



## DR.V.TAMIL ELAKKIYA

Assistant Professor (Sl.Gr)  
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**Google Scholar ID** : [https://scholar.google.co.in/citations?user=dMXxD\\_YAAAAJ](https://scholar.google.co.in/citations?user=dMXxD_YAAAAJ)

## EDUCATION

### PhD Biotechnology

Anna University,  
Chennai.

### M.E Biomedical Engineering

College of Engineering - Anna  
University, Chennai.

### B.Tech Biotechnology

St. Peters Engineering College,  
Chennai.

## TEACHING EXPERIENCE

### Assistant Professor

Bharathidasan Institute of Technology - Anna  
University, Tiruchirappalli.

### Date of Joining:

03.03.2011 - Present

**Number of M.Tech Projects Completed:** 12

**Number of B. Tech Project Completed:** 52

## AREA OF FOCUS / SPECIALISATION

- Bioprocess Technology,
- Protein Engineering and
- Environmental Biotechnology

## AWARDS & HONOURS

- Selected for “**Young Faculty Research Support**” Scheme by **TEQIP II 2014**
- **Won “Best Paper Presentation Award”** in Second International Virtual Conference on “**Recent Trends in Clean Technologies for Sustainable Environment (CTSE 2021)** Organised by Department of Chemical Engineeruig SSN College of Engineering, Chennai on May 06 & 07 2021

## STUDENT FUNDED PROJECTS

S.No	TITLE OF PROJECT	CONTRIBUTION	FUNDING AGENCY	AMOUNT (RS)	DURATION
1.	Revolutionizing Eco Friendly Packaging : Harnessing Banana Leaves for a Sustainable Future	Project guide	CSRC, SIP & Anna University	20,000/-	2025
2.	Reducing methane toxicity in manhole by incorporating microbial technology	Mentor	TNSCST (Student Innovative Project Fund)	10000/-	2018

3.	Development of prototype for the onsite detection of heavy metal(chromium) using Bio surfactant	Mentor	TNSCST (Student Innovative Project Fund)	10000/-	2018
4.	Biodiesel production using Neem Oil with immobilized lipase Pseudomonas aeruginosa TEN01	Mentor	TEQIP II (Students Innovative Project scheme)	10000/-	2015–2016
5.	Synthesis of fluorescent carbon dots from the leaves of Millettia pinnata for detection of Allura red in food samples	Mentor	TEQIP II (Students Innovative Project scheme)	10000/-	2015–2016

## RESEARCH GUIDANCE

S.No	Name of the Scholar	Tentative Title of Thesis	Year of Registration	Current Status
1.	Hinduja MH	Isolation, Characterisation and Purification of Secondary Metabolites from Marine Sediments samples based on culture dependent and independent approach	2023	Coursework Completed

## PUBLICATIONS

1. **Tamil Elakkiya V**, Sureshkumar P, Yoha KS, Subhasri D (2021) chemotaxis properties of *Pseudomonas aeruginosa* TEN01 biomass-derived sustainable Biosurfactant Chemosphere Volume 285, pp131-138.  
(Impact Factor: 7.08)
2. Meenakshi RV, **Tamil Elakkiya V**, Sasidharan J, Selvakumar M, Rajasekaran S, and Sureshkumar P (2021) “ review on network pharmacology based phytotherapy in treating diabetes An environmental perspective." Environmental Research, volume 202, pp 111656.  
(Impact Factor: 6.4)
3. Karthik V, Selvakumar P, Senthil Kumar P, Dai VNV, Gokulakrishnan M, Keerthana P, **Tamil Elakkiya V** and Rajeswari R (2021) “Graphene based material for environmental applications review Environmental Chemistry Letters, volume 19, pp 3631 3644.  
(Impact Factor: 9.02)
4. **Tamil Elakkiya V**, Meenakshi, RV, Karthik, V, Ravi Shankar, K, SureshKumar, P and Hanan A (2021)“Green Synthesis of Copper Nanoparticles using *Sesbania aculeata* to enhance the plant growth and antimicrobial activities” International Journal of Environmental Science pp 1- 10  
(Impact Factor: 2.86)
5. **Tamil Elakkiya V**, SureshKumar P, Alharbi NS, Shine K, Jamal MK and Marimuthu G (2020) production of rhamnolipid biosurfactant, biopolymer and synthesis of biosurfactant-wrapped silver nanoparticles and its enhanced oil recovery” Saudi journal of biological sciences, volume 27, issue 7 pp 1892 1899.  
(Impact Factor: 4.21)
6. Saravanan R, **Tamil Elakkiya V**, Sivakumar D.B (2019) “ Biodiesel Production oil of neem and lipase from *Pseudomonas aeruginosa* “International Journal of Innovative science and Research Technology, Volume 4, Issue 7, pp 926-930.
7. Parveen M, Vijayalakshmi R, Divya P, **Tamil Elakkiya V** and Ravishankar K (2016) Synthesis of fluorescent carbon dots from the leaves of *Millettia pinnata* for detection of aflatoxin B1 in food samples” International journal of research in pharmacology & pharmacotherapeutics “ Special Issue1, pp 90-93.
8. Hanan A, Gowsalya G, **Tamil Elakkiya V** and Ravishankar K (2016) “ Exploitation of beneficial activities of marine algae for cosmetics” Seaweed research and utilization, Volume 38, issue 2 pp 136.

## BOOK CHAPTERS

S.No	Authors	Title of the Book chapter	Publisher and ISBN No
1.	Tamil Elakkiya V, Rajaram K, P Suresh Kumar	“Green Synthesis of Nanoparticles On Molecular and analytical techniques in Biotechnology. (2016), pp 44-53	SELP Publications, ISBN: 978-93- 80509- 82-2
2.	Tamil Elakkiya V, Rajaram K, Meenakshi RV, Ravi Shankar, K, Suresh Kumar P	Sesbania bispinosa and its In Vitro Effect on Chlorophyll Content in Long Bean Plant in Hand book on Green Synthesis of Nanoparticles: Applications and Prospects. (2021), pp 289-300	Springer Publications, Singapore, ISBN: 978- 981-15-5179-6
3.	Tamil Elakkiya V, Theresa V, Ravishankar K, Renganathan S, Gajendran T	Biosurfactant a Sustainable Replacement for Chemical Surfactant Hand book on Sustainable Bioprocessing for a Clean and Green Environment. (2021), pp 217	CRC Press, ISBN: 9781003035398
4.	Ravishankar K, Madhumathi Devi B, Tamil Elakkiya V, Ronaldo Anuf	“ Hand Book on : Genetic Engineering Of Microorganisms”	Nova Science Publishers, ISBN: 978- 1-53619-0625

## GUEST LECTURES

1. Delivered a Keynote speech on “Recent Research technology in the International Conference on Biomedical Virtualization, Prosthetics and Robotic Science at Atheenapandian private limited on **16th August 2024**.
2. Delivered a motivational lecture in Induction Program for the First Year Students at Department of Biotechnology in University College of Engineering (BIT Campus), Trichy held on **11 to 23rd Sep 2023**.
3. Delivered a lecture on “Innovation Voucher Programme and about own start-up” at Government College of Engineering Srirangam, Trichy on **27th October 2022**.
4. Delivered guest lecture through online mode at National symposium SYMBIOCHEMMED 2K21, Muthayammal Engineering College, Rasipuram on **19th March 2021**.
5. Delivered a Lecture through online mode at the state level webinar on “Current scenario in Biotechnology” at V.V.Vanniaperumal College for women, Virudhunagar on **20th February 2021**

## CONFERENCES PARTICIPATED

1. **V. Tamil Elakkiya V, Susma M, Gajendran T and Srehari M** “Biodegradable of polysters and polycarbonate in surgical gowns and goggles with pseudomonas aeruginosa TEN01”, Second Virtual conference on recent trends in clean technologies for sustainable environment at the Department of chemical engineering, Sri sivasubramaniya nadar college of engineering, Chennai, **6th-7th May 2021**.
2. Presented paper on Designing of bio photo voltaic cell for the production of electricity using consortium in 7th International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World 18 Organised by Department of Biotechnology, Vivekanandha College of Arts & Science for Women, Tiruchengode from **February 20-21, 2018**.

3. Divya P, Vijayalakshmi R, Parveen M, **Tamil Elakkiya V**, Ravishankar K “ Biodiesel Production using neem oil with immobilized lipase from *Pseudomonas aeruginosa* TEN 01, TEQIP II Sponsored International Conference on Biological, Chemical and Physical Sciences (ABCPS), **13-15th March 2017**.
4. **Tamil Elakkiya V**, Suresh Kumar P, Ayyanar, S, Ravi Shankar K Optimization of Biosurfactant production from *Pseudomonas aeruginosa* TEN01 and its enhanced biosorption of heavy metals Department of Biotechnology, Anna University, BIT campus, Trichy TEQIP II Sponsored International Conference on Trends & Innovations in Chemical & Pharmaceutical Technologies, **2-4th February 2016**.
5. Hanan A, Gowsalya P, **Tamil Elakkiya V** and Ravishankar K” Exploration of beneficial activities of marine algae of cosmoceuticals” SERB-DST Sponsored International Conference on Advances in Algal Biotechnology from **10th -12th August 2016**.

### **CONFERENCES/WORKSHOPS / SEMINAR / SHORT TERM REFRESHER COURSE ORGANISED**

1. Served as organizing committee member in Two Day National Level Technical Symposium “BIORITZ 2K24” held at Department of Biotechnology in association with DST-SERB at University College of Engineering, BIT Campus, Anna University, Tiruchirappalli from **26-27th September 2024**.
2. Organized two day National Conference on “Integrated Approaches on Drug Discovery and Development -Phytodrugs’23 held at Department of Biotechnology in association with DST-SERB at University College of Engineering, BIT Campus, Anna University Tiruchirappalli from **16-17th February 2023**.
3. Organised TEQIP II Sponsored Hands on training Programme on “ Molecular and Analytical Techniques in Biotechnology at Department of Biotechnology, Anna University, Tiruchirappalli from February **27 March 3, 2017**.
4. Organised TEQIP II Sponsored To days seminar on “National Pharmacology” - New Horizon in Drug Design” held in Department of Biotechnology, Anna University, Tiruchirappalli from **August 30-31, 2016**.

5. Organised TEQIP II Sponsored Faculty Development Programme on “Implications of Chemical Biological Sciences in Biotechnology (ICBSB– Department of biotechnology Anna University, BIT Campus, Tiruchirappalli from **22nd June to 5th July 2016**.
6. Organised TEQIP II Sponsored National Level Symposium on BIORITZ 14 Biotechnology, Bharathidasan Institute of Technology, Anna University, BIT Campus, Tiruchirappalli from **October 30-31, 2014**.
7. Organised TEQIP II Sponsored National Conference on “Plant Metabolomics” at Dept of Biotechnology, , Anna University, BIT Campus, Tiruchirappalli from **15th to 16th October 2014**.
8. Organized TEQIP II Sponsored two days Workshop on “Current Trends in Herbal Drug Delivery “ held at Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, BIT Campus, Tiruchirappalli during from **7th to 8th November 2013**.

### CONFERENCES/WORKSHOPS / SEMINAR / SHORT TERM REFRESHER COURSE ATTENDED

1. Faculty Development Programme on “Revolutionizing Healthcare and Biotechnology “: The role of AI and Computational Techniques at Sethu Institute of Technology from **2nd – 8th February 2025**.
2. Served as organizing committee member in Two Day National Level Technical Symposium “BIORITZ 2K24” held at Department of Biotechnology in association with DST-SERB at University College of Engineering, BIT Campus, Anna University, Tiruchirappalli from **26-27th September 2024**.
3. Online Two-week Interdisciplinary Refresher Course in “Advanced Research Methodology” conducted by Teaching Learning Centre, Ramanujam College, University of Delhi in collaboration with Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from **22nd September-6th October 2024**.



4. Two weeks Industrial Training Programme on “ Product Development using Polymeric Materials in Engineering and Biomedical Applications organized by CIPET:SARP – Advanced Research School for Technology and Product Simulation Guindy, Chennai from **20th December 2023 to 23rd April 2024** .
5. Eight module course conducted by National Initiative for Technical Teachers Training on **February 2024**.
6. Two Weeks Training Programme on “ Plastic Processing And Testing Organised by Department of Chemicals and Petrochemicals, Ministry of chemicals and Fertilizers, Govt of India, at CIPET, CSTS Madurai from **June 10-22 2021**.
7. Two weeks and “ Online Faculty Development Programme on “ICT Tools Teaching Learning Process Institute “ Jointly Organised by Electronics and ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Government of India held from **August 10 -21, 2020**.
8. Webinar on “ Spend one hour useful Forever” Organised by NSS, Ramco, Institute of Technology, Rajapalayam on **8th August 2020**.
9. One week Online – International Faculty Development Programme on Recent Advances on NGS Organised by Department of Earth Science Technology Cell and Centre for Ocean Research, Sathyabama Institute of Science and Technology, Chennai held from **July 27 August 2, 2020**.
11. Two Days Webinar on “Crafting Learner potential through career counselling counselling Conducted By Bharathiyar University, Coimbatore, and Manonmaniam Sundaranar University, Tirunelveli on **2nd & 3rd July 2020**.
12. Webinar on Funding Opportunities in Biotechnology” Conducted by Department of Biotechnology and Bioinformatics, Holy Cross College, Tiruchirappalli on **June 27, 2020**.
13. International Online Five Days Faculty Development Programme on “ICT Tools For Effective Teaching organized by Department of Visual Communication, Sathyabama Institute of Science and Technology, Chennai held from **June 22 26, 2020**.

14. TEQIP II Sponsored two days Workshop on “Advances in Biotechnology” Held on **6th to 17th March 2016** at Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli.
15. Faculty Development Programme on Learning Improvement Techniques organized and conducted by Teaching Learning Centre, IIT Madras from **28th to 30th January 2016**.
16. TEQIP II Sponsored Course on “Faculty Development Programme on “Comprehensive Approach of Biotechnology Applications” Organised by Department Of Biotechnology, Anna University BIT Campus Trichy from **16th to 29th April 2015**.
17. Participated DBT Sponsored National Conference “ Innovations and new horizons in algal technology - ORA 2015 organized by Department of Biotechnology, Kamaraj College of engineering and technology, Virudhunagar during **26th -27th February 2015**.
18. Faculty Development Programme on “Smart Teaching Of NET Generation” Conducted by National Institute of Technical Teachers Training & Research (NITTTRI) at Anna University, BIT Campus, Tiruchirappalli from **9th to 23rd December 2013**.
19. TEQIP II Sponsored Faculty Development Programme on Emerging Trends in Biotechnology organized by Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli from **19th to 25th August 2013**.
20. One Day National level Seminar On “ Strategic Quality Management for Technical Teachers “ on **16th March 2013** Anna University, BIT Campus, Tiruchirappalli.
21. One day Workshop on Teaching Skills and Smart Classroom Tools at Centre for Faculty Development Anna University, Chennai on **January 2013**.
22. DBT sponsored Short Term Training Programme on Biopharmaceuticals approaches in Plant Based Drug Discovery (Phytodrugs – 2012 Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli from **2nd May to 16th May 2012**.

## LIST OF NPTEL / SWAYAM ATTENDED

S.No	Name of the course	Duration	Grade
1.	Nanotechnology in Agriculture	14 Sep- 6 Nov, 2020 - 8weeks	Elite with Gold
2.	Wildlife Ecology	14 Sep- 4 Dec, 2020 - 12 weeks Exam : Dec 20	Elite with Gold
3.	Environmental Biotechnology	26 July-15 Oct, 2021 - 12 weeks Exam :oct 24	Elite
4.	Forests and their management	24 Jan- 15 April 2022 - 12 weeks Exam april 23 AN	Elite with Gold

## PROFESSIONAL ROLES

- |  |                              |
|--|------------------------------|
| 1. Member of Women Empowerment cell                    | February 2025 - till date.   |
| 2. Institute Health Center Coordinator                 | March 2023 – till date.      |
| 3. Institute Cultural Co-Coordinator                   | July 2022 -till date.        |
| 4. FICCI-FLO Institute Coordinator                     | May 2022-till date.          |
| 5. Overall EDII - IVP Coordinator                      | August 2019 - February 2023. |
| 6. Department Exam Coordinator                         | 2016-2018, 2022-till date.   |
| 7. Department Sports Coordinator                       | 2016-till date.              |
| 8. Department Coordinator for Quality Improvement Cell | 2016-till date.              |
| 9. Department Coordinator for ANTI-Ragging Committee   | 2016-till date.              |
| 10. Acted as NSS Program Officer                       | 2011-2015.                   |

## OUTREACH PROGRAMME

1. Acted as Coordinator in organizing two-day Eye Care Camp at Health Centre, University College of Engineering, BIT Campus, Anna University in association with Maxi vision Eye Hospital, Trichy from **5th – 6th March 2024**.
2. Acted as Co-coordinator in the One Day POSH Awareness Programme held at University College of Engineering, Anna University, Tiruchirappalli on **10th February 2023**.
3. Acted as Coordinator in organizing online 30 hours skill development programme on “Campus to corporate readiness for girl students” conducted by Anna University, Chennai in association with FICCI, Chennai from **11th April- 11th May 2022**.
4. Acted as Presiding Officer in General Elections to Lok Sabha - 2014 for Manachanallur Assembly Constituency on **24th April 2014**.
5. Conducted and organized NSS Camp at Mandaiyur on **February 2014**.

## **DECLARATION**

I certify that the information furnished above is correct and true to the best of my knowledge and belief.

**Signature of the staff member**

**Head of the Department**

**Dean**