</b><br>Dept. of Petrochem. Tech, UCE, BIT Campus, Tiruchirappalli  |
| <b>2018 – 2020, 2022</b> | <b>Co-ordinator, 1<sup>st</sup> Year Induction Programme</b><br>Dept. of Petrochemical Tech, UCE, BIT Campus, Tiruchirappalli                |
| <b>2021 – 2023</b>       | <b>Naan - Mudhalvan, Incharge – B. Tech – Third Year</b><br>Dept. of Petrochemical Tech, UCE, BIT Campus, Tiruchirappalli                    |
| <b>Jun – 2023</b>        | <b>PKIET – Karaikal - Lab incharge for Petrochemical Analysis Lab-2</b>  |
| <b>Jan – 2024</b>        | <b>Judge</b> for Tamil and English Regional Speech competition on Netaji Subhas Chandra Bose birth anniversary on 18.01.2024                 |
| <b>2024 – 2025</b>       | <b>Co-ordinator, 1<sup>st</sup> Year Induction Programme, 04-16, Sep'24</b><br>Dept. of Petrochemical Tech, UCE, BIT Campus, Tiruchirappalli |

### **Representation in International/National/State Bodies**

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| <b>2017 – 2019</b> | <b>Selection Committee Member</b> for SRF/JRF Post, Indian Institute of Food Processing Technology (IIFPT), Thanjavur.                   |
| <b>July – 2017</b> | <b>External Examiner</b> for PG & Ph.D 2017 Admission, Indian Institute of Food Processing Technology (IIFPT), Thanjavur.                |
| <b>2018</b>        | <b>External Member for the purchase of lab Equipment.</b><br>Indian Institute of Food Processing Technology (IIFPT), Thanjavur.          |
| <b>Nov – 2017</b>  | <b>Expert Member-Question Paper Scrutiny,</b><br>Sethu Institute of Technology (Autonomous), Kariapatti                                  |
| <b>Apr – 2018</b>  | <b>Expert Member-Question Paper Scrutiny,</b><br>Sethu Institute of Technology (Autonomous), Kariapatti                                  |
| <b>Mar – 2019</b>  | <b>Jury Member</b> International Conclave (BIOFLAIR-2019), Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli |
| <b>May – 2020</b>  | <b>Chairman, B.Sc- Health Safety &amp; Environment Programme,</b><br>University Examination, Annamalai University, Cidambaram.           |
| <b>2015 – 2024</b> | <b>Question Paper Setter</b> for Anna University, Sathiyabama University, Annamalai University, Kongu college of Engg.,                  |

Paavai Ins. of Tech.. Sethu Ins. of Technology. Nantha College of Engineering, etc

|                   |   |
|-------------------|---|
| <b>Jan – 2019</b> | <b>Jury Member-</b> Subhas Chandra Bose Reginal Speech Competition UCE, BIT Campus, Tiruchirappalli   |
| <b>May – 2024</b> | <b>Squad Member,</b> Anna University University Examination   |
| <b>Dec – 2024</b> | <b>Expert Member-Question Paper Scrutiny,</b><br>Dhanalakshmi Srinivasan Deemed University, Perabalur |

## Field of Interest

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

## Research Interests

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- Nano Technology
- Alternate fuels
- Environmental Studies
- Biopolymers
- Coatings and Corrosion prevention
- Waste to Energy

## Ph.D Guidance:

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**Completed PhD :** Nil

**Under Progress :** 4 Nos – Provisional Confirmation - Completed

## Patent:

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1. Certificate of Grant – Innovation Patent from Australian Government, titled, “Corrosion, Performance, Combustion, Emission Analysis of Four Stroke Single Cylinder Di Diesel Engine Loaded in Cissus Quadrangularis”, **Patent No: 2021105245 Dated: 03.11.2021** R. Saravanan; Krishnan, P.Navaneetha; **M. Rangasamy**; D.B.Sivakumr; C.Saravanan; E. Dharmaraj; T. Kumarasan And Prabhakaran, P

2. Certificate of Registration of Design from the Patent Office , Government of India, Certificate No: 138219, Titled, “Pipette With Finger Operated Plunger“ **Design No: 380615-001, Date: 02-03-2023**, By Dr. A. Umamaheswari, Dr. S. Lakshmana Prabu, **Dr. M. Rengasamy**, Dr. N. Jaya, Dr. G. Venkatesan.
3. The Patent Office , Government of India, Application No: 202441069144, Titled, “Surface Treated Groundnut Shell Powder Composites: Eco – Friendly Alternatives In Natural Fiber Reinforced Polymers“ **Date: 12-09-2024**, By Ashwin Prabhu, Dr. N. Jaya, **Dr. M. Rengasamy**, R. Rangaraja, Dr. V. Anitha, G. Chandra Bose, M. Arivarasu, R. Athithyan, K. Rahul S. Thejeshwaran, S. Aswin.

## Book Published

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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

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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](https://drive.google.com/open?id=1x5STVHQJ6sNi_i9YHQavN4G4j9-eLlI6&authuser=epub%40benthamscience.net&usp=drive_fs)

## Book Chapters

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1. N. Stalin, M. Arulmozhi and **M. Rengasamy**, “Energy and Environmental Engineering”, (Nov-2014), ) Published by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University – BIT Campus, Tiruchirappalli- 620 024. **ISBN:9788192**
2. **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**.
3. N. Stalin and **M. Rengasamy**, “ASPEN HYSYS Steady State Training Manual”, (July 2016) Published by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University – BIT Campus, Tiruchirappalli- 620 024.
4. **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**.
5. 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).

6. S. Lakshmana Prabu, R. Thirumurugan, **M. Rengasamy** and G. Venkatesan, (2022), "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-elIl6&authuser=epub%40benthamscience.net&usp=drive\\_fs](https://drive.google.com/open?id=1x5STVHQJ6sNi_i9YHQavN4G4j9-elIl6&authuser=epub%40benthamscience.net&usp=drive_fs)

## **Awards, Honors and Recognitions:**

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1. **NPTEL Domain Scholar** in "Energy and Environment (Chemical Engineering)" in the period April 2021. <https://nptel.ac.in/nptelStars/DomainScholars.html>
2. "**NPTEL BELIEVERS**", Certificate of Appreciation by NPTEL-SWAYAM, January – December 2020. <https://nptel.ac.in/nptelStars/nptelBelievers.html>
3. "**NPTEL MOTIVATED LEARNERS**", Certificate of Appreciation 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. **Topper (TOP 5%)** in NPTEL Online Certification course on "Petroleum Technology", Jul-Sep 2023 **(8 week)**
7. **Silver Medal** in NPTEL Online Certification course on "Plastic Waste Management", February-April 2019 **(8 week)**
8. **Silver Medal** in NPTEL Online Certification course on "Selection of Nanomaterials for Energy Harvesting and Storage Application", July-August 2019 **(4 week)**
9. **Silver Medal** in NPTEL Online Certification course on "Technology for Clean and Renewable Energy Production", July-September 2019 **(8 week)**
10. **Silver Medal** in NPTEL Online Certification course on "NBA -Accreditation and Teaching – Learning in Engineering (NATE)", January-April 2020. **(12 week)**
11. **Silver Medal** in NPTEL Online Certification course on "Ecology and Environment", September - November 2020 **(8 week)**
12. **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.

13. Exceptional Academic contribution on Research Project for the academic year 2022-2023
14. Innovative achievement certificate for the academic year 2022-2023
15. Secured **100% Pass Result** in the subject, "**CH1805-Industrial Safety**", 5<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Nov-Dec, 2020.
16. Secured **100% Pass Result** in the subject, "**PE8073-Enhanced Oil Recovery**", 7<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering, BIT Campus Anna University, Tirucirappalli, for the University Examination held during Nov-Dec, 2020.
17. Secured **100% Pass Result** in the subject, "**CH8094-Polymer Technology**", 5<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli for the University Examination held during Nov-Dec, 2020.
18. Secured **100% Pass Result** in the subject, "**PM8651-Petroleum Secondary Processing Techhnology**", 5<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Apl-May. 2021
19. Secured **100% Pass Result** in the subject, "**PM8451-Petroleum Exploration and Exploitation Techniques**", 4<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Apl-May. 2021
20. Secured **100% Pass Result** in the subject, "**OME754-Industrial Safety**", 7<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Nov-Dec, 2021
21. Secured **100% Pass Result** in the subject, "**CH8094-Polymer Technology**", 5<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli for the University Examination held during Nov-Dec, 2021.
22. Secured **100% Pass Result** in the subject, "**PE8073-Enhanced Oil Recovery**", 7<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering, BIT Campus Anna University, Tirucirappalli, for the University Examination held during Nov-Dec, 2021.
23. Secured **100% Pass Result** in the subject, "**PM8451-Petroleum Exploration and Exploitation Techniques**", 4<sup>th</sup> Semester, Department of Petrochemical



Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Apl-May. 2022

24. Secured **100% Pass Result** in the subject, “**PM8452-Petroleum Primary Processing Technology**”, 4<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Apl-May. 2022
25. Secured **100% Pass Result** in the subject, “**PM8451-Petroleum Secondary Processing Technology**”, 4<sup>th</sup> Semester, Department of Petrochemical Technology, University College of Engineering BIT Campus Anna University Tirucirappalli, for the University Examination held during Apl-May. 2023.

### **Academic Achievements (Completed Projects)**

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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. Ramesh 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**

7. **Mentor – Savitribai Jyotirao Phule Fellowship** for Single Girl Child Registration Fellowship award for **Deepika R** by University Grand Commission (UGC), Government of India for 5 years (Rs. 35,000/Month). Registration ID: UGCES-22-OB-TAM-F-SJSGC-5509, July-2022 onwards

## **Articles in Tamil News Paper / Tamil Weekly**

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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**

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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/s12010-014-0843-0> <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. Pugalenth, "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. Pugalenth, "Transesterification of castor oil using 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%20si2%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.  
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12. **M. Rengasamy**, K. Anbalagan, S. Kodhaiyoli and V. Pugalenth, "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.  
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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.  
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14. **M. Rengasamy**, R. Vinoth Raj and N. Vedagiriswaran, "Study on Oil Extraction from Jackfruit Seed and its Application in Biodiesel Production", Elixir Renewable

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- 15 **M. Rengasamy**, S. Mohanraj, K. Anbalagan, and V. Pugalenth, "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).  
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- 16 **M. Rengasamy**, V. Pugalenth, V. Sivasubramanian, N. Jaya, "Synthesis of Biodiesel from Palm oil & Rice bran oil using Na<sub>2</sub>SiO<sub>3</sub> as Heterogeneous base Catalyst", *Engineering Reports*, 2018, Vol. 1 Iss. 1, PP. 11-21. DOI: [10.26524/er1813](https://doi.org/10.26524/er1813)  
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## **Publications in International Conferences**

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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**, N. Jaya, K. Diana Mary and M. Silambu Selvi, Synthesis of Biodiesel from Palm Oil & Rice Bran Oil Using Na<sub>2</sub>SiO<sub>3</sub> as Heterogeneous Base Catalyst, Indian Chemical Engineering Congress 2016, CHEMCON 2016, December



27-30, 2016 organized by Indian Institute of Chemical Engineers, Chennai Regional Centre, Anna University Chennai.

- 5 **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.
- 6 **M. Rengasamy**, Kavvya and Subhasree, "Treatment of Crystal Violet from Textile Effluent using Novel Technique", 6<sup>th</sup> 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.
- 7 **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.
- 8 **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.
- 9 S. Kodhaiyolli, **M. Rengasamy** and V. Pugalenthii, "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.
- 10 S.Kotesshwaran, **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, ElectriacI , Electronics , Civil and mechanical Engineering Organized by Ranganathan Engineering College held on Coiimbatore ,22nd and 23th March 2019.
- 11 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.
- 12 **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.

- 13 **M. Rengasamy**, C.Prabhu presented paper on "Synthesis and Characterization of nano-biochar for adsorption of textile effluent dyes", International Conference on Newer Engineering and Technology (ICONNECT-2023) held on 27.04.2023 and 28.04.2023, organized by K. Ramakrishna College of Technology Trichy.

## **Publications in National Conferences**

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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 on 16.04.2009
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, 4<sup>th</sup> to 6<sup>th</sup> 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, 15<sup>th</sup> and 16<sup>th</sup> February 2013
14. 3<sup>rd</sup> 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 22<sup>nd</sup> to 24<sup>th</sup> 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 15<sup>th</sup> -16<sup>th</sup> 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 5<sup>th</sup> -6<sup>th</sup> 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 5<sup>th</sup> -6<sup>th</sup> 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, 3<sup>rd</sup> – 5<sup>th</sup> 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 10<sup>th</sup> -11<sup>th</sup> 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 16<sup>th</sup> -17<sup>th</sup> 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 16<sup>th</sup> -17<sup>th</sup> 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 16<sup>th</sup> -17<sup>th</sup> 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 16<sup>th</sup> -17<sup>th</sup> September 2016
25. Chemcon 2016 “Synthesis of Biodiesel from Palm Oil & Rice Bran Oil using Na<sub>2</sub>SiO<sub>3</sub> as Heterogeneous Base Catalyst” Depr.of Chem. Engineering, A.C.Tech Anna Univ, Chennai-25, Dec 27-30,2016
26. National Conference on “Emerging Trends in Chemical and Petrochemical Technology (NETCPT ’ 17)”, Organized by Department of Petrochemical Technology, Anna University–UCE, BIT Campus, Tiruchirappalli on 25<sup>rd</sup> September 2017.
27. Advanced Oxidation Process, AOP’ 2017 “Bacterial synthesis of photocatalytic titanium dioxide nanoparticles” Dept of Chemistry, BIT Campus, Anna Univ. Tiruchirappalli, Dec 17-19, 2017
28. 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.
29. 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, 20<sup>th</sup> September 2019.
30. J.Vijayaraghavan, R.Jeevakkumar, G.Venkatesan, [M.Rengasamy](#), J.Thivya, presented a paper on “Study on geopolymers 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.
31. Presented a paper on “Molten salt for sensible thermal energy storage” National Conference on Green Innovation for Future Technologies – GIFT – 2022, organized by Department of Chemical Engineering Dr. Rangarajan Dr. Sakunthala Engineering College in association with IChE held on 01. 09. 2022 to 02. 09. 2022.

## **FDP in NPTEL Online Certification Course**

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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. NPTEL-AICTE one week course on “**Petroleum Technology**”, July-September, 2023. (8 weeks)

## **NITTTR Online Certification Courses**

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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.
7. Two Credit course NITTTR Exclusive MOOC, "**Communication Skills Modes & Knowledge Dissemination**", July – November 2022

## **NITTTR 8 Module Courses**

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1. **Module 1** - Orientation Towards Technical Education and Curriculum Aspects – Completed in Sep-2024.
2. **Module 2** - Professional Ethics & Sustainability - Completed in Feb-2024.
3. **Module 3** - Communication Skills Modes & Knowledge Dissemination - Completed in Sep-2024.
4. **Module 4** - Module 4 Instructional Planning and Delivery - Completed in Feb-2024.
5. **Module 5** - Technology Enabled Learning & Life-Long Self Learning - Completed in Feb-2024.
6. **Module 6** - Student Assessment and Evaluation - Completed in Sep-2024.
7. **Module 7** - Creative Problem Solving Innovation and Meaningful R&D - Completed in Sep-2024.
8. **Module 8** - Institutional Management & Administrative procedures - Completed in Sep-2024.

## **FDP in ATAL Online Certification Courses**

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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)

5. AICTE Training and Learning (ATAL) Academy Online FDP on "**Recent progress in Process Modelling, Simulation and Process Control**" from 06/01/2025 to 11/01/2025 at National Institute of Technology Tiruchirappalli. (5 Days)

## Industrial Training Programme

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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

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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)**
17. Participated 2 Weeks Online Winter Faculty Development Programme (2025) on **“Technology-Enabled Teaching, Learning & Process For Institutes”**, organized by UCE-BIT Campus, Anna University, Tiruchirappalli jointly organized by Electronics & ICT Academies at IIT Guwahati, NIT Patna, MNIT Jaipur and IIITDM Jabalpur from 03.02.2025 to 14.02.2025 **(12 Days)**

### **Seminar Organized / Co-organized**

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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 20<sup>th</sup> August 2005.
2. National Symposium on “Frontiers in Chemical Technology”, Organized by Department of Petrochemical Technology, Bharathidasan Institute of Technology, Bharathidasan University on 2<sup>nd</sup> 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 15<sup>th</sup> 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 22<sup>nd</sup> and 23<sup>rd</sup> 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 26<sup>th</sup> 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 26<sup>th</sup> 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 22<sup>nd</sup> 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 7<sup>th</sup> 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 22<sup>nd</sup> to 29<sup>th</sup> 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 16<sup>th</sup> and 17<sup>th</sup> 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 9<sup>th</sup> and 10<sup>th</sup> 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 15<sup>th</sup> 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, 20<sup>th</sup> 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 03<sup>rd</sup> & 04<sup>th</sup> 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

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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

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| 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

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| 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 |



|   |   |                               |   |
|---|---|-------------------------------|---|
| Participation – Two day UGC Sponsored National Seminar                    | “Bioprocess Modeling Optimization and Simulation – 2011”            | 18.02.2011<br>19.02.2011      | Dept. Chemical Engg,<br>Annamali University.<br>Chidambaram.                        |
| Participation – Two day National Level Technical Symposium PETROVISION-12 | ASPEN Workshop  | 19.01.2012<br>20.01.2012      | Dept. Chemical Engg,<br>A.C.Tech<br>Anna University.<br>Chennai.                    |
| Participation - Two day Mini Colloquium on Nanofabrication Technologies   | Mini Colloquium on Nanofabrication Technologies                     | 25.03.2013<br>26.03.2013      | BIT-AU<br>Tiruchirappalli and<br>INUP,IIT-Bombay                                    |
| Participation – Residential Workshop on Research Methodology              | Research Methodology – The Science of Creating New Knowledge        | 27.01.2014<br>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<br>Bharathidasan Institute<br>Technology<br>Tiruchirappalli.        |
| Participation – TEQIP-II Sponsored one day workshop                       | Environmental Management Framework                                  | 21.08.2014                    | SPFU – Tamilnadu &<br>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<br>&<br>11.03.2016 | Dept of Petrochemical<br>BIT Campus,<br>Anna University,<br>Tiruchirappalli         |
| Participated - National Conference  | Emerging Trends in Chemical and Petrochemical Technology            | 25.09.2017                    | Dept of Petrochemical<br>BIT Campus,<br>Anna University,<br>Tiruchirappalli         |
| Participation – Training programme  | Entrepreneur Development Programme                                  | 06.10.2017                    | Women entrepreneurs association of tamilnadu and Anna University<br>Tiruchirappalli |
| Participation – International Seminar                                     | Development of smart inverters for photovoltaics and energy storage | 20.12.2017                    | Dept of EEE<br>TRP Engineering College<br>Tiruchirappalli                           |

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|---|--|-------------------------------|--|
| Participation – One day National Workshop | Modelling and Simulation of Energy Systems   | 27.03.2018                    | Dept. of EEE<br>UCE-BIT Campus,<br>Tiruchirappalli.                              |
| Participation – Training programme        | Advancement in compounding and testing of rubber products                                  | 06.09.2018<br>&<br>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<br>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<br>&<br>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<br>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.                                       |

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|---|---|-----------------------------|--|
| Participated in an online webinar on                              | “Oil and Gas Production Optimization using Artificial Lifts”  | 23.06.2020                  | Department of Petroleum Engg,<br>Dhaanish Ahmed College of Engineering,<br>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                     | “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 |
| Participated in Technology Learning in Tamil                      | Tamil based computer technology and writng science and Enginnering concepts in Tamil.                 | 09/02/2023 & 10/02/2023     | UCE, BIT Campus, Anna University, Tiruchirappalli  |

## Expert Lecture

| <b>Title</b>                                  | <b>Date/Period</b>       | <b>Programme</b>   | <b>Organized by</b>   |
|---|--------------------------|--|---|
| “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"               | 16.08.2019<br>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 “Existing 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

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1. Certificate of Appreciation for Contribution as Chairperson in the International conclave for the **Advancements in BIO, Chemical and Pharmaceutical Technology (BIOFLAIR-2019)**, On 08.03.2019, organized by Dept. of Biotechnology, 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.
9. Certificate of Appreciation for acting as judge in the national level Technical Symposium **“VENZINI FIESTA – 22”** held on 14<sup>th</sup> and 15<sup>th</sup> October, 2022 in the Department of Petrochemical Technology, UCE, BIT Campus, Anna University, Tiruchhirappalli
10. Certificate of Appreciation for acting as judge for QUIZ event the eve of Azadi Ka Amrit Mahotsav held on 12.08.2022 in UCE, BIT Campus, Anna University, Tiruchhirappalli
11. Certificate of Appreciation for completing project under **“Student Innovative Project”** funded by CSRC, Anna University during July – December, 2022.
12. Certificate of Appreciation for completing project under **“Student Innovative Project”** funded by CSRC, Anna University during July – December, 2022.

## **Academic Activities**

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### **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- IIIT-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 (NITT) 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

### **Contact Address**

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**Dr. M. RENGASAMY**

**Asst. Professor**

**Department of Petrochemical Technology**

**University College of Engineering - BIT Campus**

**Anna University :: Chennai**

**Tiruchirappalli – 620 024.**

**Cell No:** 09443533238.:: **Tel :** +91 - 431 - 2407983. **Ext:** 8709.

**E-mail :** [mrengasamy40@gmail.com](mailto:mrengasamy40@gmail.com)  
[mrengasamy@aubit.edu.in](mailto:mrengasamy@aubit.edu.in)

**Aadhaar No** : 9XXX XXXX 1218  
**AICTE Faculty ID** : 1-1437045223  
**AU Identity Card No** : 952069 (New) / TF0046 (Old)  
**AU Examiner ID** : 8100107  
**AU Research Supervisor ID** : 3050012

### **Also @**

**Institute Web Site :** <https://www.aubit.edu.in/teaching-staff/dr-m-rengasamy/>

**Research Gate** : [https://www.researchgate.net/profile/Rengasamy\\_M](https://www.researchgate.net/profile/Rengasamy_M)

**Google Scholar** : <https://scholar.google.co.in/citations?user=9i8ZpSUAAAAJ&hl=en>

**ORCID ID** : 0000-0002-3240-3467

**VIDWAN ID** : 419832

**Web of Sci. ID** : JDD-3002-2023

**Scopus ID** : 56072614900