



PERSONAL CREDENTIALS

Name	Dr.RETHEESH R
Designation	GOVERNMENT GUEST FACULTY
Department	PHYSICS
Date of Joining	01/06/22
Total teaching experience as on 01 January 2024	1 YEAR 9 MONTHS
Contact Number	9496129087
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ACADEMIC QUALIFICATIONS

Degree	Subject	Institution and University
UG	PHYSICS	DB COLLEGE, THALAYOLAPARAMBU, MG UNIVERSITY
PG	APPLIED ELECTRONICS	STAS, MG UNIVERSITY
Ph D	PHOTONICS	COCHIN UNIVERSITY (CUSAT)
NET	ELECTRONIC SCIENCE	UNIVERSITY GRANTS COMMISSION

COLLEGE LEVEL DUTIES / MAJOR CHARGES

Duty	Position	Duration
ORGANIZATION OF SEMINARS, EVENTS ETC	PHYSICS ASSOCIATION IN CHARGE	2023-24


POSITIONS HELD/ AWARDS/ RECOGNITIONS/ MAJOR ACHIEVEMENTS

Name	Details
BEST PAPER AWARD	NATIONAL PHOTONICS SYMPOSIUM 2017, CUSAT
ORGANIZING COMMITTEE MEMBER	INDO-UK WORKSHOP CONDUCTED IN 2015 AT INTERNATIONAL SCHOOL OF PHOTONICS, CUSAT

PUBLICATIONS AND PRESENTATIONS

JOURNAL PUBLICATIONS	<ul style="list-style-type: none"> ● Application of laser Biospeckle technique for the analysis of artificially introduced local dynamics in apple fruit, Laser Physics 28, no. 11 (2018). ● Application of qualitative Biospeckle methods for the identification of scar region in a green orange; Modern Physics Letters B 32, no. 09 (2018). ● Detection and analysis of micro cracks in low modulus materials with thermal loading using laser speckle interferometry, Russian Journal of Nondestructive Testing 53.3 (2017). ● Analysis of Various Surface Roughness Parameters of Low Modulus Aerospace Materials Using Speckle Photography Journal of Aeronautical and Aerospace Eng. 5.157 (2016). ● Use of Laser Biospeckle for the Evaluation of Fruit Ripening, Journal of Pure Applied and Industrial Physics, Vol.6(5), 65-70, (2016). ● Thermal deformation analysis of aluminium heat sink using electronic speckle pattern interferometry, International Journal of Advances in Engineering & Technology, Vol.7, Issue 2, pp. 431-437 (2014). ● Cross-correlation and time history analysis of laser dynamic specklegram imaging for quality evaluation and assessment of certain seasonal fruits and vegetables, Laser Physics 27, no. 10 (2017).
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CONFERENCE PUBLICATIONS	<ul style="list-style-type: none">● Monitoring Biospeckle activity using principal component analysis, National Photonics Symposium (NPS) – 2017, International School of Photonics, Cochin University of Science and Technology, February 2017.● Development of a low cost and indigenous laser Biospeckle technique for the detection and analysis of pesticides in vegetables and fruits, 29th Kerala Science Congress. 28-30, Jan. 2017.● Statistical processing of speckle patterns for non-destructive evaluation of engineering and biological samples, 26th National seminar on Nondestructive Evaluation (NDE 2016), Dec 2016.● Nondestructive evaluation of fruits using correlation of time history of Biospeckle pattern, 26th National seminar on Nondestructive Evaluation (NDE 2016), Dec. 2016.● Use of laser Biospeckle for the evaluation of fruit ripening, Abstract proceedings, international conference on advances in applied mathematics, materials science and technology for engineering and industrial applications. Jan 7-9 2016, FISAT page 125.● Application of digital holography for NDE of metallic tubes using thermal loading ,25th National Seminar & International Exhibition on” Nondestructive evaluation”, Hyderabad Nov. 26-28, 2015.● Laser bio-speckle technique for the assessment of fruit ripening, Proceedings of 24th swadeshi science congress Nov. 6-8 2014. Pages: 753-757.● Solar internal lighting system with an automated solar tracker for daylight harvesting, Proc. SPIE 8821, High and Low Concentrator Systems for Solar Electric Applications VIII, 88210C



(September 9, 2013).

WORKSHOPS /SEMINARS/ CONFERENCES ORGANISED

Position	Details
CONVENER	ANNUAL PHOTONICS WORKSHOP, 2014, INTERNATIONAL SCHOOL OF PHOTONICS, CUSAT

MEMBERSHIP IN PROFESSIONAL BODIES

LIFE MEMBER	PHOTONIC SOCIETY OF INDIA (PSI)
LIFE MEMBER	OPTICAL SOCIETY OF AMERICA (OSA)
LIFE MEMBER	INTERNATIONAL SOCIETY OF OPTICAL ENGINEERS (SPIE)

ANY OTHER RELEVANT INFORMATION

RESOURCE PERSON	IN VARIOUS PROFESSIONAL AND SOCIAL ACTIVITIES OF OSA AND SPIE STUDENT CHAPTER.
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