

**Dr.A.Anitha**  
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Department of Chemical Engineering  
Hindustan Institute of Technology and Science  
(Deemed to be University)  
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### **Employment**

#### **20 years of Teaching and Research**

- Jan 2011-Present                      Professor, Dept of Chemical Engg, Hindustan Institute of Technology and Science, Chennai
- Dec 2000- Dec 2010                  Assistant Professor, Sathyabama Institute of Science and Technology, Chennai
- Jan 2000- Dec 2000                  Lecturer, St.Peters Engineering College, Chennai

### **Education**

- 2009    PhD, Sathyabama University, Chennai
- 1999    M.Tech, Chemical Engineering, IIT Delhi
- 1998    B.Tech, Chemical Engineering, University of Madras, Chennai

### **Specialization**

- Heat and Mass Transfer
- Chemical Process Equipment design
- Safety and Hazard Analysis

#### **Research Interests**

- Catalysis
- Alternate Fuels – Biodiesel
- Waste Water Treatment
- Environmental Impact Assessment

### **Membership in Professional Bodies**

- International Water Association (IWA)
- International Association of Engineers
- Association of Biotechnology Led Enterprises (ABLE)

### **Reviewer for Journals:**

- Biomass and Bioenergy, Elsevier
- Biofuels, Taylor & Francis
- Fuel, Elsevier
- Applied energy, Elsevier
- Clean Technologies and Environmental Policy, Springer
- Materials Today Proceedings, Elsevier

### **Sponsored Research**

**Funding organization:** Department of Science and Technology

**Title of the Project:** Nanoparticles of TPA and CsTPA for biodiesel production from used cooking oils with high acid value

**Project duration:** 3 Years (2014-2017)

**Project Amount Sanctioned:** 25 lakhs

### **Ongoing Research**

1. Biosynthesis and characterization of silver nanoparticles and its antidiabetic activity
2. In silico analysis of silver nanoparticles for drug designing
3. Anticancer activities of natural products – Probiotic herbal curd
4. Chromium reduction in tannery effluent using MFC with SPEEK as a proton exchange membrane
5. Influence of green synthesized calcium oxide in biodiesel performance.

### **Guest Lectures /Invited Talks Delivered**

Keynote Speaker: International conference on “Materials Engineering and Characterization, 8-10 May 2019, Adhi college of engineering and technology, Kanchipuram district.

Keynote Speaker: National Seminar on “Occupational Safety and Health : Ventilation and Heat Stress” held on June 19, 2018 at the, Regional Labour Institute ( RLI), Chennai.

Invited Talk: “ Heteropolyacids – An Alternative Route to produce Ecofriendly Biodiesel” at a Workshop on Biofuels and Combustion Research held at NIT Trichy on September 29, 2016.

Invited Talk: “ Role of Solid Acid Catalysts in Biodiesel Production” at Biodiesel Training Programme ( RENEW 2015) held on June 29, 2015 at Sathyabama Institute of Science and Technology, Chennai.

Invited Talk: “ Biodiesel Generation from Waste Cooking Oil using Heteropolyacids” at Indo German Workshop on “Promise and Challenges of Biodiesel as Sustainable Fuel for Future Use” held at IIT Madras from 19 -21, Feb 2015.

Panel Member: Indo German Biodiesel Forum held at IIT Madras, 2015.

### **Administrative Responsibilities in the University**

- Head of the Department of Chemical Engineering and Biotechnology
- Open house co-ordinator
- Member of Research Promotion Committee
- Member of CBCS and OBE implementation team
- Member of Internal Inspection team for NBA and NAAC
- Curriculum Revision Committee
- Member of Academic Council Meeting and Board of Studies
- Doctoral Committee member – Internal
- Recruitment panel member
- External Panel member for Doctoral committee in Sathyabama University, Chennai
- Guiding Ph.D, M.Tech and B.Tech students in their research and projects
- Organizing seminars, guest lectures, workshops, training programmes and conferences.

### **Association with Industry and Research Organizations**

Working relationship with

- Central Leather Research Institute (CLRI)
- National Institute of Ocean Technology (NIOT)
- IIT Madras
- Biocon Ltd., Bangalore
- Madras University

for projects, internships, consultancy and academics