

ACADEMIC PROFILE

Name of the staff	Dr. E. ROSHAN ARA BEGUM	
Designation	ASSISTANT PROFESSOR	
Name of the Department	ZOOLOGY	
Communication Address	Phone: -- Mobile: 8220133339 e-mail: Office: --- Personal: dr.roshanejas@gmail.com	
Teaching experience:	Date of joining this College: 03.10.2022 Experience in other Colleges: 15 years 3 months Total Experience as of 31/07/2024: 17 Years 00 Months	

Academic Qualifications:

Name of the Degree	University	Year	Division & Distinction
Ph.D Zoology	Madurai Kamaraj University, Tamil Nadu	2019	Highly Commendable
M.Phil Zoology	Madurai Kamaraj University, Tamil Nadu	2007	First class with Distinction
M.Sc Zoology	Madurai Kamaraj University, Tamil Nadu	2006	First class with Distinction
B.Sc Zoology	Madurai Kamaraj University, Tamil Nadu	2004	First class with Distinction
SET (LIFE SCIENCES)	Mother Teresa University, Tamil Nadu	2016	

RESEARCH AND ACADEMIC CONTRIBUTION:

A: DETAILS OF RESEARCH PAPERS PUBLISHED

i) Refereed Journals* (throughout the career)

<i>Title of the Article</i>	<i>Author</i>	<i>Co-Authors</i>	<i>Name of the Journal Vol. No. & Page</i>	<i>International / National</i>	<i>Impact Factor, Scopus index, etc.</i>
Production and characterisation of bead-free β -Chitosan/Poly (Vinyl Alcohol) nanofibers by electrospinning for tissue engineering	E. Roshan Ara Begum	Subachitra K, Kirthika C, Pitchumani Angayarkanni S, Bhavani K, Shenbagarathai R	Journal of Regenerative Engineering and Translational Medicine. Volume 10, Pg no:46-55	International	IF:2.2 (Scopus Indexed)
Synthesis, Characterisation and antimicrobial activity of extracted chitosan based silver nanoparticles	E. Roshan Ara Begum	Lavanya S, Shenbagarathai R, Bhavani K	Journal of Microbiology, Biotechnology and Food Science Volume 12(5), Pg no:1-6	International	IF:0.9 (Scopus Indexed)
Evaluation of extracted β -Chitosan from <i>Loligo duvauceli</i> for the preparation of Tissue Engineering scaffolds.	E. Roshan Ara Begum	Bhavani K, Sheela Kumari S, Maliga Devi S, Chidambaranathan Gowri Priya, Shenbagarathai R	Journal of Polymers and Environment. Volume 26 (3), Pg no:1231-1238	International	IF:5.3 (Scopus Indexed)
Evaluation of extracted chitosan from <i>Portunus pelagicus</i> for the preparation of chitosan alginate blend scaffolds	E. Roshan Ara Begum	Bhavani K, Manjula Devi, Karthika K, Chidambaranathan Gowri Priya, Shenbagarathai Rajaiah	Journal of Polymers and Environment. Volume 25 Pg no: 578-585	International	IF:5.3 (Scopus Indexed)

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Preparation of extracted chitosan scaffolds using amino acids as crosslinking agents	E. Roshan Ara Begum	Bhavani K, Mahalakshmi K, Mahalakshmi L, Shenbagarathai R	Journal of Polymer Materials.Spl. Issue: Chitin & Chitosan Volume 34(1) Pg no: 57-65	International	IF:0.3 (Scopus Indexed)
Chitosan - A Low Cost Adsorbent for Electroplating Waste Water Treatment.	E. Roshan Ara Begum	Bhavani K, Selvakumar S, Shenbagarathai R	Journal of Bioremediation and Biodegradation	International	IF:16.3

ii) Non-refereed journals with ISSN/ISBN (throughout the career)

<i>Title of the Article</i>	<i>Author</i>	<i>Co-Author(s)</i>	<i>Name of the Journal Vol. No. & Page</i>	<i>International / National</i>	<i>ISBN/ISSN</i>
Unlocking the potential of Chitosan:A Sustainable Biomaterial for Tissue Engineering	E. Roshan Ara Begum	Noor Mohammed Farooq MR,Shenbagarathai R,Suresh Govindan,Bhavan i K	ASPIRE – NCIBS Special Issue Journal Volume 10 Pg no: 21	National	ISSN No.2229-4953
Preparation of Enhanced DDA Chitosan based scaffolds for Tissue engineering	E. Roshan Ara Begum	Bhavani K, Nasitha Begum, Navaneetha Priya, Shenbagarathai R	Asian Chitin Journal Volume 10 (1) Pg no: 68-69.	International	ISSN No. 0973-3345
A study on effect of Chitosan on the growth of bitter gourd (Momordica charantia) and ridge gourd (Luffa acutangala)	E. Roshan Ara Begum	Rani D,Divya S, Fasila S, Shenbagarathai R.	Asian Chitin Journal Volume 10 (1) Pg no: 39-40.	International	ISSN No. 0973-3345

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Role of Musca domestica Linn in the Transmission of microbes causing Urinary Tract Infection	E. Roshan Ara Begum	Selvaraj Pandian R	Insect Environment, Volume 14	National	ISSN No. 0975-1963
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iii) Full paper published in the Proceedings of Conference/Seminars/Symposia, etc
(throughout the career)- **NIL**

<i>Title of the Article</i>	<i>Author</i>	<i>Co-Author(s)</i>	<i>Name of the Programme</i>	<i>Organiser</i>	<i>Date</i>	<i>ISBN/ISSN, if any</i>

B: RESEARCH PUBLICATIONS:

i) Text or Reference Books published by International publisher (throughout the career)

<i>Title of the Book</i>	<i>Author</i>	<i>Co-author</i>	<i>Name of the Publisher</i>	<i>Month & Year of publication</i>	<i>Price per copy</i>
Foraging Behaviour, Vector competence and Management of Housefly	E. Roshan Ara Begum	---	LAP LAMBERT Academic Publishing	June 2016	Rs 4,290

ii) Subject Books by National level publishers / State and Central Govt. Publications
with ISBN/ISSN Number: - **NIL**

<i>Title of the Book</i>	<i>Author</i>	<i>Co-author</i>	<i>Name of the Publisher</i>	<i>Month & Year of publication</i>	<i>ISBN/ISSN</i>

iii) Subject Books by other Local Publishers with ISBN/ISSN numbers - NIL

<i>Title of the Book</i>	<i>Author</i>	<i>Co-author</i>	<i>Name of the Publisher</i>	<i>Month & Year of publication</i>	<i>ISBN/ISSN</i>

iv) Chapters contributed to edited knowledge-based volumes published by the International Publishers: - NIL

<i>Title of the Book</i>	<i>Name of the Editor</i>	<i>Chapter contributed</i>	<i>Author/ Co-Author</i>	<i>Name of the Publisher</i>	<i>ISBN/ ISSN</i>

v) Chapters in knowledge-based volumes by national level publisher with ISBN/ISSN and with numbers of national and international directories: - NIL

<i>Title of the Book</i>	<i>Name of the Editor</i>	<i>Chapter contributed</i>	<i>Author/ Co-Author</i>	<i>Name of the Publisher</i>	<i>ISBN/ ISSN</i>

C : DETAILS OF RESEARCH PROJECTS

i) Major/Minor Research Projects (throughout the career) - NIL

<i>Title of the Project</i>	<i>Minor / Major Project</i>	<i>Funding Agency</i>	<i>Period</i>

D: RESEARCH GUIDANCE

i) Details of Ph. Ds Awarded/Submitted- NIL

<i>Name of the Scholar</i>	<i>Title of the Thesis</i>	<i>Submitted / Awarded</i>	<i>Name of the University</i>	<i>Month and Year</i>

ii) Details of M.Phil. awarded- NIL

<i>Name of the Scholar</i>	<i>Title of the Thesis</i>	<i>Name of the University</i>	<i>Month and Year</i>

**E (i) Training Courses and Conferences/Seminars/Workshop attended
Refresher / Orientation Courses attended:**

<i>Orientation / Refresher</i>	<i>Organisers / Place</i>	<i>Period / Duration</i>
Virtual Faculty Development Program on Academia-Industry(AI) Connect	Bishop Heber College, Tiruchirappalli	11.11.2024 to 15.11.2024
Online Faculty Development Program on Emerging Trends in Pedagogy for Quality Excellence in Higher Education	V.V Vanniaperumal College for Women, Virudhunagar and Jamal Mohamed College, Tiruchirappalli	18.11.2024 to 24.11.2024
National Level Seven Days Upskilling Faculty Development Programme	Ayya Nada Janaki Ammal College, Sivakasi	21.02.2024 to 27.02.2024
Virtual Faculty Development Programme on Quality Improvement of Technical Education and Development of Research	Sakthi College of Arts and Science for Women, oddanchatram.	05.12.2023 to 12.12.2023
International virtual Faculty Development Programme on Current Trend In Life Sciences	Seethalakshmi Ramasamy College, Tiruchirappalli	27.11.2023 to 03.12.2023

(ii) Participation in Seminars / Conferences / Workshops / Training Programmes / Webinars:

<i>International / National / State level</i>	<i>Organizers / Place</i>	<i>Date</i>	<i>Theme of the Seminar</i>
State	Lady Doak College, Madurai	29.06.2007 to 30.06.2007	Seminar on Biomolecular Modelling from Drug discovery to Nanotechnology
State	EMG Yadava College, Madurai	09.04.2008	Awareness Programme on Patents
State	Lady Doak College, Madurai	19.10.2010	Workshop on Animal Handling
National	Lady Doak College, Madurai	10.01.2011 & 11.01.2011	Symposium on Applications of Systems Biology

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State	Lady Doak College, Madurai	08.02.2011	Awareness workshop on Intellectual Property Rights (IPR),
National	Lady Doak College, Madurai	01.03.2011 & 02.03.2011	Seminar on "Global Threat on Communicable and Non-communicable diseases,
National	Lady Doak College, Madurai	30.09.2011 to 01.10.2011	Conference on Competence Building in Higher Education - trends and Challenges
International	Lady Doak College, Madurai	11.01.2012 to 13.01.2012	conference on Science, Society and Sustainability – Many species one planet for Posterity
State	Lady Doak College, Madurai	16.02.2012 & 17.02.2012	Science Academies Lecture Workshop on Frontier Areas in Life Sciences
State	Madurai Kamaraj University	21.03.2012 to 22.03.2012	Orientation programme on Research Activities in Science,
National	Madurai Kamaraj University	21.05.2012 to 30.05.2012	Summer School on Writing Research Proposals
National	Lady Doak College, Madurai	24.09.2012 to 28.09.2012	Hands-On-Training On Bioinformatics Tools And Application
National	Lady Doak College, Madurai	04.12.2014	UGC sponsored Prof. Whitin Endowment Lecture series on "Emerging Trends In Biological Sciences
State	Lady Doak College, Madurai	02.03.2015	Seminar on Advances in Crystallography
National	Lady Doak College, Madurai	06.03.2015 & 07.03.2015	Seminar on Genomics, Proteomics a computational approach
National	Lady Doak College, Madurai	04.09.2017 to 08.09.2017	Workshop on Animal Cell Culture Techniques
State	Lady Doak College, Madurai	09.02.2018	Workshop on Grant Proposal Preparation and Quality Research Publication
State	SPEAK (An initiative of MS Chellamuthu Trust Foundation) and Lady Doak College, Madurai	10.09.2018	Training Program On Suicide Prevention
State	Lady Doak College, Madurai	20.09.18	Prof. Whitin Endowment Lecture Series Wild Life – Past, Present and Future

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National	N. Rama Varier Ayurveda Foundation, Madurai	18.01.2019 &19.01.2019	Symposium on Ayurveda Biology and Medicine
State	Lady Doak College, Madurai	24.01.2019	Hands-on training on the Interpretation of Electrochemical Impedance and TEM data,
State	Lady Doak College, Madurai	22.02.2019	Seminar on Emerging novel and functional materials
International	Fatima College, Madurai	26.02.2019	Emerging Trends in Biological Research
State	Lady Doak College, Madurai	30.07.2019	Seminar on IPR and Patents: Prospects and Challenges
International	V.V.Vanniaperumal college for Women, Virudhunagar	03.10.2019 to 04.10.2019	Conference on scientific and social approaches to mental well-being
State	The Standard Fireworks Rajaratnam College for Women, Sivakasi	30.01.2020	Workshop on Innovations in Science with 3D printing Technology using Biodegradable Plastic
National	St.Mary's College, Thoothukudi	13.05.2020 to 14.05.2020	Workshop on Mental Health and Psycho-Social Consideration During Lockdown
National	St. Joseph's College for Women, Tirupur	21.05.2020	Webinar on How to Bring Lasting Changes in Students
State	Lady Doak College, Madurai	26.05.2020 to 28.05.2020	Online Workshop on Enhancing Online Teaching and Learning Process through Technology
International	Vellore Institute of Technology (VIT), Vellore, India and Swansea University, United Kingdom	01.06.2020 to 03.06.2020	Indo-UK Virtual Conference Current Innovations and the Future of Therapeutic Developments
International	V. V. Vanniaperumal College for Women, Virudhunagar	02.06.2020 to 03.06.2020	e-Conference on Recent Biological Perspectives
National	CSIR - North East Institute of Science & Technology, Jorhat	22.06.2020 to 03.08.2020	CSIR – Online Summer Research Training Programme (SRTP)
National	Department of Science and Technology, Government of India, Vigyan Prasar	20.07.2020	Webinar on Popular Science Writing
National	CSIR-North East Institute of Science & Technology, Jorhat	01.09.2020	Workshop on Artificial Intelligence in Drug Discovery

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State	Aravind Medical Research Foundation, Madurai	14.10.2022	Seminar on Biomedical Applications of Fundamental Research and Future Potential
State	St. Joseph's College, Tiruchi	19.12.2022	Webinar on Recent trends in Advanced Polymers
National	CSIR-IMMT, Bhuvaneswar	12.06.2023 to 17.06.2023	e-workshop on Innovations & IPR
State	Aravind Medical Research Foundation, Madurai	12.10.2023 to 13.10.2023	Biopharmaceuticals: Innovations, challenges and Issues
National	Mepco Schlenk Engineering College, Sivakasi.	30.11.2023	Single-Cell Omics
National	Bharathidasan University, Tiruchirappalli	05.06.2024	Virtual conference on "Marine Environment-2024" Challenges and Opportunities
National	International Tamil Heritage Foundation	08.06.2024	Virtual conference on Genetics
National	Intellectual property office, India	06.08.2024	IP Awareness training program
National	Indian Institute of Remote sensing (IIRS), Govt of India.	11.11.2024	One day online workshop on Deep Learning on Ecological studies
State	Thassim Beevi Abdul Kader College for Women, Kilakarai	05.03.2025	Sensitization Program on DBT Star College Scheme and Workshop on Unlocking Opportunities: Proposal Writing for DBT Star College Scheme

(iii) Papers presented in Seminars / Conferences / Workshops / Training Programmes participated:

<i>International / National / State level</i>	<i>Organizers / Place</i>	<i>Theme of the Seminar</i>	<i>Date</i>	<i>Title of the Paper presented</i>
National	Lady Doak College, Madurai	National Conference on "Innovations in Biomedical Sciences" [NCIBS'25]	27.03.2025 to 28.03.2025	Unlocking the Potential of Chitosan – A Sustainable Biomaterial for Tissue Engineering

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National	Alagappa University, Karaikudi.	National Conference on “Fungal Frontier:Fungal Farming and Healthcare	17.03.2025 to 18.03.2025	Mycelium:The Mushrooming Solution for Sustainable Biomaterial
International	Alagappa University, Karaikudi.	International Conference on “Blue Economy”	20.01.2025 to 22.01.2025	Applications of Different Forms of Chitosan and Its Derivatives in Tissue Engineering
National	Thiagarajar College of Arts and Sciences Madurai	Biology Beyond Boundaries	12.03.2024 & 13.03.2024	Chitosan and its Potential Use as a Scaffold for Tissue Engineering Applications
International	Alagappa University,Karaikudi	Recent Trends In Vaccines And Biomaterials For Animal Health	01.02.2024 & 02.02.2024	β -Chitosan - A Promising Sustainable Biomaterial For Tissue Engineering
International	Sathyabama University,Chennai	Sustainable Blue Planet:Conservation,Augmentation,Remediation	08.06.2023 & 09.06.2023	β chitosan blended scaffolds - A Promising Sustainable Biomaterial For Tissue Engineering
National	Bharathidasan University, Tiruchirapalli	Recent Trends in Microbial Biotechnology	24.02.2023	Preparation and Evaluation of extracted Chitosan - Poly-Vinyl Alcohol (PVA) Blend Films For Grapes (<i>Vitis vinifera</i>) Packaging
International	The American College, Madurai	Novel Paradigms in Microbiology for Sustainable Future	10.11.2022 & 11.11.2022	Extraction and evaluation of antimicrobial properties of β -Chitosan against selected ocular pathogens
International	Bishop Heber College, Tiruchi	Biological Innovations and Computational Exploration for Pandemic challenges	24.02.2022 & 25.02.2022	Wealth from Poultry wastes: Keratin as biocomposite films
National	The American College, Madurai	Recent Trends in Biological Sciences	03.02.2020	Preparation and characterisation of Tetracycline loaded extracted chitosan films for Dental Application

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National	Gandhigram Rural Institute-Deemed University, Dindigul	Application of the derivatives of chitin and chitosan	22.08.2014 & 23.08.2014	Preparation of Enhanced DDA Chitosan blend Scaffolds for Tissue Engineering
National	Gandhigram Rural Institute-Deemed University, Dindigul	Recent Advances In Water & Waste water Treatment	21.03.2014 & 22.03.2014	Sorption of Heavy metals (CrVI & PbII) from tannery effluent using Chitosan
National	Karpaga Vinayaga college of Engg and Technology, Kolambakkam	Applications of Biomaterials and Nanomaterials in Biomedical Engineering	13.03.2014 & 14.03.2014	Preparation of Chitosan-Alginate Blend scaffolds for Tissue Engineering
International	Hindustan Institute Of Technology, Coimbatore	Nanobio, Biomimetic materials & its applications	27.02.2014 & 28.02.2014	Fabrication of Marine Origin Chitosan Scaffolds Using Amino Acids
National	CSIR- IHB, Palampur, Himachal Pradesh	Emerging Issues In Chitin and Chitosan Research	07.06.2013 & 08.06.2013	Chitosan - A Low Cost Adsorbent For Electroplating Effluent Treatment

(iv) Details of Invited lectures in Conferences/Seminars/Symposia, etc.

<i>Name of the Programme</i>	<i>Organiser of the Programme</i>	<i>Level: International / National</i>	<i>Topic</i>	<i>Date</i>
Workshop on Animal Cell culture techniques	Lady Doak College Sponsored by DBT,TNSCST	National	Preparation of 3D Scaffolds for tissue Engineering	04.10.2017 & 08.10.2017
Workshop on Animal Cell culture	Lady Doak College	National	Lymphocyte Separation from Human blood"	15.12.2016

F. Awards won

Name of the Award	Organisers of the Award	Date
Special Jury National Award For Excellence In Education - 2024	Association of Muslim Professionals,Mumbai	05.09.2024
Katie Wilcox Teacher of the Year Award	Lady Doak College	26.03.2019

G. Membership in Board of Studies:

Name of the University / Autonomous College(s)	Chairman / Member	Period
Department of Biotechnology Lady Doak College, Madurai	Chairman	2018 – 2022
Department of Biotechnology Lady Doak College, Madurai	Secretary	2012-2017
Department of Biotechnology Lady Doak College, Madurai	Member	2007-2012

H. Position held in University Exam Related Works:

Name of the University	Chairman / Chief Examiner / Question Setter	Period
Lady Doak College, Madurai.	Question Setter	2024-2025
Cauvery College of Arts and Science, Tiruchirappalli.	Question Setter	2023-2024
EMG Yadhava College, Madurai.	Question Setter	2023-2024
The American College, Madurai.	Question Setter	2022-2023
V.V.Vanniaperumal College for Women, Virudhunagar.	Question Setter	2022-2023
Sri Krishna Arts and Science College, Coimbatore.	Question Setter	2021-2025
Nehru Arts and Science College, Coimbatore.	Question Setter	2021-2022
Vivekananda Arts and Science College, Tiruchengode, Namakkal.	Question Setter	2017-2018
Thiagarajar Arts and Science College, Madurai.	Question Setter	2018-2019

St.Mary College,Thoothukudi.	Question Setter	2024-2025
Selvam College of Arts and Science, Namakkal	Question Setter	2018-2019
Rajah Serfoji Government College,Thanjavur	Question Setter	2016-2017

I. Various Positions held in the college so far:

Name of the Position	Period	Achievements
Nature Club Convenor	2023-Till date	Organising activities and events pertaining to nature conservation
Science Club Convenor	2023-Till date	Organising guest lectures and events to promote scientific temper

J. Other Achievements:

Additional Diploma

- ❖ Diploma in Urdu Language from National Council for Promotion of Urdu Language, Ministry of Human Resource Development, Government of India
- ❖ Post Graduate Diploma in Bioinformatics from the Annamalai University ,SDE,India.

Online Courses Completed

- ❖ December 2024 | Generative AI in research evaluation conducted by Researcher Academy, Elsevier
- ❖ May 2025 | Standing up for Science conducted by by Researcher Academy, Elsevier
- ❖ April 2024 | completed course on Be a Better Birder: Colour and Pattern, Cornell Lab,Bird Academy
- ❖ July to September 2023 | completed NPTEL course on Tissue Engineering as Topper(Top 5%) ELITE WITH SILVER MEDAL
- ❖ December 2022 | Online Peer Reviewer course conducted by Researcher Academy, Elsevier
- ❖ December 2022 | Online course on Introduction to Biology: Ecology conducted by Rice University through Coursera

- ❖ April 2021 | Online course on The Introduction to Psychology conducted by University of Toronto through Coursera
- ❖ February to March 2021 | Completed NPTEL course on Bioenergetics of Life Processes as Topper ELITE WITH SILVER MEDAL
- ❖ July 2020 | Online course on Vital Signs: Understanding What the Body is Telling us conducted by University of Pennsylvania through Coursera
- ❖ July 2020 | Online course on Human Physiology conducted by Duke University through Coursera
- ❖ May 2020 | Online course on Introduction to Food and Health conducted by Stanford University through Coursera
- ❖ April 2020 | Online course on The Science of Well-Being conducted by Yale University through Coursera
- ❖ August to October 2019 | completed NPTEL course on Nanotechnology in Agriculture as Topper ELITE WITH SILVER MEDAL
- ❖ February 22 to April 6, 2019 | Online course on General Course on Intellectual Property held from conducted by World Intellectual Property Organisation (WIPO)
- ❖ January to April 2019 | completed NPTEL course on Animal Physiology as Topper ELITE WITH SILVER MEDAL
- ❖ February to March 2018 | completed NPTEL course on Research Writing with ELITE CERTIFICATE
- ❖ August to October 2017 | completed NPTEL course on Cell Culture Technologies as Topper ELITE WITH GOLD MEDAL (Top 5%)
- ❖ January 23 to February 17, 2017 | completed NPTEL course on Outcome Based Pedagogic Principles for Effective Teaching with ELITE CERTIFICATE

Other Academic Merits

- Served as the translator and successfully completed the translation of NPTEL Course on Computational Biology (10 hrs) in Tamil language offered by IIT, Madras (2025-2026)
- Delivered an Interview in All India Radio (AIR), Madurai and sponsored by Vigyan Prasar, New Delhi. on the occasion of World Meteorological Day titled “Valimandala Paathukaapil Namathu Pangalippu” on 23rd March 2025

- Served as the interview panel member for the recruitment of faculty for the Department of Zoology, Mohamed Sathak Hamid College of Arts and Sciences for Women, Ramanathapuram on 27th May 2024.
- Received Recognized Reviewer status for Carbohydrate Polymers – An Elsevier Journal
- Recognized Reviewer status for Walailak Journal of Science and Technology
- Served as an external expert reviewer for the evaluation of research proposals submitted under Biotechnology Scheme in Council of Science and Technology, Department of Science and Technology, Government of U.P, India
- Exam Convenor for the State level competitive exams: SET (2017)
- Weekly on Sundays starting July 6, 2003 for 13 weeks | Participated in the “Biotechnology in the welfare of cattle rearing” - "Uyirin Uyirae" a Radio Programme on Biotechnology, Broadcasted by All India Radio, organized by Tamil Nadu Science Forum in collaboration with AIR, Madurai and sponsored by Vigyan Prasar, New Delhi.

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