

## PROFILE



**Name** : A. JACQUILINE REGINA MARY  
**Designation** : Head & Associate professor  
**Department** : Physics  
**Date of Birth** : 07.01.1966  
**Date of Appointment** : 11.07.1991

### CONTACT DETAILS

**Present Address** : "Rani Cottage", 3<sup>rd</sup> street,

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Periyakulam -625601

**Permanent Address:** 35/64, Sasthri Nagar, Third Street,

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### Academic Qualification

S. No.	Degree	University / Instituion	Year of Completion
1.	B.Sc.	Bharathidasan University, Trichirapalli	1986
2.	M.Sc.	Bharathidasan University, Trichirapalli	1988
3.	PGDCA	Madurai Kamaraj University, Madurai	1994
4.	M.Phil.	Mother Teresa Women's University, Kodaikanal	2006
5	Ph.D	The Gandhigram Rural Institute-Deemed to be University, Gandhigram	2018

**Total Experience :**

UG : 28 Years

PG : 14 Years

M. Phil: 2 Years

**Professional Affiliation :**

Member of Editorial board of  
Silver Jubilee Souvenir (1995 - 1996)  
Member of Women's cell (1997 - 1998)  
Member of Christ Jeyanthi AIACHE (1999 - 2000)  
Coordinator for Current events club (2000 - 2002)  
Member of Fine Arts committee (2003 - 2005)  
Coordinator for Consumer club (2008 - 2012)  
NSS Program officer (2012-2015)  
Chief Editor of College Magazine (2012 & 2019)

Area of Specialization: Thin film solar cell.

**Paper Presentation:**

1. "Low complexity method for hiding fingerprint in images" in the National Conference, Sathyabama University, Chennai, February 2013.
2. "Impact of computer simulation in learning science" at the international convention Consortium for Educational Communication (CEC), UGC, New Delhi, February 2012.
3. "Role of computer simulation in learning Physics" at the 11<sup>th</sup> National Science Congress, Gandhigram Rural Institute - Deemed University, Gandhigram, June 2011.
4. "Effect of substrate temperature on Zinc oxide thin films prepared by spray pyrolysis" at the international conference ,Gandhigram Rural Institute - Deemed University, Gandhigram, December 2015
5. "Preparation and characterization of Zinc oxide thin films" Advances in Material Science (NCAMS), MVM College, Dindigul, February 2016.
6. "Preparation of Zinc oxide thin films by spray pyrolysis" Recent Trends in Physics and Material Research, J.A College, Periyakulam, February 2016.

7. "Structural, morphological and optical studies on molarity based Zinc oxide thin films by spray pyrolysis" Nanoscience and Nanotechnology for Energy Applications (EAPP-2016) , Sathyabama University, Chennai, June 2016.
8. "Parametric variations of Zinc oxide thin films by spray pyrolysis" Advanced Materials-2016, St.Joseph's college, Trichy , October 2016.
9. "Preparation and characterization of ZnO thin films for solar cells application: The effect of substrate to Nozzle distance", Renewable Energy and Environment (ICREE-2016), Sri Ramakrishna Mission Vidhyalaya, Coimbatore , December 2016.
10. "Effect of Lithium doped ZnO thin films on the optical and electrical properties" Nanoscience and Nanotechnologies in the Livelihood Enhancement of common Man, Arul Anadhar college, Karumathur, February 2017.
11. "Dielectric properties of spray deposited ZnO films " at Jayaraj Annapackiam college for women, Periyakulam , February 2017.
12. "Electrical and optical studies on spray deposited Aluminum doped Zinc oxide thin films", Department of Chemistry, Gandhigram Rural Institute-DU, Gandhigram, March 2017.
13. "Indium doped Zinc oxide films : Effect on structural, optical and Electrical properties" , Mother Teresa Women's University , Kodaikannal, July 2017
14. "Fabrication of aluminum doped ZnO thin films as Transparent electrode ", SRM University, Chennai, July 2017.
15. "Chitosan and ZnO doped chitosan nanoparticles as antibacterial agents" ,K.LN college , Tiruchengode, January 2018
16. "Realization and Characterization of Antimony doped n-ZnO/p-Si Solar Cells by Spray Pyrolysis " ICENES,Gandhigram Rural Institute-DU, Gandhigram,January 2019

## **Publications**

1. A.Jacquiline Regina Mary and S.Arumugam , "Influence of Substrate temperature on ZnO Thin Film deposition by Spray Pyrolysis Technique" International Journal of Scientific Research, Vo. 5 Issue 7, July 2016, ISSN No.2277-8179.

2. A.Jacquiline Regina Mary and S.Arumugam,"Structural and Optical Studies of Molarity Based ZnO thin Films", Nano Hybrids and Composites, Vol.17, pp.140-148, 2017.
3. A.Jacquiline Regina Mary and S.Arumugam, "Indium doped Zinc oxide thin films: Effect on structural, optical and electrical characteristics" International Research Journal of Engineering and Technology, Vol .04, Sep 2017, p-ISSN: 2395-0072.
4. A.Jacquiline Regina Mary and S.Arumugam, "Synthesis and characterization of Cu-ZnO thin films by spray pyrolysis", ROOTS International journal of multidisciplinary, Vol 04, special issue 1, Dec 2017, ISSN: 2349-8684.

### **Papers presented abroad:**

1. "Cu-ZnO thin films as an absorber layer for thin film solar cell" at an international conference held at Singapore.
2. "Fabrication of n-ZnO/ p-CuO Heterojunction thin film solar cell by spray deposition" at an international conference on Innovative applied research (IAPE'19), Oxford University, London, United Kingdom.

### **Seminars/Conference/Workshops Participated (Last five Years) – 22**

#### **Memberships:**

Board of studies JAC  
Academic council  
Disciplinary committee  
Planning and Evaluation committee  
Examination and Awards committee

\*Life member of Indian Association of Physics Teachers

#### **Membership in Board of Examiners:**

1. M.V.Muthiah Arts & Science College, Dindigul,
2. Adichunchinagiri College, Cumbum,
3. Government Arts College, Nilakkotai.

4. Nadar Sarswathi College, Theni
5. Fatima College, Madurai
6. Arulmigu Palaniandavar College for Women, Palani

**Guest Lectures and Invited talks:**

1. M.V.Muthiah Arts & Science College, Dindigul,
2. Adichunchinagiri College Cumbum,
3. PVP College, Singarakottai
4. Government Arts college, Nilakkotai.
5. Judge for the programme “□□□□□□□□ □□ □□□□□□” organized by Puthiya Thalaimurai and Velammal School, Theni

\* Reviewer for the journal Materials today.

**International Visits:**

Singapore, Dubai, France and England.