Curriculum Vitae

Haldhi Rehana Anjum

Mobile No: +91-9000786644 e-mail: <u>hra714@gmail.com</u>



Objective

Intend to build a good career in a reputed organization where i can effectively contribute to the growth of the organization with my innate skills.

Academic Qualification

Course	University/Board	Subject	Duration	Percentage (%)	
M. Tech	Sri Venkateswara University, Tirupathi.	Chemical Engineering	2013-2016	62	
B. Tech	Jawaharlal Nehru Technological University, Anantapur.	Chemical Engineering	2009–2013	67	
Intermediate	Board of Intermediate Education	Mathematics, Chemistry, Physics	2007–2009	76.6	
S. S. C	Board of Secondary Education	Mathematics, General Science, Social	2006–2007	71.6	

M. Tech Project Work

Title: Process Development of Novel Carbazole based Polymers as Hole Transport Materials for Solar Cell Applications.

Organization: CSIR-IICT.

Guides: Dr. A. V. Sesha Sainath, Senior Scientist, CSIR-IICT, Hyderabad. &

Dr. G. Prabhakar, Professor, HOD, SV University, Tirupathi.

Duration: 1 year.

B. Tech Project Work

Title: "Studies on Biosorption of copper using Macro Green Algae for Removal of a Heavy Metal".

Organization: Andhra University.

Guides: Prof. Ch. V. R. Murthy, Principal, AU College of Engineering, Visakhapatnam.

Prof. A. V. N. Swamy, Professor, Chemical Engineering, JNTU, Anantapur.

Duration: 6 months.

Technical Skills

- Laboratory Techniques: FT-IR Spectroscopy, UV-VIS Spectroscopy, Water analysis, Inoculation of microbial cultures and Bacteriological analysis of industrial effluents.
- Software : Chemdraw and MS Office.

Experience

 Present working as ASSISTANT PROFESSOR (AD-HOC), Department of Chemical Engineering, JNTUACEA Anantapur. Duration: 9/12/2019 till now.

Present Work Description:

- Teaching UG & PG (NT/EE) subjects.
- Laboratory handling Mass Transfer Operations, Environmental Pollution Monitoring Laboratory, Process Dynamics & Control Lab And MATLAB.
- Worked as a Project Assistant in "Membrane Separation Lab" under the guidance of Dr. S. Sridhar, Principal Scientist, Chemical Engineering Division, CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana (State), India <u>Duration:</u> May 2016 to May 2019.

Project Work Description:

- Performance of Aerobic Membrane bioreactor using microbial culture such as curd culture to control the pollution from food waste to recycle for flashing and gardening.
- Production of biogas from kitchen waste by Anaerobic Membrane Bioreactor technology using methanogenic bacteria culture.

- The Green Engineering through Anaerobic Membrane Bioreactor Technology.
- Microalgae: Sustainable Approach for Treatment of Domestic Waste Water and Industrial Effluents.
- Processing of coffee and dairy industrial effluent by a novel Membrane based hybrid process.
- Pre-treatment and post-treatment methodology for efficiency performance of Membrane processes.
- Method for safe disposal of reject (wastewater) stream coming from RO plant.
- Low-cost coagulation methods for treatment of storm drain water from landfill.
- Preparation of flat sheet membrane using different type of polymers

Skills & Expertise

- ✓ Maintenance and troubleshooting of Compact water purification systems.
- \checkmark Protecting the environment from industrial effluents by using Membrane Bioreactor.
- \checkmark Design and synthesis of polymers using classical and living radical polymerizations.
- \checkmark Polymer structural characterization by using NMR and FT-IR spectroscopic techniques.
- ✓ Knowledge in microbiology growing, algal growing and their production.
- ✓ To perform lab scale & pilot plant experiments and collect relevant data.
- \checkmark Good in manuscript writing, communication and presentation skills.

Awards & Achievements

• Director's Special Appreciation Award for "*SWACHH BHARAT SERVIES*" for providing drinking water facilities in both urban & rural areas. (5th August 2017)

Publications

<u>Paper</u>

H. Rehana Anjum, el. "Synthesized Tio2 nanoparticles for the application of photocatalytic degradation of synthetic toxic dye acridine orange" Department of Chemical Engineering, JNTUA, Anantapur, Andhra Pradesh 515001, India. April & 2022. DOI: <u>https://doi.org/10.1016/j.matpr.2022.04.278</u>

<u>Book Chapter</u>

Siddhartha Moulik, H. Rehana Anjum, S. Sridhar, "Design of membrane systems through Computational Fluid Dynamics (CFD) and molecular modeling", Membrane Separations Group, Chemical Engineering Division Academy of Scientific and Innovative Research (AcSIR), CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad, India – 500007.

Conferences/Seminars

International/ National Conference

- H. Rehana Anjum, "Indo -EU Workshop on Microbial Electrochemical Technologies for Sustainability: Fuels, Chemical and Remediation"- "metSUS-2017". International Conference on Bioengineering and environmental Sciences lab, EEFF Department (28th Feb, 2017) at CSIR-IICT, HYD.
- H. Rehana Anjum, U. Sirisha, Nivedita Sahu, S. Sridhar⁻ "Processing of coffee industrial effluent by a novel Membrane – based hybrid process", International Conference on Biotechnology and Bioengineering- Trends, (23rd – 25th March, 2017) at Jawaharlal Nehru Technological University, Hyderabad.
- J. Gopinath, H. Rehana Anjum, B. Bala Raju, A. V. Sesha Sainath," Synthesis, characterization of novel polythiphene based di-/tri-block polycarbazole copolymers as hole transport materials", Proceedings of 18th International Workshop on Physics of Semiconductor Devices, JN Tata Auditorium. Indian Institute of Science, Banglore-560012, Karnataka, India.
- H. Rehana Anjum, two days Online Conference on "Novel Trends in Chemical Sciences (NTCS-2021)", conducted by the Govt. Digvijay Auto. P. G. College, Rajnandgaon (C.G). (20-21 October, 2021).
- H. Rehana Anjum, two days Online Conference on "Emerging Fields in Chemistry: Advances and Applications", conducted by the Govt. Kamla Devi Rathi Girls P. G. College, Rajnandgaon, C.G, INDIA. (10-11 August, 2021).
- H. Rehana Anjum, Five Day online FDF on "Domains of Academia: Research and Teaching-Learning", conducted by Department of Chemical Engineering, Marwadi University. (1st, 2nd, 3rd, 4th & 5th March 2022).
- H. Rehana Anjum, two days Online Seminar on "Exploration of Insight in Innovative Research of Chemical Sciences in Modern Epoch", conducted by Krishna Chandra College, west Bengal.
- H. Rehana Anjum, one day Webinar on "NAAC: Its New Framework and Quality Enhancement Techniques", Internal Quality Assurance Cell (IQAC), Udala college, Udala. (08.01.2021).
- > H. Rehana Anjum, one day Lecture Series on "diagnostic testing in a post-covid world

enabled by microfluidic technologies". (3rd June, 2022).

- H. Rehana Anjum, Five Day online FDF on "Laboratory and Workshop learning skills on conducting online classes", online FDP conducted by the Dept. of Chemical Engineering & JNTUA. (20th -25th Feb, 2021).
- H. Rehana Anjum, Two Week FDP on "Mathematical Modeling and Simulation for Scientists & Engineers" organized by chemical engineering department, JNTUA, ATP (24th Feb to 7th March 2020).
- H. Rehana Anjum, Two Day Workshop on "Development of MOOCs and Production Techniques", organized by EEE department, JNTUA, ATP under TEQIP III (17th and 18th Jan, 2020).
- H. Rehana Anjum, One Day Workshop on "Recent trends in chemical and Biotechnology Engineering" organized by chemical engineering department, JNTUA, ATP under TEQIP III (30th Dec, 2019).
- H. Rehana Anjum, Two Day Workshop on "Materials for Energy Conversion and Storage Devices" organized by chemical engineering department, JNTUA, ATP under TEQIP III (27th to 28th Dec, 2019).
- H. Rehana Anjum, S. S. Chandrasekhar, Nivedita Sahu, S. Sridhar, "Microalgae: Sustainable Approach for Treatment of Domestic Waste Water and Industrial Effluents", National Conference on Indo-EU Workshop on Microbial Electrochemical Technologies for Sustainability: Fuels, Chemicals and Remediation, 'metSUS-2017',(28th February, 2017) at CSIR-IICT, Hyderabad.
- H. Rehana Anjum, "Process designing and simulation", Aspen Workshop, 'ChemClave 2012', (9th 11th March, 2012) at IIT Madras, Chennai.
- H. Rehana Anjum, K. G. Souwya, D. Subba Rao, "Application of Nanotechnology in Robotic", A National Techno- Cultural Symposium, 'Techno Smania' 12, (29th -31st March, 2012) at Osmaina University, Hyderabad.
- H. Rehana Anjum, D. Subba Rao, "Conversion of Rate Equation sin Chemical Reaction Engineering", A National Techno- Cultural Symposium, 'Techno Smania' 12, (29th -31st March, 2012) at Osmaina University, Hyderabad.
- H. Rehana Anjum, A National Level Students' symposium, 'Fusion-2K11', (17th September, 2011) at Jawaharlal Nehru Technological University, Anantapur.

Personal Profile

Full Name	: Haldhi Rehana Anjum	
Father's Name	: Haldi Hussain Basha	
Mother's Name	: Haldi Zareen Taj	
Husband's Name	: B Md Arif Basha	
Date of Birth	: 03/04/1991	
Sex	: Female	
Nationality	: Indian	
Marital Status	: Married	
Address	: Door No- 203, KM Towers, KM Colony, Opp JNTU road Anantapur, Andhra Pradesh, India- 515001.	
Phone No	: +91 9000786644	
E-mail ID	: <u>hra714@gmail.com</u> .	

Extra-Curricular Activities

- Photo collection, Video Recording & Report Writing on Lecture Series (IIChE -HRC) on diagnostic testing in a post-covid world enabled by microfluidic technologies. On 3rd June, 2022.
- Assigned as NAAC Departmental coordinator, 2022
- Assigned as NBA Criteria 9 & 10 coordinator, 2022
- ✤ Assembling of Water Purification System
- Maintenance of free drinking water camp located near NGRI Main Road, Uppal, Hyderabad.
- Maintenance of research lab (Lab-5, PFM division, CSIR-IICT, Hyderabad) in all the aspects as a project assistant from 2015-2016.
- ✤ Actively participated three times in blood donation camps.
- Actively participated two times in orphan's home fund collection.

Development of e- Content

Module Developed	Platform	Document link	Video Link
Module -1 Mass Transfer Operations II	Online	https://docs.google.com/presentation/d /1u5GbC8PXcLs2W8DCv_NRNMZ8 83dBV4yN/edit?usp=sharing&ouid=1 17573795844547470349&rtpof=true& sd=true	https://drive.google.com/file/d/1DpRL C1JgaRpmzs_RLM5xQ4os8YHqeuZ w/view?usp=sharing

Contact of the References

1. Dr. A. V. Sesha Sainath

Senior Scientist, Polymers and Functional MaterialsDivision, CSIR-Indian Institute of Chemical Technology, Hyderabad, India-500007. Phone No: +91 9440732018

2. Dr. B. Dilip Kumar

Associate Professor & Head Department of Chemical Engineering J.N.T.U.A. College of Engineering (Autonomous), ANANTHAPURAMU - 515 002, Andhra Pradesh, India. Mob. + 91-9247192692

Declaration

I hereby declare that the above information is correct to the best of my knowledge and belief.

Thanking you,

Place: Anantapur Date: 27/07/2022

H. Rehendery_

(Haldhi Rehana Anjum)