FACULTY PROFILE

1. Name	:Dr.P.NishaSanthakumari
2. Designation	:Associate Professor & Head
3. Qualification	:M.Sc. M.Phil. Ph.d
4. Mobile number	:94438 64950
5. E-mail id	: nishas@auxiliumcollege.edu.in
6. Teaching Experience	: 38 years
7. Area of specialization	: Crystal Growth

8. Positions held in Auxilium:

- Head of the department from 2000 to till date
- NSS Program officer for 2 years from 1987-1989
- Academic council member, Auxilium College from 2008 to till date
- Additional controller of examinations, Auxilium College from 2009 to 2011.

:

- Dean of Sciences, Auxilium College from 2011 to 2013.
- Governing body member, Auxilium College from 2021 to till date

9.. Research Experience and Guidance :

- 10. Projects Completed / Ongoing :
- 11. No. of Papers Published : 11

12. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences : 6

13. No. of Seminars/Workshops/Conferences/Webinars organized: 10

- 14. No. of Books Published/Edited/Co-edited:
- 15. Membership in professional bodies (Descriptive):
 - Board of studies member, UG Physics, Thiruvalluvar university from 2011 to 2013
 - Board of studies member, Department of Physics, DKM College for Women from 2019 to till date

- External expert, Faculty interview panel, VIT University on 27th March 2015.
- Management nominee, Faculty interview committee, Department of Physics, D.K.M College for Women, Vellore on 14/3/2016.
- 16. Other bodies (Descriptive)
- 17. Honors& awards received (Descriptive):
 - Appreciation award by Indian SpectroPhysics Association (ISPA), Chennai for organizing conferences periodically with publication of proceedings
- 18. No. of Online Courses completed (Minimum of 4 Weeks) -.....

19. Any Other (Descriptive):

- Delivered a talk in the International conference on 'Materials processing and applications' held at VIT University during Dec 14-16, 2016.
- Chaired the Poster session in the State level Technical seminar on 'Advanced Materials and Applications' organized by PG and Research department of Physics, Voorhees College on 6/3/2017
- Served as a resource person and gave a lecture in the Virtual Lecture series organised by Little Flower Degree college, Uppal, Hyderabad from 26-31/8/2020 for one day on 27/8/2020.

PUBLICATIONS : Publications in Journals

- Study of optimum growth condition and characterization of zinc mercury thiocyanate (ZMTC) single crystals in silica gel.
 P. NishaSanthaKumari, S. Kalainathan and N. ArunaiNambi Raj Materials Research Bulletin,ISSN 0025-5408, 2007, Vol. 42, Pg. 2099-2106.
- Study of optimum growth conditions of Zinc cadmium thiocyanate (ZCTC) single crystals in silica gel.
 P. NishaSanthaKumari, S. Kalainathan and N. ArunaiNambi Raj Materials letters, ISSN 0167577X, 2007, Vol 61, Pg. 4423-4425.
- 3] Study of crystalline perfection and thermal analysis of Zinc cadmium thiocyanate singlecrystals grown in silica gel *P. NishaSanthaKumari, S. Kalainathan and N. Bhagavannarayana Cryst.Res.Technol. ISSN 0232-1300, 2008, Vol. 43, Pg. 276-281.*
- Vickers microhardness studies on cadmium mercury thiocyanate single crystals grown in silica gel.
 P. NishaSanthaKumari, S. Kalainathan and N. ArunaiNambi Raj Materials Letters, ISSN 0167577X, 2008, Vol. 62, Pg. 305-308.
- 5] Characterization of lead (II) chloride single crystals grown in silica gel.

P. NishaSanthaKumari and S. Kalainathan Cryst.Res. Technol. ISSN0232-1300, 2008, Vol. 43, Pg.413-416.

- 6] Comparative study of pure and Magnesium doped cadmium mercury thiocyanate single crystals Gel technique.
 P. NishaSanthaKumari and S. Kalainathan Journal of minerals and materials characterization and engineering ISSN2327-4085, 2008, Vol.7, Pg. 317-330.
- 7] Comparative study of pure and alkaline earth metallic doped cadmium mercury thiocyanate single crystals- Gel technique. S. Kalainathan and P. NishaSanthaKumari SpectrochimicaActa Part A ISSN 1386-1425, 2009. Vol. 73, Pg. 127-132.
- 8] A comparative study of pure and potassium doped cadmium mercury thiocyanate single crystals grown in silica gel.
 P. NishaSanthaKumari, M. Beatrice Margaret and S. Kalainathan Crystal Research and Technology ISSN 0232-1300, 2009, Vol. 44, Pg. 177-183.
- Growth of manganese doped cadmium mercury thiocyanate single crystals Gel technique.
 P. NishaSanthaKumari and S. Kalainathan Materials letters, ISSN 0167577X, 2009, Vol. 63, Pg. 1643-1646.
- 10] Crystal growth, optical and dielectric properties of CMTC Grown by gel technique.
 P. NishaSanthaKumari, S. Kalainathan, K. Shakila, T. Sivanandan International Journal of Chem Tech Research ISSN, 2455-9555, 2014, Vol.6, Pg.
 1663-1666.
- 11] Surface studies of cadmium mercury thiocyanate single crystals grown by gel technique. P. NishaSanthaKumari, S. Kalainathan Materials science and engineering ISSN 2412-5954, 2017, Vol 2,

Participation in Refresher/ Orientation/ FDP:

	Name of the	Name of the Sponsoring		
S. No	Programme	Agency	Title	Duration
1.	Refresher	Academic staff College,	Physics of Condensed	18-1-1999
	Course	Univ. of Madras, Chennai.	matter and Materials	to
				8-2-1999
2	Refresher	Academic staff College,	Theoretical Physics	1-2-2001
	Course	Univ. of Madras, Chennai.		to
				21-2-2001
3.	Orientation	Academic staff College,	General – Batch-92	3-11-2009 to
	Programme	Univ. of Madras, Chennai		30-11-2009
4.	FDP	Auxilium College, Vellore	Evolving best teaching	15-6-2020
	(Online)		and learning practices in	То
			the Pandemic era 2020	21-6-2020
5.	FDP	Little Flower College,	Research trends in	27/1/2021 to

	(Online)	Hyderabad, AP.	Physics and Electronics	1/2/2022
6.	FDP	Libre office Suite writer,	Auxilium College in	26/5/2022 to
	(Online)	Calc and Impress	association with Spoken	10/6/2022
			tutorial, IIT, Bombay	

Papers/Lectures presented in Seminars/ Conferences:

	Name of the seminar/			
S. No	Conference	Place	Date	Title of papers presented
1.	Second National symposium on 'Crystal growth of Laser related materials'	SSN College of Engineering, Kalavakkam , Chennai, TN	19- 20/12/2005	Growth and characterization of nonlinear optical material Zinc mercury thiocyanate in Silica gel
2.	National conference on "Preparation and Characterization of crystalline materials"	S.T.Hindu College, Nagercoil, TN	19-21/1/2006	Growth and characterization of acousto optical material lead bromide in Silica gel
3.	Third National symposium on "Crystal growth of Laser related materials"	SSN College of Engineering, Kalavakkam , Chennai, TN	18- 20/12/2006	Growth and characterization of nonlinear optical crystal Cadmium mercury thiocyanate CMTC in Silica gel
4.	Second National symposium on "Nonlinear optical crystals and modeling in Crystal growth"	Anna university, Chennai, TN	26/3/2007	Growth and characterization of bimetallic thiocyanate complexes in silica gel
5.	State level seminar on" Recent advancements in Physics"	Sacred Heart College, Tirupattur, TN.	14/9/2007	Growth and characterization of nonlinear optical materials by gel growth
6.	National seminar on "Recent advancements in Materials and Energy"	Voorhees College, Vellore.	5-7/3/2009	Growth and characterization of ZCTC and CMTC single crystals in silica gel

Conferences/Seminars/Workshops/Webinars - Organised:

S.No.	Date	Title	Category
1.	15/10/2004	Spectroscopic Applications and Instrumentation	National Seminar
2.	14/9/2012	Recent Advancements in Spectroscopy	National Seminar
3.	15/9/2015	Recent development in materials and methods"	National Conference
4.	14-15/10/2016	Android Botix	Workshop in collaboration with e-cell, IIT Bombay
5.	7/9/2018	National Conference on Advanced materials and applications	National Conference in collaboration with ISPA
6	13/9/2019	State level seminar on Material Science	State Level Seminar
7.	10/6/2020	Novel materials, characterization and applications	National webinar
8	22-23/7/2021	Sensors and applications	International webinar
9.	19/9/2022	Higher Educational opportunities in India and Overseas	International Video conference
10.	13-14/10/2022	Advanced materials and applications	Second National conference in collaboration with ISPA

Seminars / Conferences Attended:

S.No.	Title	Date	Place
1.	National conference on Recent trends in	2005	Vellore Institute of
	Materials Science and Technology		Technology, Vellore
2.	National seminar on Innovative strategies	24-	Auxilium College
	for Internal Quality Assessment	25/11/2006	Vellore
3.	State Level Seminar on Effective	17/9/2011	Auxilium College
	Evaluation – Practices and Perspectives		Vellore
4.	National Seminar on Enhancement of	15-	Auxilium College
	quality in Research publications and recent	16/12/2011	Vellore
	research in water, alternative Energy		
	resources, Materials and Health		
5.	National conference on "Journey of	9-11/2/2017	IQAC, Auxilium college,
	Excellence"		Vellore, TN
6.	State level technical seminar on "Advanced	6/3/2017	Voorhees college, Vellore,
	materials and its applications"		TN

Webinars attended:

S.No.	Title	Date	Name of the organiser
-------	-------	------	-----------------------

1.	Good Teacher to Great Teacher	14/05/2020	ICT Academy, Chennai
2.	2-Days Webinar on Branding Design & Digital Marketing	11-12/05/2020	Department of Communication Media, Auxilium College, Vellore
3.	Lecture Series on Corona Crisis	14-15/05/2020	PG & Research Department of English, Auxilium College, Vellore
4.	2 Day National Online Workshop on "Nanomaterials for Human Safety and Environment"	15/-16/05/2020	K.M.E Society's G.M. Momins Women's College, Thane, Maharashtra
5.	National level online quiz contest on exercise NCC" - YOGDAN - COVID19	23-05-2020	Thiagarajar College, Madurai.
6.	Supercapacitors: New age energy storage devices.	19-05-2020	AyyanadarJanakiammal College
7.	National webinar on Neutraceutical and functional foods, its applications and Health benegits	29-05-2020	PG and Research department of Zoology, Auxilium College, Vellore
8.	International Webinar on Recent trends in Materials Science	06-06-2020	Muthurangam Government Arts College, Vellore
9.	Workshop on Smart materials Sensor and Energy Devices	25-30/05/2020	SSN College of Engineering, Kalavakkam, Chennai
10.	National Webinar on Computer aided Drug Discovery	01-06-2020	Department of Botany, Auxilium College, Vellore
11.	Future of Examinations: Bloom's taxonomy and multiple assessment tools.	08-06-2020	GTN Arts College, Dindigul.
12	Leave a Green mark contest	16-24/05/2020	Auxilium Media Animation Resources - AMAR, Salesian sisters, Mumba
13	Photovoltaics and Materials science	23-06-2020	Crystal growth centre, Vellore institute of technology, Vellore.