

# Dr. ANJU SUNNY

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## *Official Address*

Assistant Professor,  
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## *Home Address*

Chackalackal (H),  
Priyadarshini hills,  
Athirampuzha P.O.  
Kottayam – 686562  
Kerala

## *Academic qualification:*

- **PhD** - Process Simulation & Control - National Institute of Technology Calicut (2015-2020)
- **M.Tech** - Chemical Process Control - Government Engineering College, Thrissur - Calicut University (2011-2013)
- **B.Tech** - Applied Electronics & instrumentation - Saintgits College of Engineering, Pathamuttom, Kottayam - Mahatma Gandhi University (2007-2011)

## *Research:*

- **Area:** Process Simulation and Control
- **Topic:** Simulation, optimization and control of Regasified Liquefied Natural Gas based reforming process for syngas production in an ammonia plant.
- **Supervisor:** Dr. Aparna K, Associate Professor, Department of Chemical Engineering, National Institute of Technology Calicut.
- **Research experience:** 5 years

## *Publications in Refereed Journals:*

- **Anju Sunny**, P A Solomon, K Aparna, *Syngas production from regasified liquefied natural gas and its simulation using Aspen HYSYS*, Journal of Natural Gas Science and Engineering 30 (2016) 176-181. doi:10.1016/j.jngse.2016.02.013. (Impact Factor: 4.965)
- **Anju Sunny**, N Gazliya, K Aparna, *Optimization of regasified liquefied natural gas based reforming process for syngas production in an ammonia plant*, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. doi: 10.1080/15567036.2019.1604868. (Impact Factor: 3.447)
- N Gazliya, Nimmi C Sekhar, **Anju Sunny**, K Aparna, B. Hasanath, *Physiochemical characterization and thermal kinetics of lignin recovered from sustainable agro waste*

for bioenergy applications, International Journal of Hydrogen Energy. doi: 10.1016/j.ijhydene.2020.03.172. (Impact Factor: 5.816)

### ***Publications in International Conferences:***

- Anju Sunny, P A Solomon, K Aparna, *Revamping of Syngas production process with regasified liquefied natural gas and its simulation using Aspen HYSYS*. International Conference on Gas, Oil and Petroleum Engineering (GOPE 2016) organized by United Scientific Group, Las Vegas, USA on November 2016.
- Anju Sunny, K Aparna, *Energy saving strategy for Ammonia plant through feed switchover from Naphtha to R-LNG*. International Conference on Energy and Environment: Global Challenges (ICEE 2018) organized by National Institute of Technology, Calicut on March 2018.

### ***Awards/ Achievements:***

- Attended as Speaker in the International Conference on Gas, Oil and Petroleum Engineering (GOPE 2016) organized by United Scientific Group, Las Vegas, USA on November 2016.
- Secured 1st prize in the Nation-wide quiz competition on Laws related to women, held on 19th December 2018, at the NIT Calicut, under the directives of National Commission for Women.
- Attended as member of final round evaluation panel (Robotics stream) of SRISHTI 2019, the 6th National level project exhibition and competition, held at Saintgits College of Engineering, Kottayam, Kerala on 19th February 2019.

### ***Teaching Experience:***

- **Assistant Professor** – Department of Electronics and Communication Engineering, Cochin Institute of Science and Technology, Muvattupuzha, Kerala (January 2014- January 2015).
- **Guest Lecturer** – Department of Instrumentation, Cochin University of Science & Technology (CUSAT), Kochi (July 2013 - December 2013).

### ***Courses & Workshops Attended:***

- AICTE, TEQIP – Short Term Course on Design of Experiments with Statistical Modelling, Department of Mechanical Engineering, T. K. M. College of Engineering, Kollam, Kerala.
- MHRD, TEQIP - Faculty Development Programme on School on Control Systems, Department of Electrical Engineering, National Institute of Technology Calicut, Kerala
- MHRD - Faculty Development Programme on Advanced Techniques in Energy and Wastewater Treatment, Department of Chemical Engineering, National Institute of Technology Calicut, Kerala.

- TEQIP - Training Programme on Advanced mathematical approaches in Chemical & Environmental Engineering using MATLAB and Simulink, Department of Chemical Engineering, National Institute of Technology Calicut, Kerala.
- MHRD, TEQIP - Faculty Development Programme on Novel Separation Techniques, Department of Chemical Engineering, National Institute of Technology Calicut, Kerala.
- MHRD, TEQIP - National Workshop - Research writing: Technical and Language aspects, School of Management Studies, National Institute of Technology Calicut.
- TEQIP - National Workshop on MATLAB, SIMULINK and LATEX for Engineers, Department of Chemical Engineering, Government Engineering College Thrissur.

### *References*

- Dr. P. A. Soloman  
Associate Professor,  
Dept. of Chemical Engineering,  
Government Engg College, Thrissur
- Dr. K. Aparna  
Associate Professor  
Dept. of Chemical Engineering  
National Institute of Technology Calicut

### *Declaration*

I hereby declare that all the information provided above is true to the best of my knowledge.

Place: Kottayam  
Date : 07/01/2022

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