

## PROFILE



Name : **Dr. Mrs. C. SAGAYA RANI**

Designation : Associate Professor

Department : Zoology

Data of birth : 30.06.1966

Date of appointment: 02.11.1993

### ACADEMIC QUALIFICATION:

COURSE	INSTITUTION STUDIED	UNIVERSITY	YEAR OF PASSING	CLASS
X	St. Anne's Girls. Hr. Sec. School, Cuddalore.		March -1981	First
XII	St. Philomena's Girls. Hr. Sec. School, Thindivanam.		April - 1983	First
B. Sc	Auxilium College, Vellore	Madras University	March -1987	First
M. Sc	Loyola College, Chennai	Madras University	March -1989	First
M. Phil	Loyola College, Chennai	Madras University	April -1990	Gold Medalist
PGDMLT	Loyola College, Chennai	Madras University	April -1990	First
D.MAG	Institute of Magneto Therapy, Nasik	-	Oct - 1996	First
Ph. D	Loyola College, Chennai	Madras University	March -1998	First

### TEACHING EXPERIENCE:

INSTITUTION	YEAR		NO OF YEARS		
	FROM	TO	UG	PG	M.Phil
Auxilium College, Vellore.	1990	1991	1	-	-
Jayaraj Annapackiam College for Women, Periyakulam.	1993 onwards		31 years		

**DETAILS OF REFRESHER COURSES ATTENDED**

<b>YEAR</b>	<b>INSTITUTION AND PLACE</b>	<b>DURATION</b>
2002	“Recent Advances in biological techniques Gandhigram Rural Institute, Deemed university, Gandhigram.	13.11.2002 - 03.12.2002
2003	“Modern Trends in Biology M.K.University, Madurai .	05.11.2003 - 26.12.2003

**DETAILS OF ORIENTATION COURSES ATTENDED**

<b>YEAR</b>	<b>INSTITUTION AND PLACE</b>	<b>DURATION</b>
1995	Orientation Programme, Academic Staff College, Madras University, Chennai.	31.08.1995 to 27.09.1995
2003	Orientation Programme for “Research guides in College and Major Research Projects” Yadava College Madurai	06.10.2003

**DETAILS OF SEMINARS ATTENDED**

<b>YEAR</b>	<b>TITLE</b>	<b>PLACE AND DATE</b>	<b>LEVEL</b>
1988	International Conference on “Biological Control of vector with predaceous Arthropods”	Loyola College, Chennai. 07.01.1988 - 10.01.1988	International
1994	Family through the challenges of the twentieth century youth welfare seminar	Madurai Kamraj University, Madurai. 19.12.1994 – 20.12.1994	National
1995	Seminar on: The role of medical lab technologists in Human. Health with emphasis in under privileged people	Loyola College, Chennai. 24.02.1995 – 25.02.1995	National
1995	Seminar on Personality Development and leadership Extension Lectures on population education	Billigram Building, Chennai. 20.03.1995 – 22.03.1995	Regional
1995	Seminar on Computer and its application	Jayaraj Annapackiam College for Women, Periyakulam. 8.11.1995 – 9.11.1995	College

1998	Seminar on Catholic contribution to Independent India	St. Joseph's College, Trichy. 10.01.1998 – 11.01.1998	Regional
1999	Applied Biotechnology	Jayaraj Annapackiam College for Women, Periyakulam. 28.01.1999	College
2000	Workshop on Environmental protection, people and the Law	Jayaraj Annapackiam College for Women, Periyakulam. 30.11.2000	College
2003	Challenges of value education at college level	Xavier Board of Higher Education Nobili Pastoral Centre, Madurai. 26.09.2003 – 27.09.2003	College
2003	“Challenges of value education at college level”	Nobili Pastoral centra Madurai, 26.09.2003 - 27.09.2003	State
2003	Bioinformatics and Biotechnology	M.K. University Madurai, 22.01.2003 – 23.01.2003	State
2004	“Empowering youth vision 2020”	P.A. College For women Palani 12.03.2004	National
2004	“Challenges and Applications in Biotechnology”	Thanthai Hans Roever college Perambalur. 04.03.2004 – 06.03.2004	National
2004	“Human Rights and Health”	Madras Christian College, Chennai, 14.10.2004 – 16.10.2004	International
2004	“Recasting communication strategy to health for all India”	M.K. University Madurai, 25.03.2004 -26.03.2004	National
2005	Values and Ethical Dimensions of Educational Leadership”	University of Madras 03.03.2005–04.03.2005	National
2005	“Bioethics education”	J.A. College Periyakulam. 20.01.2005	International
2005	“Biodiversity Measures”	J.A. College Periyakulam. 24.02.2005-25.02.2005	National
2006	“Environmental biotechnology for human	J.A. College, Periyakulam.	National

	welfare”	07.12.2006-08.12.2006	
2007	“Recent trends in understanding and applying the theory and practice of values”	J.A.College, Periyakulam. 11.01.2007-12.01.2007	National
2007	“Participative and Responsive organizational dynamics for quality improvement in Autonomous Colleges:	J.A.College, Periyakulam. 19.12.2007-20.12.2007	National
2008	“Recent trends in Biotechnology and its Ethical implications”	Auzilium College Vellore. 09.01.2008-10.01.2008	National
2008	Christian Values for wholesome life	J.A.College Periyakulam 29.08.2008	National
2009	State level one day seminar on modern Biological sciences	J.A.College, Periyakulam. 27.01.2009	State
2009	University level workshop on “Application of statistical packages in Biology”	J.A.College Periyakulam 23.02.2009	University Level
2009	Quality and Relevance in higher education – “New Challenges”	J.A.College, Periyakulam. 02.03.2009-03.03.2009	National
2009	Conserve the Mother Earth “Need of the Hour”	J.A.College, Periyakulam. 09.10.2009	National
2010	Techniques in Animal cell culture	Lady Doak College, Madurai. 22.06.2010-26.02.2010	National
2010	XX <sup>th</sup> Triennial convention of Xavier Board of higher education	Xavier Board of higher education Rajagiri. 06.05.2010-09.05.2010	National
2013	Interreligious	22.06.2013 Pastoral Centre, Madurai	Regional
2013	J. A. College for Women, Periyakulam.	Christhuva tamil thondu, 12.08.2013.	International
2013	Faculty training programe	Mother Teresa Womens University at J. A. College for women, Periyakulam.3 <sup>rd</sup> - 07 <sup>th</sup> September, 2013.	State Level

2013	Reforms in curriculum Development and examination system	J. A.College for Women, Periyakulam. 13.11.2013	State Level
2014	UGC Sponsored National workshop on E- Content Development for effective teaching and learning	11 <sup>th</sup> to 13 <sup>th</sup> Sep 2014 J.A.College for women (Autonomous), Periyakulam	National
2014	Commission for Ecumenism and Dialogue	06.07.2014 Pastoral Centre, K.Pudur, Madurai.	Regional
2016	NAAC Sponsored National Conference on Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions	J. A. College for Women, Periyakulam 29 <sup>th</sup> to 30 <sup>th</sup> September, 2016	National
2017	National seminar on Microbial tool and Bioremediation	J.A. College for women, Periyakulam 9.2.2017 to 10.2.2017	National
2017	National seminar on Microbial tool and Bioremediation	J.A. College for women, Periyakulam 9 <sup>th</sup> & 10 <sup>th</sup> Feb. 2017	National
2017	Statistics using EXCEL and SPSS	J.A. College for women, Periyakulam 5 <sup>th</sup> and 6 <sup>th</sup> September 2017	National
2018	National Seminar on “Emerging Trends in Life Sciences”	J.A. College for women, Periyakulam 9 <sup>th</sup> January 2018	National
2019	Revisioning Higher education in India – Challenges and strategies for catholic institutions	Don Bosco Institute, Guwahati, Assam 13 <sup>th</sup> to 15 <sup>th</sup> sep, 2019	National
2019	J.A. College for women, Periyakulam 11 <sup>th</sup> and 12 <sup>th</sup> December 2019	Emerging trends in Current environmental issues	National

2019-2020	International webinar on Brief perspectives of nanotechnology-Biosynthesis and Bio-application of nano particles	27.05.2020-29.05.2020 Department of Zoology,JAC,PKM	International webinar
	Online webinar on outcome based education	22.05.2020-29.05.2020 IQC,JAC,PKM	National
	Webinar on 'Free Statistical Tool for Research Data Analysis and Research Publication with Special Reference to Citation, Impact Factor and h Index'	01.06.2020 & 02.06.2020 Library, JAC, PKM.	National
	International Virtual Conference on COVID-19 "Recent Updates and Current Advances"	03.06.2020 & 04.06.2020 Department of Microbiology, The American College, Madurai.	International
	International Webinar on "Managing Physical Fitness of Body and Mind"	08.06.2020 Department of Physical Education, St. Paul Institute of Professional Studies, Indore.	International
	International Webinar on "Porous Carbon – based Nanocomposite for Energy Storage and sensing " and "Chemical Biology of COVID – 19"	11.06.2020 & 12.06.2020 PG and Research Centre of Chemistry , JAC , PKM.	International
	Online International Webinar on " Fake News Syndrome : Journalism at Stake "	13.06.2020 Department of Mass Communication and Journalism , Loyola Degree College , Bengaluru.	International
	National Webinar on "Value of Health Care in Current Life Style"	15.06.2020 – 17.06.2020 Centre for Tourism and Hotel Management , Madurai Kamaraj University , Madurai with Annammal College of Education for Women , Thoothukudi.	National
	International Webinar on 'Understanding Purpose of Life: Reflecting on Mental Health, Jobs and the Uncertain Future'	19.07.2020 & 20.07.2020 The placement Office of St. Joseph' s College, Bangalore with Team Alpha International and Fort Hays State	International

		University, USA.	
	National Faculty Enrichment Programme on “Digital Technology for Teaching of Life Sciences and Humanities”	21.07.2020 – 25.07.2020 PG and Research Department of Zoology of Dr. Ambedkar Government Arts College , Chennai in collaboration with the Indian Science Congress Association .	National
	International Webinar on ”Impact of Digital Threats and Cyber Risks During COVID-19”	24.07.2020 & 25.07.2020 Department of Computer Science, Sophia Girls’ College, Ajmer, Rajasthan	International
	International Web Conference on ”Innovative Technologies, Entrepreneurship Avenues, Livelihood Enhancement in Sustainable Management of Animal Farming”	03.08.2020 – 04.08.2020 PG and Research Department of Zoology of Dr. Ambedkar Government Arts College , Chennai in collaboration with the Indian Science Congress Association .	International
	International Web Conference on ”Innovative Technologies, Entrepreneurship Avenues, Livelihood Enhancement in Sustainable Management of Animal Farming”	03.08.2020 – 04.08.2020 PG and Research Department of Zoology of Dr. Ambedkar Government Arts College , Chennai in collaboration with the Indian Science Congress Association .	International
2020-2021	J.A. College for women, Periyakulam 3 <sup>rd</sup> May 2021	Quality enhancement initiative through innovative practices (IQAC)	National
	J.A. College for women, Periyakulam 1 <sup>st</sup> September 2020	Recent trends in life sciences phase - I	International
2021-2022	J.A. College for women, Periyakulam 27 <sup>th</sup> September 2021	Honey bees: Hope for life	State level
	J.A. College for women, Periyakulam 5 <sup>th</sup> and 6 <sup>th</sup> January 2021	Recent trends in life sciences phase – II	International

	J.A.College for women, Periyakulam 5 <sup>th</sup> and 6 <sup>th</sup> January 2021 on 15 <sup>th</sup> December	Hands – on Training on ‘Mushroom Fortified Bakery Products Preparation’	Regional
2022 - 2023	St. Albert’s College (Autonomous), Ernakulam 14 <sup>th</sup> and 15 <sup>th</sup> May, 2022.	1 <sup>st</sup> National Academic Collaboration Meet, 2022 organized by Xavier Board of Higher Education,	Regional
2022 - 2023	Life Science Research and Intellectual Property Rights. 19 <sup>th</sup> and 20 <sup>th</sup> September, 2022.	PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala	International
2022- 2023	IP Awareness/Training Program under National Intellectual Property Awareness Mission. 20 <sup>th</sup> September, 2022.	PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala	Reginal
2022- 2023	IP Awareness/ Training Program under National Intellectual Property Awareness Mission on 16 <sup>th</sup> December, 2022.	Intellectual Property Office, India.	National
2022- 2023	Three day workshop on “Organic Farming and Bio Dynamic Composting”.	PG and Research Centre of Zoology in collaboration with Eco club, Waste water	National



		management and Green Campus, Institution Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam and Naandhi Foundation, Mahindra Institution, Guindy, Chennai.	
2023 – 2024	Interdisciplinary approaches in Biology on 6th December 2023.	PG and Research Centre of Zoology Jayaraj Annapackaim College for Women, Periyakulam in collaboration with St. Josephs college for Women, Alapula, Kerala	National

### Webinar organized

### DETAILS OF PAPER PRESENTED – NATIONAL

YEAR	TITLE	TOPIC	PLACE AND DATE
2004	Recasting Communication Strategy to health for all in India	Health for all in 2000AD: A Myth	M.K.University, Madurai. 25.03.2004-26.03.2004
2005	Values and ethical Dimensions of educational leadership	Values and ethical Dimensions of educational leadership	University of Madras 03.04.2005-04.03.2005
2006	Environmental Biotechnology for human welfare	Stem Cell Research	J.A.CollegePeriyakulam 07.12.2006-08.12.2006
2007	Participative & Responsive organizational Dynamics for Quality Improvement in Autonomous Colleges	Engenderin g standard Axiological dynamism	J.A.CollegePeriyakulam 11.01.2007-12.01.2007

2009	UGC Sponsored National Seminar on Conserve the Mother Earth “Need of the Hour”	Trend of HIV infection in patients with Tuberculosis, Aundipatti rural area	J.A.CollegePeriyakulam 09.03.2009-10.03.2009
2009	UGC Sponsored National Seminar on Conserve the Mother Earth “Need of the Hour”	Incidence of Anaemia among young girls	J.A.CollegePeriyakulam 09.03.2009-10.03.2009

### ORGANIZATION OF SEMINAR

YEAR	PLACE & DATE	TOPIC	SEMINAR
2008	J.A.College Periyakulam 29.08.2008	Christian Values for wholesome life	National
2009	J.A.College, Periyakulam. 09.10.2009	Conserve the Mother Earth “Need of the Hour”	National
2009	Xavier Board of Higher Education India Tamilnadu Region	“Personality Development and Christian Leadership”	J.A.CollegePeriyakulam 08.08.2009
2013	Womens Day Celebration	Women and Society	J.A.CollegePeriyakulam
2014	Xavier Board of Higher Education India Tamilnadu Region	Character Formation Youth Camp	J.A.CollegePeriyakulam
2014	Xavier Board of Higher Education India Tamilnadu Region	Regional Youth Camp	J.A.CollegePeriyakulam
2015	Xavier Board of Higher Education India Tamilnadu Region	National Youth Camp	Nirmala College, Coimbatore
2017	J.A.College Periyakulam	Statistics using excel and SPSS	International
2017	J.A. College for women, Periyakulam 5 <sup>th</sup> and 6 <sup>th</sup> September 2017	Statistics using EXCEL and SPSS	National
2019	J.A. College for women, Periyakulam 11 <sup>th</sup> and 12 <sup>th</sup> December 2019	Emerging trends in Current environmental issues	National

### PUBLICATIONS IN PROCEEDINGS

YEAR	TITLE	PROCEEDINGS	PLACE AND DATE
2004	Recasting Communication Strategy to health for all in India	Health for all in 2000AD: A Myth	M.K.University, Madurai. 25.03.2004 -26.03.2004
2005	Values and ethical Dimensions of educational leadership	Values and ethical Dimensions of educational leadership	University of Madras 03.04.2005-04.03.2005
2007	Participative & Responsive organizational Dynamics for Quality Improvement in Autonomous Colleges	Engendering standard Axiological dynamism	J.A.CollegePeriyakulam 11.01.2007-12.01.2007
2009	UGC Sponsored National Seminar on conserve the Mother Earth "Need of the Hour"	Trend of HIV infection in patients with Tuberculosis, Aundipatti rural area	J.A.CollegePeriyakulam 09.03.2009-10.03.2009
2009	UGC Sponsored National Seminar on conserve the Mother Earth "Need of the Hour"	Incidence of Anaemia among young girls	J.A.CollegePeriyakulam 09.03.2009-10.03.2009

### RESEARCH PUBLICATIONS IN JOURNALS

YEAR	TITLE	NAME OF THE JOURNAL VOLUME, ISSN	LEVEL
1995	An anti – Treehopper mutualism: Effects of camponotus compressus on the survival of leptocentrus moringae (membracidae:homoptera)	Journal of Applied Zool. Res. (1995) 6(2): 145-146.	National
2007	Biomass and Density effects on the Haematological Changes of trash water fish <i>Cyprinus carpio</i>	Journal of Aquatic Biology Vol,22(J) 2007: 167 – 172	National

2012	Adaptation to Education : An Analysis of college students health	Journal of Research in Biology 2(5):513- 522	International
2015	Allelopathic Effect of <i>Tagetes Erecta</i> on Soil Microbes and Nematodes of Papaya	Indo American Journal of Pharmaceutical Research, ISSN NO: 2231-6876	Peer reviewed
2016	Photogeneration of Reactive Oxygen Species and Biological Activities of Two Quinines	International Journal of Scientific Research and Education. ISSN(e) :2321-7545 (2016)	International
2020	Study of Protein accumulation in the coelomic fluid of Earthworm exposed to selected Heavy metals	JAC JOSHAM, ISSN: 2347-9868, Vol 7 (2)	National
2021	Challenges on In-vivo Culture and Recovery of Entomopathogenic Nematodes from <i>Galleria mellonella</i>	Indian Journal of Natural Sciences Vol.12 / Issue 69 ISSN: 0976 – 0997	National
2021	Effect of different Agrowastes on Mass production of Edible Mushrooms <i>Pleurotus Ostreatus</i>	JAC JOSHAM, ISSN: 2347-9868, Vol 9 (1)	National
2021-2022	Establishment of Water Quality Index in Different Waters of Theni and Dindigul Districts	International Journal of Poll Res 40 (2), ISSN: 0257–8050	International
2022	Study on Prevalence of Leprosy in Man at Theni, Tamil Nadu	REST Journal on Emerging Trends in Modelling and Manufacturing Vol: 8(1),	International

		2022 ISSN: 2455-4537	
2023 – 2024	“Prevalence of COVID-19 at Theni medical college and hospital in Kanavilakku, Theni district, Tamil Nadu, India	An International Journal of Agricultural and Biological Research (AGBIR) Vol 39, No 4, pp:605-613, on 6 <sup>th</sup> July 2023, ISSN: 0970-1907	International

#### **DETAILS OF COURSE MATERIALS PREPARED**

<b>YEAR</b>	<b>TITLE</b>
1999	Perspectives of Clinical Laboratory Technology.
2010	Health Science
2011	The twelve apostles
2012	Family Health Care
2012	Clinical Laboratory Technology Certificate Course Materials,

#### **DETAILS OF VARIOUS POSITIONS HELD AT COLLEGE**

<b>YEAR</b>	<b>POSITION</b>
1993 – 1994	Students Service League
1994 – 1995	College Union
1995 – 1996	College Union
1996 – 1997	College Union
1997 – 1998	Kristu Jayanthi
1998 – 1999	Kristu Jayanthi

1999 – 2000	All India Association for Christian Higher Education, Xavier Board of Higher Education in India
2001 – 2002	All India Association for Christian Higher Education, Xavier Board of Higher Education in India
2002 – 2003	Student Service and Youth Welfare
2004 – 2005	Student Service and Youth Welfare
2005 – 2006	Student Service and Youth Welfare
2006 – 2007	All India Association for Christian Higher Education and Xavier board of Higher Education in India, Campus Ministry Research committee, College Choir
2007 – 2008	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry Research committee, College Choir
2008 – 2009	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry Research committee, College Choir
2009 – 2010	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry Research committee, College Choir
2010 – 2011	National Service Scheme
2011 – 2012	Harmony Club
2012 – 2013	Harmony Club
2013 – 2014	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, College Choir
2014 – 2015	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, College Choir
2015 – 2016	All India Association for Christian Higher Education Xavier board of Higher Education in

	India, Campus Ministry, College Choir
2016 – 2017	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry,
2017-2018	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, Counseling committee, Jubilee Committee
2018-2019	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, Counseling committee, Jubilee Committee, Academic Council
2019-2020	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, Counseling committee, Jubilee Committee, Academic Council
2020-2021	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, Counseling committee, Jubilee Committee, Academic Council
2021-2022	All India Association for Christian Higher Education Xavier board of Higher Education in India, Campus Ministry, Counseling committee, Jubilee Committee, Academic Council
2022-2023	Dean of Students, Counseling Committee, Admission Committee
2023-2024	Dean of Students, Counseling Committee, Admission Committee

## MAJOR RESEARCH PROJECT

Name	Title of the project	Ongoing / completed / proposals submitted	Period	Funding Agency & Amount sanctioned (Rs)
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Dr. C.Sagayarani Principal co investigator	Evaluation of Novel Quinones as phototherapeutic Agents	completed	2011-2014	UGC 9, 29, 800
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## AWARDS RECEIVED

**BHARATH SHIKSHA RATAN AWARD** by global society for health and education growth New Delhi for the individual contribution towards health and educational growth on 15.06.2015

**RASHTRIYA SHIKSHA SHIROMANI AWARD 2018** by global society for health and education growth New Delhi for the Achiever's Association for Economic Research & Development on 30th November, 2018

**BEST CO- ORDINATOR AWARD** by Cumbum Sathguru Sangeetha Natya Vidyalaya through World Records Union (America) on 7<sup>th</sup> January 2024

## PATENT PUBLISHED

1. Published patent on the title of the invention: "A kind of mushroom fortified cake preparation method", patent of Journal No. 05/2022 on 04<sup>th</sup> February, 2022.
2. Published patent on 04th March, 2022. The title of the invention: is "A Nutritional Rich Mushroom Chocolate" with the Patent Office Journal No. 09/2022.
3. Published patent on the title of the invention: "A Nutritional Rich Spirulina Jelly", patent of Journal No. 19/2022 on 13th May, 2022.
4. A method of preparation of an edible product mushroom marshmallow", patent of Journal No. 28/2022 on 15th July, 2022.

## Resource Persons

1. Served as a served as a Chief Invigilator in TNPSC Group IV Examination on 24<sup>th</sup> July, 2022
2. Served as a resource person for B.VOC Health care on Clinical Lab Technology on 28<sup>th</sup> and 29<sup>th</sup> October 2022.
3. Served as a Subject expert in Board of studies meeting of M.Sc. Zoology on 8<sup>th</sup> November 2022 at Hajee Karutha Rowther Howdia College, Uthamapalayam
4. Served as a person in the Programme organized by National Service Scheme of JAC and delivered a talk on "Peace and Harmony" on 28/08/23
5. Served as a resource person in NSS Camp on the topic "ஆரோக்கியமான



வாழ்கை வாழ்வதற்கான வழிமுறைகள்” organized by the Unit 11 of NSS on November 2023

6. Served as a Jury for the Solo Song competition in JAC FEST – O – BEATS 2023 – 2024 on 15<sup>th</sup> and 16<sup>th</sup> December
7. Served as a coordinator for the “INSERVICE TRAINING TO SCIENCE TEACHERS “in Theni district from 4<sup>th</sup> January to 9<sup>th</sup> January 2024 catalysed and supported by Tamil Nadu State Council for Science and Technology, Chennai.
8. Served as resource persons and in the “Inservice Training to Science Teachers” catalyzed and supported by “Tamil Nadu State Council for Science and Technology” Chennai.

