

**Department of Biotechnology**  
**UCE- BIT Campus**  
**Room NO-131B : Anna University,**  
**Tiruchirappalli - 620024**  
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**Mr: A.Sivakumar Ponnambalam**  
**Assistant Professor**

➤ **Research Area:**

**BioProcess Engineering and Biomaterial**

➤ **Educational Qualifications:**

| <b>Qualification</b> | <b>Department</b>    | <b>Year (From -To)</b> |
|----------------------|----------------------|------------------------|
| M.Tech               | Biotechnology        | 2004-2006              |
| B.Tech               | Chemical Engineering | 1995 -1999             |

➤ **Experience:**

| <b>Name of Company / Institutions</b>         | <b>Designation of Post</b>      | <b>From</b> | <b>To</b>  | <b>Relived on</b> | <b>Experience in Year</b> |
|---|---------------------------------|-------------|------------|-------------------|---------------------------|
| Vellore Institute of Technology               | Teaching cum Research Assistant | 6.12.2006   | 16.07.2009 | 16.07.2009        | 2 year 7 months           |
| Manipal Institute of Technology               | Assistant Professor             | 20.07.2009  | 05.03.2011 | 05.03.2011        | 1 year 7 months           |
| University College of Engineering, BIT Campus | Assistant Professor             | 07.03.2011  | Till date  |                   | 12 years 6 months         |

➤ **Awards:**

- “Certified Master Trainer” in the course “Foundation Skills in Integrated Product Development (FSIPD)”, Supported by TEQIP II & TANSCTE and organized by the Centre for Faculty Development, Anna University, Chennai in Collaboration with IT – Its Sector Skills Council NASSCOM during July and March 2016.

➤ **Professional Activities:**

- Coordinated TEQIP II sponsored one week Faculty development Programme on “Principles of Bioreactor Engineering” December 16 – 22, 2013
- Coordinated TEQIP II sponsored Seminar on “Biotechnology – The Wave of Future” 30 – 31 October, 2013
- Coordinated TEQIP II sponsored Industrial Workshop on “Bioentrepreneurship”, 11 -12 August, 2016

➤ **Membership of Scientific and Professional Societies:**

- Life Member, Asia-Pacific Chemical, Biological & Environmental Engineering Society
- Fellow of Society of Applied Biotechnology
- Life Member, The Biotech Research Society of India

➤ **Completed B.E/M.E Projects:**

- a. Number of ME Projects Completed: 11
- b. Number of BE Project Completed: 40

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. Attended Short Term Training course on Hands on Training on “Biopharmaceutical Approaches in Plant Based Drug Discovery (Phytodrugs -2012), BIT Campus, Tiruchirappalli, 02 -16, May, 2012
2. Participated in Workshop on Teaching Skills and Smart Class Room Tools, Centre for Faculty Development, Anna University, Chennai, 07 January 2013
3. Participated Workshop on Photocatalysis for Sustainability: Fundamentals and Applications, BIT Campus, Tiruchirappalli. 09<sup>th</sup> October, 2013.
4. Participated National School of Sustainable Polymers and First Symposium on Advances in Sustainable Polymers(ASP – 14), IIT Guwahati, 6-11 January, 2014
5. Attended TEQIP II sponsored Two day National Conference on “Advances in Applied Chemical Sciences and Materials Technology” 17 -18, October 2014

6. Attended TEQIP II sponsored Two weeks Faculty Development Programme New Perspectives in Drug Discovery and Progressive Technological Developments (NPDPTD -2015),BIT Campus, Tiruchirappalli 4-17, May 2015
7. Participated in TEQIP II sponsored course on Foundation Skills in Integrated Product Development, BIT Campus, Tiruchirappalli ,19 -23, January 2016.
8. Attended TEQIP II sponsored Workshop on Advances in Rheology, BIT Campus, Tiruchirappalli, 8<sup>th</sup> August, 2016
9. Participated in Two days Workshop on “Strategies for Biotech Entrepreneurship” , SASTRA University, Tanjavur, 27 – 28 January, 2017.
- 10.Attended TEQIP II sponsored National seminar on Recent Advancement in Materials, BIT Campus, 24 -25<sup>th</sup> March, 2017.
- 11.Participated in National Conference on “Biomaterials in Medicinal Chemistry(BMC - 2017), School of Chemistry, Madurai Kamaraj University, Madurai, 12 -13, April, 2017.
- 12.Participated Two days Workshop on “ Composite Preform Formation Techniques and its Characterisation” PSGTECHS COE INDUTECH, Coimbatore, 22 -23 , September, 2017
- 13.Sucessfully completed NPTEL Online Certification in Elite Category, Topper in the Course “Introduction to Mechnobiology” Funded by Ministry of HRD, Govt. of India, Aug – Oct 2017.
- 14.Sucessfully completed NPTEL Online Certification in Elite Category, “Soft Nano Technology” Funded by Ministry of HRD, Govt. of India, Feb – March2018.
- 15.Sucessfully completed NPTEL Online Certification in Elite Category, “Medical Biomaterials” Funded by Ministry of HRD, Govt. of India, Feb – March2018
- 16.Sucessfully completed NPTEL Online Certification in Elite Category, “Nanotechnology in Agriculture” Funded by Ministry of HRD, Govt. of India, Aug – Oct 2018
- 17.Sucessfully completed NPTEL Online Certification in Elite Category, “Structural Analysis of Nanomaterials” Funded by Ministry of HRD, Govt. of India, Aug – sep 2018
- 18.Sucessfully completed NPTEL Online Certification in Elite Category, “Biomedical Nanotechnology” Funded by Ministry of HRD, Govt. of India, Aug – Sep 2018
- 19.Attended two weeks Industrial training programme on plastic processing and Testing,CIPET, CSTS, Madurai, June 10 -22, 2021.

➤ **Publications :**

**a. Books:**

1. Published a Book chapter “Theoretical Background for Measurement of volumetric Mass Transfer Coefficient  $K_L a$  and Procedure for Estimation by Dynamic Gassing out Technique”, in Hand Book on Molecular and Analytical Techniques in Biotechnology, SELP Publication, Tiruchirappalli. (ISSN 978 – 93 – 80509 – 82 -2).

**b. National Journals:**

1. **A.S.Ponnambalam**, R.S.Deepthi, A.R.Ghosh, “Qualitative Display and Measurement of Enzyme Activity of Isolated Cellulolytic Bacteria”, *Biotechnology Bioinformatics Bioengineering*. 2011, 1(1):33-37
2. Lakshmipriya.M, Gurupavithra.S, **Sivakumar.A**, Dr. Jayachitra.A, “Mycobiosynthesis of Silver Nanoparticles from Endophytic Fungi and its Applications”, *International Journal for Research in Applied Sciences and Biotechnology*, 2014, 1(1), 11-18
3. Rajesh TP, Narendhar C, **Sivakumar Ponnambalam A**, Mohanambal V, Sivamani S, “Green Synthesis of Silver Nanoparticles from Leaf Extracts of *Asclepias curassavica*”, *Journal of Chemical and Pharmaceutical Sciences*, special issue 2, 2014, 90-94
4. **A.Sivakumar Ponnambalam**, Asit Ranjan Ghosh, L.V.Prabu, “Solid state production of bacterial cellulase using *Agave sisalana* as substrate,” *Journal of Chemical and Pharmaceutical Sciences*, special issue 4, 2014, 86-88

➤ **Conferences**

➤ **International Conferences:**

1. **A.Sivakumar Ponnambalam**, “Production, Purification and Characterization of Cellulases from Cellulolytic Bacteria Isolated from Environment” Poster presentation in International conference Emerging Trends in Biotechnology, BRSI, BHU, Varanasi April, 2009
2. **A.Sivakumar Ponnambalam**, “Production, Purification and Characterization of Cellulases from Cellulolytic Bacteria Isolated from Environment.” Poster presentation in International conference in Biotechnology , VIT Vellore, February, 2008.

➤ **National Conferences:**

1. Sangeetha.D, **Sivakumar Ponnambalam.A**, “Optimization of Medium for Production Cellulase from the Alkali Tolerant Isolates”, National Level Conference on “Recent Advancement in Bio Pharmaceutical Technology” Department of Biotechnology, PABCET, Tiruchirappalli, March, 2013.
2. G.Vijayalaksmi, **A.Sivakumar Ponnambalam**, “Effect of the Biopolymer-pectin beads from *Ananus Comosus* On the removal of heavy metal” National Level Conference on “Recent Advancement in Bio Pharmaceutical Technology” Department of Biotechnology, PABCET, Tiruchirappalli, March, 2013.

3. R.Durgalakshmi, **A.Sivakumar Ponnambalam**, “Therapeutic and food technological applications of partially purified Bromelain from *Ananus comosus*” National Level Conference on “Recent Advancement in Bio Pharmaceutical Technology” Department of Biotechnology, PABCET, Tiruchirappalli, March, 2013.
4. **A.Sivakumar Ponnambalam**, “Adsorption Studies of the Biopolymer-Pectin Beads from *Ananus comosus* on Removal of Heavy Metals”, International conference on Bioenergy, Environment and Sustainable Technologies, Arunai Engineering college, 29- 31, January, 2015.
5. **A.Sivakumar Ponnambalam**, Asit Ranjan Ghosh, “The Kinetic Study of Cellulase Enzyme from Bacterial Isolate”, International conference on Bioenergy, Environment and Sustainable Technologies, Arunai Engineering college, 29- 31, January, 2015.

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

**Signature of the staff member**

**Head of the Department**

**Dean**