

J. JENSIKA RANI

e-mail: jensika1993@gmail.com

jensikarani@gmail.com

Mobile: 9487618832(India),



ACADEMIC EXPOSURE

- PhD in civil engineering (Jan 2020 – till date)
- M.E. (Structural) from Ponjesly College of Engineering affiliated with Anna University, Chennai (Secured 82.2%) May 2017.
- B.E. (Civil) from Vins Christian Women's College of Engineering affiliated with Anna University, Chennai (Secured 73.2%) April 2015.
- HSC from Velammal Matric. Hr. Sec. School, Chennai (Secured 72%) March 2011.
- SSLC from Velammal Matric. Hr. Sec. School, Chennai (Secured 76%) April 2009.

WORK EXPOSURE

Working as **SENIOR LECTURER** at **GEMS Polytechnic College** from 21.07.2023 to till date.

Worked as **ASSISTANT PROFESSOR** at **Karunya Institute of Technology and Science** from 30.07.2022 to 12.05.2023.

Working as a **RESEARCH SCHOLAR** at **Karunya Institute of Technology and Science** from 06.01.2020 to till date.

Worked as **TEACHING RESEARCH ASSISTANT** at **Karunya Institute of Technology and Science** from 09.07.2021 to 29.07.2022.

Worked as **ASSISTANT PROFESSOR** at **Loyola Institute of Technology and Science** from 25.06.2018 to 09.02.2019.

Worked as **ASSISTANT PROFESSOR** at **St. Joseph College of Engineering** from 19.06.2017 to 28.03.2018.

HANDLED SUBJECTS	HANDLED LABORATORY	POSITION HELD
Structural Dynamics and Earthquake Engineering (SDEE)	Soil Mechanics Laboratory	Exam Cell Coordinator
Design of Reinforced Concrete Elements(DRCE)	Environmental Engineering Laboratory	Department Timetable Coordinator
Railway Airport and Harbour Engineering(RAHE)	Concrete and Highway Engineering Laboratory	Hostel Cultural Coordinator
Construction Materials(CM)	Computer-Aided Design and Drafting Laboratory	Class Advisor and mentor
Soil Mechanics(SM)	Field Practice laboratory – Green technology	Program Officer for the Non-academic club, the Dramatics club
Concrete Technology(CT)	Concrete and Quality Control Laboratory	Disciplinary Committee Coordinator
Water Resources and Irrigation Engineering(WRIE)	Material testing and evaluation laboratory	Department Spiritual Coordinator
Foundation Engineering(FE)	Geotechnical Engineering Laboratory	Training and Placement Cell Coordinator
Green buildings	3Ds max Laboratory	Industry Liaison Officer

Green design and life cycle assessment	Mechanics of Material Laboratory	Senior Resident Advisor (SRA)
Repair and Rehabilitation of structures		NBA Assistance
Sustainable Building Materials		NAAC Assistance
Design of Substructures		NIRF Assistance
Building Planning and Drawing		
Precast and Prefabricated Structures		
Mechanics of Materials		

MEMBERSHIP BODIES:

- Lifetime Member of “**THE AMERICAN SOCIETY OF CIVIL ENGINEERS**” ID: **12323110**
- Lifetime Member of “**THE INDIAN SOCIETY FOR TECHNICAL EDUCATION**” ID: **138375**

ADDITIONAL QUALIFICATION

- Certified in “**AUTOCAD & 3Ds MAX**” offered by “**C-DAC, GIST**”, Chennai.

SOFTWARE KNOWN:

- ANSYS
- AutoCAD
- STAAD.Pro
- 3Ds max

ACADEMIC & PROFESSIONAL ACHIEVEMENTS

- Paper published on the topic **A CASE STUDY ON THE ANALYSIS OF ESTIMATION AND COSTING OF THE CONSTRUCTION OF SLAB CULVERT** in the journal **IJCSNT-2023**
- Paper published on the topic **A CONSTRUCTIVE ANALYSIS ON TOPOLOGY OPTIMIZATION OF STRUCTURAL BEAM ELEMENT USING DIFFERENT SUPPORT CONDITION** in the virtual conference **NCSMSP – 2022 (Scopus Indexed)**
- Paper published on the topic **NANO SILICA PARTICLES AS A STRUCTURAL BUILD UP AGENT FOR 3D PRINTING CEMENT PASTE WITH ADDITIONAL ACCELERATORS** in the virtual conference **NCSMSP – 2021 (Scopus Indexed)**
- Paper published on the topic **A CASE STUDY ON THE ANALYSIS AND DESIGN OF A MULTI-STOREY RESIDENTIAL BUILDING** in the journal **IJCSNT-2021**
- Paper published on the topic **A CASE STUDY ON THE ACCIDENT PREVENTION ROAD IN HILLY Terrain** in the journal **IJCSNT-2021**
- Paper published on the topic **A THEORETICAL STUDY ON THE TRADITIONAL CONCRETE MIX DESIGN METHOD** in the journal **IJCSNT-2021**
- Paper published on the topic **A DETAILED STUDY ON THE ALTERNATIVE METHOD ADOPTED FOR TOILET CONSTRUCTION** in the journal **IJCSNT-2021**
- Paper published on the topic **AN EXPERIMENTAL INVESTIGATION OF THE PAVER BLOCK MODEL USING THE RECYCLE PLASTIC WASTE** in the journal **IJCSNT-2021**
- Paper presented on the topic **EXPERIMENTAL INVESTIGATION ON THE STRUCTURAL MEMBER MADE OF GRANITE BAMBOO REINFORCED CONCRETE** in the conference **NCACE’17** at **VV College of Engineering**.
- Paper presented on the topic **EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF SAND BY GRANITE POWDER AND REMAIN CONSTANT REPLACEMENT OF CEMENT BY FLY-ASH** in the conference **ICETCCCCT’16** at **Arunachala College of Engineering for Women**.
- Paper presented and won the best paper on the topic **SEISMIC DISASTER AND MITIGATION** in **ESTRIBOS 2K14** at **DMI Engineering College** and **CRETOSOT’14** at **CSI Institute of Technology**

- Paper presented on the topic EARTHQUAKE ENGINEERING in ACCESS'15 at Satyam College of Engineering and ROCKFEST – 2K14 at PSN College of Engineering.
- Paper presented on SMART STRUCTURES AND MATERIALS in TRELIS – 2014 at Arunachala College of Engineering for Women.
- Paper presented on MODERN TECHNOLOGY OF SOIL STABILIZATION in CIME Tech Excellencia'13 at VV College of Engineering.

TRAINING UNDERGONE

- ✓ Attended an FDP on “eSim” organized by GEMS Polytechnic College associated with IIT Bombay, Spoken Tutorial on 06.11.2023 – 10.11.2023.
- ✓ Attended an FDP on “QCAD” organized by GEMS Polytechnic College associated with IIT Bombay, Spoken Tutorial on 06.11.2023 – 10.11.2023.
- ✓ Attended an FDP on “Python 3.4.3” organized by GEMS Polytechnic College associated with IIT Bombay, Spoken Tutorial on 06.11.2023 – 10.11.2023.
- ✓ Attended an FDP on “Blender” organized by GEMS Polytechnic College associated with IIT Bombay, Spoken Tutorial on 06.11.2023 – 10.11.2023.
- ✓ Attended an FDP on “Arduino” organized by GEMS Polytechnic College associated with IIT Bombay, Spoken Tutorial on 06.11.2023 – 10.11.2023.
- ✓ Attended a National Webinar on “Enhancing the service of RCC structures by an active technique” organized by Akshaya College of Engineering and Technology on 06.11.2023.
- ✓ Attended an FDP on “Sustainable Repair and Rehabilitation of Constructed Facilities” organized by Vellore Institute of Technology on 06.03.2023 – 10.03.2023.
- ✓ Attended IP Awareness/Training program on “National Intellectual Property Awareness Mission” organized by the Intellectual Property Office, Government of India on 12.02.2022.
- ✓ Attended a Webinar on “New Norm of Teaching” organized by Karunya Institute of Technology and Science on 28.05.2021.
- ✓ Attended an International workshop on “Mendeley: The Reference Manager” organized by Manuscriptpedia on 23.10.2020 – 24.10.2020.
- ✓ Attended an International workshop on “Plagiarism and Academic Integrity: Problems and Solutions” organized by Manuscriptpedia on 09.10.2020 – 10.10.2020.
- ✓ Attended a Webinar on “Seismic Principles and Design” organized by Loyola Institute of Technology and Science on 11.08.2020.
- ✓ Attended an International Webinar on “Pile Foundation and Testing” organized by Ashoka Institute of Engineering and Technology on 27.07.2020.
- ✓ Attended Webinar on “Sustainable Building and Rating” organized by SCAD Polytechnic College on 08.07.2020.

INDUSTRIAL EXPOSURE

- ✓ Undergone internship on “Program on MATLAB” at Pantech Solution associated with IETE Mumbai
- ✓ Undergone in-plant training under “CONSTRUCTION OF APARTMENT BUILDING” at various places at GLARET CONSTRUCTIONS.
- ✓ Undergone in-plant training under “TUTORIAL OF CIVIL SOFTWARES” at UNIQ TECHNOLOGIES.
- ✓ Undergone in-plant training under “GEOGRAPHICAL INFORMATION SYSTEM” at PUBLIC WORK DEPARTMENT.

Involvement in Community Projects

- ✓ Consultant for planning and execution of Angel Community Hall, Karunya Welfare Society, Coimbatore.

PROJECT DETAILS

- PhD:** TOPOLOGY OPTIMIZATION OF STRUCTURAL ELEMENTS.
 - POSTGRADUATE:** EXPERIMENTAL INVESTIGATION ON STRUCTURAL ELEMENT MADE OF GRANITE BAMBOO REINFORCED CONCRETE.
 - UNDERGRADUATE:** EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF CEMENT WITH PAPER SLUDGE ASH.
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PERSONAL DETAILS

DOB : 15 November 1993
Nationality : Indian
Total Experience : 4 Years
Marital Status : Divorced with Kid

DECLARATION

I, Jensika Rani J hereby declares that all the above-mentioned details are true to my conscience.

PLACE: Nagercoil

(J. JENSIKA RANI)