

BIOGRAPHY

General- Education- Teaching- Research- Administration-Extension



Dr.N.UMA MAHESWARI
Principal



SENGAMALA THAYAAR EDUCATIONAL TRUST WOMEN'S COLLEGE (AUTONOMOUS)
(Accredited by NAAC) (An ISO 9001:2015 Certified Institution)
(Affiliated to Bharathidasan University, Tiruchirappalli)
SUNDARAKKOTTAI-614016, MANNARGUDI

RESUME

ABSTRACT		
1.	Name	Dr. N.Uma Maheswari.
2.	Educational qualifications	M.Sc., B.Ed., Ph.D
3.	Designation	Principal
4.	Contact address	2, Thirumanjana Veedhi Mannargudi, Thiruvarur (Dt), Pin:614001 E-Mail: umasamyamf@gmail.com
5.	Phone numbers	9942083056, 8778382169
6.	Field of specification	Environmental and Agricultural Microbiology.
7.	Teaching experience	24
8.	Research experience	24
9.	BOS member	03
10.	Ph.D., Guided	04
11.	Ph.D., Scholars under my Guidance	04
12.	M.Phil., Guided	24
13.	M.Sc., Guided	109
14.	B.Sc., Group Project Guided	05
15.	Doctoral Committee Member	07
16.	Patent Filled & published	04
17.	Funded Project received	04
18.	Project Applied	03
19.	Gene Sequence Deposited	08
20.	NPTEL Completed	05
21.	E-Course Completed	06
22.	Conference Attended	30
23.	Seminar Attended	26
24.	FDP Attended	50
25.	Symposium Attended	15
26.	Webinar/ Awareness Attended	31
27.	Workshop Attended	17
28.	Books written	02
29.	Book Chapters	73
30.	Research articles Publication	121
31.	Seminar organized	13
32.	Invited special lectures	03
33.	Presidential address delivered	10

34.	Gone as a resource person to schools and colleges	03
35.	Special trainings underwent	05
36.	Positions held in the career	20
37.	Membership in other professional bodies	07

GENERAL

1. Name : **Dr. N. UMA MAHESWARI**
2. Address (Residential) : 2, ThirumanjanaVeedhi
Mannargudi,
Thiruvarur- Dt. Pin: 614 001.
3. Designation : Principal
4. Department : Microbiology
5. Age & Date of Birth : 46 yrs, 29.11.1978
6. Area of Specialization : Agricultural and Environmental Microbiology
7. Educational Qualifications : **M.Sc., Ph.D., B.Ed.,**

EDUCATION

Exam Passed	Board/University	Subjects	Year	Division/ Grade Merit etc.
High School	State board	Tamil, English, Maths, Science & Social science	1993	First class
Higher Secondary	State board	Tamil, English, Maths, Physics, Chemistry, Biology	1995	First class
Bachelor Degree(s)	Bharathidasan University	Microbiology	1996-1999	11 th Rank with Distinction
Master Degree(s)	Bharathidasan University	Microbiology	1999-2001	1 st Rank with Distinction (Gold medal)

Research Degree(s)	Bharathidasan University	Microbiology	July 2008	Highly Commended
B.Ed.,	Tamil Nadu Teachers Education University	Biological Sciences	2014	First Class

TEACHING

Total Teaching Experience:

S. No.	Name of the Institution	From	To	YY/MM/DD
1.	S.T.E.T Women's College, Mannargudi	October 2001	April 2006	4 Years & 6months
2.	Shrimathi Indira Gandhi College, Trichy	June 2006	October 2007	1 Year & 5 months
3.	S.T.E.T Women's College (Autonomous), Mannargudi	November 2007	Till date	17

Total Teaching and Research Experience at S.T.E.T College (specify SF/Aided)

S.No.	Institution	From	To	Subjects Taught	Remarks
1.	S.T.E.T Women's College, Mannargudi	October 2001-April 2006 & November 2007 Onwards	Till Date	Microbiology	23Years

Orientation/ Refresher/Short Term Courses attended -

6

S.N o.	O/ R/S	Title of the Course	From	To	Name of the Institution and Place
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1	R	ICAR Sponsored Training Programme on ‘ Techniques in Soil Microbiology with emphasison Anaerobes ’.	Feb 9 th 2008	29 th 2008	Center of Advanced Studies in Agricultural microbiology, Department of Agricultural microbiology, Tamil Nadu Agricultural University, Coimbatore
2	S	UGC-HRDC sponsored Online Short term course in “Outcome based Education & Learning Outcome based Curriculum Framework”	Feb 22 nd 2022	28 th 2022	Bharathidasan University, Tiruchirappalli
3	S	UGC- MMTTC Online Short term course in Enviornmental studies	August 5 th 2025	11 th 2025	Bharathidasan University, Tiruchirappalli
4.	S	UGC- MMTTC Online Short term course in NEP 2020 Orientation& Sensitization by Pondicherry University	09.09. 2025	18.0 9.20 25.	Pondicherry University
5	S	UGC- MMTTC Online Short term course in Indian Knowledge System	Octobe r 23 rd	29 th 2025	Bharathidasan University, Tiruchirappalli
6	FIP	UGC- MMTTC Online Faculty Induction Programme	Januar y 22 nd , 2026	Febr uary 18,2 026	Bharathidasan University, Tiruchirappalli

RESEARCH

Ph.D.,

Guide Name : **Dr.T.Selvaraj**

Designation : Professor and Head, PG and Research Department of Botany and Microbiology, A.V.V.M Sri Pushpam College, Poondi

Area of Research : Agricultural and Environmental Microbiology

Topic : “Studies on the Diversity of AM fungi from Rhizhosphere soil and the roots of some fiber yielding crops and their influence on growth and productivity”.

Year of Award : 2008

Research Skill:

Mycorrhizal Technology, Biofertilizer, Vermicompost Production, Lignin Degradation, Edible Mushroom and Azolla Cultivation and Molecular Techniques and Bioinstrumentation.

Ph.D., Awarded : 04

Name of the Scholar : Dr.J.Victoria
 Topic : Characterization of Effective Microorganism (EM) used in waste water Treatment and their impact on the growth and yield of *Vigna mungo L* and *Vigna radiata L*
 Reference Number : Ref.no. 44093/Ph.d. K1/MB/PT/ RE-Reg April 2016
 Year of Award : 2018

Name of the Scholar : Dr.K.Ahilandeswari
 Topic : Organic Liquid Fertilizers and their role on the integrated nutrient Management and pest Management practices in the cultivation of rice
 Reference Number : Ref .no. 7644/Ph.d. K1/MB/PT/ -Reg April 2014
 Year of Award : 2020

Name of the Scholar : Dr.T.Vinotha
 Topic : Biofuel Production by Cellulose Fermentation using Bacterial Consortium.
 Reference Number : Ref .no. 7683/Ph.d. K1/MB/PT/ RE-Reg April 2018
 Year of Award : 2020

Name of the Scholar	:	Dr. V. Shyamala
Topic	:	Neutraceutical Potentialities of Pleurotus Spp Nanoparticles on specific and non-specific immune response of <i>Oreochromis mossambicus</i> Against <i>Aeromonas hydrophilla</i> & <i>Edwaraseilla tarda</i>
Year of Award	:	2025
Ph.D., doing under my Guidance		04
Name of the Scholar	:	M Asna
Topic	:	Identification and Characterization of Multi Drug Resistance and their Genomics from coastal region of Kerala
Reference Number	:	Ph.D /K5/DR02/22012123327/21/0158
Name of the Scholar		C. Birundha

Topic	Efficacy of Vermicompost produced from different biodegradable wastes on the growth parameters of Tomato (<i>Lycopersicum esculentum</i>).
Reference Number	Ref no: Ph .D /k5/DR02/220627110058/222/0240
Name of the Scholar	Atchaya A
Topic	Utilization of crab shell enriched liquid biofertilizer for promoting <i>Arachis hypogaea</i> L.growth
Reference Number	BDU2510282781353
Name of the Scholar	P.Kokila
Reference Number	BDU2520282781540
Topic	Integrated Mycological and phytochemical analysis of stored dried red chilli varieties with focus on aflatoxigenic fungi and sustainable storage practices

M.Phil., Guided: 24

1. C. Arunya, 2009, Studies on The Bioremediation of Glyphosate and Oxadiargyl Herbicide Using Some Bacterial Isolate.
2. S. Rathimalar, 2009, Studies on The Production and Optimization of Phb (Polyhydroxy Butyrate) Using *P.Aeuroginosa* and *Rhizobium* Sp.
3. K. Ahilandeswari. 2010, Production of Bioplastics Using *Spirulina Platensis* And Comparision With Commercial Plastic
4. R. Saranya. 2010, Studies on Fruit Rot Pathogens in Grapes and Its Control By *Trichoderma Spp*.
5. T.P. Sirchabai. 2010, Effect of *Trichoderma* Species of *Phythium Aphanidermatum* Causing Rhizome Rot of Turmeric
6. N. Anusuya, 2011, Composting of Leaf Litter by Effective Microorganisms, *Bacillus Subtilis* and *Aspergillus Niger* and Their Effect on Growth Parameters of *Vigna Radiate Linn*.
7. G. Sathiyavani, 2011, Solubilization of Phosphate by *Bacillus Spp*. From Groundnut Rhizosphere (*Arachis Hypogaea. L*).
8. S. Soundariya, 2011, Coconut Oil Cake - A Novel Substrate of Solid State Fermentation for The Production of A-Amylase using *Streptomyces Spp*.
9. R. Komalavalli, 2012, Diversity of Soil fungi from Thiruvavur District, Tamilnadu, India.
10. B. Fathima Barjana, 2014, Development of Herbicide Tolerant *Rhizobium* Species from Different Leguminous Plant.
11. K. Vidhya, 2014, Antagonistic Effect of *Trichoderma Species* against Various Fruit Pathogens.

12. M. Priya, 2015, Studies on Production, Optimization, Microbial Population, Enzyme Activity And Nutrients Status of Vermicompost, Vermiwash Using Earthworm Species.
13. A. Balasundari, 2016, In Vitro Biodegradation of Chicken Feathers by Some Keratinophilic Soil Fungi.
14. Basobi Mukherjee, 2016, Biological Control of Narrow Brown Leaf Spot and Leaf Smut Disease In Paddy Crops By Some Antagonistic Fungi.
15. C. Devi, 2016, Isolation and Identification of Bacterial Pathogens Form Wounds Of Diabetic Patients.
16. S. Piraimathi, 2017, Isolation, Screening and Molecular Characterization of Zinc Solubilizing Bacteria from Different *Rhizospheric* Soils.
17. A. Rekha, 2017, A Microbial Prospective Study of Urinary Tract Infection With Reference To *Acrois Calamus* L.
18. P. Kokila., 2018, Evaluation of Phytochemicals And Isolation of Endophytic Fungi From Selected Medicinal Plants And Its Antimicrobial Activity.
19. K. Vaishnavi, 2018, Perspective Approaches of Marine *Azotobacter sp* on The Growth And Development of *Andropogon paniculata* L.
20. R. Vinothini, 2018, Isolation and Identification of Pgpr Bacteria and Their Antagonistic Activity against Pathogens.
21. P. Jegathambal, 2020, Antibiotic resistance profile of *E.coli* isolated from in and around in Thiruvarur district, Tamilnadu, India.
22. P. Kaviyarasi, 2020, Antagonistic and phytochemical screening of Endophytic Fungi from medicinal plants.
23. N. Abirami, 2021, Efficacy of *Azolla pinnata* using sewage waste water treatment and re-use for aquaculture of *Tilapia mossambica*.
24. S. Priscilla. 2022, Green Synthesis of Silver Nanoparticles from *Acalypha Indica* L. And Evaluation of Their Antimicrobial Activity.

M.Sc., Guided: 109

1. B. Bharathi, 2002, Incidence and evaluation of peritonitis in peritoneal dialysis patients.
2. C. Elavarasai , 2002, Preliminary microbiological studies on urinary tract infections.
3. P.Prabha, 2002, Study of C-Reaction protein quantitative and qualitative in *Neonatan sepsis*.
4. N.Alamelumangai, 2003, Association of VAM fungi with *Crotalaria juncia* and its influence on growth and nutrition of onion.

5. J. Prasannadevi, 2003, Incidence of *Candida* infection in critically ill patients.
6. R. Shanmugapriya, 2003, Inhibitory effect of lactic acid and chlorine solution against *Staphylococcus aureus* and salmonella derby.
7. P. Thilagavadhi, 2003, Isolation of *Helicobacter pylori* from biopsy tissues and diagnosing its presence by doing Urea breath test.
8. V. Geetha , 2004, Studies on the dual inoculation of *Rhizobium* spp, and *Glomus mosseae* on the growth and nutrition of *Crotalaria juncea*.
9. R. Kiruthiga, 2004, Association of Arbuscular Mycorrhizal fungi with *Hibiscus cannabinus* and their influence on the growth and nutrition.
10. V. Sundari, 2004, Comparative study of different types of carrier sterilization for biofertilizer production
11. M. Vanitha, 2004, Extraction and characterization of biosurfactant by *P.fluorescens*.
12. S. Kalaiselvi, 2005, Bacteriological analysis of milk shake and flavored milk product collected from Trichy shops.
13. B. Malarkodi , 2005, Effect of chemical pesticides on beneficial bacteria.
14. N. Nageswari, 2005, Nutritional value of microbial fermented Tea.
15. G. Rethinaselvi , 2005, Production and characterization of extra cellular lipase from *A.niger*.
16. S. Geetha, 2006, Production of citric acid by *Aspergillus niger* isolated from spoiled food.
17. R. Rajalakshmi, 2006, Effect of Native AM fungi on growth, nutrition and Biochemical constituents of *Crotalaria juncea* L.
18. S. Rhama, 2006, Screening of medicinal plants and antifungal activities of *Clitoria ternata* L.
19. J. Selvathi, 2006, Influence of indigenous AM fungi on Growth Nutrition and Biochemical constituents of *Hibiscus cannabinus* L.
20. U. Josephine, 2007, Preliminary Screening of Amylase produces from the soil samples of Thanjavur district ,
21. N. Sathiya , 2007, Pharmacognostic effect of leaves extract *Moringa oleifera*.
22. S. Nithya , 2007, Occurance of Salmonella in some dehydrated fruit samples.
23. M. Sobana, 2007, Screening and antagonistic activity of *Trichoderma viridae*.
24. R. Rajalakshmi 2007, Antimicrobial activity of neem leaves against pathogens.
25. S.Vinotha 2007, Studies on the diversity of AM fungal flora in malvaceae family.
26. P. Selvi , 2007, Relp analysis of *Klebsiella pneumonia* isolated from waster sample.

27. O. Deepa, 2008, Antibacterial activity of seaweeds against *Klebsiella* sp isolated from dairy products.
28. M. Mahalakshmi , 2008, Effect of probiotics n aquaculture isolate *Vibrio* sp.
29. P.N. Nisha, 2008, Hydrolysis of hair, chrome shaving and fleshing of leather industry.
30. A. Priya, 2008, Study of antimicrobial activity of *Sesuvium portulacastrum.*, Linn.
31. M.Arthi , 2009, Biosorption of heavy metals by using free and immobilized cells of *Pseudomonas aeruginosa* and *klebsiella pneumonia*.
32. A. Josphine , 2009, Molecular characterization of probiotic bacteria *Bacillus* spp from Shrimp aquaculture ,Tamilnadu, India.
33. K. Kavitha, 2009, Microbial pigment production from *Penicillium* Spp.
34. M.Mdhura, 2009, Studies on *Vibrio* phages against pathogenic bacteria from the aquaculture environment of Tamil Nadu, India.
35. K.Sheela, 2009, Siderophore production by PGPRS isolated from paddy Rhizosphere soil.
36. J.Elakkiya , 2010, Isolation of phosphate solubilizing microorganisms from rhizosphere soil and its effect on growth of *Vigna mungo* L
37. S.Rathimalar , 2010, Studies on the production and optimization of PHB using *Pseudomonas aeruginosa* and *Rhizobium* Spp.
38. B. Malaroveyam 2010, Biodegradation of textile dye by using free and immobilized cells of *Pseudomonas aeruginosa* and *Bacillus substilis*.
39. P. Saranya, 2010, Optimization of physiological conditions for wine production from banana peel waste.
40. S.Savithiri, 2010, Effect of selected insecticides on nodulation and yield of *Vigna radiate* (Linn).
41. H. Umamageswari, 2010, Biocontrol of *Pseudomonas fluorescens* and *Bacillus substilis* against fungal pathogens isolated from selected infected leaves.
42. R. Sangeetha, 2011, Cellulase production of *Trichoderma viride* using saw dust and rice bran under submerged fermentation.
43. T.P.Sirchabai, 2011, Effect of *Trichoderma* species of on the *Pythium aphanidermatum* causing Rhizome Rot of Turmeric.
44. M. Kalaikodi, 2011, Ethanol production from cassava by co-cultures of *Aspergillus oryzae* and *Rhizopus oryzae*.
45. S. Maniyammai, 2011, Isolation and characterization of extracellular protease using *Pseudomonas aeruginosa* and *Aspergillus niger* from poultry soil.

46. R.Shalini ,2011, Plant growth promoting and biocontrol activity of *Rhizobium meliloti* against plant pathogens.
47. M.Sherley, 2011, Production of amylase using potato waste under solid –state fermentation .
48. K.Aiswarya, 2012, Conversion of natural wastes into sugar by *Trichoderma viride*.
49. E.Elakkiya, 2012, Antimicrobial potential of honey samples of *Apis cerana indica*.
50. L.Firthows Parveen, 2012, Comparative study of biosurfactant by using *Bacillus licheniformis* and *Trichoderma viride* from paper waste contaminated soil.
51. K.Ramya , 2012, Antimicrobial activity of some common species against certain human pathogens.
52. M,Suganya , 2012, Isolation and identification of carotenoid pigment producing *Streptomyces* spp from soil.
53. R. Manimozhi, 2013, Effect of hormones on micro propagation of *Cassia siamea* Linn.
54. N. Cholarani, 2013, Pharmacognostic effect of leaves extract of *Murraya purpureus* Linn.
55. A.Divya, 2013, Coliforms and heavy metals contamination in tuber and non-tuber vegetables.
56. L.S. Nasrin Sulthana , 2013, Production and optimization of Glycoamylase from Agro waste by using *Aspergillus niger* and *Aspergillus falvus*.
57. S.Sathya, 2013, Antifungal activity of Neem leaves against garlic bulb pathogens.
58. S.Sudha, 2013, Enumeration and detection of phosphate solubilizing bacteria from the gut of Earthworm varieties.
59. S. Indrapriyadarshini, 2014, Effect of different immobilization techniques on α -amylase.
60. C. Kanimozhi , 2014, In vitro anti-fusarial activity of medicinal plants.
61. R. Renuga,2014, Invitro antimicrobial activity of essential oils.
62. M. Revathi, 2014, Invertase production from *Aspergillus* species under submerged fermentation.
63. T. Vidhya, 2014, Invitro antimicrobial activity of rose varieties.
64. S. Abinaya, 2015, Effect of probiotics in the prevention of antibiotic associated diarrhea and *Clostridium difficile* infection.
65. P. Ilakkiya, 2015, Studies on vermicompost of vegetable waste using *Eisenia foetida*, *Lampitoma auritii*.
66. R. Iswarya, 2015, Characterization and viability assessment of Freeze dried bacterial liquid biofertilizer on *Capsicum annum* L.

67. M. Kalaiyarasi , 2015, Comparative study of liquid biofertilizer and carrier based biofertilizer on green leafy vegetables.
68. K. Sabitha, 2015, Morphological quality of different milk samples from Mannargudi, Thiruvarur district.
69. P. Thenmozhi, 2015, Efficacy of aqueous and enthanolic extract of *Casuarina equisetifolia* for potential antimicrobial activity.
70. A. Balasundari, 2016, Optimization and biodegradation of feather waste by *Bacillus* species.
71. V. Elakkiya 2016, Phytochemical and antibacterial potential of *Thevetia nerifolia*juss.
72. M. Malathi , 2016, Studies on bacterial, fungal diversity of Kumbakonam Taluk of Thanjaur (Dt), Tmail Nadu,India.
73. S. Sivagami , 2016, Biodegradation of textile dyes using marine *Bacillus* species.
74. G. Sivakami , 2016, Bacterial, fungal diversity of Orathanadu Taluk, Thanjavur,(Dt), Tamil Nadu. India.
75. T. Kirupa, 2017, Diversity of *Bacillus species* from Thanjavur and Nagapattinam districts, Tamilnadu, India.
76. P. Saranya, 2017, Isolation, identification and phytochemical screening of Endophytes from medicinal plants.
77. A. Stellamary, 2017, A comparative study on the PHB production by *Bacillus species* under solid state fermentation by agricultural wastes.
78. N. Subasri, 2017, Comparative analysis of antibacterial activity of commercial tea products against human pathogens.
79. P. Kokila., 2018, Microbiological assessment of locally available retailed dry fishes.
80. S. Rubini. 2018, Studies on degradation of lignocellulosic coconut waste by biological treatment methods.
81. K. Vaishnavi.2018, *In vitro* micro propagation of *Rosa damascena* Mill L.
82. R. Abirami. , 2019, Natural preparation of effective microorganisms from fruits and their antimicrobial activity against Urinary Tract pathogens.
83. P. Jegathambal, 2019, Efficacy of lignin degraded composts on growth and yield of *Abelmoschous esculentus* (L).
84. A. Keerthiga., 2019, Status of physico-chemical and biological properties Sengankadu, Muthupet Mangroves, Tamilnadu, India.
85. N. Abirami, 2020, Utilization of waste newspapers for the production of bioethanol using *Pseudomonas fluorescens*.

86. P. Kaviyarasi. 2020, Assessment of bacteriological quality of street vended ice cream.
87. P. Priyanga, 2020. Isolation of cement degrading filamentous fungi and screening of their efficacy for biocementation.
88. S.Akila , 2021, Microbial profile and hands using herbal hand sanitizer- A case study of a STET campus (Autonomous), Mannargudi – 614016.
89. S. Kiruthika , 2021, Formulation and evaluation of poly herbal hand sanitizer.
90. V. Lavanya, 2021, In vitro study on assessment and bacterial contamination of currency notes in circulation.
91. B. Snekha. 2020, Pigment production of filamentous fungi using agro – industrial products.
92. S. Priscilla, 2022, Evaluation of Heavy metals and microbial contamination of antidiabetic herbal medicine; a serious hazard to human health.
93. A. Stella Packiam, 2022, Efficacy of different types of facemask wearing to control community spread of COVID -19.
94. N.Uma Maheswari and V.Subiskha, 2023. Improved accumulation efficiency of phosphorous solubilizing bacteria on *Solanum lycopersicum* L
95. N.Uma Maheswari and R.Meena.2023. Recycling of Different Tea Powder Waste into Organic Compost and the Growth of *Vigna mungo* L
96. N.Uma Maheswari and G.Elanangai 2023. Efficacy of Phytoremediation potential of *Azolla pinnata*. L using different types of waste water.
97. N.Uma Maheswari and K Sarulatha 2023. Isolation and Biochemical Characterization of Potassium solubilizing bacteria from rhizospheric soil and their effect on *Amaranthus blitum* L.
98. N.Uma Maheswari and A. Roshan Masootha 2024. Production of single cell protein from fruit wastes using bacterial consortium and preparation of chocolates.
99. N.Uma Maheswari and P Shalini 2024. Production of bioethanol from groundnut shells and peels using bacterial consortium.
100. N.Uma Maheswari and S.Poovizhi 2024. Decolourization of textile Azo dyes by using effective bacterial consortium isolated from textile dye effluent.
101. N.Uma Maheswari and S.Ranjani 2024. Comparative study on production of quality wines from Aloe vera and pineapple and their antimicrobial profile.
102. N.Uma Maheswari and S.Kirithigha 2025. Formulation of bioorganic fertilizer by using kitchen wastes and its efficiency on green gram.

103. N.Uma Maheswari and T.Kamali 2025. Formulation and evaluation of polyherbal hand sanitizer using *Azadirachta indica* and *Eucalyptus globulus* and its antimicrobial activity
104. N.Uma Maheswari and K. Jayabharathi 2025. Conversion of waste papers into bioorganic compost and its effect on seed germination and seedling vigour of *Trigonella Foenum-graecum*.
105. N.Uma Maheswari and R.Vishali 2025. Biocolourants extraction from edible flowers and its antimicrobial activity.
106. N.Uma Maheswari and M. Sasikala 2026. Formulation and evaluation of herbal toothpaste by using eggshell as a calcium source.
107. N.Uma Maheswari and M .Janani 2026. Formulation,fermentation and comparative evaluation of fruit vinegar with commercial vinegar.
108. N.Uma Maheswari and K.Gayathri 2026. Phylloplane associated bacteria as Eco friendly biocontrol agent rice brown spot pathogen.
109. N.Uma Maheswari and K. ArulKavi 2026. Natural bioremediation of household waste water using citrus peel – derived ecosystems.

B.Sc., Group Project Guided: 05

1. L.Deepika, N.M.Farhan Barveen, T.Kamali, S.Kamatchi and R.Vishali, 2023. Microbial Assessment of commercially used different brands of talcum powder in and around Mannargudi, Thiruvavur District, Tamilnadu.
2. M.Agathiya, J.Jabirina, K.Jayabharathi, V.Ramya and S.Udhaya, 2023. Air quality assessment in Sengamala Thayaar Educational Trust Women's College (Autonomous) Sundarakkottai, Mannargudi
3. K Arulkavi, E.Bhuvanasri, k Harini, M.,Janani and A. Nithyasri 2024. Isolation and Characterization of microorganisms associated with library books.
4. M. Atchaya, V. Dharani, S. Dharshini, K. Kaviya and M. Nanthini- 2025. Microbiological quality analysis of fresh vended fruit juices sold in Roadside stalls in Thiruvavur District, Tamilnadu, India.
5. P.Atchaya , A.Deepika, M.Harini. K.Sowmiya Bai and P.Sugitha -2026. Comparative study of probiotic lactic acid bacteria isolated from milks and fermented products and their antimicrobial activity

Doctoral Committee Member for the Ph.D., Candidates: 06

S.No	Name of the Scholar	Year	Department	College Name
1.	Ms.G.Chitra	2016	Microbiology	Srimath Andavan College of arts and science, Trichirappalli.
2	Ms.H.Vajiha Banu	2015	Microbiology	S.T.E.T Women's College (Autonomous), Mannargudi
3.	Ms.G.Manimekalai	2015	Microbiology	S.T.E.T Women's College (Autonomous), Mannargudi
4.	Athiravas N.S	2022	Microbiology	S.T.E.T Women's College (Autonomous), Mannargudi
5	Jasitha P.P	2022	Microbiology	S.T.E.T Women's College (Autonomous), Mannargudi
6.	T. Mekala	2023	Microbiology	M.R Government Arts College, Mannargudi.
7	G.Prasanna Balaji.(Full-Time)	2024	Microbiology	Srimad Andavan Arts and Science . (Autonomous), Tiruchirappalli
8.	C.Sarumathi (Full-Time)	2025	Microbiology	S.T.E.T Women's College (Autonomous), Mannargudi

PATENT FILLED & PUBLISHED: 04

PATENT FILED:

Patent filed jointly with V.Shymala, Ph.D., Research Scholar on the following title (Office of controller general of patents, designs and trade marks, Department of industrial policy and promotion, Ministry of commerce and industry, Government of India)

TITLE: Neutraceutical potentialities of *Pleurotus* spp. Nanoparticles on specific and on specific immune response in *Oreochromis mossambicus*.

Publication date: 01.09.2023

PATENT FILED:

Patent filed jointly with C.Birundha by Dr.N.Uma Maheswari, on the following title (Office of controller general of patents, designs and trademarks, Department of industrial policy and promotion, Ministry of commerce and industry, Government of India)

TITLE: Efficacy of vermicompost produced from different biodegradable wastes on the growth parameters of tomato *Lycopersicum esculentum* L

Patent date: 30.06.2023

PATENT FILED:

Patent filed by Dr.N.Uma Maheswari, on the following title (Office of controller general of patents, designs and trade marks, Department of industrial policy and promotion, Ministry of commerce and industry, Government of India)

TITLE: Improved accumulation efficiency of phosphorous and potassium on selected crop by integrated nutrient management system

Patent date: 30.06.2023

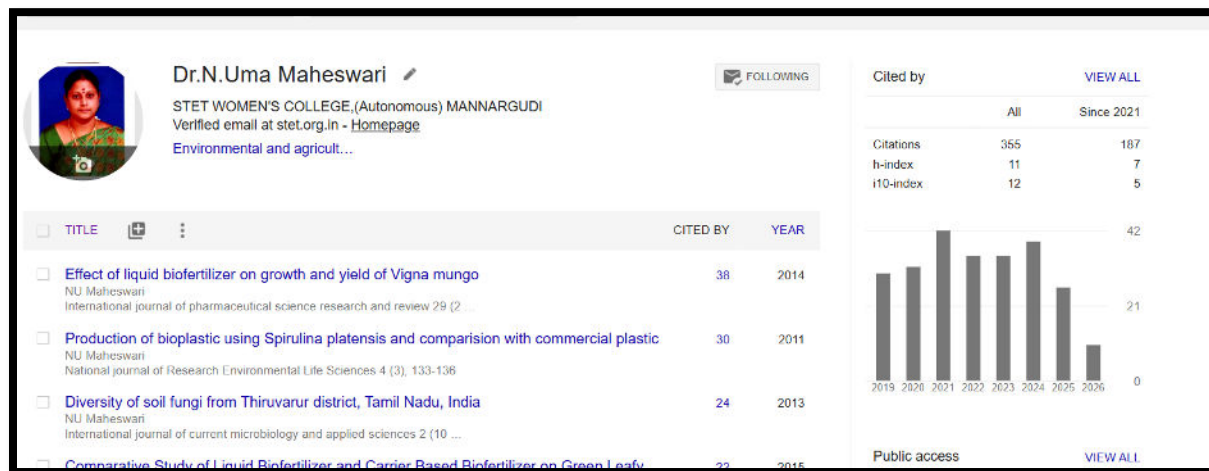
PATENT FILED: Patent filed jointly with Dr R.Nithyadharani, Dr.Pitambar tulshiram, Dr.Monika soni,Kshama deshpane, S.Amutha, V.Shyamala HUMANE by Dr.N.Uma Maheswari, on the following title (Office of controller general of patents, designs and trade marks, Department of industrial policy and promotion, Ministry of commerce and industry, Government of India)

TITLE: A silver nanoparticle-infused mycofilter derived from pleurotus florida cultivated on agricultural waste

Patent date: 30.01.2026

Google Scholar Citation:

- ❖ Citation : 355
- ❖ h-index : 11
- ❖ i10-index : 12



ORCID ID: 009-006-4850-2555

Scopus ID:50462637200.

Board of Studies Member: 03

- ❖ Chairman of Board of Studies- S.T.E.T Women's College (Autonomous)- 2020 - 2023.
- ❖ Member Board of Studies – Srimath Andavan College of Arts and Science (Autonomous), Trichirappalli- April 2021-2024 .
- ❖ Member Board of Studies – A.V.C College (Autonomous), Manampanthal April 2022-2025 .

Membership in Professional Bodies: 7

- Life Member in Microbial Society of India
- Life Member in Society for Environmental Protection
- Life member in Indian Academics Researchers Association
- Annual member in Einstein Research Academy
- Life member in Education Research and Development Association
- Life member in association of Environment and science
- Life member in Biological Science Forum

Awards and Recognition: 3

- Best Teacher award 2018
- Top 50 IQAC Co coordinators across India 2019 (ulektz Chennai)
- Perisiriya Rathna award 2019
- Best Researcher Award -2021

NPTEL/ ARPIT Course Completed: 56

- Introduction to Research (FDP)
- Plant Developmental biology (FDP)
- Biotechnology (Refresher course)
- Accreditation and Outcome based Learning (FDP)
- Soft Skill Development(FDP)

- Plastic Waste Management

Gene Sequence Deposited: 8

Name of the organisms	Deposited Date	Accession Number
<i>Lactobacillus</i>	12/02/2017	KY576673
<i>Rhodopseudomonas</i>	04/02/2017	KY523522
<i>Saccharomycetes Sp</i>	23/08/2017	KY818696
<i>Pseudomonas aeruginosa</i>	23/08/2017	MF407324
<i>Bacillus clausii</i>	23/08/2017	MF795055
<i>Bacillus subtilis</i>	02/08/2018	MH685170.1
<i>Achromobacter xylosoxidans</i>	03/06/2026	PZ4694641.
<i>Trichoderma harzianum</i>	13/06/2026	PZ503080.1

List of E. Courses Completed: 6

- Beneficial Microbes
- Botany the Subject for all
- Personality Development
- Covid 19- Issues and Challenges in Indian Higher Education
- Cracking Campus HRInterview
- Professional Skills

Funds Received: 4

S. No	Name of the Funding Agency	Year of Received	Topic
1	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai.	2020	Isolation Of Cement Degrading Filamentous Fungi And Screening of their Efficacy For Biocementation
2	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	2021	Evaluation of Heavy metal and Microbial Contamination of Antidiabetic Herbal Medicine: A serious Hazard to Human Health
3	Research and Development Cell, S.T.E.T Women's College (Autonomous), Mannargudi	2022	"Improved accumulation efficiency of phosphorous and potassium on selected crop by integrated nutrient management system"

4	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	2023	Production of Bioethanol from Groundnut (<i>Arachis hypogaea</i>) shells and peels using bacterial consortium
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Project Submitted: 03

S.No	Name of the Investigator	Name of the Co-Investigator	Funding Agencies	Title of the Proposal	Amount
1	Dr.N.Uma Maheswari	Dr.M.Kannahi Dr.R.Mangalanayaki Dr.G.Manimekalai	Chief Minister Research Grant	Waste to Wealth through Microbiological Interventions	Rs. 39,98,390
2	Dr.N.Uma Maheswari	Dr.M.Kannahi	CSIR-ASPIRE Women Scientist	Formulation and evaluation of novel herbal feminine wash against Urinary Tract Infection	18,00000
3.	Dr.M.Kannahi	Dr.N.Uma Maheswari	CSIR-ASPIRE Women Scientist	Formulation of bio-plastic from fruit wastes using microbes	18,00000

Conferences attended : 30

1. N.Uma Maheswari, and S. Kalaiselvi, 2004. 'Incidence and Evolution of Peritonitis in peritoneal dialysis patients' In: Abstract of papers, State Level Conference on Sustainable trends in bioscience Organized by MaruthuPandiyarCollege,Thanjavur.
2. N.Uma Maheswari, and S. Kalaiselvi, 2005.'Characterization and detecion of *Aeromonas spp.* isolated from fishes' In: Abstract of papers, National level Conference on Aquaculture Biotechnology, conducted by Dept. of Microbiology, A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
3. N. Uma Maheswari and S. Indhumati 2007. 'Molecular and Epidemiological Characteristic of virulent strains of *E. coli* In: Abstract of papers National Level Conference on Environmental Challenges and Management, Dept of Environmental Sciences, Bharathiar University, Coimbatore -46.

4. N.Uma Maheswari, M.Sherly and M.Marikani.” Characteristics and antimicrobial activity of *Actinomycetes*” National conference on Biotechnology its advent and future promises at Bishop Heber College, Trichy On Jan 6th 2011.
5. N.Uma Maheswari, K.Aiswariya, R.Malaroveyum. Biodegradation of textile dye by using free and immobilized cells of *Pseudomonas aeruginosa* and *Bacillus subtilis* “International conference on Microbiology for better Tomorrow” Dhanalakshmi srinivasan college of arts and science for women Perambalur on August 30th2011.
6. N.Uma Maheswari, L. Firthowsparveen, S.Savithiri. Effect of selected insecticides on nodulation and yield of *Vigna radiata* L “International conference on Microbiology for better Tomorrow” Dhanalakshmi srinivasan college of arts and science for women Perambalur on August 30th2011.
7. N.Uma Maheswari, A.Divya and K.Aishwarya. Conversion of natural wastes into sugar by *Trichoderma harzianum*. National conference on Advances in Modern Biology and Environment Department of Zoology, H.H. The Rajah’s Govt.college, (Autonomous B+), Pudukkottai on 7 - 8.02.2013
8. N.Uma Maheswari, and R.Komalavalli. Diversity and distribution of soil fungi from Needamangalam Taluk, Thiruvarur-dt National conference on Advances in Modern Biology and Environment Department of Zoology, H.H. The Rajah’s Govt.college, (Autonomous B+), Pudukkottai on 7 - 8.02.2013.
9. N.Uma Maheswari , and T.Vinotha .Production and optimization of cellulose enzyme from agricultural wastes National conference on Advances in Modern Biology and Environment Department of Zoology, H.H. The Rajah’s Govt.college, (Autonomous B+), Pudukkottai on 7 - 8.02.2013
10. N. Uma Maheswari and V. Sridevi “Effect of different pesticides on beneficial paddy field soil microorganisms”. In abstract of poster National conference on Human Health Care Challenging Issues and Biotechnological Approach on 15th and 16th October 2008, Annai College of Arts and Science, Kumbakonam.
11. N. Uma Maheswari and M. Madhura “Association of AM Fungi with *Hibiscus cannabinus* Linn and their influence on growth and nutrition”. In abstract of poster National conference on Human Health Care Challenging Issues and Biotechnological Approach 15th and 16th October 2008, on Annai College of Arts and Science, Kumbakonam.
12. N. Uma Maheswari, 2014, Three days National Conference on AMI-EMMT Organised by Agricultural University, Coimbatore.

13. N.Uma Maheswari International conference on Intellectual Property Rights in Biodiversity and Biotechnology” Microbial load of hand and face wash - A.V.V.M Sri Pushpam College, Poondi- 15.09.2015 & 16.09.2015.
14. N.Uma Maheswari – One day National Seminar cum Workshop. Organized by Department of Biotechnology and Ministry of science and technology and M.R.Government Arts College, Mannargudi. Foldscope usage for cost – effective and sustainable agriculture on 31st January 2019.
15. N.Uma Maheswari and M.Asna. Two days international conference on “Unveilling the Frontiers in Life Science- ICFLS-2023, Organized by Department of Biochemistry, Srimathi Indira Gandhi College, Tiruchirappalli, Presented a paper – Isolation of multidrug resistant bacteria from costal region of Kerala on 17.08.2023 and 18.08.2023.
16. N.Uma Maheswari. Two days National conference Cum Workshop on” Determination of Three Dimensional Structures of Small and Macromolecules using Single Crystal X- Ray Diffraction Organised By Department of Physics and Chemistry On.11.12.2023- 12.12.2023.
17. N.Uma Maheswari. International conference on Future Challenges of Microbes in Environment Organised By Department of Microbiology in Association with Microbiological Society of India on 23.02.2023
18. N.Uma Maheswari. National conference on emerging trends in Research Methodology Organised by Department of Economics in Association with IQAC on 01-03.2024- 02.03.2024.
19. N.Uma Maheswari. International conference on Organised By Department of Microbiology in Association with Microbiological Society of India on 31.07.2025- 01.08.2025
20. N.Uma Maheswari. International conference on Financial Technology and Innovation Organised by Department of Commerce in Association with IQAC on 25.08.2025- 26.08.2025 . Presented a paper on Bitcoin Vs Cryptocurrency
21. N.Uma Maheswari. International conference on Microbial innovations for a sustainable future Organized By Department of Microbiology, Jamal Mohamed College(A), Tiruchirappalli on 11.09.2025. Presented a paper on Bioactive compound producing microorganisms and screening techniques: Future trends in health and agriculture
22. N.Uma Maheswari. National conference on The Science Triad: Mathematics, Physics and Chemistry in perfect Balance Organized by Departments of Mathematics, Physics and

- Chemistry on 11.09.2025-12.09.2025. Presented a paper on Phytochemistry in natural medicine :From Traditional knowledge to science validation .
23. N.Uma Maheswari International conference on Artificial intelligence and Machine learning : Trends and Insights Organized by Department of Computer Science on 25.09.2025-26.09.2025 . Presented a paper on Integrating AI and ML in life science : Opportunities, Challenges and Future directions .
24. N.Uma Maheswari International conference on Integration of artificial intelligence in vermi composting : A sustainable approach to waste management and soil fertility enhancement organized by Department of Life science and Physical science, Jaya College of Arts and science , Thiruviravur, Chennai- 26.09.2025
25. Dr. N. Uma Maheswari and C.Birundha “Impact of Iron Oxide Nanoparticles on the Vermicomposting efficiency of *Eisenia fetida*” in International conference on Unveiling the Frontiers Life science hybrid mode (ICFLS-2023) held on 17th and 18th August 2023. Organized by the Department of Bio-Chemistry & PG & Research Department of Microbiology, Shrimathi Indira Gandhi College, Thiruchirappalli- 620002.
26. Dr. N. Uma Maheswari C.Birundha “Evaluation of Vermicomposting with organic wastes for enhancing Tomato (*Lycopersium esculantum.L*) growth and phytochemical quality” in International virtual Conference on Exploring the Frontiers of life sciences: Interdisciplinary Perspectives (EFLS’24) to be held on December 23rd 2024. Organized by the Department of Botany, Seethalakshmi Ramaswami College (Autonomous), Thiruchirappalli-620002.
27. Dr. N. Uma Maheswari C.Birundha “Sustainable Production of Hormone-Enriched Vermiwash: A Biofertilizer Approach for Enhancing Tomato (*Lycopersicon esculentum*) Growth , jaya college of arts and science held on sep 2025 Thiruviravur, Chennai- 602024;
28. Dr. N. Uma Maheswari C.Birundha, Microbial Dynamics and plant Growth- Promoting Hormones Enhanced cattle dung based vermicompost, for consideration at the conference in International conference on Dec 16-17th 2025, Kamarajar University, Madurai-625021.
29. Dr. N. Uma Maheswari C.Birundha “Role of Epigeic Earthworm Species in Optimizing Vermicomposting Efficiency and Vermicompost Quality" for consideration at the conference in National conference on one February 25-26th 2026 , ICAR- Central Island Agricultural Research Institute, Sri Vijaya puram, Andaman & Nicobar Islands.

30. Dr. N. Uma Maheswari C.Birundha “Nanoparticle-Driven Enhancement of Enzymatic and Microbial Processes in Vermicomposting Systems” at the in International conference February 26-27th 2026, Sastra deemed university, Kumbakonam.

Seminars Attended: 26

1. Participated in the Regional Level Seminar on ‘Biomolecules and human health’ on 14th September at Ponnaiah Ramajayam college, Thanjavur. Participated in Intellectual and Cultural Extravaganza BIOTA (2000), conducted by Jamal Mohamed College, Trichy.
2. Participated in State level seminar on Recent Trends in chemistry and biochemistry on 06.09.2006 at Theivanai Ammal College for Women, Villupuram-2.
3. Participated in Seminar on ‘Modern Tools in Biotechnology’ on 22nd Feb. at School of biotechnology and Genetic engineering, Bharathiyar University, coimbatore-46.
4. N. Uma Maheswari, 1999. ‘Role of microbes in Genetic engineering’ In: Abstract of papers, State Level Intercollegiate Students Seminar on Microbiology, conducted by Dept. of Botany and Microbiology, A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
5. N. Uma Maheswari, and S. Kalaiselvi 2006. ‘Bacteriological analysis of milk shake and flavoured milk product collected from Trichyshops’ In: Abstract of papers, UGC Sponsored National level Seminar on Emerging Trends in life science, Organized by Department of Zoology, Bishop Heber College, Trichy.
6. N.Uma Maheswari, and S. Rhama, 2006. ‘Antifungal activities of *Clitoria ternatia* L., against the fungi *Candida albicans* and *Cryptococcus neoformans* In: Abstract of papers, National level seminar on Emerging Trends in life sciences, organized by Dept.of Microbiology, Shrimati Indira Gandhi College Trichy 9th and 10th October 2006.
7. N.Uma Maheswari, and J. Selvathi, 2006. ‘Influence of Indigenous AM fungi on growth and nutrition and biochemical constituents of *Hibiscus cannabinus* L., In: Abstract of papers, National level seminar on Emerging trends in life sciences, Shrimati Indira Gandhi college, Trichy 9th and 10th October 2006.
8. N. Uma Maheswari and S. Rethinaselvi, 2006. ‘Production and Characterization of extra cellular lipase from *Aspergillusniger* In: Abstract of papers, National Seminar on Emerging Trends in lifescience, Shrimati Indira Gandhi College, Trichy 9th and 10th October 2006.
9. N. Uma Maheswari, M.Kannahi, C.Divya ,P.sivasankari.” Isolation of bacterial pathogen from raw seafoods ,poultry products, meat and antibacterial activity of selected

- seaweeds”, National seminar on Imaginations and Innovations in biotechnology on Sep 16th, 2009, Dept of biotechnology, P.R. Engineering college, Vallam. Thanjavur.
10. N.Uma Maheswari, M.Kalaikodi, J.Elakkiya Isolation of phosphate solubilizing microorganisms from rhizosphere soil and its effect on growth of *Vigna mungo L* “State level seminar on Recent research in Biological sciences at BBRC Institute on Jan 7th 2011.
 11. N.Uma Maheswari, S.Maniyammai, K.Sheela. Siderophore production by PGPRS isolated from paddy rhizosphere soil. “State level seminar on Recent research in Biological sciences BBRC Institute on Jan 7th 2011
 12. N.Uma Maheswari. K.Aiswariya, N.Alamelumangai. Association of VAM fungi with *crotalaria juncea* and its influence on growth and nutrition of onion. National seminar Biotechnological and nanotechnological approaches in food processing. On Jan 21st 2012.
 13. N.Uma Maheswari, L.Firthowparveen, S.Thilagavathi. Isolation of *Helicobacter pylori* from biopsy tissue and diagnosing its presence by urea breath test National seminar Biotechnological and nano technological approaches in food processing on Jan 21st 2012.
 14. N.Uma Maheswari. E.Elakkiya, R.Shalini. Plant growth promoting and biocontrol activity of *Rhizobium meliloti* against plant pathogens National seminar Biotechnological and nanotechnological approaches in food processing on Jan 21st 2012.
 15. N.Uma Maheswari, A.Josphine, G.Senthil “Molecular characterization of probiotic bacteria *Bacillus Sp.* from shrimp aquaculture, TamilNadu, India. National seminar on Recent trends in secondary metabolic engineering, on Jan 5th 2010, Department of Plant science, Bharathidasan University, Trichy
 16. N.Uma Maheswari International seminar on “Herbal Focus 2015, “Recent Trends in Standardization and Biological Evaluation of Plant Drugs” Antibacterial activity of *abutilon indicum* Srimad Andavan Arts & Science College, Tiruchirapalli – 29.09.2015 & 30.09.2015.
 17. N.Uma Maheswari International seminar on “Current perspectives of Biosciences” – Antimycobacterial Activity of *Allium Sativum* - PG and Research Department of zoology and wild life Biology – 20.02.2016.
 18. N.Uma Maheswari International seminar on “Current perspectives of Biosciences” – Antimycobacterial Activity of *Allium Sativum* - PG and Research Department of zoology and wild life Biology – 20.02.2016

19. N.Uma Maheswari, 2018. ‘Novel avenues in environmental issues and protection
Organized by Maruthu Pandiyar College, Thanjavur.
20. N.Uma Maheswari 2023.Two Days International Conference on Unveiling the Frontiers in
life Sciences, organized by Department of Microbiology, shrimati Indira Gandhi College,
Trichy on 17.08.2023-18.08.2023
21. N.Uma Maheswari 2023: State level Seminar on “Adoption of Innovative Learning and
Teaching methods for future -Ready Teachers Organized by IQAC- NAAC Committee of
Brilliant College of Education, 15.12.2023
22. N.Uma Maheswari 2024. National level Intellectual Property Awareness Mission
Organized by Intellectual Property Office, India. 17..08.2024
23. N.Uma Maheswari.2024 National Conference on Post Covid 19 Pandemic Era - Clinical
and translational research and 44th Annual Conference of IABSMS organized by
Department of Microbiology, MR Govt Arts College, Mannargudi- 08.01.2024-
10.01.2024.
24. N.Uma Maheswari.2025 National Conference on Data science and applications organized
by PG and Department of Computer applications in association with IQAC, STET
Women’s College, Mannargudi- 23th and 24th September 2025.
25. N.Uma Maheswari.2024 International Conference on Phytopharmaceuticals–An Emerging
Platform to sustainable Health care organized by PG and Department of Biochemistry,
STET Women’s College, Mannargudi- 25th and 26th September2025.
26. N.Uma Maheswari.2025 National Conference on Microbial Insights: Currents trends,
Challenges and Future Frontiers organized by PG and Department of Microbiology, STET
Women’s College, Mannargudi- 26th and 27th February 2025.

Symposium Attended: 15

1. N. Uma Maheswari and C. Kavitha, 2008 ‘Extraction and characterization of
biosurfactants by *Pseudomonas fluorescens*. In: Abstract of paper National symposium
on Microbial biodiversity, bioremediation and Biotechnology, Dept of Microbiology and
Biotechnology, Cauvery College for Women, Trichy on 28-29, 2008.

2. N. Uma Maheswari and S. Jothilakshmi 2008 'Biocontrol of white rot fungi *Phanerochaete chrysosporium*. In: Abstract of paper National symposium on Microbial biodiversity, Bioremediation and Biotechnology, Dept of Microbiology and Biotechnology, Cauvery College for Women, Trichy on 28-29, 2008.
3. N. Uma Maheswari and T. Suganya. 'Comparative studies on amylase production by *Aspergillus niger* and *Bacillus subtilis* using Banana waste'. In abstract of paper National symposium Microbial biodiversity, bioremediation and Biotechnology, Dept of Microbiology and biotechnology, Cauvery college for Women, Trichy on 28-29, 2008.
4. N. Uma Maheswari and M. Madhura "Effect of phosphobacteria and AM Fungi application on growth and antibacterial activity of crude alkaloid extract of *Catharanthus roseus* Linn", International colloquium on Emerging biotechnology in agriculture, animal health and productivity, on Feb 22-26, 2009 at Alagappa University, Karaikudi.
5. N. Uma Maheswari and A. Josephine. "RFLP analysis of *Klebsiella Pneumoniae* isolated from water sample", International colloquium on Emerging biotechnology in agriculture, animal health and productivity on Feb 22-26, 2009 at Alagappa University, Karaikudi.
6. N. Uma Maheswari and M. Rajeswari 2008. 'Effect of probiotics on aquaculture isolate *Vibrio* spp.' In: Abstract of paper National symposium on Microbial biodiversity, bioremediation and biotechnology, Dept of Microbiology and Biotechnology, Cauvery College for Women, Trichy on 28-29, 2008.
7. N. Uma Maheswari and S. Jothilakshmi 2008 'Biocontrol of white rot fungi *Phanerochaete chrysosporium*. In: Abstract of paper National symposium on Microbial biodiversity, Bioremediation and Biotechnology, Dept of Microbiology and Biotechnology, Cauvery College for Women, Trichy on 28-29, 2008.
8. N. Uma Maheswari- Isolation, standardization, evaluation and formulation of lant derived antimicrobial compounds for the treatment of tuberculosis . National Seminar on Awareness on pathogen carriage prevention and personal health promotion among rural adolescent learners of higher education. Organized by MR. Government Arts College, Mannargudi, Sponsored by ICMR, New Delhi. On 28th July 2017.
9. N. Uma Maheswari, Inoculum production of arbuscular mycorrhizal fungi using sugarcane bagasse as substrate, International seminar on Microbes, Microbial Process and Products" (MMPP17), organized by PG and Research Department of Microbiology, STET Women's College, Mannargudi - 12th September 2017.

10. N.Uma Maheswari, Antibacterial activity of leaf extracts *Aloe vera* and *Ocimum basilicum* against gram positive bacteria, National seminar on Herbal Drug Development”organized by Department of Biochemistry, STET Women’s College, Mannargudi.- 22nd September 2017.
11. N.Uma Maheswari- Biodiversity of endophytic fungi in traditional medicinal plants Recent advances in modern biology and rural development (RAMBARD – 2017)” organized by Department of Botany and Microbiology, A.V.V.M Sri Pushpam college, Poondi- 5th and 6th October 2017
12. N.Uma Maheswari .Microbial profiles of hands using Hand Sanitizer –A case study of STET Campus International Symposium on Eco-friendly technologies for a sustainable future Organized by P.G & Research Department of Microbiology, Hindustan College of Arts and Science, Coimbatore held on 19th February 2021
13. N.Uma Maheswari. Formulation and Evaluation of poly herbal hand sanitizer on International Symposium on Eco-friendly technologies for a sustainable future Organized by P.G & Research Department of Microbiology, Hindustan College of Arts and Science, Coimbatore held on 19th February 2021
14. N. Uma Maheswari Two - day virtual seminar on Microbiology of SARS- Cov- 2 and Covid 19 Disease Features and Treatment Challenges’ on June 22 & 23, 2020, organized by P.G and Research Department of Microbiology. MR Govt Arts College, Mannargudi
15. N. Uma Maheswari International E Conference on Quantitative and Qualitative tools and aspects of social science organized by Indian Academic Researchers Association, Association with SEACOM Skills University, West Bengal, India on 04.05.2020- 17.05.2020

Webinar Attended: 30

1. N. Uma Maheswari. National Webinar on “Modern Technologies in Life Sciences” organized by the Department of Life Science in association with Research & Development Cell on 28 and 29th May – 2020.
2. N. Uma Maheswari. Seven Days Online course on Aspirants in CSIR NET in life Science organized By P.G & research Department of Zoology, Jamal Mohammed College, Thiruchirappalli on 5th -11th May 2020
3. N. Uma Maheswari “StateLevel Online Survey on Immunity to Face Covid 19” organised by Department of Biotechnology during June 2020, KUMARARANI MEENA MUTHIAH COLLEGE OF ARTS & SCIENCE, Chennai..

4. N. Uma Maheswari. National Webinar on Impact of COVID-19 on Biodiversity and its Conservation organized by the Department of Botany and Research Department of Zoology, Seethalakshmi College, Trichy on 10.06.2020
5. N. Uma Maheswari. National Webinar on Applications of Grammar Systems to Cryptography organized by Department of Mathematics by St. Josephs Institute of Technology, Chennai on 22.06.2020
6. N. Uma Maheswari. National Webinar on Impact of Covid-19 on biodiversity and its conservation organized by Department of Botany and Zoology, Seethalakshmi Ramaswamy (A) College, Trichy on 10.06.2020
7. N. Uma Maheswari. One Day Webinar on Mangroove environment Organized by Department of Botany and Zoology, AVVM Sri Pushpam, College, Poondi. On 05.06.2020
8. N. Uma Maheswari. One Day Webinar on an overview of Silkworm Rearing Organised by Department of Zoology, Arignar Anna Government Arts College, Namakkal on 12.07.2020
9. N. Uma Maheswari. One Day National level Webinar on “Recent Trends in Medical Microbiology” organized by PG & Research Department of Microbiology Idaya College for Women. Kumbakonam, on 02-07- 2020.
10. N. Uma Maheswari. International Webinar on Micro biome and Proteome in Human life Organised by Department of Zoology & Botany, Bon Secours Arts and Science College, Mannargudi on 20.04.2021
11. N. Uma Maheswari One Day Webinar on Intellectual Property Right Organised by Center of Entrepreneurship Development Cell, Bharathidasan University, Trichy, Jointly With MSME Development Institute, Chennai on 10.02.2021
12. N. Uma Maheswari One Day Webinar on Current Perspectives and challenges in biological Sciences organized by Department of Biochemistry, STET Women’s College(A), Mannargudi on 01.03.2021-02.03.2021
13. N. Uma Maheswari. National Webinar on Gender Discrimination organised by Nirmala College for women, Coimbatore on 10.05.2021
14. N. Uma Maheswari One Day Webinar on English is made easy organised by PPG College of Arts and Science, Coimbatore on 20.05.2021
15. N. Uma Maheswari. National Webinar on Current Scenario in Teaching English Organised by Lord Institute of Engineering and Technology, Hyderabad on 24.05.2021

16. N. Uma Maheswari. National Webinar on Biodiversity: Life Insurance for Changing our world Organised by Mannar Thirumalai Naicker College. Autonomous, Pasumalai, Madurai on 26.05.2021
17. N. Uma Maheswari National Webinar on Tips for engaging students in an online class Organised by Lord Institute of Engineering and Technology, Hyderabad on 26.05.2021
18. N. Uma Maheswari . National Webinar on Research Ethics And Publication Ethics& Hands on training on Plagiarism Checking Organised by Indian academic Researchers Association, Thiruchirappalli on 12.05.2020-15.05.2020
19. N.Uma Maheswari. International Webinar on Covid -19 Vaccine Development Organised by Department of Microbiology, Ayya Nadar Janakiammal College(Autonomous), Sivakasi on 15.05.2020
20. N.Uma Maheswari. One Day Webinar on COVID-19 Pandemic: Relevant India Specific Information for Safety Professionals Organised by Team TECH, Chennai on 23.04.2020
21. N.Uma Maheswari. One Day Webinar on *Soft skills for EHS Professionals* Organised by Team TECH, Chennai on 01.05.2020.
22. N.Uma Maheswari. Webinar Series for Faculty entitled “Bioscience for Enriching Human Life” organized by the Department of Biochemistry & Microbiology, Sri Ramakrishna College Arts & Science for Women, Coimbatore from 14.05.2020 to 17.05.2020
23. N.Uma Maheswari. One Day Webinar on Guidelines for writing a Research Paper Organised by Research Committee, Arasu Engineering College, Kumbakonam on 22.05.2020
24. N.Uma Maheswari. One Day Webinar on Trends and Opportunities in Life Science Department of Microbiology, Cauvery College of Arts and Science, (Autonomous), Trichy on 03.05.2020
25. N.Uma Maheswari. One Day Webinar on *Intellectual property rights* Research Development Cell, STET Women’s College, Sundarakkottai on 22.05.2020
26. N.Uma Maheswari. International Webinar on *Trends in Microbiology Organised by* Department of Microbiology, J.J College of Arts and Science, Pudukkottai on 18.05.2020- 20.05.2020.
27. N.Uma Maheswari. One Day Webinar on How to be a Successful Instructional Designer in E learning? Organised by Zillion Clubs, Chennai on 30.04.2020

28. N.Uma Maheswari. One Day Webinar on Bio Science for enriching Human life Organised by Sri Ramakrishna College of Arts and Science, Coimbatore on 14.05.2020-17.05.2020
29. N.Uma Maheswari. One Day Webinar on Leadership Talk organized by MHRD Cell on 30.05.2020
30. N.Uma Maheswari. Three Days International Webinar on co existence with Covid -19 organized by PG & Research Department of Microbiology, Idhaya College For Women, Kumbakonam. Thanjavur(Dt.) from 16th July 2021 to 18th July 2021
31. N.Uma Maheswari. Investor Awareness Program conducted by FinEdu Connect in association with the Department of Accounting and Finance - Shift II, Patrician College of Arts and Science, Chennai on 28th August, 2025.

Workshops attended: 17

1. State Level Workshop on Mycorrhizal technology, Organized by Department of Botany and Microbiology, A.V.V.M. Sri Pushpam College, Poondi, on March 7th 2007.
2. Workshop on Quality Research Report Writing at Bharathidasan University, Trichy on 28.02.2014.
3. Attended two days state level workshop on “Vermiculture and Mushroom cultivation and their uses” on 7th and 8th January 2015 at M.R.Govt. Arts College, Mannargudi.
4. Lecture workshop on Frontiers in Bioscience (FIBS)”. M.R. Government Arts College, Mannargudi-11.07.16 to 13.07.2016
5. Workshop on “Mushroom Cultivation and Vermiculture and their uses” organized by Mannai Rajagopalasamy Government Arts College, Mannargudi, on 7th and 8th January, 2015
6. Attended International Lecture workshop on Advances in industrial Microbiology at Idhaya College for Women, Kumbakonam on 24.01.2019
7. Attended Science Academics Lecture Workshop organized by P.G Research Department of biotechnology. Srimad Adavann College, Tirchirappalli on 14th & 15th February 2021
8. Attended Three Days National level Workshop on DNA Barcoding organized by Department of Biotechnology, Islamiah college, Vaniyambadi on 22-24th May 2020.

9. Attended Two Day National Level Virtual Workshop on “RESEARCH AND RELATED TOOLS” organised by Centre for Research and Development, CMS College of Science and Commerce, Coimbatore on 16th & 17th April 2021.
10. Attended one day online workshop on NET/ SET Course in General Aptitude and Reasoning Organized by Department of Training and Placement, Global Institute of Management on 12th September 2022.
11. Attended Four days online workshop on NTA NET/ SET Paper one Organized by Gomuguru Academy, Bangalore on 13.11.2023 -17.11.2023.
12. Attended Two Day State level workshop on English proficiency Skills, Organized by Department of English, STET Women’s College, (A), Mannargudi On 01.02.2024- 02.02.2024
13. Attended Two Day National Conference cum workshop level workshop on Determination of 3- Dimensional structures of small and macromolecules using single crystal X-ray diffraction Organized by Department of Biochemistry, STET Women’s College, (A), Mannargudi on 11.12.2023- 15.12.2023.
14. Attended Two Day National Conference cum workshop level workshop on Food safety and Quality Assurance Organized by Department of Nutrition and Dietetics, STET Women’s College, (A), Mannargudi on 03.03.2025- 04.03.2023.
15. Attended Five days workshop on AI in Education Organized by RCHUB International Foundation For research and Education , Chennai on 16.12.2024- 20.12.2024
16. Attended National level workshop on Polemics in Translation :Issues and Challenges organized by department of English on 12.02.2025- 13.02.2025
17. Attended “One day Online Workshop on "Build Your Financial Security: A Workshop for Professors and Students” organized by Star International Foundation for Research and Education on 17.09.2025

Workshops Organized: 1

1. Organized Two Days Workshop on ‘Molecular Techniques’ 6th and 8th April 2006 in Department of Microbiology, S.T.E.T. Women’s College, Mannargudi.

Faculty Development Programme: 50

1. Attended Faculty Development Programme on Tips for effective Teaching & Teaching Value, SET/NET coaching, How to use the college Library Effectively, SET/NET coaching,

How to use NPTEL Resource in S.T.E.T. Women's College, Mannargudi, from 2010 to 2014.

2. Attended a FDP on, 'How to Write Thesis?' conducted by the R&D Cell of Sengamala Thayaar Educational Trust Women's College, Mannargudi on 26.02.2015
3. Attended FDP on, 'From good to great' and 'Non-verbal Communication for Teachers' conducted by the R&D Cell of Sengamala Thayaar Educational Trust Women's College, Mannargudi on 26.09.2015
4. Faculty Development Programme was attended on July 24th - 25th organized by S.T.E.T women's College, Mannargudi
5. Attended Faculty Development Programme on Office Management at S.T.E.T. Women's College, Mannargudi on 31.12.2016.
6. Attended Faculty Development Programme on Communication Skill at S.T.E.T. Women's College, Mannargudi on 11.04.2017.
7. Attended Faculty Development Programme on Education Psychology for Effective Teaching at S.T.E.T. Women's College, Mannargudi on 12.04.2017.
8. Attended Faculty Development Programme on Workshop on Speaking Skill at S.T.E.T. Women's College, Mannargudi on 18.04.2017.
9. Attended Faculty Development Programme on Effective Scientific Paper Writing at S.T.E.T. Women's College, Mannargudi on 05.05.2017.
10. Attended Faculty Development Programme on How to plan, Draft and complete the research problem at S.T.E.T. Women's College, Mannargudi on 06.05.2017.
11. Attended Faculty Development Programme on New Techniques in Environmental Cleaning at Tamil University, Thanjavur on 29.05.2017.
12. Attended Faculty Development Programme on NPTEL training course – STET women's college on 06.01.2018
13. Attended Two Days Virtual Faculty Development Programme on Bio innovation, Patenting, entrepreneurship opportunities in biotechnology for sustainable environment -The Oxford Engineering College on 29th -30th March 2021.
14. Attended International Faculty Development Programme "Standardization and Regulatory Measures of Herbal Drugs (SRH)" organized by the Department of Botany, Bon Secours College For Women, Thanjavur, Tamilnadu. India held on 03.06.2020& 04. 06.2020
15. Seven Days FDP on "OUTSTRIP OF CATCH22" from 25th to 31st May 2020.Organized by IQAC of Annai college of Arts and Science, Kumbakonam

16. Attended Three Days online Faculty Development Programme on “Improving Your Research Visibility – Research Impact and Metrics” jointly organized by Research and Development Cell and Internal Quality Assurance Cell from 11th May to 13th May 2020 at Velalar college of Engineering Technology, Erode
17. Attended Three Days online Faculty Development Programme on Research Methodology organized by P.G & Research Department of Biotechnology Bon Secours College, Thanjavur on 29th April -1st May 2020.
18. Attended Seven Days online Faculty Development Programme on Entrepreneurship development, Research, Critical thinking, and Innovation organized by Indian Academics Researchers Association, Tiruchirappalli on 22nd -28th April 2020
19. Attended online Faculty Development Programme on Higher Education Post Covid-Random Thoughts organized By IQAC of Asian memorial college of Arts and Science, Chennai, on 11th May 2020
20. Attended online Faculty Development Programme on “Reset & Refocus” as part of faculty development program organized by MMM College of Health Sciences, on 21.07.2020.
21. Attended online Faculty Development Programme on Introduction to STATA –Tool for Data Analysis, organized by Department Of Economics, STET Women’s College(A), Mannargudi on 03.03.2021-04.03.2021
22. Attended online Faculty Development Programme on IPR Awareness commercial and competence, Oriental University, Indore, on 10.05.2021-15.05.2021
23. Attended online Faculty Development Programme on Revised NAAC Framework Accreditation and Perception organized by GTN College, Autonomous, Dindugal on 12.05.2021-15.05.2021
24. Attended online Faculty Development Programme on Understanding Research Paper rejections Organized by SS EDU Tech on 16.05.2021
25. Attended online Faculty Development Programme on Pedagogy Research and Methods Organised by AMET University on 24.-05.2021-06.06.2021.
26. Attended online Faculty Development Programme on Innovation, Incubation, Startups and research Challenges in India Organised by Sri Sai College of Engineering and Technology, Badhani pathankot on 01.06.2021-05.06.2021
27. Attended online one week International Faculty Development Programme on Curriculum Development, Research and Publication Ethics organized by Department of English, SRM Institute of Science and Technology, Chennai on 2nd to 9th August 2020.

28. Attended three days FDP entitled “Implementation of Outcome Based Education on 07.06.2022 to 09.06.2022.
29. Attended One day FDP entitled “Workshop on How to write World class Research Paper Title to Reference, Submission to Revision” by Dr.K.Thiyagesan, Former Principal, A.V.C College, Mayiladuthurai organized by IQAC on 17.09.2022.
30. Attended Three day FDP entitled “Workshop on Statistical Applications” by Dr.K.Thiyagesan, Former Principal, A.V.C College, Mayiladuthurai on 07.07.2022 to 09.07.2022.
31. Attended one week Faculty Development Programme on Learning Outcome based Curriculum Framework organized by Curriculum Development Cell and IQAC, STET Women’s College (Autonomous), Mannargudi on 22.11.2022 to 25.11.2022.
32. Attended One day Faculty Development Programme on “Identification of Government and Non Government Funding agencies and Research Proposal writing” on 04.03.2023.
33. Attended Five days National level online Faculty Development Programme on” Research Methodology and Publication of Books & Articles “on 20.09.2023-24.09.2023
34. Attended seven days workshop on Designing of question paper for course outcome measurement and question bank preparation using revised Bloom’s Taxonomy organized by IQAC, STET Women’s College (Autonomous), Mannargudi on 08 .07.2023-09.07.2023, & 15 & 16.07.2023 ,22 & 23.07.2023 &12.08.2023.
35. Attended one day Faculty Development Programme on IPR -Concepts to C Compliance organized by IPR Cell, STET Women’s College (Autonomous), Mannargudi on 07.10.2023
36. Attended Five Days Virtual International Faculty Development Programme on” Recent Trends in Biological Sciences” organized by Seethalakshmi Ramaswami College, Tiruchirappalli on 16.10.2023-20.10.2023
37. Attended UGC-Sponsored Leadership Enhancement Programme for Principals Organized By UCC-Malaviya Mission Teacher Training Centre and Council for College and Curriculum Development At Bharathidasan University On 09.12.2023
38. Attended Virtual National Level Faculty Development Programme on “Technology Integration in Learning and Teaching” organized by the Internal Quality Assurance Cell, Seethalakshmi Ramaswami College, Tiruchirappalli on 19.08.2024 to 24.08.2024

39. Attended Five days Virtual International level Faculty Development Programme on Emerging Technologies and Future trends by Loyola College (A), Chennai on 15.10.2024-19.10.2024
40. Attended Virtual National level Faculty Development Programme on “Analytical techniques “organized by Bon secours College, (A) Thanjavur on 21.10.2024- 26.10.2024
41. Attended Malaviya Mission – Teacher Training programme of University Grants Commission, MoE, GoI, on NEP 2020 Orientation& Sensitization organized by UGC-MMTTC, JNV University, Jodhpur, Rajasthan, from 07.12.2025- 15.12.2025.
42. Attended National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions” held on 6th March, 2025 through Online, jointly conducted by Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad
43. Attended Malaviya Mission – Teacher Training programme of University Grants Commission, on UGC-Sponsored Short Term Programme in Environmental Studies organized by Bharathidasan University, Tiruchirappalli from 05.08.2025- 11.08.2025.
44. Attended Malaviya Mission – Teacher Training programme of University Grants Commission on NEP 2020 Orientation& Sensitization by Pondicherry University from 09.09.2025- 18.09.2025.
45. Attended Malaviya Mission – Teacher Training programme of University Grants Commission, on UGC-Sponsored Short Term Programme in Indian Knowledge system organized by Bharathidasan University, Tiruchirappalli from 23.10.2025- 29.10.2025.
46. Attended Virtual National level Faculty Development Programme on Experimental and Computation Physics Under DBT Star Status Scheme Organized by Department of Physics, Bon Secours College for women(Autonomous), Thanjavur from 06.10.2025-10.10.2025

Invited Talk/Guest Lecture (2006 onwards) –3

1. Invited talk on ‘Transplantation Immunology’ organized by the department of Microbiology, Idhaya College of Arts and Science, Kumbakonam on 26.07.2010.
2. Invited talk on ‘AIDS Awareness’ organized by NSS Committee, S.T.E.T Women’s College, Mannargudi on 05.12.2012.
3. Invited talk on Criterion- 2 Teaching, Learning and Evaluation organized By Internal Quality Assurance Cell, STET Women’s College, Autonomous, Mannargudi on 04.06.2021

Book Published: 2

1. **Dr.N.Uma Maheswari**, 2009. **Book Name:** Mycorrhiza. **ISBN:** 978-93-80433-10-3
2. **Dr.N.Uma Maheswari**, 2025. **Book Name:** Vermiculture and Vermicomposting: A Comprehensive Guide to sustainable Soil Management. **ISBN: 978-93-6674-336-3**

Books / Books Chapters Published: 73.

1. **Dr.N.Uma Maheswari**, 2021. **Book Name:** Advances in science and technology volume-1. **Chapter Title:** Edible Vaccines: Boon or Bane. **ISBN:** 65-80 978-81-952337-6-2.
2. **Dr.N.Uma Maheswari and C.Birundha**, 2022. **Book Name:** Waste Management. **Chapter Title:** Recent trends of innovations in chemical and biological sciences. **ISBN:** 978-93-9768-73-7.
3. **Dr.N.Uma Maheswari and V.Shymala**, 2022. **Book Name:** Technologies for edible mushroom cultivation. **Chapter Title:** Compendium of chapters in modern bodern biology. **ISBN:** 978-93-93737-39-7. PP-235-253.
4. **Dr.N.Uma Maheswari and V.Shymala**, 2022. **Book Name:** Advances in science and technology volume-1. **Chapter Title:** Recent trends in nanotechnology. **ISBN:** 65-80 978-81-952337-6-2. PP-65-80.
5. **Dr.N.Uma Maheswari and M.Asna**. 2021. **Book Name:** Advances in science and technology volume-II. **Chapter Title:** Multi Drug Resistance (MDR). **ISBN:** 978-81-952337-4-8.
6. **Dr.N.Uma Maheswari and S.Priscilla**, 2022. **Book Name:** An Interventions of Biological Sciences in 21st Century. **Chapter Title:** Antidiabetic drugs Vs Antidiabetic Herbal drugs. **ISBN:** 978-93-93737-34-2.
7. **Dr.N.Uma Maheswari**, 2022. **Book Name:** **Compendium of chapters in Modern Biology**. **Chapter Title:** Herbal Medicine. **ISBN:** **978-93-93737-39-7**.
8. **Dr.N.Uma Maheswari and A.Stella Packiam**, 2022. **Book Name:** Compendium of chapters in Modern Biology. **Chapter Title:** Emerging pandemic disease – corona virus. **ISBN:** **978-93-93737-39-7**.
9. **Dr.N.Uma Maheswari and N.Abirami**, 2022. **Book Name:** Advances in Science and Technology-Volume III. **Chapter Title:** Natural disasters and its impacts of human. **ISBN:** **978-93-93253-6-50-7**.

10. **Dr.N.Uma Maheswari and N.Abirami**, 2022. **Book Name:** Advances in Science and Technology-Volume III. **Chapter Title:** Azolla production and cultivation. **ISBN:** 978-93-93253-6-50-7.
11. **Dr.N.Uma Maheswari and R.Meena**, 2022. **Book Name:** Advances in Science and Technology-Volume III. **Chapter Title:** Human gene therapy. **ISBN:** 978-93-93253-6-50-7.
12. **Dr.N.Uma Maheswari and G.Elanangai**, 2022. **Book Name:** Advances in Science and Technology-Volume III. **Chapter Title:** Microbial Insecticides. **ISBN:** 978-93-93253-6-50-7.
13. **Dr.N.Uma Maheswari and V.Subiksha**, 2022. **Book Name:** Advances in Science and Technology-Volume III. **Chapter Title:** Mycorrhizal Biofertilizer. **ISBN:** 978-93-93253-6-50-7.
14. **Dr.N.Uma Maheswari and K.Sarulatha**, 2022. **Book Name:** **Advances in Science and Technology-Volume III.** **Chapter Title:** Biofuel. **ISBN:** **978-93-93253-6-50-7.**
15. **Dr.N.Uma Maheswari**, 2023. **Book Name:** Artificial intelligence: A modern approach and applications (An Publication: Reg. Under MSME, Government of India). **Chapter Title:** Artificial intelligence in waste management. **ISBN:**978-81-963342-6-0
16. **Dr.N.Uma Maheswari and P.Shalini**, 2023. **Book Name:** Applied trends in life sciences. **Chapter Title:** Production technology for biofertilizer and bioagents for sustainable agriculture and environment- **ISBN:** 978-93-94766-40-2
17. **Dr.N.Uma Maheswari and Roshan mashotha**, 2023. **Book Name:** Applied trends in life sciences. **Chapter Title:** Spirulina farming and extraction process- *Under Processing.
18. **Dr.N.Uma Maheswari and Ranjani**, 2023. **Book Name:** Applied trends in life sciences. **Chapter Title:** Types of intellectual property origin and development- *Under Processing.
19. **Dr.N.Uma Maheswari and Poovizhi**, 2023. **Book Name:** Applied trends in life sciences. **Chapter Title:** Bee keeping- **ISBN:** 978-93-94766-40-2.
20. **Dr.N.Uma Maheswari and M K Shreeshma**, 2023. **Book Name:** Futuristic Trends in Medical Sciences, IIP Proceedings, **Chapter Title:** The Power of black pepper (Piper nigrum) in Ayurveda, Volume2, Book 21, Part 2. **ISBN:** 978-93-95632-92-8.
21. **Dr.N.Uma Maheshwari and L.Deepika** 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Pharmacognosy and Health benefits of Clove **ISBN.NO:**978-93-94638-22-8.

22. **Dr.N.Uma Maheshwari** and M.Agathiya 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Immunohematology, ISBN.NO:978-93-94638-22-8.
23. **Dr.N.Uma Maheshwari** and R.Vishali 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Population Ecology, ISBN.NO:978-93-94638-22-8.
24. **Dr.N.Uma Maheshwari** and N.M.Farhana Barveen 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Trends in Economic Zoology – Sericulture, ISBN.NO:978-93-94638-22-8.
25. **Dr.N.Uma Maheshwari** and T.Kamali 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Aquaculture techniques, ISBN.NO:978-93-94638-22-8.
26. **Dr.N.Uma Maheshwari** and S.Kamatchi 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Angiosperms or Flowering plants, ISBN.NO:978-93-94638-22-8.
27. **Dr.N.Uma Maheshwari** and K.Jayabharathi and S.Udhaya 2023, **Book Name:** Current research in Life sciences Volume I, **Chapter Title:** Corona virus, ISBN.NO:978-93-94638-22-8.
28. **Dr.N.Uma Maheshwari and C.Birundha 2023.****Book Name:** Artificial intelligence: A Modern approach and applications **Chapter title:** Artificial intelligent in waste Management.ISBN:978-81-963342-6-0.
29. **Dr.N.Uma Maheshwari 2023** **Book Name:** Artificial intelligence: A Modern approach and applications, **Chapter title:** Plant disease detection using artificial intelligence. ISBN:978-81-963342-6-0.
30. **Dr.N.Uma Maheshwari and C.Birundha 2024.****Book Name:** Futuristic Trends in Biotechnology **Volume 3 Book 24** **Chapter title:** Bioremediation of organic wastes using different Earthworms. ISBN: 978-93-6252-538-3.
31. **Dr.N.Uma Maheshwari 2024.** **Book name:** Advance Research trends in Biology, **Chapter title:** Food Microbiology, ISBN:978-93-94638-75-
32. **Dr.N.Uma Maheshwari and K.ArulKavi 2024.** **Book Name:** Advances in Multidisciplinary Research, **Chapter Title:** Natural Products in Biotic Materials of Silk. ISBN: 978-93-94375-78-9
33. **Dr.N.Uma Maheshwari 2024.** **Book Name:** Environment and Climate Changes -Volume -II. **Chapter Title:** Nutritive Status of Medicinal Plants. ISBN: 978-93-94638-44-0.
34. **Dr.N.Uma Maheshwari and K.Jayabharathi 2024.** **Book Name:** An International Textbook on Emerging and Advanced Trends in Life Science and Bioprospecting Applied

Research Bioinstrumentation. **Chapter Title:** Aquaculture Techniques: ISBN: 978-1-68576-561-3

35. **Dr.N.Uma Maheswari and R.Vishali 2024. Book Name:** An International Textbook on Emerging and Advanced Trends in Life Science and Bioprospecting Applied Research Bioinstrumentation . **Chapter Title:** Recycling of Waste Water for Agricultural use in Arid Areas. ISBN: 978-1-68576-561-3
36. **36.Dr.N.Uma Maheswari and S. Kirithigha .2024. Book Name:** An International Textbook on Emerging and Advanced Trends in Life Science and Bioprospecting Applied Research Bioinstrumentation. **Chapter title:** Causes, Effects and Solutions of Agricultural Pollution on our Environment. ISBN: 978-1-68576-561-3
37. **Dr.N.Uma Maheswari and T.Kamali 2024 . Book Name:** An International Textbook on Emerging and Advanced Trends in Life Science and Bioprospecting Applied Research Bioinstrumentation . **Chapter Title:** Horticulture and Landscape Gardening. ISBN: 978-1-68576-561-3.
38. **Dr.N.Uma Maheswari and S.Dharshini. 2025 Book Name:** Emerging Research concept in Life science Volume -I. **Chapter Title:** The Role of medicinal plants in modern Pharmacology. ISBN: 978-93-94638-91-4.
39. **Dr.N.Uma Maheswari and M.Atchaya 2025. Book Name:** Emerging Research concept in Life science Volume -I. **Chapter Title:** Crop production: Techniques and Trends. ISBN: 978-93-94638-91-4.
40. **Dr.N.Uma Maheswari and V.Dharani .2025. Book Name:** Emerging Research concept in Life science Volume -I. **Chapter Title:** Microbial Ecology: Microorganisms in Natural Environment. ISBN: 978-93-94638-91-4.
41. **Dr.N.Uma Maheswari and M.Nanthini .2025. Book Name:** Emerging Research concept in Life science Volume -I. **Chapter Title:** Medical Science and its Foundations. ISBN: 978-93-94638-91-4.
42. **Dr.N.Uma Maheswari and K.Kaviya. 2025 Book Name:** Emerging Research concept in Life science Volume -I. **Chapter Title:** Artificial intelligence In Sustainable agriculture. ISBN: 978-93-94638-91-4.
43. **Dr. N. Uma Maheswari and K. Harini 2025 . Book Name:** Advances in Multidisciplinary Research and Development (Volume - 16) **Chapter Title:** Traditional Ayurveda. ISBN: 978-81-19915-58-3

44. **Dr.N.Uma Maheswari and M.Janani, K.Arulkavi and K.Gayathri 2025. Book Name:** Innovative Technology in Life Science **Chapter Title:** Isolation and identification of micro organisms associated with library books .ISBN: 978-93-7020-786-8
45. **Dr.N.Uma Maheswari 2025. Book Name:** Innovative Technology in Life Science, **Chapter Title:** Ecofarming: Responsible and sustainable agriculture practices .ISBN: 978-93-7020-786-8.
46. **Dr.N.Uma Maheswari and A.Atchaya 2025 . Book Name:** Contemporary approaches in biological sciences..**Chapter Title:** Pest and Disease Management in Groundnut (*Arachis Hypogaea L*). . ISBN: 978-93-341-6652-1
47. **Dr.N.Uma Maheswari and Birundha.C, 2025. Book Name:** Contemporary approaches in biological sciences. **Chapter Title** Innovation in Vermicomposting Technology: A Biotechnological Perspective on OrganicWaste Management. ISBN: 978-93-341-6652-1
48. Dr. N. Uma Maheswari, M. Janani 2025. **Book Name:** Shaping the Future Through Sustainable Green Environment **Chapter title:** Biopesticides for Sustainable Soil HealthManagement. **ISBN: 978-81-990536-9-4.**
49. Dr. N. Uma Maheswari, K. Arulkavi 2025. **Book Name:** Shaping the Future Through Sustainable Green Environment **Chapter title:** Next-Generation BIOPESTICIDES: GreenChemistry Approaches and Emerging Technologies. **ISBN: 978-81-990536-9-4.**
50. Dr. N. Uma Maheswari, K. Gayathri.2025. **Book Name:** Shaping the Future Through Sustainable Green Environment. **Chapter title:** Green Chemistry Approaches to Pesticides Use and Impact. **ISBN: 978-81-990536-9-4.**
51. Dr. N. Uma Maheswari, and P.Kokila 2025 . **Book Name:** Comprehensive Research In Biological Sciences. **Chapter title:** An overview of Chilli (Recent innovations and research in life science L **ISBN: 978-93-94638-34-1.**
52. Dr. N. Uma Maheswari, P.Kokila and D.Nivetha 2025 . **Book Name:** Comprehensive Research In Biological Sciences. **Chapter title:** Microbial contamination in fruit and Fruit juices.**ISBN: 978-93-94638-34-1.**
53. Dr. N. Uma Maheswari and P.Atchaya 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:**White pumpkin cultivation :sensor application and benefits . **ISBN: 978-93-48990-98-3.**

54. Dr. N. Uma Maheswari and P.Sugitha 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:** Sustainable chemical treatments for viral infection and their impact on global health. **ISBN: 978-93-48990-98-3.**
55. Dr. N. Uma Maheswari and M.Harzini 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:** Microbial diversity in renewable energy resources . **ISBN: 978-93-48990-98-3.**
56. Dr. N. Uma Maheswari and A.Deepika 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:** Sustainable environmental impact assessment of indoor fungal contamination and pubic health risks. **ISBN: 978-93-48990-98-3.**
57. Dr. N. Uma Maheswari and M.Akshaya 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:**Soil health: Microbes play crucial role in nutrient cycling decomposition and plant health. **ISBN: 978-93-48990-98-3.**
58. Dr. N. Uma Maheswari and K.Sowmiya Bai 2025. **Book Name:** Recent Innovations and Research in life sciences. **Chapter title:** Role of soil and water microorganisms in sustainable chemical treatment **ISBN: 978-93-48990-98-3.**
59. Dr. N. Uma Maheswari and Ms. P. Kokila 2026 **Book Name:** Environmental Toxicology in the Age of Artificial Intelligence **Chapter title:** Environmental Impact of Pesticides Use in Use in Agriculture. **ISBN: 978-93-47336-49-2.**
60. Dr. N. Uma Maheswari, and K. Arulkavi 2025 **Book Name:** Shaping the Future Through Sustainable Green Environment **Chapter title:** Next-Generation Biopesticides GreenChemistry Approaches and Emerging Technologies. **ISBN: 978-81-990536-9-4**
61. Dr. N. Uma Maheswari, K. Gayathri, 2025. **Book Name :** Shaping the Future Through Sustainable Green Environment **Chapter title:** Green Chemistry Approaches to Pesticides Useand Impact .**ISBN: 978-81-990536-9-4**
62. Dr N. Uma Maheswari and Atchaya A., 2025 **Book Name:** Environmental Toxicology in the Age of Artificial Intelligence **Chapter title:** Pesticide Degradation in Agricultural Soil through Crab Waste Bioconversion. **ISBN: 978-93-47336-49-2**
63. Dr N. Uma Maheswari and M.Asna 2025: **Book Name :** Environmental Toxicology in the Age of Artificial Intelligence **Chapter title:** :Multi-Drug-Resistant Bacteria in CoastalRegions: An Exploration Using ArtificialIntelligence . **ISBN: 978-93-47336-49-2**
64. **Dr. N. Uma Maheswari and V.Shyamala 2025 Book Name:** Environmental Toxicology in the Age of Artificial Intelligence. **Chapter title:** Oyster Mushroom Farming as A

Sustainable Agribusiness: Economic Feasibility, Environmental Benefits, and Medicinal Applications **ISBN: 978-93-47336-49-2.**

65. Dr. N. Uma Maheswari and C. Birundha 2025 **Chapter Title:** Environmental Implications of Heavy Metal Contamination from Vermicompost and Vermiwash in Agricultural Soils **Book Name:** Environmental Toxicology in the Age of Artificial Intelligence **ISBN:** 978-93-47336-49-2.
66. Dr. N. Uma Maheswari, and K. Arulkavi 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Citrus-Based Eco Enzymes: A Sustainable Bio-Solution from Fruit Waste **ISBN:** 978-93-94198-39-5
67. Dr. N. Uma Maheswari and M. Janani 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Bioconversion of Fruits into Vinegar For Functional and Health Applications **ISBN:** 978-93-94198-39-5
68. Dr. N. Uma Maheswari and G. Justina Mary 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Ecology and Ecosystem **ISBN:** 978-93-94198-39-5
69. Dr. N. Uma Maheswari and M. Sasikala 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Microbial Biosensors: A Sustainable Tool for Environmental Monitoring and Protection **ISBN:** 978-93-94198-39-5
70. Dr. N. Uma Maheswari and Ms. P. Kokila 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Biogeochemical: Cycling of Elements and Their Role in Ecosystem Sustainability **ISBN:** 978-93-94198-39-5
71. Dr. N. Uma Maheswari and K. Gayathri 2026 **Book Name:** Compliance of environmental studies **Chapter title:** Eco-Friendly Microbial Strategies for Sustainable Management of Rice Diseases **ISBN:** 978-93-94198-39-5
72. Dr. N. Uma Maheswari and M. Nanthini. 2026 **Book Name:** Next generation Microbiology: Global perspectives **Chapter Title:** Microbes in therapeutics and Human health. **ISBN:** 978-81-976772-5-0.
73. Dr. N. Uma Maheswari and S. Dharshini 2026 **Book Name:** Next generation Microbiology: Global perspectives **Chapter title:** Agricultural and Soil Microbiology for food security. **ISBN:** 978-81-976772-5-0.

Research Articles Published: 120

1. N. Uma Maheswari, M. Kannahi, K. Sangeetha and S. Madhavan. 2009. Antimicrobial activity of *Azadiracta indica* A. Jurr and *Melia azadirach* L. against wound causing

- pathogenic microorganisms. *International Journal of Advances in plant sciences*. 22(II) 605-606.
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- 112.N. Uma Maheswari and K.Jayabharathi, M.Agathiya, JJabirina, V.Ramaya and A.Udhaya 2026. Air quality assessment in SengamalaThayaar Educational Trust Women'sCollege (autonomous) Sundarakkotai, Mannargudi .Vol13 (3)138-145Journal of emerging technologies and Innovative research (Peer -reviewed Referred journal).
- 113.N. Uma Maheswari , P.Atchya, M.Harzini, and P.Sughitha 2026 isolation and identification of lactic acid bacteria fromraw milk (cow, goat, buffalo) and their antimicrobialactivity. Vol13 (3)1489- 1502. *Journal of Emerging Rechnologies and Innovative Research* (Peer -reviewed Referred journal)
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- 116.N. Uma Maheswari and A.Atchaya 2026. Assessment of chitin, chitosan and physico chemical characteristics of pretreated crab waste *Portunus pelagicus*, *Spixina journal*, vol 10 (3) 88-99. (UGC care list of journal- Group 2).
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- 119.N. Uma Maheswari and M.Sasikala 2026. Formulation and evaluation of herbal toothpaste by using eggshell as a calcium source, *Spixina journal*, vol 10 (4) 97-106. (UGC care list of journal- Group 2).
- 120.Uma Maheswari and K.Gayathri 2026, Phylloplane associated bacteria as Eco friendly biocontrol agent rice brown spot pathogen. *Spixina journal*, vol 10 (4) 116-122. (UGC care list of journal- Group 2).
121. Dr. N. Uma Maheswari, and C. Birundha 2026 “Metabolite Characterization and Compost Maturity Evaluation of Vermicompost Using Gas Chromatography–Mass Spectrometry” *Spixina journal*, Vol: 10 (3), 106-118.

ADMINISTRATION

Positions Held In STET College: 20

S. No.	Positions held	From	To	Nature of work
1.	Environmental club	2002	2003	Coordinator
2.	Aluminae	2004	2005	Treasurer
3.	Admission committee	2008	Till date	Member
4.	Head of the Department	2009	2023	Head
5.	Departmental Research Committee.	2009	Till date	Chairman
6.	Discipline committee.	2010	Till date	Member
7.	Examination committee	2012	Till date	Member
8.	Anti ragging committee	2013	Till date	Member
9.	Research and Development cell	2014	Till date	Member
10.	Counseling cell	2014	2022	Member
11.	NAAC-Criterion II –Teaching, Learning and Evaluation	2014	2023	Manager
12.	IQAC	2014	2019	Coordinator
13.	Counseling cell	2014	2019	Coordinator
14.	Grievance Redressal Cell	2015	Till date	Member
15.	Vice Principal	2018	2022	Vice Principal-General

16.	Vice Principal	2022	2023	Vice Principal-Research
17.	Academic council	2020	Till date	Member.
18.	Governing body	2020	Till date	Member
19.	NCC	2023	Till date	Affairs Committee member
20.	Animal House	2023	Till date	Member Secretary.
21.	Principal	2023	Till date	
22.	Academic Council	2024	Till date	Chairman
23.	Finance committee	2024	Till date	Chairman

Other position Held in Career:13

- ❖ External examiner for B.Sc and M.Sc., Programme, Central valuation , Practical Examination of Bharathidasan University, Trichy
- ❖ Departmental Research Committee and Doctoral Committee member in Ph.D., Programme, Bharathidasan University, Trichy.
- ❖ External examiner for B.Sc., and M.Sc., Programme, Central valuation , Practical Examination of AVC college, Mayiladudhurai
- ❖ External examiner for B.Sc .,and M.Sc., Degree, Central valuation AVVM Sri Pushpam College, Poondi, Thanjavur.
- ❖ Member of UG and PG Programme question paper setter AVC college, Mayiladudhurai, AVVM Sri pushpam College, Poondi, Thanjavur, PeriyarManiyammai University, Vallam, Periyar University, Sale, . Srimad Andavan College,(Autonomous) Trichy, St Joseph College, Autonomous, Cuddalore,Muthayammal College of Arts and Science (Autonomous) Rasipuram , Salem,
- ❖ Appointed as Chairman, Chief Examiner for Bharathidasan University, Trichy, November 2010 onwards.
- ❖ External Examiner for M.Phil viva voce Examination at Bharathidasan University, Trichy and AVVM Sri Pushpam College, Poondi, Thanjavur, Madras University, Chennai.
- ❖ Research Advisor for M.Phil and Ph.D Microbiology scholars, Bharathidasan University, Trichy.
- ❖ Invited as resource person for NSS special camp.
- ❖ BoS Member from Srimad Aadavan College of Arts and Science (Autonomous). Thiruvaniaval from 2021 -2024.
- ❖ BoS Member from AVC College (A) , Mannampandal from 2023 -2025

- ❖ Chairman of Board of Studies , Academic council, Governing Body and Finance Committee

Seminar organized- 13

- ❖ **Co-ordinator**, IICPT sponsored **National level Seminar** on “Biotechnological and Nanotechnological approaches in food processing”, organized by Departments of Biochemistry, Microbiology, Biotechnology and Nutrition and Dietetics, SengamalaThayaar Educational Trust Women’s College, Mannargudi, 614 016 on 21st January 2012.
- ❖ **Organizing Secretary - State level** intercollegiate competition Micro Mistress Meet 2017 organized by PG and Research Department of Microbiology, SengamalaThayaar Educational Trust Women’s College, Mannargudi, 614 016 on 31st July 2017.
- ❖ **Organizing Secretary – International level seminar** on “ Microbes, microbial process and products” organized by PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women’s College, Mannargudi, 614 016 on 12th September 2017.
- ❖ **Organizing Secretary – Science Academis** Lecture workshop on Current Scenario in Life Sciences Sponsored by INSA organized by PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women’s College, Mannargudi, 614 016 on 11 and 12th October 2017.
- ❖ **Organizing Secretary – Training** programme on Edible Mushroom cultivation for the members of EDC organized by PG and Research Department of Microbiology, SengamalaThayaar Educational Trust Women’s College, Mannargudi, 614 016 on December 11 and 28th 2017.
- ❖ **Organizing Secretary – Organized** Bioinstrumentation training programme for HPLC GC 2018 organized by PG and Research Department of Microbiology, SengamalaThayaar Educational Trust Women’s College, Mannargudi, 614 016 on 10 and 11 January 2018.
- ❖ **Organizing Secretary - State level intercollegiate competition** Micro Mistress Meet 2018 organized by PG and Research Department of Microbiology, SengamalaThayaar Educational Trust Women’s College, Mannargudi, 614 016 on 28th September 2018.
- ❖ **Organizing Secretary – International seminar** “ Microbes interventions well fare of Human beings” organized by PG and Research Department of Microbiology,

SengamalaThayaar Educational Trust Women's College, Mannargudi, 614 016 on 12th August, 2019.

- ❖ **Organizing Secretary- Two days Virtual Technical workshop on Integrated organic farming practises** organized by PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women's College,(Autonomous) Mannargudi, 614 016 on 5th & 6th March 2021
- ❖ **Organizing Secretary- Three Days online Faculty Development Programme on Challenges of Intellectual Property Rights** , organized by PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women's College, (Autonomous) Mannargudi, 614 016 on 18th & 20th June 2021
- ❖ **Organizing Secretary - National Level online Faculty Development Programme on Mission on Interdisciplinary approaches in Biological Science** , organized by PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women's College, (Autonomous) Mannargudi, 614 016 on 20th & 26th September 2021.
- ❖ **Organizing Secretary – International seminar “ Converging Research Approaches in Life Science for Future Advancement”** organized by PG and Research Department of Microbiology, SengamalaThayaar Educational Trust Women's College, Mannargudi, 614 016 on 15th February, 2023.
- ❖ **Organizing Secretary – Seminar** on Rural urbanization under People Education programme by Khadiu Village Industries Commission with SengamalaThayaar Educational Trust Women's College, Mannargudi, 614 016 on 24.07.2025-25.07.2025

PRESIDENTIAL ADDRESS DELIVERED

- ❖ State level intercollegiate Meet , organized by Department of BBA on 14.03.2024
- ❖ Intercollegiate Meet , organized by Department of Nutrition and Dietetics on 11.03.2024.
- ❖ National level Workshop on Opportunities and Prospects of Entrepreneurship organized by Department of Commerce on 04.03.2024 - .05.03.2024.
- ❖ National level Conference on Emerging Trends in Research methodology organized by Department of Economics On 01.03.2024 - 02.03.2024
- ❖ Internation invited talk on Creating a career roadmap: Setting goals and Achieving Success by Department of Management studies on 25.07.2024.

- ❖ National level workshop on Emerging trends in startups – issues and opportunities Organised by Department of Business Administration and Economics on . 19.09.2024-20.09.2024
- ❖ International invited talk on Phytopharmaceuticals – An emerging platform to sustainable health care organized by department of Biochemistry on 25.09.2024-26.09.2024
- ❖ National level Conference on Data Science and applications organized by Department of Computer Applications on – 23.09.2024-24.09.2024.
- ❖ National level workshop on Polemics in Translation :Issues and Challenges organized by department of English on 12.02.2025- 13.02.2025.
- ❖ International level conference on Financial Technology and Innovation organized by department of Commerce on 25.08.2025- 26.08.2025.
- ❖ National level Conference on The science Traid: Mathematics, physics and Chemistry in perfect balance organized by departments of Mathematics, physics and Chemistry on 11.09.2025-12.09.2025

EXTENSION

I have been conducted various extension activities to create awareness among the school students, Self -Help groups and farmers in the field of Microbiology.

- ❖ Mass cultivation of AM fungi and N₂ fixing microbes for efficient fixation and phosphorus mobilization.
- ❖ Influence of AM fungi, nitrogen fixing (*Rhizobium*, *Frankia*, *Azospirillum*) and phosphate solubilizing microbes (PSM) on the quality and field performance potential assessment of seedlings in certain nodulating plant species.
- ❖ Assessment of efficacy and compatibility among the biofertilizers and biocontrol agents (*Trichoderma*) in the rhizosphere of certain nodulating plant species.
- ❖ Wastelands development through biofertilizers.
- ❖ Bioinstrumentation training programme was conducted for life science students.
- ❖ Edible Mushroom cultivation training to rural self-help group women's for entrepreneurship development.
- ❖ Awareness and training programme conducted for farmers to promote the organic farming.

The above said information's are true of my knowledge.

Signature



(Dr. N.UMA MAHESWARI)