

## Dr . Sailja Allika



**DESIGNATION:** Assistant Professor

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### **EDUCATIONAL QUALIFICATIONS:**

- Ph.D. in CFD (COMSOL Multiphysics- Flow and heat transfer characteristics in a slit microchannel under asymmetric wall zeta potentials) **Chemical Engineering** from Andhra University, Visakhapatnam.
- M.Tech : Biochemical Engineering from Vignan Engineering College, Vadlamudi, Jawaharlal Nehru Technological University (JNTU), Guntur Dist, A.P.
- B.Tech in Chemical Engineering from GMR Institute of Technology, Jawaharlal Nehru Technological University (JNTU), Rajam ,A.P.
- Higher Secondary in Maths, Physics and Chemistry from Narayana Junior College, Visakhapatnam, Board of Intermediate Education, Hyderabad.

### **EMPLOYMENT EXPERIENCE:**

- Assistant Professor at Sinhgad Technical Education Society from (2008 – 2016)
- Assistant Professor at Anil Neerukonda Institute of Technology and Sciences (2015-2016)
- Lecturer at Gandhi Institute Of Technology And Management (GITAM) University (2007-2008)
- Assistant Professor at Dr. D.Y. Patil Biotechnology & Bioinformatics Institute, Dr. D.Y. Patil Vidyapeeth, Tathawade, Pune -2020-till date.

### **FIELD OF SPECIALIZATION:**

Simulation, Mass transfer studies, Bioreactor design, Fermentation Technology

### **Specific Areas of Research Interest:**

- Computational Fluid Dynamics
- Mass Transfer studies on algal growth
- Bioreactor design

### **MEMBERSHIP OF VARIOUS ACADEMIC BODIES:**

- Life member of ISTE (LMISTE).
- Life member of IIChe.
- Member of Indian Science Congress.
- Member of BRSI.
- Life Member IANGE

### **ACADEMIC ACTIVITIES:**

- Department level administrative work-managing junior faculty and staff
- Curriculum Planning
- Revision of Syllabus
- Appointed as Chairman, Examiner and Moderator for various subjects for B.Tech Biotechnology, under University of Pune.
- Preparation of Comparative statements.
- Department Website coordinator.
- Alumni Coordinator.
- Attended as External for various Lab examinations.
- Enquiry of Quotations.
- Verification of Dead stock Registers.
- Active participant in NBA documentation and maintenance.
- Procurement and installation of Equipments.
- Releasing bills.
- Conducting internal Theory Examinations in the Department.
- Counseling students and reporting the feedback to the higher officials.

### **RESEARCH PAPERS IN PEER REVIEWED JOURNALS:**

- A. Sailaja, B.Srinivas, I.Sreedhar, Electroviscous effect of power law fluids in a slit Microchannel with asymmetric zeta potentials, *Journal of Mechanics*, April 2018.
- Sailaja P, Tejas Khunte, Suraj Jalindre. Ammonium nitrogen reduction from municipal waste water and industrial effluents using Microalgae. *International journal of Multidisciplinary research.(IJMR)* Vol II issue12 (1) Mar 2014 ISSN 2277-9302
- Ritesh Zaskar, Ajit Gaikwad, Ankit Thosar, **Sailaja.P**, *Ultrasonic Extraction of phenolics from seasonal fruits and investigation of the adsorption capacity of ultrasonicated fruit residues*, *International Journal of Advance Research in Science and Engineering, (IJARSE)* Vol 3, Issue 1, September 14.
- Tushar Pore, Sonali, Kejal Malpani, **Sailaja P**, "Adsorption effectiveness of synthetic

- dyes on Kokum rind residue and investigation of best extraction procedure", International Journal of Advance Research in Science and Engineering, (IJARSE) Vol 2, Issue 1, August 14.
- Allika Sailaja, Dr. Bondala Srineevasulu, Dr. Bhadri Srinivas, Dr. K.V.Ramesh, Flow and Heat transfer characteristics in a microchannel with asymmetric zeta potential, International conference on Microelectronics, Electromagnetics and Telecommunications 2K18, 2018.
  - Mrs. Sailaja.P, Dr. P.B.Dhamole, Kavita Trimal, Suresh Manekar, **"International conference on Bioengineering", 2013.**
  - Mrs. Sailaja.P, Dr.P.B.Dhamole, Nilesh Parahte, Bhushan Savale, **"International Conference in Advances in Bioprocessing", 2013**
  - Sailaja P , P B Dhamole , Ankit Raskar, Narwade Padmja, Swati Masal. "Studies on Microalgal cultivation using industrial effluents". **International Conference on Herbal and synthetic drug studies.** 10<sup>th</sup> -12<sup>th</sup> Feb 2014
  - Sailaja P , Tushar Pore, Sonali ,Kejal Malpani. "Adsorption effectiveness of synthetic dyes on Kokum rind residue and investigation of best extraction procedure" **.International conference on Biotechnology and Biopinformatics (ICBB )** 1<sup>st</sup> -2<sup>nd</sup> Feb 2014
  - Sailaja P, Tejas Khunte, Suraj Jalindre. "Ammonium nitrogen reduction from municipal waste water and industrial effluents using Microalgae".
  - Ritesh Zaskar, Ajit Gaikwad, Ankit Thosar, **Sailaja.P**, Ultrasonic Extraction of phenolics from seasonal fruits and investigation of the adsorption capacity of ultrasonicated fruit residues, **International Conference on Emerging trends in Science and Cutting Edge Technology**, YMCA, Delhi. 28 September 2014.

#### **WORKSHOPS/ FDP'S ATTENDED/CONDUCTED:**

- **AICTE** Sponsored One Week Short Term Training Programme (STTP) on **"COMPUTATIONAL FLUID FLOW AND HEAT TRANSFER" (Online Mode Phase-I)** to be held during 24.08.2020 to 29.08.2020, conducted by Gayatri Vidya Parishad College of Engineering, Visakhapatnam.
- Three day online Faculty Development Programme(FDP) on **"Municipal Solid Waste Management during COVID-19 Pandemic"** organized by Department of Chemical Engineering, Anurag Group of Institutions, Ghatkesar (M), Medchal (D), Telangana held during 28-30 May 2020.
- **Resource Person in "Recent Trends in Downstream Processing"**, Department of Biotechnology, Sinhgad College of Engineering.
- **"Short term Summer Faculty Research Programme 2011"**, 13 th May to 13<sup>th</sup> July, IIT Delhi.
- **"Recent trends and Advances in Immunologicals"**, 14<sup>th</sup> March 2009, Sinhgad College of Engineering., Pune.
- **"Process Design and Engineering"**, 12<sup>th</sup> - 14<sup>th</sup> March 2009, Sinhgad College of Engineering, Pune.
- **"Process Industry Management"** conducted by **Sinhgad Technical Educational Society, Pune** on January 7<sup>th</sup> 2009.
- **"Website Awareness"** organized by **Sinhgad Technical Education Society,Pune**, on January 2<sup>nd</sup> 2009.
- **"Computational Techniques and its Applications"**, 1<sup>st</sup> - 5<sup>th</sup> Dec 2008, **Defense Institute Of Advanced Technology (DRDO), Pune.**
- **"Computational Modeling Of Proteins Intrinsic Blood Coagulation Pathway"** conducted in **GITAM University** on 19<sup>th</sup> July 2007.

- “**Teachers Training Programme**” conducted by **GITAM University** on 4<sup>th</sup> August 2007.
- “**Advanced Separation Processes**” conducted in Vignan Engineering College, Vadlamudi, Guntur Dist conducted from 21-11-05 to 24-11-05.
- “**Advanced Bio Chemical Engineering**” conducted in Vignan Engineering College, Vadlamudi, Guntur Dist conducted from 05-06-07 to 08-06-07.

#### **RESEARCH GRANTS:**

- Conducted Two day National level Conference on Current trends in Biotechnology , granted by **DBT, Govt. of India** with a grant of **Rs. 100.000/-** as a Convener.
- Received a grant of **Rs 1, 75,000 /-** from Board of College and University Development (BCUD), Pune University in 2012 for the Research Proposal “***Utilization of Industrial effluents for Algal growth***”.
- Received a grant of **Rs 35,000/-** from Institute of Engineers, India ( IEI) in 2010, for the Research Proposal “ **Drying of Areca Nuts**”.