FACULTY PROFILE

Name of the Staff	: Dr. A. Panimaya Valan Rakkini
Official Address with E-mail Id	:Assistant Professor/Physics Department of Science and Humanities National Engineering College, K.R Nagar, Kovilpatti.
	saviolaura74@gmail.com
Mobile Number	: 9994572357
1. Personal Details: Age	: 46 years
Date of Birth	: 14/08/1974
Sex & Marital Status	: Female/Unmarried
Citizenship	: Indian
Qualification	: M.Sc., B.Ed., M.Phil., Ph.D
Area of Specialization	: Thin Films

Degree	Programme and Specialisation	Class/CGP A	Month and Year of passing	Institute/ University
U.G	B.Sc. Physics	First	April 1995	St. Mary's College/M.S University
P.G	M.Sc. Physics	First	April 1997	Department of Physics/ M.S University
	M.Phil. Physics	First	Nov. 2006	DDCE/ M.S University
Doctoral	Ph.D Physics/Thin films	-	May 2018	M.S. University
Others	B.Ed./Physical Science	First	April 1999	St. Ignatius' College of Education/ M.S University

Date of joining: 02/07/2018

Present status: Assistant Professor

Professional Experience: 13 years

Designation	Institution/Organisation	Period	Nature Duties
Assistant Professor	National Engg. College, Kovilpatti	02/07/2018 - till date	Teaching
Assistant	Francis Xavier Engineering	01/06/2007	Teaching
Professor	0 0		Teaching
Lecturer	St. Ignatius' College of	01/09/2003	Teaching

	Education, Palayamkottai	_	
		31/10/2003	
	Dogo Morry Model School	04/06/1999	
P.G Assistant	Rose Mary Model School,	—	Teaching
	Palayamkottai	05/06/2001	

Courses taught:

Course Title	UG or PG
Engineering Physics I and II, Physics Laboratory I & II, Semiconductor	
Physics, Semiconductor Physics Lab, Electromagnetic Theory, Electromagnetics Lab, Physics for Civil Engg	UG
Election agnetics Lab, Physics for Civil Eligg	

Short term Courses / Seminars / Conference/ Workshops Attended:

S.No	Title	Period	No of Participants	Venue
1	International Conference on Materials for the Millenium – MATCON 2019	14 th -16 th March 2019	300	Cochin University of Science and Technology (CUSAT) - Kochi
2	Summer Internship Programme on Nanotechnology	15 th -17 th June 2016	40	Dept of Nanoscience and Nanotechnology, Sri Ramakrishna Engg. College, CBE
3	International conference on 'Recent Trends in Advanced Materials'(ICRAM)	$20^{\text{th}} - 22^{\text{nd}}$ Feb 2012	300	VIT Vellore
4	International Conference on Advanced Materials (ICAM 2012)	5 th -7 th Jan 2012	200	Dept. Of Physics, Loyola College, Chennai
5	AICTE-STTP on 'Recent Trends in Atmospheric Sciences'	$16^{\text{th}} - 22^{\text{nd}}$ Aug 2008	35	Dept. Of Physics, IIT Madras
6	One day National Workshop on 'Nanomaterials-Synthesis Characteisation and Applications'	29 th Aug 2007	75	Mepco Schlenk Engg College, Sivakasi
7	National Seminar on 'Advances in Materials Science'	27 th , 28 th Mar.2006	100	Dept. Of Physics, M.S.University Tvl
8	State level Seminar on 'Expectations'	12 th , 13 th Aug 2003	150	St. Ignatius' College of Education, Palayamkottai
9	3 rd National Workshop on 'Nuclear Structure Physics'	29 th Jan – 2 nd Feb 1996	150	Inter University Consortium for DAE facilities Calcutta Centre (IUC-DAEF)& M.S University

Expert Lecture Delivered: 1

ŝ	S.No	Title	Venue	Date	Participants
	1.	Leacture on 'PHOTONICS'	NEC	28/11/2018	LAPC Physics Faculty members- Kovilpatti

Webinars Attended:

S.No	Title	Date
1.	Research Outcomes: Technical paper writing, Research proposal, Patent Filling-Dr. Ch. Hima Bindhu -Conducted by Data Teach.ai	22/04/2020
2.	Webinar Series – Saurashtra University –Rajkot- Gujarat	0.5 /0.5 /0.000
	 Materials for New Technology-Prof. D.G. Kuberkar 	05/05/2020 06/05/2020
	2. Space Science for us - Prof. Hari Om Vats	07/05/2020
	 Plasma and its Applications - Dr. Mukesh Ranjan 	08/05/2020
	4. Computational Software for Physicists and Engineers.	
3.	Education Uninterrupted –Career Launcher Edn Foundation (AP)	
	 Online Learning & Analytics- Amit Mahensaria 	08/05/2020
	2. Aspiration.ai Platform- Gautam Bawa	
	3. Cloud Labs as a service- Venkatesh Perumal	
4.	Simulink an Overview - Conducted by Data Teach Labs	25/06/2020 - 30/06/2020
5.	Kesterite Solar Cell – Basics and Design – International Webinar, St. Aloysius College Edathua Kerala	27/06/2020
6.	Semiconductor Science and Technology – East West College of Engineering - Bangalore	13/08/2020
7.	Use of LMS, Virtual Teaching and OBS software for Engineering Colleges - Faculty Development Programme- Vmedulife Software Services	20/08/2020

8.	Course on MATLAB Masters - Data Teach Labs	12/10/2020 -11/11/2020
9.	"Industry - Institute Interaction Webinar On Optical and Electrical Modelling Software for Semiconductor Devices (OEMSSD - 2020)" – Bharathiyar University -Coimbatore	15/12/2020
10.	FDP - Research proposal: Writing and Opportunities-Government College of Technology, Coimbatore	06/01/2021-08/01/2021
11.	National Webinar on NEP 2020: Vision to Action – IIIT –Kalyani West Bengal	13/05/2021
12.	National Level FDP on Advance Topics in Physics – Marian Star Centre Dept of Physics St. Mary's College (Autonomous) Tuticorin sponsored by Dept of Biotechnology Ministry of Sci & Tech Govt of India.	12/07/2021 -17/07/2021

Research Achievements:

Publications:

Journal publications:

International Journal Publications

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year
1	"Effect of different combinations of precursors of zirconium and selenium in the electrodeposited ZrSe ₂ thin films" <i>A. Panimaya</i> <i>Valan Rakkini and K. Mohanraj</i>	Ionics [I.F 2.289)	Vol. 24, Iss.4, pp1243-1252	April 2018
2	"Influence of pH of the electrolyte on the formation and properties of electrodeposited ZrSe ₂ thin films" <i>A. Panimaya</i> <i>Valan Rakkini and K. Mohanraj</i>	Inorganic Nano metal Chemistry (IF 1.63)	DOI: 10.1080/2470 1556.2021.19 13420	April 2021

International Conference Publications

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1.	"Effect of deposition potential on Composition and Morphology of ZrSe ₂ thin films electrosynthesized from different	International Conference on Materials for the Millenium	Cochin University of Science and Technology	14 th -16 th March 2019

	cation precursors"		(CUSAT) - Kochi	
2.	"Study of concentration effect of complexing agent on electrodeposited ZrSe ₂ thin films" - A. Panimaya Valan Rakkini and K. Mohanraj,	International Workshop on Advanced Functional Materials and Devices IWAFMD 2017	Dept. of Physics, Manonmaniam Sundaranar University Tirunelveli.	8-12 January 2017

National Conference Publications

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	"Effect of annealing on the photosensitivity of ZrSe2 thin films electrodeposited from different cation sources" - A.Panimaya Valan Rakkini and K. Mohanraj,	4th National Seminar on Technologically Important Crystalline and amorphous Solids (TICAS- 2018)	Kalasalingam Acadamy of Research and Education, Krishnankoil, Srivilliputtur	2nd and 3rd March 2018
2	"Morphological and optical studies on ZrSe ₂ thin films electrodeposited from different cation sources" - A.Panimaya Valan Rakkini and K. Mohanraj,	National Conference on Processing and Fabrication of Advanced Materials 2018 (NCPFAM 2018)	Department of Physics, Indian Association for Crystal Growth at SSN college of Engg, Chennai	1st and 2nd March 2018
3	"The effect of pH variation on the structural and optical properties of electrodeposited ZrSe ₂ thin films" - A. Panimaya Valan Rakkini and K. Mohanraj, Awarded as best poster	National Seminar on Advances in Materials Science NSAMS 2017;	Dept. of Physics, Manonmania m Sundaranar University Tirunelveli.	2&3 March 2017

Honors / Awards: -

Academic Achievements

Short term Courses / Seminars / Conference/ Workshops/ Webinars organised:

S.No	Title	Period	No of Participants	Venue
	'Understanding of Solar PV Value	07/08/2020	140	G-meet
1.	Chain and Advancement in Solar PV Technologies and Business			

	Opportunities'. – Dr. C.V. Kannan, Head Technology- R &D &			
	Product Development, Adani Solar,			
	Mundra, Gujarat			
. 2.	Karka Kasadara- Empowering You for Better Learning"- Dr. S.S.SRINITHI, Consultant Psychologist, SANMIRA Centre for Psychological Interventions, Tirunelveli	07/10/2020	342	G-meet & YouTube

Additional Responsibilities held :

- 1. Time Table in- charge(2019-2020 Even Sem onwards till date);
- 2. Physics Lab –in Charge (2019-2020 onwards till date)