



**Dr. C. REEDA LENUS**  
M.Sc., B.Ed., M.Phil., PGDCSA., Ph.D  
reedaraja@gmail.com  
Mobile +919994841401

## **SUMMARY**

Dedicated and dynamic academic professional with a Ph.D. in Physics and a passion for teaching, research and mentorship. Possessing over 15 years of experience in higher education, I have a proven record of delivering lectures, designing and fostering a collaborative learning environment. Committed to student success, I aim to inspire and empower learners to reach their full potential.

## **OBJECTIVE**

Seeking a position to utilize my skills and abilities in an institution that offers professional growth while allowing me to be resourceful, innovative and hardworking.

## **ACADEMIC PROFILE**

<b>Course</b>	<b>Institution</b>	<b>University</b>	<b>Year of Passing</b>	<b>% of Marks</b>
SSLC	St.Joseph's High School, Saral	Tamil Nadu State Board	1988	85%
HSC	St.Joseph's Convent Girls HSS, Nagercoil	Tamil Nadu State Board	1990	80%
B.Sc (Physics)	Holy Cross College, Nagercoil	Manonmaniam Sundaranar University	1993	86%
M.Sc (Physics)	Holy Cross College, Nagercoil	Manonmaniam Sundaranar University	1995	65%
M.Phil (Physics)	St.Joseph's College, Trichy	Bharathidasan University	1999	78%
PGDCSA	St.Joseph's College, Trichy	Bharathidasan University	2001	74%
Ph.D	Karunya Institute of Technology & Sciences, Coimbatore	Karunya Deemed to be University	2023	Completed

## **SPECIAL AWARD**

St.Joseph's College Management Medal for outstanding academic performance -  
M.Phil (Physics)

## **TEACHING EXPERIENCE**

- ❖ Working as Assistant Professor in S.A.Engineering College, Chennai, (2024-Till date)
- ❖ Worked as Assistant Professor in Infant Jesus College of Arts and Science for Women, Nagercoil, (2019-2022)
- ❖ Worked as Assistant Professor in Soka Ikeda College of Arts and Science for Women, Chennai, (2016-2019)
- ❖ Worked as Assistant Professor in Arunachala College of Engineering for Women, Nagercoil, (2012-2016)
- ❖ Worked as Assistant Professor in Panimalar Polytechnic College, Chennai (2007-2012)
- ❖ Worked as Lecturer in SCAD College of Engineering and Technology, Tirunelveli (2004-2005)

## **CONFERENCES / SEMINARS ATTENDED:**

- Participated in the International Conference on “Advanced materials”, held on 26/8/2019 organized by Aditanar College of Arts and Science, Tiruchendur.
- Participated in the International Conference on “Technologically Advanced Materials”, held on 06/09/2019 organized by Muslim Arts College, Thiruvithancode.
- Participated in the webinar on “Advances in Materials Science”, held on 29.5.2020 organized by Ethiraj College for Women, Chennai.
- Participated in the webinar “Graphene based Nanocomposites for Energy Storage”, held on 01.06.2020 organized by, V.O.Chidambaram College, Thoothukudi.
- Participated in the International Webinar on “Recent Advances in Materials Science & Nanotechnology” organized by BIT, Sathyamangalam from 4.6.2020 to 6.6.2020.
- Participated in the webinar on “High Electron Mobility Transistor for Microwave and Power Electronic Applications”, held on 9.6.2020 organized by Rohini College of Engineering & Technology, Palkulam.
- Participated in the webinar “Recent Trends in Advanced Material Science”, held on 19.6.2020 organized by American College, Madurai.
- Attended the National level webinar on “Nano-Photonics”, held on 23.06.2020 organized by Madonna Arts & Science College for Women, Madurai.
- Participated in the International Webinar on “Basics of IR and Raman Spectroscopy”, organized by Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 24.6.2020.

**WORKSHOP/ FDP ATTENDED:**

Sl.No	Title	Name of the Institution	Date
1	Workshop on Physical Ultrasonics	St.Joseph's College, Trichy	27/01/98
2	ICT Literacy Initiation Camp for Teacher Educators	Sri Ramakrishna Mission Vidyalaya College of Education, Coimbatore	10/11/01
3	ISO 9001:2015 Internal Quality Auditor Training Programme	Soka Ikeda College of Arts and Science for Women, Chennai	15/07/17
4	First Aid, Fire and Chemical Safety- Training Programme	Soka Ikeda College of Arts and Science for Women, Chennai	27/10/17
5	FDP on Solid State Physics	University of Madras, Chennai	26/5/2020 - 30/5/2020
6	FDP on Recent Trends and Challenges in Advanced Physics	Nanjil Catholic College of Arts and Science, Kaliyakkavilai.	4/6/2020 - 6/6/2020
7	FDP on Application of New Materials in Emerging Field	Sathyabama Institute of Science and Technology, Chennai	24/6/2020 - 30/6/2020
8	FDP on Teaching- Learning with the Integration of ICT	Holy Cross College, Nagercoil	1/7/2020 - 8/7/2020
9	FDP on Digital Skills for Enhanced Teaching and Learning	Government Arts College, Nandanam	13/7/2020 - 17/7/2020

**MEMBERSHIP:**

1. Professional member in Institute for Educational Research and Publication (IFERP).  
ID : PROF-47145078
2. Life member in Indian Society for Technical Education (ISTE). ID : LM 140595

**RESEARCH AREA:**

Semiconductor Device Modeling and Simulation

**RESEARCH TOPIC:**

Modeling and Simulation of Tunnel Field Effect Transistors for Analog Applications.

## **RESEARCH CONTRIBUTIONS:**

- Developed novel simulation methodologies to accurately model TFET devices under various operating conditions, contributing to advancements in device design and optimization.
- Collaborated with interdisciplinary teams to integrate TFET models into circuit-level simulations and evaluate their impact on overall system performance, fostering interdisciplinary research collaboration and knowledge exchange.
- Published research findings in peer-reviewed journals and presented at conferences, showcasing contributions to the TFET research community and disseminating knowledge in the field.

## **LIST OF PUBLICATIONS**

### **JOURNALS**

1. **Reeda Lenus, C.,**Haris,M., and Sheeja Herobin Rani,C.(2023). Drain Charge Technique in TFET for Analog Transconductor Application. Silicon, 15 (6),2613-2629. <https://doi.org/10.1007/s12633-022-02161-0>.

Impact Factor: 2.941

2. **Reeda Lenus,C.,**Haris, M.,and Sheeja Herobin Rani,C., Samuel, T.S., and Ajayan, J.(2023). A Non-Linear Circuit Model for Silicon Tunnel Field Effect Transistors. Journal of Electronic Materials, 52 (7), 4971-4978.

<https://doi.org/10.1007/s11664-023-10447-1>.

Impact Factor: 2.047

3.**Reeda Lenus,C.,**Haris,M.,and Sheeja Herobin Rani,C., Recent and Old Developments in Tunnel Field Effect Transistor, International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 9 Issue 12, pp. 74-83, May-June 2022.

4. **Reeda Lenus,C.,**Haris,M.,and Sheeja Herobin Rani,C., Improving the Performance in Tunnel FET Using Novel Barrier Lowering Technique,Malaysian Multidisciplinary Journal,Volume – 1, Issue – 6 : December – 2022

## **CONFERENCES:**

- Presented a paper entitled “Improving the Performance in Tunnel FET using Novel Barrier Lowering Technique” in the International Conference on “Emerging Trends in Information and Communication Technologies” organized by Sethu Institute of Technology, Pulloor, Virudhunagar District and International Federation of Interdisciplinary Research and Issuance held during 28th and 29th May, 2022.
- Presented a paper entitled “Recent and Old Developments in Tunnel Field Effect Transistor” in the Third International Conference on “Materials, Computing and Communication Technologies” organized by Annai Vailankanni College of Engineering, AVK Nagar, Kanyakumari District on June 20, 2022.

## **PERSONAL INFORMATION**

Name : Dr.C.REEDA LENUS  
Date of birth : 23/07/1973  
Gender : Female  
Nationality : Indian  
Marital status : Married  
Address for communication : No 9262, TNHB, Ayapakkam  
Chennai – 600 077  
E Mail : [reedaraja@gmail.com](mailto:reedaraja@gmail.com)  
Mobile : +919994841401  
Educational qualification : M.Sc., B.Ed., M.Phil., PGDCSA, Ph.D

## **DECLARATION**

I hereby declare that the above furnished details are true to the best of my knowledge.

C.REEDA LENUS