



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Dr. N. Shanmugapriya

Designation : Assistant Professor

Department : PG & Research Department of Microbiology

Qualification : M.Sc., M.Phil., Ph.D.,

Experience : Teaching: 3 years 6 month **Research: 13 years**

Area of Specialization(s) : Medical Microbiology, Bioremediation

Email (Official ID) : shanmugapriyanarayanan@sigc.edu

Aadhar Number : 4502 5223 3430

Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D	Microbiology	Bharathidasan University, Tiruchirappalli	2020
M. Phil.,	Microbiology	J.J.College of Arts & Science, Pudukkottai	2010
M.Sc.,	Microbiology	J.J.College of Arts & Science, Pudukkottai	2008
B.Sc.,	Microbiology	J.J.College of Arts & Science, Pudukkottai	2006

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Black belt	SHODAN	Karate Budokan International	2018

Research Guidance

Programme	No. of Students	
	Completed	Pursuing
M.Sc.,	9	-
B.Sc.,	10	-

Research Publications (Indexed)

International

1. Chelladurai Iyyanar D(S), Ayyanar Panudrangan, **Shanmugapriya narayanan**, K.Senthil, H. M Nilofer nisha (2023). Green synthesis of Ag NP using Ficus benghalensis aerial root and its AchE inhibiting property. *Asian Journal of Biological sciences*. Vol.12 (2), 415-421.
2. Malliga. P, Bela.R.B, **Shanmugapriya.N** (2020). Conversion of textile effluent wastewater into fertilizer using marine cyanobacteria along with different agricultural waste. *Biovalorisation of wastes to renewable chemicals and biofuels*
3. Nivetha, E., Bela, R, B, **Shanmugapriya, N** and Malliga, P. (2014). Decolorizing Efficiency of *Oscillatoria subuliformis* with Coir Pith in Textile Dye Effluent. *Global Journal for Research Analysis*. Vol. (10): 72-75. ISSN: 2277-8160.
4. **Shanmugapriya.N**, Ramganes. S and Nitin labane (2014). Production, Purification and characterization of tannase from native *Aspergillus* sp using *Syzygium cumini* (L) skeels (*Eugenia jambolana*) seed powder. *Golden research thoughts*. Vol.3: (9).ISSN 2231-5063.
5. **Shanmugapriya, N** and Malliga, P. (2013). Textile Effluent treatment using Marine Cyanobacterium (*Oscillatoria subuliformis*) with coir pith and removal of Heavy Metals. *International Journal of Scientific Research*. Vol. 2(12): 484-486. ISSN: 2277-8179.

Book Publications

1. Book entitled “Hand book of Microbiology” ISBN ISBN: 978-93-48325-19-8.
2. Published a book chapter on “Recent Trends in Arts Science and Humanities -2024” in Impact of Waste Management in India ISBN-978-93-01387-72.

Presentations in Conference

Oral presentation: 3

1. Presented paper entitled “Application of water hyacinth (*Potenderia crassipes*) extract as biopesticides” in International virtual conference on exploring the frontiers of life science : interdisciplinary perspectives at Seethalakshmi Ramaswami college. Tiruchirapalli Tamilnadu, India on 23.12.2024.
2. Presented paper entitled “Effect of cyanopith and jiwamirtha on *Luffa acatangula* plant” organized by Department of plant biology and biotechnology Quaid- E- Millath government college for women, Chennai on 01.02.2012 to 03.12.2012.
3. Presented paper entitled “ Degradation of textile dye effluent using coir pith and *Oscillatoria subuliformis*” organized by Department of microbiology, Bharathidasan university from 19.09.2014 to 21.09.2014.

Poster presentation: 3

1. Poster presented entitled “Biodegradation and decolourization of textile dye effluent using marine cyanobacterium and coir pith” Mahatma Gandhi chitrakoot gramodaya Vishwavidyalaya chitrakoot, Madhyapradesh, 06.12.2018 to 08.12.2018
2. Poster presented entitled “Bioremediation of textile waste water using coir pith and cyanobacterium” organized by National institute of Ocean technology, Chennai from 19.10.2016 to 21.10.2016.
3. Poster presented entitled “Bioremediation of textile effluent using marine cyanobacterium (*Oscillatoria subuliformis*) and coir pith” organized by School of life sciences, Jawaharlal Nehru University, New Delhi from 07.12.2015 to 10.12.2015.

Participation in Conference

International:

1. Published a paper on “ An anticancer efficiency of *Citrullus colocynthis* towards Cancer therapy” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.
2. Published a paper on “Biohydrogen production using Kitchen waste” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.
3. Published a paper on “Anticancer activity of *Withania somnifera* (leaves) flavonoids

compound” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.

4. Participated in International e-Conference on Cyanobacterial and Algal Biotechnology (CAB ‘2020) organized by National Repository for Microalgae & Cyanobacteria – Freshwater & Department of Microbiology, Bharathidasan University, Trichy, sponsored by DBT, Govt of India.
5. Participated in 88th Annual Session of National academy of sciences conducted by Mahatma Gandhi Chitrakoot Gramodaya Vishwavidalaya, Chitrakoot, Satna, Madhya Pradesh , India held on 6-8th December, 2018.
6. Participated in Recent trends in Biotechnology & Annual meet of the society for Biotechnologists conducted by National Institute of Ocean technology, Chennai, held on 19-21st October, 2016
7. Participated in 56th Annual conference of association of Microbiologist of India (AMI-2015) & International Symposium on Emerging Discoveries in Microbiology from 07.12.2015 to 10.12.2015.
8. Participated in National conference on “Progress in Algology” conducted by Bharathidasan University and Krishnamurthy Institute of algology, Chennai in the Indian context from 19-21st September, 2014.

Participation in Seminars

1. Participated in Awareness program on “National Intellectual Property Awareness Mission (NIPAM)” conducted by Controller General of Patents, Designs and Trade Marks, at Shrimati Indira Gandhi College on 26.04.2023.
2. Participated in Indo- Srilanka International Webinar 2021(ISW21) on Global Trends in Algal Research : Environmental Restoration, Biomass Valorization and Sustainability organized by Indian Institute of Technology, Delhi, India and University of Moratuwa, Srilanka from 08.03.2021 & 09.03.2021.
3. Participated in Webinar on Climate change & What a common man can do organized by Industrial waste management association, Chennai, Tamilnadu on 27.09.2020.
4. Participated in webinar on Photocatalytic activity of Hydrothermally Synthesized SnO₂ doped GO and CNT under visible light Irradiation for Waste water Treatment plant organized by Department of Chemistry, St. Joseph University, Dimapur, Nagaland on 25.09.2020.
5. Participated in National webinar on “Mindset of success” organized by PG & Research Department of Zoology, Arulmigu Palaniandavar college of arts & culture, Palani and Thavaram Trust, Madurai on 18.12.2020
6. Participated in One day seminar on “Biotechnology based entrepreneurship awareness” conducted

by Department of Industrial biotechnology, Bharathidasan University, 22nd January 2015.

7. Participated in International Exhibition and Seminars conducted at the International Coir Tech Expo conducted in Marine Drive Grounds, Kochi from 12th to 16th august, 2012

Participation in Workshop

1. Participated in Five days entrepreneurship Development Programme on “Clean meat production and value added products preparation” organized by ICAR- National Meat Research Institute, Hyderabad sponsored by NABARD.
2. Participated in Three days International online work shop on Navigating Research: Ethics, Publication and metrics conducted by Acumen foundation, Seva Academy along with Kuruthu Educational and social renaissance trust (KESORT) from 5.12.2023 to 7.12.2023.
3. Participated in “Cytochemical staining Techniques” conducted by Department of Biochemistry of Shrimati Indira Gandhi College, Tiruchirappalli on 15th September 2022.
4. Participated in one month workshop on “International Training on Authorship, Research Methodology and scopus free Publication process organized by Eudoxia Resaerch Centre, India from 05.01.2021 to 02.02.2021.
5. Workshop on “Statistical solutions to Biological problems” conducted by Ayya Nadar Janaki ammal college, Sivakasi, held on 23rd September 2014.
6. Participated in One day seminar on “Biotechnology based entrepreneurship awareness” organized by Department of Industrial Biotechnology, Bharathidasan University, Trichy on 22.01.2015
7. Participated in International workshop on Statistics for proteomics and clinical research (SPAC-
8. 2012) organized by Department of Statistics, Bharathidasan University, Trichy on 07.08.2012.
9. Attended Workshop on “Advanced Techniques in Molecular biology” BIOGENEIC Institute of biotechnology, Namakkal & Tamil nadu State Council for Science and Technology, Chennai from 19-24th November, 2007.

Participation in Orientation Programme / Short Term Courses

1. Completed the NEP 2020 Orientation & Sensitization programme under Malviya mission Teacher Training programme (MM-TTP) OF University Grants Commission (UGC) Organized by UGC- Malviya mission Teacher Training Centre (UGC -MMTTC) Bharathidasan University, Trichy, from 19.02.2024 to 28.02.2024.
2. Participated in A5- Day Training Programme on Research Writing: Elements and steps conducted

by Center for technical and academic writing, Bharathidasan University from 16-20th February, 2015.

3. Participated in short term course on “Bioremediation of Industrial Wastes for a greener world”
4. organized by National Institute of Technology, Durgapur, West Bengal, India sponsored by
5. TEQIP- II from 08.12.2014 to 12.01.2014.
6. Participated in Course of “Microbial Processes for Lignocellulosic Biofuel Production” conducted by Global Initiative of Academic Networks (GIAN), Bharathidasan University held on 18-27th December, 2017.

Participation in Faculty Development Programme

1. Participated in the Faculty Development Programme on “Advanced Medical coding” conducted by NANMUDHALVAN, Government of Tamilnadu and Tamilnadu Skill Development Corporation from 06.01.2025 to 11.01.2025.
2. Participated in the Faculty Development Programme on “Medical coding” conducted by NANMUDHALVAN, Government of Tamilnadu and Tamilnadu Skill Development Corporation from 24.06.2024 to 29.06.2024.
3. Participated in the six days Faculty Development Programme on “Understanding Outcome Based Education” organized by Internal Quality Assurance Cell at Shrimati Indira Gandhi College, Trichy from 10.06.2024 to 15.04.2024 & 18.06.2024.
4. Participated in the Five-day International Virtual Faculty Development Programme on “Digital Productivity and AI Fluency” organized by Naan Mudhalvan in partnership with Microsoft from 28.08.2023 to 01.09.2023.
5. Participated in the three days Faculty Development Programme on “Innovative Pedagogies of the Future in Teaching Learning Process” organized by Department of Management studies, Shrimati Indira Gandhi college, Trichy sponsored by The Rajiv Gandhi National Institute of Youth Development, Ministry of Youth Affairs and Sports, Government of India, Sriperumbudur from 17.03.2022 to 19.03.2022.
6. Participated in “Instrumental Methods of Analysis” conducted by CSIR- Central Electrochemical Research Institute, Karaikudi held on 11-15th November 2019.

Conference/Seminar/Workshop Organized

1. **Organizing member** in the International Conference on Emerging Outlook and Recent Trends in Microbiology organized by Department of Microbiology, Shrimati Indira Gandhi College, Trichy on August 26th, 2022.

2. **Organizing member** in the International Conference on Unveiling the Frontiers in Life Sciences organized by Department of Biochemistry and PG and Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on August 17th and 18th 2023.
3. **Organizing member** in the International Conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research organized by PG and Research Department of Microbiology and Department of Biotechnology, Shrimati Indira Gandhi College, Trichy on September 27th, 2024.

Invited speaker/ Session Chair-Conference / Seminar/ Workshop

1. Acted as Chief Guest in Valediction Ceremony of “Eco Restoration Club” conducted by Bishop
2. Heber College, Trichy on 10.03.2025.
3. Acted as Resource Person Seminar On “Recent trends in microbiology” organized by
4. Meenakshi Chandrasekaran College, Karambayam, Pattukkottai on 11.03.2025.
5. Speaker at Nakkirar Tamil Manaadu and introduced the book “Thola neethan Thalaivan” written
6. by Dr. BSS . Jegan conducted by Nakkirar Tamil Sangam at Palani on Nov 24, 2024.
7. Speaker in the Asia book of records Longest online millet conclave “International Millet Expo and Conclave 2023 commenced at 5.55pm on December, 1, 2023 and terminated at 5.55pm on December, 13, 2023 as confirmed on December 18, 2023 organized by TANMILLET, Coimbatore
8. Act as a resource person Rising Star, Industrial & Business Conference, Madurai on 02.07.2023 “Topic -Women Entrepreneurship”
9. Acted as Resource Person in Seminar on scope and opportunities of microbiology conducted by PG Extension center, Department of Microbiology, Perambalur held on 10.03.2023

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
SOCIETY FOR BIOTECHNOLOGISTS (INDIA), (Regd.No. ER 57/95)	Life Member	

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Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
BEST WOMEN ACHEIVER AWARD	Paneer Devar Memorial Trust, Pudukkottai	March 8, 2025
NAKKIRAR AWARD	Nakkirar Tamil Sangam At Tamil Manadu, Palani	NOV 24, 2024
Done world record in ASIA BOOK OF RECORDS for Speaker in Longest online millet conclave “International Millet Expo and Conclave”	TANMILLET, COIMBATORE	December 18, 2023.
Project fellow	DST SERB funded project entitled “Treatment of tannery effluent using Cyanobacteria with Different agro wastes and the prospective application of treated effluents on plants”	2017

Additional responsibilities – INTERNAL ISO auditor at Shrimati Indira Gandhi College.

PATENT PUBLISHED - Design patent -01, Utility Patent -05