

PROFILE

PERSONAL INFORMATION:

Name	Dr.S.S. JAYABALAKRISHNAN
Designation	ASSISTANT PROFESSOR OF PHYSICS
Department	PHYSICS
E-Mail ID	krishnanphysics@gmail.com
Department	PHYSICS

I. Academic Qualification (Undergraduate Onwards):

Doctorial Ph.D

University: - Anna university,Chennai

Title: Effect of temperature on thermodynamic and trasport properties of homologus amino acids and 4-amino butyric acid in aqueous solutions of metformin hydrochloride and salbutamol sulphate. Year: 2010

- Master of Philosophy: Institution: V.H.N.S.N. College, Viruthunagar Title: Year: 2006
- Master of Education: University: Annamalai university, Chidambaram Year: 2001
- Bachelor of Education: University: Bharathiyar university, Coimbatore Year: 1994
- Master of Science: University: Annamalai university, Chidambaram Subject: Physics Year: 1991
- Bachelor of Science: Institution: G.V.N. College, Kovilpatti Subject: Physics Year: 1989

II. TEACHING EXPERIENCE:

Undergraduate: 26 yearsPostgraduate: 6 yearsDoctorate of Philosophy: 8 years

1999 – 2013 worked as an Assistant Professor in P.S.R. Engineering College, Sivakasi.

2013 – till date working as an Assistant Professor in Mannar Thirumalai Naicker College, Madurai.

Area of Specialization:

- Ultra Sonics
- Solid Electrolytes
- Energy Devices

III. Details of Funds Received / Research Projects :

S.N 0	Project Title	Name of Applicant(s)	Status	Amou nt	Agenc y	Yea r
1	"Synthesis And Characterization Of Eu3+ Activated Ba2- Xv207:Xeu3+ Phosphor ByHydrothermal Method"	S.S.Jayabalakrish nan	Submitt ed	20000	Institutio n Sponsore d Seed Money Project	0
2	UBA-Under MHRD	S.S.Jayabalakrish nan	Submitte d	50,000	UB A MHR D	2020
3	"Volumetric, ultrasonic speed, and viscometric studies of HydroxychloroquineSulph atein aqueous methanol solution at different temperatures"	S.S.Jayabalakrish nan	Submitt ed	25000	Institutio n Sponsore d Seed Money Project	1

IV. Orientation Programmes / Refresher Courses / Short Term Courses attended :

UGC- Sponsored online Refresher Course, Environmental Studies-"Green Energy Initiatives", at Madurai Kamaraj University, Nov.2024

- UGC Sponsored online Refresher Course, on Physics & Nanotechnology, at Bharathiar University, Sep 2021.
- UGC Sponsored Refresher, on Teacher Education, at Bharathiar University, Jan 2020.
- UGC Sponsored RefresherCourse, on Interdisciplinary Avenues For Advancement in Basic Sciences, at Madurai Kamaraj University, Nov 2016.
- UGC Sponsored Orientation programme at Madurai Kamaraj University, Feb 2015.
- Empanelled Training for National Service Scheme, at Avinashilingam University, Dec 2014.
- Faculty Development Programme on Mental Healthfirst Aid, RGNIYD MSCIMHR, Madurai, Mar 2017.
- In-Service Teacher Training Programme in "Physical Sciences", at Sri Meenakshi Government Arts College for Women, Madurai, 05th& 6th May 2022.

V. Books/Reports/Chapters/General articles etc:

Books Published:

- Gemology, Shanlax Publications, Madurai, 978-93-90082-15-5, June 2020.
- LASER AND ITS APPLICATIONS, Shanlax Publications, Madurai, 978-93-93737-23-6, Jan 2022.
- Physics Appliances in Everyday Life, Shanlax Publications, Madurai, 978-93-94899-63-6, Jul 2022.

Chapters in Books:

- Chapter Budding Undergraduate Science Teaching During the Corona Virus Pandemic :Use of Digital Technologies, New Approaches in Education, published by L ORDINE NUOVO Publication, 978-93-92995-18-7, Jan 2022.
- Physics Courses: Teaching-Learning Experience of a Support Teacher and a Student with Low Vision and Blindness, Essentials of Techno Pedagogy, Shanlax Publications, Madurai, 978-93-93737-85-4, Feb 2022.
- A study of Increasing India's Fintech- Exploring the Future of Fintech and Digital Transformation, Shanlax Publications, Madurai, ISBN- 978-93-6163-246-4-December,2024
 - AI Challenges Teaching in Higher Education- Revolutioning Education and Commerce: Leveraging AI for Digital Transformation-Forschung, Chennai, ISBN-978-93-91772-20-

8- January, 2025

- Innovative Technologies for Teaching Physics- Technology and Innovation in Management Practices- Association of Scientists, Developers and Faculties, England. United Kingdom-ISBN-978-81-951337-2-7-February ,2025
 - An Analysis on Physics Classroom Initiatives That Foster Innovation and Entrepreneurship- Technology and Innovation in Management Practices- Association of Scientists, Developers and Faculties, England. United Kingdom-ISBN-978-81-951337-2-7- February,2025

VI. RESEARCH EXPERIENCE:

Research Guidance: Recognized as a Supervisor to Guide

Ph.D - No:1636Madurai Kamaraj University

S.No.	Research Level	Guiding	Submitted	Awarded
1	Ph.D	CO- GUIDE	-	Awarded-1
2	M.Phil	1	Submitted	Awarded
3	Ph.D	3	PURSUING	-

VII. Publications (List of papers published, in year wise descending order):

- Physicochemical analysis of activated charcoal/solid biopolymer electrolyte (gellan gum) with NaI/Na0.60CoO2 towards solid-state Na-ion battery application. Kani Ajay Babu M. · Jayabalakrishnan S. S., Selvasekarapandian S.,et al Journal of Solid State Electrochemistry.November-2024
- Mg²⁺ ion-conducting ceramic solid electrolytes based on Moringa oleifera seed and magnesium nitrate for secondary magnesium battery applications, Vignesh, N.M., Jayabalakrishnan, S.S., Selvasekarapandian, S. et al. Ionics, 0947-7047, Dec 2023.
- Synthesis and luminescence investigation of Ba₂V₂O₇-co-doped Dy³⁺/Eu³⁺ 4hosphor for white light-emitting diode applications, N.VenkateshBharathi, P. Kavitha, S.Ramaswamy, S.S.Jayabalakrishnan,, K. Sakthipandi, Indian Journal of Physics, 0973-1458, Jan 2023.
- Proton conducting Moringa Oleifera seed-based biomaterial electrolyte for electrochemical application, Muniraj @ Vignesh N Jayabalakrishnan S.S, Selvasekarapandian S, Aafrin Hazaana S, Kavitha P, Venkadesh Krishna

M, Oct 2022, Volume 29, Issue 1.

- Turning of luminescence properties of Ba₂V₂O₇ phosphors by co-doping Eu³⁺/Dy³⁺ ions, N.Venkatesh Bharathi, P. Kavitha, S.Ramaswamy, S.S.Jayabalakrishnan, K. Sakthipandi, Bulletin Materials Science, Sep 2022, Volume 45.
- Synthesis and characterization of a novel Ba_{2-x}V₂O₇:xDy³⁺ phosphor by hydrothermal method for WLED applications, N. Venkatesh Bharathi, T. Jeyakumaran, S. Ramaswamy, S.S. Jayabalakrishnan, AIP Conference Proceedings, Aug 2021, Volume 2352, Issue 1.
- Synthesis and characterization of a Eu³⁺-activated Ba_{2-x}V₂O₇:xEu³⁺ phosphor using a hydrothermal method: a potential material for near-UV-WLED applications, N. Venkatesh Bharathi, T. Jeyakumaran, S. Ramaswamy, S.S. Jayabalakrishnan, Luminescence: The journal of biological and chemical luminescence, Feb 2021, Volume 36, Issue 4.
- Synthesi s and characteri zation of self- activated Ba2V2O7 nanophos phor: A Potential Material for W-LED, S.S.Jayabalakrishnan, B.Venkatesh Bharathi, S.Ramasamy, Materials Research Express, Nov 2019, Volume 6, Issue 10.
- Volumetri c Properties of L- Phenylala nine in Aqueous solutions of Salbutam ol Sulphate in the Temperat ure Range 298.15 to 318.15K, Mohamed Roshan, Jenifer Raja Ruby and Jayabalakrishnan.S.S. Sadakath: A Research Bulletin, Jan 2019.
- A comparative study of attitude of final year under- Graduate students of colleges of rural and urban areas of Madurai district towards Environment Education, S.S.Jayabalakrishnan, V.Ramachandran, Shanlax International Journal of Arts, Science and Humanities, 2017, Volume 5.
- Ultrasonic studies of 4 aminobutyric acid in aqueous metformin hydrochloride solutions at different temperatures, Rajagopal K. Jayabalakrishnan S.S., International Journal of Thermophysics, Nov 2010, Volume 31, Issue 11 -12.
- Volumetric and viscometric studies of 4 aminobut yric acid in aqueous solutions of metformin hydrochlo ride at 308.15, 313.15, Rajagopal K. Jayabalakrishnan S.S., Serb.Chem.Soci. Jan 2011, Volume 76, Issue 1.
- Ultrasonic studies of 4 –aminobutyric acid in aqueous solutions of salbutamol sulphate at different temperatures, Rajagopal K. Jayabalakrishnan S.S., Chinese Journal of Chemical Engineering, Aug 2010, Volume 18, Issue 4.
- Effect of temperature on volumetric and viscometric properties of homologous amino acids in aqueous solutions of Metformin Hydrochloride at different temperatures, Rajagopal K. Jayabalakrishnan S.S., Chinese Journal of Chemical Engineering, Sep 2009, Volume 18, Issue 3.
- Volumetric, ultrasonic speed and viscometric studies of salbutamol sulphate in aqueous methanol solution at different temperatures, Rajagopal K. Jayabalakrishnan S.S., Journal of Chemical Thermody namics, Aug 2010, Volume 42.
- Volumetric and viscometric studies of 4 aminobut yric acid in aqueous solutions of salbutamol sulphate at 308.15, 313.15, Rajagopal K. Jayabalakrishnan S.S., Chinese Journal of Chemical Engineering, Oct 2009,

Volume 17, Issue 5.

Viscometric, volumetric and acoustical studies of metformin hydrochloride in both aqueous and non- aqueous media at 303.15 K', Rajagopal K. Jayabalakrishnan S.S., J.Pure and Applied Ultrasonics, Feb 2006, Volume 28.

Research Articles Published in Proceedings:

- Apparent molal volume, apparent molal compressibility and viscosity B Coefficient of Metformin hydrochloride Water and Methanol at different temperature, Rajagopal K. and Jayabalakrishnan S.S., World Congress on Engineering Technology, Shanghai, China, 363 – 6, IEEE press, Oct 28 – November 2, 2011.
- Voices for Barrier Free Environment in India, S.S.Jayabalakrishnan, National Congress on "Disability, Barrier – Free Campus and Higher Education in India", National/SDRS, New Delhi in Dravidian University, Kuppam, 25th and 26th March 2013.
- Providing Barrier Free Environment to the Disabled Students, .S.Jayabalakrishnan, National Congress on "Disability, Barrier – Free Campus and Higher Education in India", National/SDRS, New Delhi in Dravidian University, Kuppam, 25th and 26th March 2013.
- Electrostriction Effect of an Aqueous Metformin Hydrochloride with Glycine, Recent Trends in Ultrasonic Applications of Medical Physics, Rajagopal K. and Jayabalakrishnan S.S., 2015.
- Thermal Performance of Evaluation and Economics of Industrial Solar Water Heating System, S.S.Jayabalakrishnan, 1st International Conference on "Energy,Environm ent and Engineering" ICEEE-2016, Coibatore Institute of Technology, 29th Feb to 2nd March,2016.
- Advanced Topics in Interdisciplinary research in chemistry and Physics, S.S.Jayabalakrishnan Meditional Chemistry in Nano Drugs, SRNM Colege, Sattur, 2nd Mar 2019.
- Disability Inclusive Disaster Risk Management in India, S.S.Jayabalakrish nan, Economic Impact of National Disaster, SDRS, New Delhi &Seismological Research Institute, Gandhinagar, Gujarat, 11thJuly.2019.
- Climate Change, Intellectual Property &The Scope of Cultivating Microbes in Indian Agricultural Soil Field, S.S.Jayabalakrishnan, Contemporary and Upcoming Issues in the field of Intellectual Property Rights, PG and Research Department of Commerce, MTNC, 28th Mar 2022.
- Comparison of a Few Mathematical Applications in Advanced Level Physics, S.S.Jayabalakrishnan, Present Scenario in Mathematical Research-PSMR 2022, PG and Research Department of Mathematics, MTNC, 22nd Apr 2022.
- Study of Biomaterial Withania Sominifera based membrane electrolyte for Mg battery, S.S.Jayabalakrish nan, DAE – BRNS 9th Interdisciplinary Symposium on Materials Chemistry, BARC Mumbai, 7th Dec 2022.
- Development of Biomaterial Electrolyte for Solid State Magnesium-ion Battery, S.S.Jayabalakrish nan, DAE – BRNS 9th Interdisciplinary Symposium on Materials Chemistry, BARC Mumbai, 7th Dec 2022.
- > Preparation of Moringa Oleifera Seed Based Solid Membrane Electrolyte

for Rechargeable Li+ Ion Conducting Battery Applications, S.S.Jayabalakrish nan, INTERNATIONAL CONFERENCE ON WOMEN IN ELECTROCHEMISTRY, ICWEC – 2023, Bangalore IISc, 7th Apr 2023.

- Fabrication of Primary Sodium-Ion Battery by using Biopolymer Electrolyte based on Gellan Gum/NaI, S.S.Jayabalakrish nan, INTERNATIONAL CONFERENCE ON WOMEN IN ELECTROCHEMISTRY, ICWEC – 2023, Bangalore IISc, 7th Apr 2023.
- Ancient Physics in Ancient India: A Reflective in Nature Analysis-National Conference on Advances in Applied Mathematics &Indian Knowledge System- MTNC,Madurai

Papers presented in seminars:

- Thermodynamica 1 studies of metformin hydrochloride in non-aqueous media at different, 18th National Symposium on Ultrasonics held atNational Physical laboratory, National Physical laboratory, New Delhi, Dec 2009.
- A comparative study on the attitude of the final year under graduate students of colleges in rural and urban areas of virudhunagar district towards environment education, NAAC sponsored National Seminar on 'Quality Enhancement and Sustenance in the Institutions of Higher Education with Rural and Semi Urban Background, G.V.N. College, Kovilpatti, 7th and 8thOctober 2010.
- An innovative activity breaking a big concept down into small parts, UGC sponsored Regional Seminar on Science Education, Gandhigram Rural University, 15th and 16th December2010.
- Evolution of Science Curriculum through Ages, UGC sponsored National Seminar on Emerging Perspectives in, Peet Memorial Training College, Mavelikara, Kerala, 1st and 2ndMarch 2012.
- Developing Teacher Competencies in Using Technologies: Role of Teacher Education, UGC sponsored National Seminar on Trends in Teacher Education, Dravidian University, Kuppam, Andhra Pradesh, 25th and 26th September, 2012.
- Enabling the Disabled in Farming Activities, National Symposium on Disability Management in Agriculture and Farming, SDRS, in New Delhi, 1st to 4th Feb, 2013.
- Economic Impact of Natural Disasters, National workshop on Disability Inclusive Disaster Risk Management in India, Institute of Seismological Research, Gujarat, 11th&12th July, 2019.
- Science and Technology in Tamil Folklore, International Conference on Tamil Folklore, Mannar Thirumalai Naicker College, 31st March 2022.
- Science Facts in Tamil Literature, Multidisciplinary Documents in Tamil Grammar and Literature, Mannar Thirumalai Naicker College, 08th February 2023.
- PAN: PVP based on solid electrolytes for Li+ ion battery application, 18th Asian Conference on Solid State Ionics, 2024, Meenakshi College for Women, Chennai-24, 19th-22nd February 2024.

VIII. Honours And Recognition Awards And Rewards:

- ▶ Best young scientist award, Novel research, academy, 2019-2020.
- Best teacher award, Madurai Tamil folklore research foundation, 2021-2022.
- ▶ Best researcher award, Institutional, 2022-2023.
- ▶ Best researcher award, Institutional, 2023-2024.

IX. Membership in Academic/Professional Bodies:

S.No	Name of the Body	Capacity
1	Acoustical society of india	Life Member
2	Ultrasonic society of india	Life Member
3	ISTE	Life Member
4	Breakthrough Science Society	Member

X. Positions held at our college (MTNC):

S.No	Name of position	From	То
1	NSS PROGRAMME OFFICER	06-12-2013	30-06-2017
2	ADDITIONAL EXAM COORDINATOR	01-07-2014	01-07-2017
3	DEAN OF SCIENCE	22-09-2017	22-09-2020
4	UNNATH BHARATH ABHIYAN	04-07-2023	Till Date

XI. FDP/Workshop Attended (other than MTNC):

S. No	International/ National / State Level	Title of the Programme/ Course	Name of the Institution/ University	Dt/MM/YR
1	National	14 th National Level Symposium on "Acoustics"	Bundlekhand University, Jhansi	16 th February 2006
2	National	one day workshop on "Environmental Pollution"	SSN College, Chennai	5 th June 2006
3	National	Seminar on "Recent Trends in Medical Instruments"	Government Engg. College. Tirunelveli	29-03-2007
4	National	3 day seminar on "Nano Technology	KSR institute of technology,	11 th and 12 th January 2009
5	National	two day workshop on "Nano Materials"	KSR institute of technology, Tiruchencode	11 th and 12 th January 2007
6	National	one day workshop on "Recent Trends in Drugs"	Manomaniam Sundaranar University, Tirunelveli	30 th January 2008
7	International	two day international conference on "Value Based Education"	Annamalai University	6 th and 7 th November 2004
8	State Level	State level Workshop on Reforms in Curriculum Design & Evaluation Based on OBE	The Standard Fireworks Rajaratnam College for Women, Sivakasi	27-07-2019
9	National	National Workshop on Synthesis of Nanofibres	The Standard Fireworks Rajaratnam College for Women, Sivakasi	30-09-2019
10	National	Recent Trends in Energy Technologies	The American College,Madurai	14-08-2015
11	State Level	Chennai Science Festival-2017	Science City,Chennai	9 th to 12 th Feb,2017
	National	Atom to Star-AIR series 2014- 2015	Vigyan Prasar,AIR,TNSF	15-08-2015
13	National	National Seminar on Nuclear Power-an Economical Source of	NPCIL,Kudankulam&MEP CO,S ivakasi	19 th Aug,2016

14		Protection of	Centre for	
14	National	Heritage		16 th Dec,2014
	National	0	Entrepreneurship	10 Dec,2014
		Vonuments Against Vandalism	Development,Tamilnadu	
15		Online National	IQAC, Mannar Thirumalai	13-05-2020
15	National	Faculty Enrichment	-	То
	INational		Naicker College	19-05-2020
		Programme		19-03-2020
10	NT (* 1	Online Faculty		14.05.0000
16	National	Development	6	14-05-2020
		Programme-	Research and Education	
		Unlocking the		
		Potential-Role of		
17		UBA		15.05.0000
17		National Level	A.P.A.College of Arts and	15-05-2020
	National	Workshop on	Culture,Palani	and
		Flipped Classroom		16-05-2020
10		learning tools		
18		Webinar on How to		00.05.0000
	National	Overpower COVID-	College,Sivakasi	20-05-2020
1.0		19 Challenges		
19	National	Webinar on Bio	Mannar Thirumalai	
		Diversity	Naicker College	22-05-2020
		Webinar for Mentee	The Standard Fireworks	25-05-2020
20	National	Institutions Under	Rajaratnam College for	То
		UGC PARAMASH-	0	29-05-2020
		SSR Preparation	·····	
21	National	Webinar on	K.L.N.College of	26-05-2020
		Prevention and	Engineering, Madurai	
		Protection from		
		COVID-19		
22	International	Webinar series on	NGM Collge,Pollachi	27-05-2020
		Cosmology and		То
		Nanotechnology		29-05-2020
23	International	Webinar on Recent	VHNSN	15-05-2020
		Trends in Applied	College,Virudhunagar	and
		Sciences		16-05-2020
24	National	Webinar on NAAC	InPods Ed-tech	
		Accreditation		29-05-2020
		Management		
		System Demo		
		International	SB Arts and KCP Science	
25	International	Webinar on	College,Vijayapur	29-05-2020
		Intellectual Property		
		Rights-A 360 View		
		Webinar for Mentee	The Standard Fireworks	
26	National	Institutions Under	Rajaratnam College for	29-05-2020
		UGC PARAMASH-		
		NAAC		

		Accreditation Process-Dos and Don'ts		
27	National	Webinar Series on Knowledge Generation in during COVID-19 Pandemic – Qualitative Research	B.T.T.C, HSNC University & University of Mumbai	01-06-2020 To 06-06-2020
28	National	Webinar on Examination Reforms and Online Assessment Tools	SGTB Khalsa College, University of Delhi	12-07-2020
29	National	National Workshop on Super Ionic Conductors and its Applications to Battery,Fuel Cell and Supercapacitor,NSI CA-2022	Fatima College, Madurai	15&16-12-2022
30	State	State Level Workshop on Outcome Based Assessment and Evaluation	The Standard Fireworks Rajarathnam college for women,Sivakasi	14-02-2022
31	National	Navigating the Future with Cutting- Edge Technology through Research and Innovation	VHNSN College, Virudhunagar	25-11-24 to 29-11-24
32	National	National Conference - Climate Change	Tagore Theatre, Trivandrum	February 8-10, 2025

XII. FDP Attended in MTNC:

S. No	Name of the Professional Development Programme	Date andNo.of Days	Name and address of the Institution imparting training
1	Technicalities of writing	29th June	Mannar Thirumalai
	Research Proposal	2018	Naicker College
2	Intellectual Property Rights,	22nd	Mannar Thirumalai
	Skill development Programmes,	January	Naicker College

	Innovations, Patents and Setting	2019	
	up Incubation Centres		
3	Promotion of API Score and	2nd March	Mannar Thirumalai
	CAS Filing	2019	Naicker College
4	One Day Training and	9th March	Mannar Thirumalai
	Production Workshop on	2019	Naicker College
	prospects of Outcome Based		
	Curriculum		
5	Outcome Based Education	28th August	Mannar Thirumalai
		2019	Naicker College
6	21st Century Skills	5th March	Mannar Thirumalai
		2020	Naicker College
7	Quality Assurance and	11th March	Mannar Thirumalai
	Sustenance in Higher Education	2020	Naicker College
8	Enhancing Quality by	18th April	18th April to 24th April
	Unearthing Innovative	to 24th	2022 IQAC Mannar
	Practices-EQUIP 2022	April 2022	Thirumalai Naicker
		r -	College & APV
			Mahalakshmi college for
			Women with IQAC
			Cluster
9	Education 4.0 Sustainable	27th April	Mannar Thirumalai
-	Economic Development	2022	Naicker College
10	Dynamics of Research	15th&16th	Mannar Thirumalai
10	Publications	September	Naicker College
	1 ublications	2022	Nuleker Conege
11	Faculty Enhancement	18th March	Mannar Thirumalai
11	Programme on Insights of	2023	Naicker College
	National Educational Policy	2023	Nalekei College
12	National Level Awareness	6 th March	Telangana
12	Program on Institutional	2025	Council of Higher
	0	2023	Education (TGCHE),
	Development Plan for Higher Educational Institutions		and Institute for
	Euucational institutions		Academic Excellence
			(IAE), Hyderabad

XIII. Guest Lecture/ Pleanary Talk:

Sl.No		Title of the Workshop / Conference	Name of the Institution/University	Month and Year
1	State Level	science	Francis Xavier Engineering College, Tiru nelveli	23-01-15
2	State Level		Sourashtra College, Madurai	19-02-19

2		Autonon and Decomon on	Impot Dharat Abbiyan	22 00 20
3	Webinar	National Education	Unnat Bharat Abhiyan College Adopted	25-09-20
	w coma	Policy -2020	Villages	
4			Unnat Bharat Abhiyan	02 10 20
4	Webinar	National Education	of	02-10-20
	vv comai	Policy – 2020	M.E.T Engineering	
		1 one y = 2020	College	
5	Resource Person-		conege	
č	Workshop on			
	Household	Vivekananda College,	Medical Applications	
	Appliances(DBT		of Gemstones	19-03-22
	-Star College			
	Scheme)			
6	, , , , , , , , , , , , , , , , , , ,		Gemstone	
	Guest Lecture	VVV college For	Applications in	29-08- 22
		Women	Everyday Life	
7	Induction			
		PSR Engineering	Applications of	16-11-22
	Year Students	College, Sivakasi	Gemstones	10-11-22
8		Idhayam Rajendran		
	Science Expo	Senior Secondary	Time Management	19-11-22
		School, Madurai		
9			Science and	
	Guest Lecture	PSR College of	technology-	28-02-23
		Education	Sustainable	
10			development in India	12.02.22
10			4 C 's(Concentration,	13-03-23
		NGC Comer Charlente	Confidence, Critical	
	Special Address	NSS Camp Students	Thinking and	
			creativity) and Time	
11		Scientia'24-	Management	12-03 2024
11		Sustainable		12-03 2024
		development of	SACS MAVMM	
	Resource Person	Science and	Engineering College	
		technology in India	Madurai	
		in manu		
12		Physics of Crystals	VHNSN College,	20-12-2024
	Resource Person	I HYSICS OF CLYSTAIS	Virudhunagar	
10			Ū.	07.01.0005
13		Science Conference on		07-01-2025
	Expert Arbitrator	Ū.	Society, Madurai	
		Maladies & Mitigation	Cnapter	