



FACULTY PROFILE

Name	DR. NISHA JOSEPH
Designation	ASSISTANT PROFESSOR
Department	BOTANY

PERSONAL VISION AND MISSION

To Provide a unique learning experience which will enable the students to realize their potential and mold the overall personality.

PERSONAL DETAILS

Date of entry into permanent service	01.03.2013
Total teaching experience as on 01 November 2025	12 Years
Age and Date of Birth	42, 12.02.1983
Residential Address	Kaniyampampil, Murinjapuzha PO, Cheruvallikulam, Idukki (Dt)
Address for Correspondence	Kaniyampampil, Murinjapuzha PO, Cheruvallikulam, Idukki (Dt)
Mobile / Whatsapp Number	9495110887
E-mail (Personal and Official)	nishajose2007@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Subject	Institution and University	Grade/ Rank etc.
UG	Botany	St. Dominics College, Kanjirappally Mahatma Gandhi University, Kottayam	First Rank
PG	Botany	St. Berchmans College, Changanacherry Mahatma Gandhi University, Kottayam	Distinction
M Phil	Botany	Department of Botany, University of Kerala, Kariavattom	A Grade
Ph D	Botany	Department of Botany, University of Kerala, Kariavattom	



COLLEGE LEVEL DUTIES / MAJOR CHARGES

Duty	Position	Duration
M.Sc Botany 2024-2026 batch	Teacher in charge	2024- 2026
Course coordinator	FYUGP MDC Course coordinator	2024-till date
CATH BIC	Department co-ordinator	2024-till date
Internal examination committee	Member	2024-till date

POSITIONS HELD/ AWARDS/ RECOGNITIONS/ MAJOR ACHIEVEMENTS

Name	Details
Question Paper Setter	M.Sc Botany question Bank (M.G. University, Kottayam)
Reviewer	Journal of Experimental Agriculture International, Asian Journal of Soil Science and Plant Nutrition
2nd position in poster presentation	2nd position in poster presentation at National level on Conservation, Management and Utilization of Horticultural Genetic Resources for livelihood and Nutritional security dated Nov 22-26, 2021 organized by ICAR-IIHR Bangalore.

RESEARCH AND CONSULTANCY

Year of Award of Ph.D.	2012
No. of Publications	16
No. of book chapters	4
No. of papers presented in Conferences, Seminars, Workshops and Symposia	15
Year of Award of Research Guideship	2021
No. of Ph.Ds produced	Nil
No. of Ph.D. students currently registered	1
No. of Minor Research Projects awarded/completed	1



RESEARCH PROJECTS

Name	Details	Amount
UGC Minor Project	Multiplication of <i>Colubrinatravancorica</i> Bedd. using Conventional and Biotechnological Tools MRP(S)-0774/13-14/KLMG016/UGC-SWRO (28 th March 2014)	1,60,000/-

PUBLICATIONS AND PRESENTATIONS

International/ National Publications	<ul style="list-style-type: none"> • Deepthi, A. S., Nisha Joseph, Thomas, R. P., Karnaver, P., & Binu, M. S. Studies on carbon sequestration potential of trees with epiphytic orchid association. <i>Current Botany</i> 2024, 15: 37-40 . https://updatepublishing.com/journal/index.php/cb • Deepthi, A. S., Thomas, T., Nisha Joseph, Salu, A., & Karnaver, P. Isolation and Characterization of Melanin from the Commercially Available Edible Mushrooms. <i>KAVAKA</i> 60(4): 21-25 (2024) 10.36460/Kavaka/60/4/2024/21-25 • Athira R. Mohan & Nisha Joseph (2024). Cytotoxic assessment of aqueous extracts of <i>Heliotropium keralense</i> Sivar. & Manilal on <i>Allium cepa</i> root tip cells. <i>Caryologia</i> 77(2): 29-36. doi: 10.36253/caryologia-2436 • A. S. Deepthi, Nisha Joseph, A. G. Annakutty (2024) Antigenotoxic potential of the aqueous basidiocarp extracts of <i>Calocybe indica</i>. <i>Current Botany</i> 15: 37-40 • Nisha Joseph, Merin Grace Jiji (2023) In Vitro Alpha Amylase Inhibitory Effect of Selected Medicinal Plants. <i>International Journal of Pharmaceutical Research & Allied Sciences</i>, 2023, 12(4):47-54. • Nisha Joseph and Vineeth V.K. (2018) Conventional vegetative propagation and <i>in vitro</i> seed germination of endemic plant <i>Colubrina travancorica</i> Bedd. <i>International Journal of Scientific Research in Biological Sciences</i> Vol.5, Issue.4, pp. 134-139 • Nisha Joseph and Saranya B (2018) Pharmacognostic and phytochemical evaluation of <i>Colubrina travancorica</i> Bedd. <i>Journal of Pharmacognosy and Phytochemistry</i> 7(3): 1779-1783 • Nisha Joseph & Siril, E. A. 2014. Evaluation and selection of elite annatto (<i>Bixa orellana</i> L.) and identification of RAPD markers associated with yield traits. <i>Braz. J. Bot.</i> 37(1):1-8. • Nisha Joseph & Siril, E. A. 2013. Floral Color Polymorphism and Reproductive Success in Annatto (<i>Bixa orellana</i> L.). <i>Tropical Plant Biology</i> 6(4): 217-227 • Nisha Joseph and Siril E.A. (2013) Multiplication of Annatto (<i>Bixa orellana</i> L.) using cotyledons and leaf explants. <i>Research in Plant Biology</i> 3(1): 24-32, 2013 • Siril, E. A. & Nisha Joseph. 2013. Micropropagation of Annatto (<i>Bixa orellana</i> L.) from mature tree and assessment of genetic fidelity of micropropagated
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	<p>plants with RAPD markers. <i>Physiology and Molecular Biology of Plants</i> 19(1): 147- 155.</p> <ul style="list-style-type: none"> • Nisha Joseph, Siril, E.A. & Nair, G.M. (2011) A comparison of conventional cloning options for annatto (<i>Bixa orellana</i> L.). <i>The Journal of Horticultural Science & Biotechnology</i> 86: 446-451 • Nisha Joseph, Siril, E.A. & Nair, G.M. (2011) An efficient <i>in vitro</i> propagation methodology for Annatto (<i>Bixa orellana</i> L.). <i>Physiology and Molecular Biology of Plants</i> 17:263-270 • Nisha Joseph, Siril, E. A. & Nair, G.M. (2011) Reproductive characterization and preliminary studies on controlled breeding of Annatto (<i>Bixa orellana</i> L.), <i>Plant Systematics and Evolution</i> 298: 239–250 DOI 10.1007/s00606-011-0541-0 • Nisha Joseph, Siril, E.A. & Nair, G.M. (2010) Imbibition duration, seed treatment, seed mass and population influence germination of Annatto (<i>Bixa orellana</i> L.). <i>Seed Technology</i> 32: 37-45 • Nisha Joseph & Siril, E. A. (2010) Cytotoxic evaluation of Annatto (<i>Bixa orellana</i> L.) Dye Compared with Orange Red. <i>Cytologia</i> 75(2): 163–167.
Chapters inBooks	<ul style="list-style-type: none"> • A. S. Deepthi, Nisha Joseph and A. G. Annakutty (2025) Mitigating Genotoxicity: The Protective Effects of <i>Calocybe indica</i> Extracts against Coca Cola Induced Chromosomal Damage. <i>Contemporary Research and Perspectives in Biological Science</i> Vol. 7, B.P International pp 96-104. • Nisha Joseph, Deepthi A.S. and Rupika N. (2024) Enhancing Silk Fabric with Eco-friendly Natural Dyes: A Comparative Study. <i>Research Advances in Environment, Geography and Earth Science</i> Vol. 9, B.P International pp 146-156. • Nisha Joseph, Deepthi A. S. and Meera Krishnan (2024) Characterization of <i>Aristolochia indica</i> L.: A Comprehensive Study on Pharmacognostic and Phytochemical Aspects. <i>Innovations in Biological Science</i> Vol. 3, B.P International pp 36-46. • Athira. R. Mohan and Nisha Joseph (2024) Morphological and anatomical characterization of <i>Heliotropium keralense</i> Sivar. & Manilal. In: <i>Tropical Plant Genetic Resources: Characterisation and Perspectives</i>, Editors: Mathew Dan, S. Pradeep Kumar, V.P. Thomas, M. Omalsree, P.E. Sreejith, Binoy T. Thomas, M/s Bishen Singh Mahendra Pal Singh, Dehra Dun, India [pp.341-346] ISBN: 978-93-6028-030-7
Paper Presentations (International/ National)	<ul style="list-style-type: none"> • Fasma T.K and Nisha Joseph (2013) Evaluation of antigenotoxic potential of micropropagated <i>Bacopa moneirri</i> (L.) Pennell in National symposium on gene, environment and health • Nisha Joseph, E.A. Siril and G.M. Nair (2011) Evaluation of variability in <i>Bixa orellana</i> L. using protein markers in Genomics of crops, medicinal plants and microbes • Nisha Joseph and E.A. Siril (2012) The evolution of floral colour polymorphism and reproductive success in annatto (<i>Bixa orellana</i> L.) in Biodiversity-its conservation for sustainable future • Nisha Joseph and E.A. Siril (2012) Evaluation and selection of elite annatto (<i>Bixa orellana</i> L.) in 24th Kerala Science Congress held at RRI, Kottayam



	<ul style="list-style-type: none"> • Nisha Joseph, E.A. Siril and G.M. Nair (2010) Evaluation and selection of 'elite' annatto (<i>Bixa orellana</i> L.) in Plant Diversity Utilization and management • R. Reeja, Nisha Joseph and E.A. Siril (2010) Preliminary studies on <i>in vitro</i> propagation of <i>Tagetes erecta</i> L. in Plant Diversity Utilization and management • Nisha Joseph, E.A. Siril and G.M. Nair (2010) Development of efficient clonal propagation methods for annatto (<i>Bixa orellana</i> L.) in 22nd Kerala Science Congress held at KFRI Peechi during January 28-31 • Nisha Joseph, E.A. Siril and G.M. Nair (2010) Seed germination studies in annatto (<i>Bixa orellana</i> L.) in 1st Kerala Women Science Congress • Nisha Joseph, E.A. Siril and G.M. Nair (2009) <i>In vitro</i> multiplication of Annatto (<i>Bixa orellana</i> L.) in Molecules to Drugs organized by Department of Botany • Nisha Joseph, E.A. Siril and G.M. Nair (2009) Reproductive Characterization and preliminary studies on Controlled Breeding of Annatto (<i>Bixa orellana</i> L.) in Genetics, Breeding and Biotechnology organized by Inter university Centre for Plant
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WORKSHOPS /SEMINARS/ CONFERENCES ORGANISED

Position	Details
Co-ordinator	<ul style="list-style-type: none"> • Experiential Visit & Green Dialogues organized for St. Behanan's Higher Secondary School, Vennikkulam on 11.08.2025
Organizing committee member	<ul style="list-style-type: none"> • International colloquium 2024
Co-ordinator	<ul style="list-style-type: none"> • International conference on Emerging trends in Plant science Research 2023 • National webinar on Transforming Higher Education (NEP 2020) • Ten Days Internship (Online) Molecular and Analytical Techniques for Plant Sciences Module 1: January 24-29, 2022, Module 2: February 21-25, 2022 Organised by Postgraduate and Research Department of Botany Catholicate College, Pathanamthitta, Kerala <i>In association with</i> MG University, Kottayam & Department of Biotechnology Karunya Institute of Technology & Sciences, Coimbatore • 3rd National workshop on Algal Biology organized by Research forum, Post graduate and research department of Botany, Catholicate College, Pathanamthitta in association with Directorate of environment and climate change


WORKSHOPS /FDP/ORIENTATION/REFRESHERCOURSES ATTENDED

Name	Details
Refresher Course/ One week /2 week online Faculty Development Programme	<ul style="list-style-type: none"> • Online FDP on NEP 2020 Orientation & Sensitization organized by Centre for Professional Development in Higher Education (UGC-MMTTC), University of Delhi on 6th January 2025 to 15th January 2025 • Online Inter-Disciplinary two-week Refresher Course in “Managing Online Classes & Co- creating MOOCS” organized by Teaching learning Centre, Ramanujan College, University of Delhi on 07 – 21 January, 2024 • Youth & Climate Change” from 27th October – 3rd November 2021 organized by Teaching learning Centre, Ramanujan College, University of Delhi (sponsored by MHRD). • Managing Online Classes & Co- creating MOOCS 16.0” (13 - 27 July, 2022), organized by Teaching learning Centre, Ramanujan College, University of Delhi • Advanced research methodology Tools and techniques, (January 30- February 14, 2021) organized by Teaching learning Centre, Ramanujan College, University of Delhi (sponsored by MHRD). • Quantitative methods for Data analysis, (August 12- August 25, 2020) organized by Teaching learning Centre, Ramanujan College, University of Delhi (sponsored by MHRD). • Managing online classes and co creating MOOC 3.0, (July 25 – August 10, 2020) organized by Teaching learning Centre, Ramanujan College, University of Delhi (sponsored by MHRD) • RUSA sponsored refresher course in Life science (November 8 to November 28, 2017) organized by UGC HRDC, University of Kerala, Kariavattom. • UGC sponsored orientation programme (June 15 to July 12, 2016)organized by UGC HRDC, University of Calicut
Ten Days Internship	<ul style="list-style-type: none"> • Molecular and Analytical Techniques for Plant Sciences Module I: January 24-29, 2022, Module 2: February 21-25, 2022 Organised by Postgraduate and Research Department of Botany Catholicate College, Pathanamthitta, Kerala <i>In association with</i> MG University, Kottayam & Department of Biotechnology Karunya Institute of Technology & Sciences, Coimbatore

Dr. Nisha Joseph

Name and Signature of Teacher with date