

T. J. Jacklien Emema Rose

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SUMMARY

Pursuing Ph.D in Alagappa College of Technology, Anna University. My research work is focused on wastewater treatment using nanocellulose. I have completed my master degree in First class with distinction. I possess good inspiration and researching skills. I am seeking to establish my research skills for the betterment of the society.

EDUCATIONAL QUALIFICATION

Alagappa College of Technology

2021 – Present

Ph.D Faculty of Technology

Alagappa College of Technology

2018 – 2020

M. Tech Industrial Safety and Hazards Management (**86.4%**)

DMI College of Engineering

2013 – 2017

B. E. Civil Engineering (**73%**)

Assisi Matriculation Higher Secondary School

2013

Higher Secondary Certificate (**71.08%**)

Bethlehem Matriculation Higher Secondary School

2011

Secondary School Leaving Certificate (**88.4%**)

RESEARCH EXPERIENCE

Ph.D. Title (currently working)

Treatment of wastewater using cellulose nanocrystals from agricultural waste and seaweed hydrogel to remove heavy metals and toxicity.

SKILLS

- AUTOCAD
- STAAD PRO V8i
- REVIT
- MS OFFICE
- ETABS
- Communication and leadership

PROJECT EXPERIENCE

- Accident investigation, safety analysis and development of life and fire safety for hospital buildings
 - To analyse accident investigation report of past fire accidents in hospitals with Bowtie accident analysis and information flow-based accident causing model.
 - The safety analysis is done with the help of Computational fluid dynamics and the preventive measures based on the safety analysis is provided.
 - A safe hospital building as per standards with passive fire protective system and active fire protective system for the hospital building is designed.
- Increasing the construction site safety in design phase using BIM.
 - The project is based on identifying the earlier solution of a problem that can reduce the risk level and its consequences.
 - The result provided is reduction of the risk of fall from height by designing the handrails in the design phase of construction and the quantitative details of the materials used.
- Comparative study of Leachate treatment process.
 - The adsorption treatment process is done with the natural adsorbent vetiver and coagulation cum flocculation treatment process is done with alum as coagulant and perlite as accelerator.
 - The comparative study provides adsorption method as effective one.
 - The adsorption treatment process gives the effective result by reducing chemicals present in the leachate water.
 - It is the cost-effective process with easily available natural absorbent vetiver.
- Planning, analysis and design of an airport terminal building.
 - Planning of airport terminal building is done in autocadd software.
 - The analysis and design of airport terminal building is done manually, and cross checked using staadpro software.

SEMINAR AND CONFERENCE

- Participated in one day Virtual National Workshop on “How to improve author citations – Phase II” organized by Department of Chemical Engineering, SSN College of Engineering on 17th June 2022.
- Participated in one day Workshop on “Research Metrics and How to Choose the Right Journals to Read and Publish” conducted by University Library, Anna University on 1st April 2022.

- Presented a poster titled “Wastewater Treatment by Novel Nano Crystals to remove the Toxicity and Heavy Metals“ on 2nd International Conference On Advances In Chemistry With Specific Reference To Catalysis, Sensors, Drug Delivery And Energy Materials conducted by University of Madras during March 28 – 29, 2022.
- Participated in one day international seminar on “Technologies for Energy from Municipal Solid Waste” organised by National Solid Waste Association of India (NSWAI) and Anna University on 19th March 2022.
- Participated in One Day Workshop on Digital Resources for learning Research Methodology: A Researcher's Perspectives organized by Educational Multimedia Research Centre (EMRC), Anna University on 25th Feb 2022.
- Presented an article titled “Treatment of Wastewater by Adsorption Process using Cellulose Nanocrystals from Agricultural Waste to remove the Toxicity and Heavy Metals” on “Sixth International Conference on Recent Advancements in Chemical, Environment and Energy Engineering” conducted by SSN College of Engineering dated 24th Feb 2022.
- Participated in Two days Workshop on “Industrial Act and Safety Practices in Industries” at Alagappa College of Technology, Anna University and Bonfiglioli on 26th and 27th March 2019.
- Participated in one day Seminar on “Construction Safety, Electrical Safety and Auditing” organized by Safety Engineers Associations at Alagappa College of Technology, Anna University held on 16th February 2019.
- Industrial visit to “Chennai Petroleum Cooperation limited”
- Attended a workshop on “ETABS software” at DMI College of Engineering.
- Industrial visit to “Puzhal water treatment plant”
- Participated in Zonal Round of IBCC India in “Foundation Engineering and Analysis” at DMI College of Engineering organized by ARK Technosolutions and Robokart.com in association with CEA Fest 2016, IIT Madras from 20th to 21st August 2015.
- Attended a training program on “Advanced total station” organized by SIT Ladder Survey Institute of Technology at DMI College of Engineering on 28th February 2015.
- Attended a workshop on “IBCC India-Bridge design contest” conducted by ARK Technosolutions at DMI College of Engineering from 22nd to 23rd January 2015 and won 4th winner in zonal level.

INDUSTRIAL EXPERIENCE

- Implant Training in L&T Construction, Chennai Airport from 13th May 2019 to 13th June 2019 in Environmental Health and Safety department.
- Phase 1 project was completed in L&T Construction, Manapakkam, Chennai from 15th July 2019 to 15th November 2019 in Environmental Health and Safety department.
- Phase 2 project was done in L&T Construction, Manapakkam, Chennai from December 2019 to May 2020 in Fire Engineering and Mechanical System (FEMS) under Engineering Design and Research Centre, Building and Factories IC.

CERTIFIED COURSE

- Certificate of Completion of Professional in Building Design at CADD Centre Training Services, Porur, Chennai during the period of September 2016 to May 2017.

AREA OF INTEREST

- Environmental Engineering
- Solid waste Management
- Wastewater Treatment
- Nanotechnology
- Safety in Industries
- Construction Safety

INSTRUMENTS HANDLED

- Gas Chromatography and Mass Spectroscopy (GCMS) (Shimadzu, Japan)
- UV- Spectroscopy (Shimadzu, Japan)
- Dynamic Light Scattering (Litesizer 500)
- Fourier-Transform Infrared Spectroscopy (Perkin-Elmer Spectrum 65, USA)
- Atomic Adsorption Spectrophotometer

REFERENCE

Dr. S. Sivanesan

Professor,

Director of Centre for Sponsored Research and Consultancy,

Alagappa College of Technology,

Anna University,

Chennai-25,

Ph: +91 9444960106

E.mail: sivanesh1963@gmail.com

PERSONAL PROFILE

Father's name : A. Thanka Rose

Mother's name : C. Jancy

Date of birth : 22-07-1996

Language Known : Tamil, English, Malayalam, Hindi

Permanent address: 2/78, Kamaraj road,
Ambedkar Nagar,
Manapakkam,
Chennai-125.

DECLARATION

I hereby declare that the above mentioned particulars are true to the best of my knowledge and belief.

Date:

Place: Chennai

[T. J. Jacklien Emema Rose]