



# Prof. (Dr) A Mujeeb

## Registrar

Kerala University of Digital Sciences  
Innovation and Technology (KUDSIT)  
Thiruvananthapuram, Kerala,  
India. 695 317 www.duk.ac.in  
+91 471 2788004 registrar@duk.ac.in  
+91 9447419505 a.mujeeb@duk.ac.in

## Senior Professor

International School of Photonics  
Cochin University of Science and  
Technology, Kochi, India. 682 022  
+91 [484 2575848], (484 2862717)  
mujeeb@cusat.ac.in  
mujeebpooar@gmail.com



### Area of Interest

Higher Education: Administration, Research, Academics  
Research Specialization  
Optoelectronics, Applied Electronics, Physics

### Currently

Secretary, Board of Governors, KUDSIT  
Member, Academic Council, CUSAT  
Member, Faculty of Technology, CUSAT  
Member, Standing Appellate Committee, AICTE  
Member, Tech. Committee, KIIFB, CUSAT  
Member, Implementation Group, DST Purse, CUSAT  
Member, Board of Studies, Photonics, CUSAT  
Member, Board of Studies, Forensic Sciences, CUSAT  
Member, Executive Committee  
Indian Society of Non-Destructive Testing

### Formerly

Director, International School of Photonics, CUSAT  
Director / Jt. Director, LBSCST, Govt. of Kerala  
Member, Syndicate, CUSAT  
Member, Syndicate, Mahatma Gandhi University  
Member, Executive Committee, APJ AK Tech. Univ.  
Member, SAC, AICTE, New Delhi  
Member, SAC, APJ AK Kerala Tech. University  
Coordinator, CSIR UGC JRF NET Exam Kochi  
Member, Governing Council, STIC, KSCSTE - CUSAT  
Member, Executive Committee, STIC, KSCSTE - CUSAT  
Member, Senate, CUSAT  
Member, IQAC and IQAC Core Committee, CUSAT  
Chairman, Board of Studies, Photonics, CUSAT  
Member, Board of Studies, EEE, CUSAT  
Member, Board of Studies, ECE, CUSAT  
Member, Steering Committee, NAAC, CUSAT  
Member, CSS, Academic Committee, CUSAT  
Member Secretary, Governing Body, LBSCST  
Member Secretary, Executive Committee, LBSCST  
Member, Advisory Committee, CSIS CUSAT  
Member, Advisory Committee, IQAC CUSAT  
Member, Sasthayaan 2023, CUSAT  
Member, NIRF Committee 2023, CUSAT  
Member, Curriculam Restructuring 2023, CUSAT  
Member, PG Board of Studies-Physics, Cal. University  
Member Ex-Officio, BoG, TEQIP, LBSITW  
Member, St. Equivalence Committee, CUSAT  
Convener, Inspection Committee, CUSAT  
Member, Research Guidance Committee, LBSCST  
Member of various Selection Committees

### Registrar 2023

KUDSIT Sept '23 - Till date 2022 Member, Academic Council

### Senior Professor

Nov '20 - Till date 2021 Member, IQAC CUSAT (JULY'21-May'23)

2020 Steering Committee Member  
NAAC-IQAC, CUSAT 9 Aug '20 - Oct'22

2019 Senate, Ac. Council Member  
Chairman BoS, Photonics, (July '19-Aug '19)

2017 Co-ordinator, Kochi  
JRF/NET CSIR [Jun '17- Dec '18]  
Executive Committee Member,

### Director

ISP CUSAT [Jul '16 - Jul '19] 2016 Governing Council Member  
STIC, KSCSTE-CUSAT [Aug '17- Aug '20]  
Member, IQAC, CUSAT [July'15 - Jan '17]

### Director

LBSCST [Jan '15 - Mar '16] 2015 Exe. Comm. Member  
APJ AK KTU [Jan '15 - Mar '16]

### Joint Director

LBSCST [Jul '12 - Jan '15] 2012 Member, SAC, AICTE  
[Jan '13 - Till Date ]

2011 Syndicate Member  
CUSAT [Dec '11 - Sep '16]

### Professor

Nov '10 - Nov '20 2010 Head of Division  
CUCEK [Sep '10 - Jul '12]

2008 NSS Program Officer  
[Jul '08 - Jan '12]

### Assoc. Professor

Nov '07 - Nov '20 2007 Syndicate Member  
MG University [Jan '06 - Sep '06]

2006 Dy. Warden, Men's Hostel ['95-'98]  
Secretary, Co-Op Socitey ['95-'98]  
Secretary, PTA ['97-'99, '02-'03]  
Editor, College Magazine ['96-'98, '03-04]

### Reader

Nov '04 - Nov '07 2004

### Lecturer/Sr. Lecturer

Nov '94 - Nov '04 1994

### Research Areas of Interest

Optical NDT ★★★★★  
Speckle Metrology ★★★★★  
Nano Photonics ★★★★★  
Bio Photonics ★★★★★  
Wireless Ad-hoc Networks ★★★★★

### Ph. D.

Produced - 9  
Full Time - 7  
Part Time - 2

### PDF

04  
J. Intl. - 76  
J. Natl./Proceed. - 92  
Invited Talks - 38

### Publications

Total - 168  
J. Intl. - 76  
J. Natl./Proceed. - 92  
Invited Talks - 38

### Course/Workshop Projects

Organized - 20 Completed -04  
Chaired - 14 Ongoing-01  
Res.Person -38 Submitted-03  
Attended - 88

### Overseas Conferences

#### BINDT

United Kingdom



#### ASNT

USA



### Professional Membership



Photonics Society of India



## DETAILED CURRICULAM VITAE

### PROFESSIONAL PROFILE

Name	A MUJEEB
Address (Official)	Registrar Kerala University of Digital Sciences Innovations and Technology (Digital University Kerala) Thonnakkal P.O Thiruvananthapuram Kerala 695 317 Email: <a href="mailto:registrar@duk.ac.in">registrar@duk.ac.in</a> <a href="mailto:a.mujeeb@duk.ac.in">a.mujeeb@duk.ac.in</a> Tel: +91 471 2788004 Mob: +91 9447419505
On Deputation from	Senior Professor International School of Photonics Cochin University of Science and Technology Cochin University P. O. Kochi 682 022 Email: <a href="mailto:mujeeb@cusat.ac.in">mujeeb@cusat.ac.in</a> <a href="mailto:mujeebpoovar@gmail.com">mujeebpoovar@gmail.com</a>
Qualifications	Ph.D. (Optoelectronics) M.Phil. (Applied Sciences) M.Sc. (Physics with Applied Electronics) PGDHE (Post Graduate Diploma in Higher Education)
Area of specialization	Optoelectronics, Applied Electronics, Physics
Research Interests	Optical NDT, Speckle Interferometry, Nanophotonics Biophotonics, Wireless ad hoc networks

### PROFILE

Accomplished Academician with more than twenty eight years of teaching experience both in Engineering Colleges and in University Departments. Good Administrator with ability to lead organizations under higher education. Active researcher in the field of Optoelectronics. Nurturing and maintaining excellent interpersonal relationship with all stakeholders. Strong leadership and conflict resolution skills to manage situations with effective co-ordination and delivering high quality solutions. Possess a flexible and detailed oriented attitude. Good communication skills both written and verbal. Possess a strong desire to achieve specified goals based on the qualification and experience.

### AREA OF INTEREST

Interested in administration, teaching, research and development in Science, Technology and Engineering. Objective is to utilize the knowledge, skill and good interpersonal relationships acquired in higher education sector for the betterment of peer groups, students, research scholars, the organization, family and the society at a larger level. Confident in motivating the groups to create passion and compassion towards socially committed activities.

## ACADEMIC PROFILE

- # School Topper throughout schooling upto standard X.
- # Active Participant in extracurricular activities (Elocution/Essay/Drama etc.,).
- # Consistently good academic record (either First class with Distinction or First Class).
- # SSLC First Class with Distinction, March 1986.
- # Pre Degree First Class, March 1988.
- # B.Sc., Physics First Class with Distinction, from University of Kerala, April 1991.
- # M.Sc. Physics with Applied Electronics specialization, First Class, from Department of Physics, University of Kerala, October 1993.
- # M.Phil. (Applied Sciences - Futures Studies) Grade A, from Department of Futures Studies, University of Kerala, July 1996.
- # Ph.D. in Optoelectronics (Research work done at Rocket Propellant Plant, Vikram Sarabhai Space Centre, Indian Space Research Organisation and at the Department of Optoelectronics, under the joint guidance of Dr. V R Ravindran, Manager, NDTF, RPP, VSSC, Trivandrum and Dr. V Unnikrishnan Nayar, Professor and Head, Department of Optoelectronics), from University of Kerala, Dec 2006.
- # Recognized Research Guide under Faculty of Technology and Faculty of Science, Cochin University of Science and Technology Kochi, India.

## SPECIAL QUALIFICATION

Post Graduate Diploma in Higher Education (PGDHE) from Indira Gandhi National Open University (IGNOU) December 2004.

## ACADEMIC PROJECT WORK CARRIED OUT

- ##“Studies on Electronic Speckle Pattern Interferometry (ESPI) For Nondestructive Evaluation” (Ph.D) under the joint guidance of Dr. V U Nayar, Professor, Department of Optoelectronics, University of Kerala and Dr. V R Ravindran, Manager, NDTF, RPP, VSSC, ISRO, Trivandrum.
- ##“Preparation of Interdisciplinary Model for Teaching Physics to First Year Engineering Students” (PGDHE), under the guidance of Dr. J Exammal, Department of Education, University of Kerala-
- ##“Mathematical Model of Geothermal Power Station” (M.Phil) under the guidance of Dr. P Ramesan, Professor, Department of Physics, University of Calicut.
- ##“Forecasting Chaotic Systems” (M.Phil) under the guidance of Dr. V Nandamohan, Professor and Head, Department of Futures Studies, University of Kerala, Trivandrum-
- ##“Astronomical Image Processing” (M.Sc) under the guidance of Dr. Ajith Kembavi, Professor, Inter University Center for Astronomy and Astrophysics (IUCAA) Pune.

## **WORK PROFILE**

Presently working as **Registrar, Kerala University of Digital Sciences Innovation and Technology – KUDSIT- (Digital University)**, a state university established in 2020 with an aim to focus research academics in science, technology and humanities relevant to the digital world in the context of knowledge revolution in the country on deputation from the post of **Senior Professor at International School of Photonics, Cochin University of Science and Technology (CUSAT), Kochi**, a state government funded unitary university established in 1971 as University of Cochin and renamed as Cochin University of Science and Technology in 1986.

**Director, International School of Photonics**, a school established in 1995 under Cochin University of Science and Technology, Kochi with a focus the specialized area of Photonics and for the human Resource development, research and academics in the field of Laser Science and Technology: from 25<sup>th</sup> July 2016 to 25<sup>th</sup> July 2019.

**Director, LBS Centre for Science and Technology**, a Government of Kerala undertaking, established in 1976 having Engineering Colleges, Research and Consultancy wing, Software Engineering wing, Centre of Excellence in Disability Studies, various regional/sub centres across the state and so on: **from 21<sup>st</sup> January 2015 to 2<sup>nd</sup> March 2016** (Under deputation from Cochin University of Science and Technology).

**Joint Director LBS Centre for Science and Technology: from 12<sup>th</sup> July 2012 to 21<sup>st</sup> January 2015**, had full charge of Academic/Research section of LBS Centre at head office, regional centers and sub centers, Full charge of administration and admission matters of Engineering Colleges under LBS centre, in charge of Instrumentation wing of the centre, Centre of Excellence for Disability Studies (Under deputation from Cochin University of Science and Technology).

DESIGNATION		FROM	TO
<b>Registrar, Digital University</b>		<b>21.09.2023</b>	<b>Till Date</b>
<b>Senior Professor</b>		<b>28.11. 2020</b>	<b>Till date</b>
<b>Director – ISP</b>	<b>Adl. Charge</b>	<b>25.07.2016</b>	<b>25.07.2019</b>
<b>Director – LBSCST</b>	<b>Deputation</b>	<b>21.01.2015</b>	<b>02.03.2016</b>
<b>Joint Director - LBSCST</b>	<b>to Govt.</b>	<b>12.07.2012</b>	<b>21.01.2015</b>
<b>Professor</b>		<b>28.11.2010</b>	<b>27.11.2020</b>
<b>Associate Professor</b>		<b>28.11.2007</b>	<b>27.11.2010</b>
<b>Reader</b>		<b>28.11.2004</b>	<b>27.11.2007</b>
<b>Senior Lecturer</b>		<b>04.09.2002</b>	<b>27.11.2004</b>
<b>Lecturer</b>		<b>28.11.1994</b>	<b>03.09.2002</b>

## ADMINISTRATIVE PROFILE

### CURRENTLY

# Registrar, Kerala University of Digital Sciences, Innovation and Technology with effect from 21<sup>st</sup> September 2023.

# Secretary, Board of Governors, Kerala University of Digital Sciences, Innovation and Technology with effect from 21<sup>st</sup> September 2023.

# Member Academic Council, Cochin University of Science and Technology with effect from 22<sup>nd</sup> July 2022.

# Member, Standing Appellate Committee, AICTE, New Delhi with effect from 23<sup>rd</sup> January 2013.

# Member, Technical Committee, KIIFB Project, CUSAT with effect from 06<sup>th</sup> October 2017.

# Member, DST- PURSE implementation group, CUSAT with effect from 09<sup>th</sup> May 2017.

### FORMERLY

# Director, International School of Photonics, Cochin University of Science and Technology: 25<sup>th</sup> July 2016 - 25<sup>th</sup> July 2019.

# Director, LBS Centre for Science and Technology, Government of Kerala: 21<sup>st</sup> January 2015 - 02<sup>nd</sup> March 2016.

# Joint Director, LBS Centre for Science and Technology, Government of Kerala: 12<sup>th</sup> July 2012 - 21<sup>st</sup> January 2015.

# Member, Syndicate Cochin University of Science and Technology: 24<sup>th</sup> December 2011 - 5<sup>th</sup> September 2016.

# Member Secretary, Executive Committee and Governing Body of LBS Centre for Science and Technology January 2015 to March 2016-

# Member of various standing committees (Academic, Staff, Finance, Works) and Convenor/ Member of (sub) committees (Physical Education, NAAC, KMSMS, CELOS, STIC, IUCNMD, CAT monitoring, Computerization of exam wing, propose new courses etc.) for making policy decisions in the capacity as Member Syndicate: 24<sup>th</sup> December 2011 to 5<sup>th</sup> September 2016-

# Member, Executive Committee, Dr APJ Abdul Kalam Technological University Kerala: 21<sup>st</sup> January 2015 - 2<sup>nd</sup> March 2016-

# Member, Syndicate and Senate, M.G University Kottayam: 21<sup>st</sup> January - 2<sup>nd</sup> September 2006.

# Member, Internal Quality Assurance Cell, CUSAT : 04<sup>th</sup> July 2021 - 31<sup>st</sup> May 2023.

# Member, Core Committee IQAC, CUSAT: 04<sup>th</sup> July 2021 - 31<sup>st</sup> May 2023.

# Member, Steering Committee, CUSAT NAAC Accreditation 2021: 11<sup>th</sup> August 2020 - 14<sup>th</sup> October 2022.

# Co-coordinator, CSIR NET-JRF Examinations Kochi: June 2017, December 2017, June 2018, December 2018.

# Member, Executive Committee and Governing Council, STIC: 14<sup>th</sup> August 2017 - 4<sup>th</sup> November 2020.

# Member, Senate Cochin University of Science and Technology: 24<sup>th</sup> December 2011 - 19<sup>th</sup> August 2020.

# Member, Academic Council, CUSAT: 24<sup>th</sup> December 2011 - 19<sup>th</sup> August 2020.

# Member, Standing Appeal Committee, Dr APJ Abdul Kalam Technological University Kerala: January 2016 - December 2016-

# Member, Advisory Committee, Centre for Science in Society, CUSAT: July 2015 - Sept 2016-

# Member, Advisory Committee, Internal Quality Assurance Committee, CUSAT: July 2015-Jan 2017-

# N.S.S Programme Officer: 8<sup>th</sup> July 2008 - 9<sup>th</sup> January 2012.

# Head, Division of Applied Sciences, CUCEK: 1<sup>st</sup> September 2010 - 11<sup>th</sup> July 2012.

# Co-ordinator, Division of Science and Mathematics: 2003-2007-

# Secretary, Parent Teachers Association: 1997-1999, 2002 – 2003.

# Secretary, College Co-operative Society: 1995 -1999.

# Deputy Warden, College Men's Hostel: 1995-1998.

## CO/EXTRA - CURRICULAR ACTIVITIES

### CURRENTLY

# Member, Faculty of Technology, CUSAT, with effect from 24<sup>th</sup> November 2011.

# Member, Board of Studies in Photonics, CUSAT with effect from 16<sup>th</sup> August 2012.

# Member, Board of Studies in Forensic Sciences, CUSAT, with effect from 11<sup>th</sup> March 2020.

# Member, Executive Committee, Indian Society for Nondestructive Testing, Thiruvananthapuram chapter. 2014 onwards-

# Question setter and External Examiner for B.Tech/M.Sc/M.Tech/M.Phil/Ph.D degree programmes under various Universities in Kerala-

# Selection/ Screening Committee Member for various teaching posts-

## **FORMERLY**

- # Chairman, Board of Studies, Photonics, CUSAT: 22<sup>nd</sup> July 2019 - 19<sup>th</sup> August 2020.
- # Member, National Advisory Committee, 26<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> DAE – BRNS National Laser Symposium held during December 2017, December 2018 and January 2020-
- # Member, Assurance Committee, Senate, Cochin University of Science and Technology 2020.
- # Member, Academic and CBSS Committees, CUSAT: 18<sup>th</sup> July 2016 - 8<sup>th</sup> December 2022.
- # Member, Committee, IQAC – Workshop on Curriculum Restructuring Committee: 2023.
- # Member, Sasthayan Open House Committee: 2023.
- # Member, NIRF Ranking - Preparation of University's Report: 2023-
- # Member, Committee to restructure IQAC Data Portal: 2023.
- # Co-ordinator, Curtain Raiser Programme, CUSAT, Kerala Science Congress, January 2018-
- # Co-ordinator, Students Programme for Excellence in Experimental Design (SPEED), Science to Ignite Inspirations (SIGN IN) sponsored by KSCSTE organized at International School of Photonics : 14<sup>th</sup> - 18<sup>th</sup> February 2017.
- # Member Board of Studies in Electronics and Communication Systems, under Faculty of Technology, CUSAT: 10<sup>th</sup> August 2015 - 9<sup>th</sup> August 2019.
- # Convenor, Student induction Programme 2019-20.
- # Faculty of Techonolgy Co-ordinator for Sasthayan 2018.
- # Member Board of Studies in Electrical & Electronics Engineering under Faculty of Engineering, CUSAT: 10<sup>th</sup> August 2015 - 9<sup>th</sup> August 2019.
- # Member, PG Board of Studies in Physics, University of Calicut: 27<sup>th</sup> April 2013 – 26<sup>th</sup> April 2016.
- # Member, Ex-Officio, Board of Governors, TEQIP. LBSITW, Thiruvananthapuram: July 2012 - March 2016-
- # Member, Statutory Equivalence Committee under Faculty of Technology, CUSAT: 2012-2015.
- # Member Steering and Research Advisory Committees, Centre for excellence in Disability Studies, under LBSCST, Govt. of Kerala: 11<sup>th</sup> February 2013 - 2<sup>nd</sup> Mar 2016.
- # Member, Committee for Mock Visit for NAAC accreditation: 4<sup>th</sup> - 5<sup>th</sup> April 2022.
- # Member, Committee to revamp university website 2022.



# Member, Safety Committee to respond hazardous materials: 2<sup>nd</sup> August 2017 - 1<sup>st</sup> August 2019.

# High Level Inspection Committee Member in the team constituted by the Vice-Chancellor, CUSAT, to visit the recognized institutions of the University for the assessment of facilities for provisional recognition (Convenor/ Member for more than 50 inspection teams): 2006 - 2016-

# Selection Committee Member for research fellowships in Science for meritorious students (UGC-BSR) at International School of Photonics, CUSAT: 2014.

# Member, Research Guidance Committee, LBSITW. Thiruvananthapuram: 2012-2016-

# Staff Editor, College Magazine: 1996-98, 2003-2004.

### **MEMBERSHIP OF PROFESSIONAL BODIES**

# Member IEEE Kerala Section (No.9775476) 2020-21, New York, USA.

# Life Member (No. 188) Photonics Society of India (PSI).

# Life Member (No. 7025), Indian Society for Nondestructive Testing (ISNT).

# Associate Member (No. 4223), Society of Power Engineers (SPE).

# Life Member (No.15451), Indian Science Congress Association (ISCA).

### **PROJECT / ASSIGNMENT COMPLETED/ONGOING FOR GOVERNMENT OF INDIA / KERALA / CUSAT**

# Principal Investigator, "Development of 3D Electronic Laser Speckle Pattern Interferometry setup for structural testing analysis" from RUSA, MHRD, Government of India for Rs 166.85 Lakh (2023).

# Principal Investigator, KSCSTE E&E Project Development of Laser Bio-Speckle Technique for Monitoring Biological Activities of Plants, Vegetables and Fruits for Rs 16 Lakh. (2015-19).

# Co Ordinator, KSCSTE WSD Student Programme for Excellence in Experimental Design (SPEED) Science to Ignite Inspirations (SIGN IN) for Prathibha Scholars for Rs 3.278 Lakh (2017).

# Conduct of CSIR UGC JRF/ Lectureship Examination Kochi Centre from June 2017 to December 2018 Kochi, for Rs 80 Lakh (2017-18).

# Conduct of Academic Induction Programme for 2019-20 Batch of Post graduate students - Rs 2 Lakh (2019).

### **PROJECTS SUBMITTED TO GOVERNMENT OF INDIA/KERALA**

# Detailed project report to establish an Inter University Centre for Assistive Rehabilitation Engineering (IUCARE) at CUSAT, submitted to the government of Kerala, Rs 4.5 Cr., 2021.



# Establishment of CENTRE FOR ASSISTIVE REHABILITATION ENGINEERING (CARE) Project proposal submitted to University Grants Commission New Delhi under Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE) Rs 3 Cr., 2019.

# "Design and Development of Navigation Software Tools for Enhanced Living of Visually Impaired and differently abled" submitted to TIDE scheme, DST, Government of India for Rs 4.22 Lakh (2019).

# "Development of dynamic laser speckle imaging technique for the assessment and monitoring of certain biological processes" submitted to Ecology and Environment scheme, KSCSTE, Government of Kerala for Rs 2.41 Lakh (2018).

### **PHYSICAL OVERSEAS PRESENTATIONS**

# St Louis, M. O. United States of America during May 2010 for an invited talk on NDT international conference organized by American Society for Nondestructive Testing with financial assistance from University Grants Commission (UGC) and Indian National Academy of Sciences (INSA) New Delhi.

# Manchester, United Kingdom during June 2014 for an invited talk on Condition Monitoring organized by the British Institute of Non Destructive Testing with financial assistance from University Grants Commission (UGC), Indian National Academy of Sciences (INSA) and Council of scientific and Industrial Research (CSIR) New Delhi.

### **RESEARCH AND CURRICULAR ACTIVITIES**

# Guiding research scholars for Ph.D. in Photonics at International School of Photonics, Cochin University of Science and Technology.

# Teaching M.Tech. Optoelectronics and Laser Technology – Subject: Nanophotonics, (2009-12), Optoelectronics, (2016-23), Laser Applications (2016-23).

# Teaching M.Sc. Photonics (Five Year Integrated)-Subject: Geometrical Optics, Optoelectronics II, Nanophotonics. (2009-12), History of Science and Technology (2021-23).

# Teaching B.Tech. (Mechanical Engineering. Electronics and Communication Engineering, Electrical and Electronics Engineering, Computer Science and Engineering, Information Technology) Subject: Engineering Physics (Theory and Laboratory), Basic Electronics, Optical Instrumentation, Humanities (1994-2016).

### **DETAILS OF Ph.D GUIDANCE**

#### **AWARDED**

1. Investigations on TiO<sub>2</sub> based nanocomposites as potential photonic Materials, Ms. Divya S (Reg. No : 3997, DoJ : 28.07.2010), with Co guide: Dr P Radhakrishnan, Professor, ISP. Awarded Ph.D on 29<sup>th</sup> February 2016.

2. **Investigations on optical characteristics of certain dyes with silver nano particles for photonic applications.** Mrs. Bini Pathrose (Reg. No : 4036, DoJ : 11.08.2011) with Co guide: Dr P Radhakrishanan, Professor, ISP. Awarded Ph.D. on 04<sup>th</sup> January 2018.
3. **Investigations on laser speckle techniques for certain engineering and biological Applications** Mr. Rethesh R (Reg.No : 3996, DoJ : 28.07.2010), with Co guide: Dr P Radhakrishanan, Professor, ISP. Awarded Ph.D. on 22<sup>nd</sup> November 2018.
4. **Investigations on synthesis and characterization of CdSe and CdSe-ZnSe nanostructures for photonic applications.** Mr. Boni Samuel (Reg. No: 4645, DoJ: 06.02.2014) with Co guide: Dr V P N Nampoori, Professor Emeritus, ISP. Awarded Ph.D. on 27<sup>th</sup> July 2021.
5. **Modeling and detection of certain flooding based denial-of-service attacks in wireless adhoc networks,** Mr. Nishanth N (Reg.No:5759, DoJ: 25.04.2018). Awarded Ph.D on 31<sup>st</sup> January 2022.
6. **Passive acoustic classification of underwater targets using unsupervised representation learning schemes** Mr. Satheesh Chandran. C ( Reg. No: 4840 DoJ: 16.07.2014) with Guide: Dr Supriya M H, Professor, Department of Electronics. Awarded Ph.D. on 11<sup>th</sup> April 2022.
7. **Investigations on laser assisted synthesis and Plasmon enhanced linear and non linear optical properties of mono and bimetallic nano particles of gold, silver and platinum,** Ms Fathima R ( Reg.No 5444, DoJ: 01.07.2017). Awarded Ph.D on 31<sup>st</sup> August 2022.
8. **Studies on synthesis and characterization of certain bismuth oxide nanocomposites for photonic applications.** Mr. Adrin Antony Correya (Reg. No: 4696 DoJ: 24.03.2014) with Co guide: Dr V P N Nampoori, Professor Emeritus, ISP. Awarded Ph.D. on 26<sup>th</sup> April 2023.
9. **Investigations on photothermal and non linear optical characteristics of Silicon nanoparticles and their nanocomposites with Gold and Silver.** Mr. RajSha M.M (Reg.No 5117 DoJ: 22.01.2016) with Co-guide: Dr VPN Nampoori, Professor Emeritus, ISP. Awarded Ph.D. on 18<sup>th</sup> August 2023.

#### **ON GOING**

10. **Investigations on optical characteristics of Neutral red and bodipy dyes for photonic applications** Ms. Anitha Prakash, (July 2016) with Co-guide: Dr P Radhakrishanan, Emeritus Professor,ISP. Thesis submitted to the University and awaiting Open defence.
11. **Tailoring band gap and stoichiometry of Nickel Oxide nanoparticles for optical limiting and photo catalytic applications,** Mr Pradeep Kumar (November 2016) with co guide: Dr P Radhakrishanan, Emeritus Professor, ISP.
12. **Studies on Laser Speckle Techniques for Metrology.** Mrs Keerthana S H (February 2017) with co guide: Dr P Radhakrishanan, Emeritus Professor,ISP
13. **Synthesis and Characterization of selected nanoparticles and its composites for photonic applications** Adarsh K J ( April 2018).

14. Modelling, simulation and experimental, validation of certain laser speckle imaging techniques. Sooraj Viswam A K ( July 2018).
15. Investigations on design, fabrication and characterization of certain epsilon-near-zero metamaterials, Muhammad Rishad K P (October 2021).
16. Studies on titanium based nanocomposites for optoelectronic applications, Shanto T A (August 2022).
17. Investigations on biosynthesized noble metal nanoparticles for photonics applications, Betsy Susan Abraham ( August 2022).
18. Thermo Optic Studies, Priya Mary N J (December 2022).
19. Three Dimensional Electronic Laser Speckle Pattern Interferometry for Structural Testing, Arpitha Sunny ( July 2023)

### POST DOCTORAL FELLOWS

1. Dr Mathew, UPDF (2016-2019)
2. Dr Md Zaheer Ansari, UPDF (2017-2020)
3. Dr Md Zaheer Ansari, RPDF (2020 -2021)
4. Dr Bini P Pathrose, UPDF (2021 onwards)

### UGC/ AICTE / GOVERNMENT OF KERALA SPONSORED WORKSHOP/ REFRESHER COURSES ATTENDED

1. Journal Citation Reports Certification Series (JCR), Clarivate, 8<sup>th</sup> July 2021.
2. Workshop on Universal Human Values on the theme “Inculcating Universal Human Values in Technical Education” from 11<sup>th</sup> to 15<sup>th</sup> May 2020 organized by AICTE.
3. Workshop on Science, Technology and Innovation Policy organized by Centre for Development Studies on 31<sup>st</sup> August 2013.
4. Annual Photonics Workshop (APW) sponsored by UGC at International School of Photonics, Cochin University of science and Technology on 28<sup>th</sup> February 2012.
5. Workshop on e-governance conducted by AICTE at College of Engineering Thiruvananthapuram on 14<sup>th</sup> November 2011.
6. Short term Course for Science Research Guides sponsored by U G C, at Academic Staff College, University of Kerala from 17<sup>th</sup> to 21<sup>st</sup> October 2011.
7. Annual Photonics Workshop (APW) on Recent Trends in Fiber Optics and its Applications sponsored by UGC at International School of Photonics, Cochin University of Science and Technology from 27<sup>th</sup> to 28<sup>th</sup> February 2011.

8. **National Workshop on Optoelectronics and Optical Communication (NWOOC-2011)** organized by Department of Optoelectronics, University of Kerala from 5<sup>th</sup> to 6<sup>th</sup> January 2011.
9. **Stimulating Teachers through Advanced Training Programme (STAT)** for college teachers on Recent Trends in Photonics held from 27<sup>th</sup> September to 01<sup>st</sup> October 2010, jointly organized by Cochin University of Science and Technology and UGC-Academic Staff College, University of Kerala, sponsored by Government of Kerala.
10. **Orientation Course for the NSS Programme Officers** of the National Service Scheme organised by the NSS Training and Orientation Centre Kerala at Rajagiri College of Social Sciences, Kalamasseri, Kochi from 4<sup>th</sup> to 13<sup>th</sup> August 2009.
11. **Short Term Course on Advances in Nanotechnology**, organized by the Centre for Continuing Education and sponsored by Technical Education Quality Improvement Programme, Govt. of India at Sree Chitra Tirunal College of Engineering, Thiruvananthapuram from 5<sup>th</sup> to 14<sup>th</sup> January 2009.
12. **Workshop on Science Communication Through Cultural Events**, organized by Swadeshi Science Movement and Rashtriya Vigyan Evam Prodyogiki Sanchar Parishad (NCSTC) from 5<sup>th</sup> to 9<sup>th</sup> December 2008.
13. **Workshop on curriculum development conducted for restructuring of M.Tech/MPhil syllabus** as a special invitee from 27<sup>th</sup> to 28<sup>th</sup> February 2008 organised by the Department of Optoelectronics, University of Kerala.
14. **Refresher Course in Physics (Optics-Optoelectronics)** sponsored by U G C, at Academic Staff College, University of Kerala from 14<sup>th</sup> Feb 2007 to 7<sup>th</sup> March 2007.
15. **National workshop on Technology Enhanced Learning for Enriching Engineering Education** jointly organized by National Programme on Technology Enhancement Learning, Indian Institute of Technology, Madras and Indian Institute of Information Technology and Management Kerala from 5<sup>th</sup> to 6<sup>th</sup> January 2007 at Techno park, Thiruvananthapuram.
16. **State level two day workshop on the Science and Technology of Non Destructive Evaluation and Application of Spectroscopy** from 12<sup>th</sup> to 13<sup>th</sup> November 2004 at St Aloysius College Edathua organized by ISNT Thiruvananthapuram Chapter and Department of Physics, St Aloysius College Edathua.
17. **Refresher Course in Physics** sponsored by U G C, at Academic Staff College, University of Kerala from 14<sup>th</sup> July to 3<sup>rd</sup> August 2004.
18. **National Workshop on Recent Trends in Optoelectronics and Optical Communication (WOOC)** organized by Department of Optoelectronics, University of Kerala from 26<sup>th</sup> to 28<sup>th</sup> May 2004.
19. **Annual Photonics Workshop (APW) on Recent Trends in Optics** sponsored by UGC at International School of Photonics, Cochin University of Science and Technology from 27<sup>th</sup> to 28<sup>th</sup> February 2004.

20. **Refresher Course in Physics** sponsored by U G C, at Academic Staff College, University of Kerala from 27<sup>th</sup> January to 17<sup>th</sup> February 2004.
21. **Refresher Course in Physics** sponsored by U G C, at Academic Staff College, University of Kerala from 26<sup>th</sup> July to 16<sup>th</sup> August 2002.
22. **ILA Course on (i) Optical properties of Semiconductor dots (ii) Semiconductor Optoelectronic Devices for quantum wells to Bloch Oscillators and Quantum Cascade lasers** conducted by Indian Laser Association at Centre for Advanced Technology Indore on 18<sup>th</sup> December 2001.
23. **Short Term Course on the application of transform theory to Optics and Optical Communication** organized jointly by the Department of Mathematics and Optoelectronics, University of Kerala at Kariavattom Campus from 29<sup>th</sup> October to 3<sup>rd</sup> November 2001.
24. **Workshop on R & D Perspectives in Nondestructive Evaluation Technology** held on 17<sup>th</sup> February 2001 at Department of Physics, University of Kerala under the auspices of Indian Society for Non Destructive Testing Thiruvananthapuram Chapter and Department of Physics, University of Kerala.
25. **Workshop on Astronomical Image Processing and the Internet** organized by the Inter University Centre for Astronomy and Astrophysics Pune and University of Kerala at the University Observatory, Observatory Hills, Thiruvananthapuram from 20<sup>th</sup> to 24<sup>th</sup> December 1996.
26. **Regional School of Introductory Astronomy** conducted from 10<sup>th</sup> to 15<sup>th</sup> March 1993 at Department of Physics in association with the University Observatory, Trivandrum.

## **PUBLICATIONS/PRESENTATIONS**

### **Books/Chapters**

1. Application of biospeckle Laser method for drug testing parasites, Chapter 9, Part II Research Papers, Advanced Studies in Experimental and Clinical Medicine, Modern Trends and Latest Approaches, CRC Press, Taylor & Francis Group, Apple Academic Press USA , First Edition 2021.
2. **Proceedings of National Photonics Symposium 2019, 27Feb-1March 2019, ISBN: 978-81-936217-8-3, Published by the Directorate of Public Relations and Publications, Cochin University of Science and technology, Kochi, Kerala. Chief Editor (2019).**
3. **Proceedings of National Photonics Symposium 2018, 27Feb-1March 2018, ISBN: 978-81-936217-0-7, Published by the Directorate of Public Relations and Publications, Cochin University of Science and technology, Kochi, Kerala. Chief Editor (2018).**

4. Proceedings of National Photonics Symposium 2017, 27Feb-1March 2017, ISBN: 978-93-80095-92-9, Published by the Directorate of Public Relations and Publications, Cochin University of Science and technology, Kochi, Kerala. Chief Editor (2017).

## Journals

5. Boni Samuel, K J Adarsh, V P N Nampoore, A Mujeeb, "Optimization of certain synthesis parameters for CdSe Quantum Dots and synthesis of CdSe-ZnSe nano tetrapods through facile hot injection method" Phys. Chem. Math., 2023, 14 (4), 479488.[http:// nanojournal.ifmo.ru](http://nanojournal.ifmo.ru) DOI 10.17586/2220-8054-2023-14-4-479-488
6. V Pradeep Kumar, C Pradeep, M M Rajsha, KPM Rishad, P Radhakrishanan, A Mujeeb "Bandgap dependence of two photon absorption in NiO nanoparticles synthesized at different calcination temperatures" Optical Materials, 142 (2023) 114063 DoI: <https://doi.org/10.1016/j.optmat.2023.11063>
7. Adrine Antony Correya, V P N Nampoore, A Mujeeb "Microwave assisted synthesis of bismuth titante nanosheets and its photocatalytic effects" Peer J Materials Science DoI : 10.7717/peerj-matsci.26 (202)
8. V Pradeep Kumar, C Pradeep, M M Rajsha, P Radhakrishanan, A Mujeeb "Bandgap dependence of threephton absorption in NiO nanoparticles synthesized at different calcination temperatures" Optics and Laser Technology 158 (2023) 108809 <http://doi.org/10.1016/j.optalstec.2022.108809>
9. M M Rajsha, K P M Rishad, V Pradeep Kumar, V P N Nampoore and A Mujeeb " Laser assisted synthesis of Si-Au nanocomposites with trisodium citrate and their enhanced nonlinear optical properties J Mater Sci: Mater Electron (2022) <https://doi.org/10.1007/s10854-02209162-0>
10. Prakash, Anitha, Jith C. Janardhanan, Vakayil K. Praveen, P. Radhakrishnan, and A. Mujeeb. "Multimode laser emission from BODIPY dye-doped polymer optical fiber." Journal of Luminescence 252 (2022): 119343.
11. Jancy John, Vinoy Thomas, Sujesh Baby, Ramakrishnan Jayakrishnan, Sebastian Mathew, Ibrahimkutty Rejeena, Abdulhassan Mujeeb, " Open-aperture Z scan and optical limiting of plasmonicsilver-polymer system", Journal of Optoelectronics and Advanced Materials, 24 (2022) p 250-255
12. Adrine Antony Correya, Abdul Nadeer, V P N Nampoore, A Mujeeb, "The effect of polyethylene glycol on the formation of bismuth titanate nanosheets and its effect on optical charecteristics" Journal of Cluster Science (2022) <https://doi.org/10.1007/s10876-022-02290-x>.
13. A. Prakash, J.C. Janardhanan, A. Padmakumar, V.K. Praveen, P. Radhakrishnan, A Mujeeb, "Effect of laser ablated gold nanoparticles on the nonlinear optical properties of  $\pi$ -extended BODIPY dyes", Journal of Photochemistry & Photobiology A: Chemistry (2022)doi: <https://doi.org/10.1016/j.jphotochem.2022.113997>.

14. R Fathima, A Mujeeb. "Enhanced non linear and thermo optical properties of laser synthesized surfactant-free Au-Pt bimetallic nanoparticles", J Molecular Liquids, 343 (2021) 117711 doi.org/10.1016/j.molliq.2021.117711 0167-7322.
15. R Fathima, A Mujeeb, "Nonlinear optical investigations of laser generated gold, silver and gold-silver alloy nanoparticles and optical limiting applications". Journal of Alloys and Compounds, 858 (2021): 157667 doi.org/10.1016/j.jallcom.2020.157667.
16. Satheesh Chandran C, Suraj Kamal, A Mujeeb and Supriya M H, "Generative adversarial learning for improved data efficiency in underwater target classification", Engineering, Science and Technology 30 (2022) 101043doi.org/10.1016/j.jestch.2021.07.006.
17. Raj Sha M M, Correya A A, Nampoore V P N, A Mujeeb" Laser ablated silicon nanoparticles with selected solvents : A comparison of thermal diffusivity under different concentrations" Optik (Stuttg) 247 (2021) 167881. <https://doi.org/10.1016/j.ijleo.2021.167881>
18. S H Keerthana, R Fathima, P Radhakrishnan, A Mujeeb. "Evaluation of stability of laser ablated colloidal Silver nanoparticles using dynamic laser speckle technique", Optics 244 (2021) 167573, doi.org/10.1016/j.ijleo.2021.167573.
19. Satheesh Chandran C, Suraj Kamal, A Mujeeb and Supriya M H "Passive sonar target classification using deep generative  $\beta$  - VAE", IEEE Signal Processing Letters, DOI 10.1109/LSP.2021.3071255.
20. R Fathima, A Mujeeb "Plasmon enhanced linear and nonlinear optical properties of natural curcumin dye with silver nanoparticles", Dyes and Pigments February 2021 189(5887):109256 DOI:10.1016/j.dyepig.2021.109256.
21. Kumar, Pradeep, S. Mathew, V. R. Anand, P. Radhakrishnan, V. P. N. Nampoore, and A. Mujeeb. "Defect level dependent visible emission of nickel oxide nanoparticles through controlled calcinations temperature." Optik (2021): 166388. doi. Org / 10.1016 / j.ijleo. 2021.166388
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23. Mohammed Zaheer Ansari, Humberto Cabrera, Hilda C Grassi, Ana Velasquez, Efren D J Andrades, A Mujeeb. " Application of biospeckle Laser method for drug testing parasites", Chapter 9, Part II Research Papers, Advanced Studies in Experimental and Clinical Medicine, Modern Trends and Latest Approaches, CRC Press, Taylor & Francis Group, Apple Academic Press USA , First Edition 2021



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25. N Nishanth, and A Mujeeb. "Modeling and Detection of Flooding-Based Denial-of-Service Attack in Wireless Ad Hoc Network Using Bayesian Inference." *IEEE Systems Journal*(2020) doi:[10.1109/JSYST.2020.2984797](https://doi.org/10.1109/JSYST.2020.2984797) IF 4.46
26. Fathima, R., and A. Mujeeb. "Tailoring thermo-optical properties of eosin B dye using surfactant-free gold-silver alloy nanoparticles." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 228 (2020)<https://doi.org/10.1016/j.saa.2019.117713> I.F 2.93
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29. Jose, Jasmine, Vinoy Thomas, Archana Raj, Jancy John, Raji Mary Mathew, Vrinda Vinod, Ibrahimkutty Rejeena, Sebastian Mathew, Rani Abraham, and Abdulhassan Mujeeb. "Eco-friendly thermal insulation material from cellulose nanofibre." *Journal of Applied Polymer Science* (2019): 48272.
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35. Thomas, Jeena, Prakash Periakaruppan, Vinoy Thomas, Jancy John, S. Mathew, Titu Thomas, Jasmine Jose, I. Rejeena, and A. Mujeeb. "Morphology dependent nonlinear optical and photocatalytic activity of anisotropic plasmonic silver." *RSC Advances* 8, no. 72 (2018): 41288-41298.
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39. Prakash, Anitha, Bini P. Pathrose, V. P. N. Nampoori, P. Radhakrishnan, and A. Mujeeb. "Thermal diffusivity of neutral red dye using dual beam thermal lens technique: A comparison on the effects using nano pulsed laser ablated silver and gold nanoparticles." *Physica E: Low-dimensional Systems and Nanostructures* 107 (2018): 203-208. (3.570)
40. Fathima, R., and A. Mujeeb. "Laser induced synthesis and concentration dependent thermo-optical properties of silver-gold alloy nanoparticles." *Materials Research Express* 5, no. 12 (2018): 125011.
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44. Prakash, Anitha., Bini P Pathrose, S. Mathew, V.P.N Nampoori, P.Radhakrishnan, A. Mujeeb, "Variations in thermo-optical properties of neutral red dye with laser ablated gold nano particles ." *Optical materials* 79 (2018): 237-242.
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### Proceedings / Presentations: Conference/Seminar

#### International

84. R Fathima, A Mujeeb, "Laser assisted synthesis of surfactant free Au-Ag alloy nanoparticles in water", First International Conference on Technologies for Smart Green Society 29-30 November 2021.
85. R Fathima, A Mujeeb, "Tailoring the Photo Thermal Properties of Natural Curcumin Dye with Laser Generated Silver Nanoparticles" The Frontiers in Optics + Laser Science Conference (FIO LS) Organised by OSA October 2021.
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88. R Fathima, A Mujeeb "Influence of laser ablated surfactant-free silver nanoparticles on thermo optical properties of eosin B dye", Proc. International conference on recent advances in material science ICRAMS-2020, at Mahatma Gandhi College, Thiruvananthapuram during 22-23 January 2020-
89. A. K. Sooraj Viswam, A Mujeeb "Thermo-optic properties of Aloe Vera Extract" at International Conference of Optics and Electro optics (ICOL – 2019), IIT Delhi, IRDE Dehradun, Utharkhand from 19 to 22 October, 2019.
90. M.M. Raj Sha, V.P.N Nampoori, and A. Mujeeb, "Concentration dependent thermal diffusivity studies of silicon nanoparticles in isopropyl alcohol" at International Conference of Optics and Electro optics (ICOL – 2019), IIT Delhi, IRDE Dehradun, Utharkhand, from 19 to 22 October, 2019.

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94. Anitha Prakash, Bini P.Pathrose, P.Radhakrishnan, "Enhancement of nonlinear optical properties of neutral red dye with laser ablated silver nanoparticles" at international conference on optoelectronics and nano materials for advanced technology (icONMAT-2019), Oraganised by CAM and IUCND, CUSAT from 3-5January 2019.
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121. Boni Samuel, V P N Nampoori and A Mujeeb, “Fluorescence quenching in CdSe quantum dots” at National photonics symposium (NPS - 2019), International School of Photonics, CUSAT from 27 February to 1 March 2019. ISBN 978-81-936217-8-3.
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123. Keerthana S H, Fathima R and A Mujeeb, "Concentration dependent optical studies of laser ablated colloidal gold nanoparticles using dynamic laser speckle technique" at National photonics symposium (NPS - 2019), International School of Photonics, CUSAT from 27 February to 1 March 2019. ISBN 978-81-936217-8-3.
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### **INVITED SPEAKER/RESOURCE PERSON/TALK/ABSTRACTS**

1. **Invited Speaker/Inauguration** of Arduino Based Robotics and Automation Course, "Research Prospects in Physics", at Nirmala College Muvattupzha on 15<sup>th</sup> December 2022.
2. **Resource Person** for Orientation Programme " NAAC Need and Process" at International School of Photonics on 30<sup>th</sup> September 2022
3. **Resource Person / Key Note Address** on "Photonics, prakasam upayogichulla Sankhethikavidya" for Science Day Inauguration at Brahmanadodayam Sanskrit U P School Kalady SNDP on 21<sup>st</sup> July 2022-
4. **Resource Person/ Key Note Address** on "Sasthravum Gaveshanavum"for Science Day Inauguration at SNDP High School Neeleeswaram on 13<sup>th</sup> July 2022-
5. **Resource Person** for the induction programme for the newly Recruited Non Teaching Staff organized by Centre for Employees Empowerment & Skill Acquisition, for the session Academic Administration on 31.03.2022.
6. **Resource person** in the TEQIP-II sponsored Faculty Development Program on Recent Trends in Bionanoelectronics organized by LBS Institute of Science and Technology for Women, Poojappura, Thiruvananthapuram, delivered talk on "Biophotonics" on 25<sup>th</sup> March 2022.
7. **Resource Person** for the induction programme for the newly Recruited Faculty members organized by Centre for Employees Empowerment & Skill Acquisition, for the hsession Academic Administration and Accreditation on 09.03.2022.
8. **Resource Person** for the induction programme for the newly Recruited Non Teaching Staff organized by Centre for Employees Empowerment & Skill Acquisition, for the session Academic Administration on 09.03.2022.
9. **Guest Speaker** in the AICTE ATAL sponsored Faculty Development Program organized by Sree Shankaracharya Group of Institutions, Bhilai Chhattisgarh, delivered a talk on "Nanophotonics" on 1<sup>st</sup> February 2022.
10. **Resource person** in the AICTE ATAL sponsored Faculty Development Program organized by MES College of Engineering, Kuttippuram, delivered a talk on "Speckle Metrology" on 23<sup>rd</sup> September 2021.
11. **Resource person** in the AICTE ATAL sponsored Faculty Development Program organized by MES College of Engineering, Kuttippuram, delivered a talk on "Optical NDT" on 22<sup>nd</sup> September 2021.
12. **Invited Speaker** in the Online line session for the BSc honors Physics students of Punjab University, Chandigarh, "Developments on Interferometry Techniques after Holography" on 5<sup>th</sup> June 2021.



13. **Resource person** in the TEQIP-II sponsored Faculty Development Program organized by LBS Institute of Science and Technology for Women, Poojappura, Thiruvananthapuram, delivered talk on “Photonics-Technology using Light: Thrust areas of Research and Prospects” on 9<sup>th</sup> November 2020.
14. **Resource person** for refresher course, lecture delivered on “Laser assisted non destructive testing and synthesis of materials” at UGC HRDC University of Kerala on 28<sup>th</sup> November 2019.
15. **Special address** at Investiture Ceremony at Najath Public School Kalamassery, Kochi, on 29<sup>th</sup> July 2017.
16. **Resource Person** for refresher course, Lecture delivered on “Laser Assisted non-destructive testing of materials” at Department of Physics, Payyannur Campus, organized by UGC HRDC Kannur University on 14<sup>th</sup> March 2017.
17. **Resource Person** for refresher course Lecture delivered on “Ultra fast lasers for nano material synthesis” at Department of Physics, Payyannur Campus, organized by UGC HRDC Kannur University on 14<sup>th</sup> March 2017.
18. **Invited Lecture** on “Laser speckle techniques for non-destructive evaluation of materials” at CAPE College of engineering, Kidangur on 7<sup>th</sup> March 2017.
19. **Invited talk** on “CV Raman: The legend who placed India on World Science Map” during National Science day celebrations at HHMSPB NSS College for Women Neeramnakara, Thiruvananthapuram on 20<sup>th</sup> February 2017.
20. **Special Lecture** on “Photonics - Technology using light” Sign In SPEED programme sponsored by KSCSTE organized at International School of Photonics for Prathibha Scholars on 15<sup>th</sup> February 2017.
21. **Special Address** at 26<sup>th</sup> National seminar and International Exhibition on nondestructive Evaluation, Thiruvananthapuram, 15-17 December 2016
22. **Resource Person** for refresher course, delivered lecture on “Laser Assisted synthesis of materials” at UGC HRDC University of Kerala on 14<sup>th</sup> December 2016.
23. **Invited talk** on “Experimental and Theoretical Studies on Electronic Speckle Interferometry for Non-Destructive Evaluation” nCORTEch16, LBS College of Engineering Kasargode during February 2016(Chief Organiser)
24. **Invited talk on the topic** “Towards Better Teaching”, Orientation for Contract Teachers at LBSITW on 25<sup>th</sup> October 2013.
25. **Special lecture** on “Empowering Young Engineers”, One day Technical Workshop conducted by Techfed Kerala, at Kochi on 23<sup>rd</sup> December 2012.
26. **Invited speech** on “World of Electronics: Brief Prospects and Analysis”, Principia-012, at Hassan Haji Memorial JDT Islam Polytechnic College on 6<sup>th</sup> September 2012.

27. **Invited talk on**“Science and Society”, Orientation for School students at Markaz. Ernakulam on 10<sup>th</sup> April 2012.
28. **Invited speaker**, delivered talk on “Sir C V Raman, The legend who placed India on World Science Map”, National Science day Lecture - at Devaswom Board Pampa College, Parumala, Mannar on 6<sup>th</sup> March 2012.
29. **Article on** “Optoelectronics for Nondestructive Testing”, CKCT, Annual Meet Report, March 2012.
30. **Article** “Laser: The Magic Lamp”, Hira public School. Intimate Annual 2011-12.
31. **Special lecture on** “Personality Development and Leadership Qualities”. NSS Camp. CUCEK on 1<sup>st</sup> February 2012.
32. **Presentation**“Laser Speckle Interferometry: A powerful On Line Optoelectronic NDE Tool” NWOOC 5-6, January. 2011.
33. **Invited speaker on** “Laser Speckle Interferometry and Optical Image processing for NDT Applications”, at VIT University, Madras, on 13<sup>th</sup> March 2010.
34. **Talk on** “Towards Better Teaching”, Orientation for Contract Teachersat CUCEK on 11<sup>th</sup>November 2009.
35. **Presentation on** “Measurement and analysis of surface roughness properties of aerospacecomponents using speckle photography”, I-CAT 2009, 28-29. May 2009.
36. **Seminar on** “Speckle Non Destructive Testing” at International School of Photonics, Cochin University of Science and Technology on 19<sup>th</sup> February 2009.
37. **Invited speaker :** “Optical Techniques for NDE” Spectrum 2007, organized by Sree Narayana College Chempazhanchy, Thiruvananthapuram on 26<sup>th</sup> October 2007
38. **Invited Speaker:**“Laser Speckle Techniques for NDE”, Technical Session II , at Mar Athanasius College, Kothamangalam, as part of State Level Seminar on Science and Technology of Non-Destructive Evaluation on 24<sup>th</sup> November 2006.

### **CONFERENCE/SYMPOSIUM/SEMINAR: ORGANISED/CHAIR/ATTENDED**

1. **National Photonic Symposium 2023 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> February to 1<sup>st</sup> March 2023. (Organizing Committee Member and Chair)**
2. **IEEE INDICON 2022, Technical session on “ PE & Drives – Ad Photonics Tech” organized by IEEE Kerala Section, at Cochin University of Science and Technology, Kochi from 24-26 November 2022 (Session Chair)**

3. International Webinar cum National Photonic Symposium 2022 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> February to 1<sup>st</sup> March 2022. (Organizing Committee Member and Chair)-
4. IEEE Fourth International Conference of Microelectronics, Signals and Systems (ICMSS 21) held on 18/11/21at organized by the Department of ECE,TKM College of Engineering, Kollam (Session Chair).
5. ROWS Raman Optronics webinar Series, Virtual International Conference, Session “Signal Processing” 4<sup>th</sup> December 2021, organized by Department of Optoelectronics, University of Kerala (Session Chair).
6. International Webinar cum National Photonic Symposium 2021 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> February to 1<sup>st</sup> March 2021. (Organizing Committee Member and Chair)-
7. ROWS Raman Optronics webinar Series, Virtual International Conference, Session ‘ Lasers and Non linear Optics” 28<sup>th</sup> November 2020, organized by Department of Optoelectronics, University of Kerala (Session Chair).
8. National Photonic Symposium 2020 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> to 29<sup>th</sup> February 2020. (Organising Committee Member and Chair)-
9. National Photonic Symposium 2019 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> February to 1<sup>st</sup> March 2019 (Chief Organiser and Chief Editor NPS 2019 Proceedings).
10. International Day (11<sup>th</sup> February)for Women and Girls’ in Science, on 14<sup>th</sup> February 2019 at International School of Photonics ( Chief Patron)-
11. OSA Travel Lecture on 7<sup>th</sup> January 2019, sponsored by OSA at International School of Photonics. (Chief Patron)-
12. International Day of Light, on 16<sup>th</sup> May 2018, sponsored by OSA and SPIE ( Chief Organiser)-
13. National Photonic Symposium 2018 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and SPIE, OSA from 27<sup>th</sup> February to 1<sup>st</sup> March 2018 (Chief Organiser and Chief Editor NPS 2018 Proceedings).
14. Curtain Raiser Programme, CUSAT, Kerala Science Congress, January 2018, at International School of Photonics on 10<sup>th</sup> January 2018 ( Co-ordinator)-
15. International OSA network of Students- IONS Kochi, sponsored by Optical Society of America,hosted by International School of Photonics, Cochin University of Science and Technology during 11<sup>th</sup> to 14<sup>th</sup> September 2017 ( Chief Patron)-

16. National Photonic Symposium 2017 at International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission and KSCSTE from 27th February to 1<sup>st</sup> March 2017 (**Chief Organiser and Chief Editor NPS 2017 Proceedings**)-
17. “Sign In – Science to ignite Inspirations”, Five days workshop for KSCSTE prathibha Scholars, organized at International School of Photonics, CUSAT from 14<sup>th</sup> to 18<sup>th</sup> February 2017 (**Chief Co-ordinator**)-
18. 29<sup>th</sup> Kerala Science Congress, organized by Kerala State Council for Science Technology and Environment, Government of Kerala, at Marthoma College Thiruvalla during January 28-30 2017.
19. 26<sup>th</sup> National Seminar and International Exhibition on Non-Destructive Evaluation 15-17 December 2016 organized by Indian Society for Non-Destructive Evaluation at Thiruvananthapuram ( **Local Organizing Committee and Executive Committee member**).
20. National Photonic Symposium and Workshop-2016 organized by International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission on 27th February 2016-
21. 3<sup>rd</sup> National Conference on recent advances in Engineering and Technology nCORTEch'16 organized by LBS College of Engineering at Kasargode during 10-11 February 2016 (**Chief Patron**)-
22. Annual Photonic Workshop-2015 organized by International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission on 26<sup>th</sup> February 2015-
23. First International Conference on Computational Systems and Communications ICCSC14, organized by LBS Institute of Technology for Women during 17-18 December 2014. (**Patron and Member, Advisory Committee**).
24. Three Day international Symposium on Assistive Technology for rehabilitation and Disability Management, during 2-4 December 2014, organized by Centre for Disability Studies, LBS Centre for Science and Technology, Trivandrum (**General Chair and organizing Committee and Editorial Board Member**).
25. Eleventh International Conference on Condition Monitoring and Machinery Failure Prevention Technologies CM2014/MFPT 2014 organized by The British Institute of Non-Destructive Testing at Marriott Victoria & Albert Hotel, Manchester, U.K. during June 10-12, 2014.
26. Annual Photonic Workshop-2014 organized by International School of Photonics, Cochin University of Science and Technology sponsored by University Grants Commission on 27<sup>th</sup> February 2014-
27. National conference on Advances in Computational Intelligence and Communication Technologies 2013 organised by Department of ECE and CSE, LBS Institute of Technology for Women on 27<sup>th</sup> June 2013-

28. International Meet on Transnational Education conducted by the Kerala State Higher Education Council during 3-5 January 2014, at Thiruvananthapuram.
29. Two days National seminar on Multidisciplinary approach to Childhood Disability management, during 3-4 December 2013, organized by Centre for Disability Studies, LBS Centre for Science and Technology, Trivandrum (**Organizing Committee and Editorial Board Member**).
30. Two days National seminar on Multidisciplinary approach to Disability management, during 3-4 December 2012, organized by Centre for Disability Studies, LBS Centre for Science and Technology, Trivandrum (**Organizing Committee and Editorial Board Member**).
31. Training programme on Blade server Implementation & Configuration, during 26-27 November 2012, organized by Software Engineering wing, LBS Centre for Science and Technology, Trivandrum. (**Co-Ordinator**).
32. Syndicate Members' Meet 2012 organized by Kerala State Higher Education Council on 16<sup>th</sup> October 2012
33. Emerging Kerala 2012, September 13<sup>th</sup> at Le Meridian Kochi-
34. Professor Pishorody Memorial Science Lecture, organized by Centre for Science Communication, CUSAT on 30<sup>th</sup> March 2012-
35. II National Conference on Indian Language Computing (NCILC-2012) organized by the department of Computer applications, CUSAT, inaugural ceremony, on 18<sup>th</sup> February 2012-
36. Annual Photonic Workshop - 2011 organized by International School of Photonics, Cochin University of Science and Technology (CUSAT) in collaboration with Photonics Society of India sponsored by University Grants Commission & ISP-MHO Project during February 27-28, 2011.
37. National Workshop on Optoelectronics and Optical Communication (NWOOC-2011) organized by the Department of Optoelectronics, University of Kerala during 5-6 January 2011
38. All Kerala NSS Programme Officers Meet 2010, organized at Thiruvananthapuram on 31<sup>st</sup> July 2010-
39. Nondestructive Evaluation of Aerospace Material and Structures II, ASNT, St Luis, MO, USA, 24-25 May 2010.
40. Annual Photonic Workshop - 2010 organized by International School of Photonics, Cochin University of Science and Technology (CUSAT) in collaboration with Photonics Society of India sponsored by University Grants Commission & ISP-MHO Project during February 27-28, 2010-
41. 97<sup>th</sup> Indian Science Congress 2010 organised jointly by ISCA, ISRO and University of Kerala during 3-7 January 2010.

42. National seminar on Recent Advances in Digital Techniques for Non-Destructive Evaluation organised by Indian society for Non-Destructive Testing Thiruvananthapuram Chapter and Digital Radiography working Group India on 21<sup>st</sup> November 2009 at Thiruvananthapuram.
43. International conference on Anti-counterfeiting technologies organised by Centre for Development of imaging technologies, govt. of Kerala held at Trivandrum on 28<sup>th</sup> and 29<sup>th</sup> May 2009.
44. National seminar on Photonic materials, NSPM 2009, organized by the department of Optoelectronics, University of Kerala during 26-28, February 2009.
45. National workshop on Dspace for Building Institutional Repositories and Digital Libraries organized by Mahatma Gandhi University at Federal Institute of Science and Technology Angamali on 21<sup>st</sup> October 2008-
46. UGC- AICTE Review Committee meeting held on 13<sup>th</sup> June 2008, hosted by the University of Kerala, Thiruvananthapuram.
47. National Conference on Recent Trends in Optoelectronics and Laser Technology organized by the Department of Optoelectronics, University of Kerala during 9-11 April 2007.
48. National Seminar NDE 2006 conducted by Indian Society for Non Destructive Testing, Hyderabad Chapter during 7-9 December 2006.
49. State Level Seminar on Science and Technology of Non Destructive Evaluation organised by the department of Physics, Mar Athanasius College, Kothamangalam on 24<sup>th</sup> November 2006.
50. Seminar "INSIGHT", organized by School of Technology and Applied Sciences (STAS), Mahatma Gandhi University, Pathanamthitta Regional Centre on 28<sup>th</sup> February, 2006-
51. International Education Meet conducted by Government of Kerala at Kochi during February 4- 9, 2006-
52. Seminar on Optoelectronics organized by the Optoelectronics Students Association of Kerala University (OSAK) at the Department of Optoelectronics, University of Kerala at Kariavattom on 15<sup>th</sup> December 2004.
53. National Seminar NDE '03 conducted by Indian Society for Non Destructive Testing , Trivandrum Chapter at Techno park during 7-12 December 2003-
54. DAE- BRNS National Laser Symposium 2002 Sponsored by Department of Atomic Energy, Board of Research in Nuclear Sciences conducted by Centre for Atomic Energy (CAT) Indore at Sree Chitra Tirunal Institute of Medical Sciences and Technology, Thiruvananthapuram during November 14-16, 2002.
55. Fourteenth (XIV) Kerala Science Congress organized by State Committee on Science Technology and Environment (STEC), Government of Kerala at Cochin University of Science and Technology (CUSAT) Campus, Kochi during 29 - 31 January, 2002.

56. DAE- BRNS National Laser Symposium 2001 Sponsored by Department of Atomic Energy, Board of Research in Nuclear Sciences conducted at Centre for Atomic Energy (CAT) Indore during 19 - 21 December, 2001.
57. National seminar on The Role of NDE in Residual Life Assessment and Life Extension organized by Indian Society for Non Destructive Testing (ISNT) at Mumbai during 7-9, December 2001.
58. National Seminar on Spectroscopy, Optoelectronics and Non destructive Evaluation (SPENDE) organised by the Department of Optoelectronics, University of Kerala at Kariavattom Campus during 25-26 May 2001.
59. National Seminar NDE 98 conducted by Indian Society for Non Destructive Testing, Trivandrum Chapter at Techno park during 7-12 December 1998.
60. National Seminar NDE 97 on Nondestructive Evaluation for Life Extension organized by Indian Society for Non Destructive Testing at Hyderabad during 11-13 December 1997.
61. Ninth Kerala Science Congress organised by state Committee on Science Technology and Environment (STEC), Government of Kerala at Trivandrum during 27-29 January 1997.
62. XXIV Annual Convention of Indian Society for Technical Education (ISTE) at Regional Engineering College, Calicut during 17-19 December 1994-

### **PESRSONAL PROFILE**

Date of Birth	29 <sup>th</sup> May 1971
Aadhaar Number	9984 2277 7522
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Nationality	Indian
Religion & Caste	Islam Muslim
Marital Status	Married
Wife	Dr. H Sahira. M.B.B.S., M.D. Professor Department of Microbiology Government Medical College, Parippally, Kollam.



## DECLARATION

I do here by declare that the above information is true to the best of my knowledge and belief.



Cochin-22  
02.10.2023

A MUJEEB

## REFERENCES

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## **Selected General Presentations / Address / welcome/Public Speech.**

DR VR Ravindran Memorial Lecture and Prize distribution on 7<sup>th</sup> December 2020 with Prof V P Mahadevan Pillai, Vice Chancellor, Kerala University.

Academic Induction Programme 2019 -2020 Batch at Cochin University of Science and Technology from 1<sup>st</sup> July 2019 to 3<sup>rd</sup> July 2019 with Vice Chancellor Dr Madhusoodhanan.

National Photonic Symposium 2019 at International School of Photonics, on 27th February and 1st March 2017 with Hon'ble Vice-chancellor Dr J Letha.

National Photonic Symposium 2018 at International School of Photonics, on 27th February and 1st March 2017 with Hon'ble Vice-chancellor Dr J Letha.

Kerala Congress Curtain Raiser Program 2018 at International School of Photonics on January 2018.

National Photonic Symposium 2017 at International School of Photonics, on 27th February and 1st March 2017 with Hon'ble Vice-chancellor Dr J Letha and Member Syndicate Prof. M.K Jayaraj

“Sign In – Science to ignite Inspirations”, Five days workshop for KSCSTE prathibha Scholars, organized at International School of Photonics, CUSAT on 14th and 18th February 2017 with Hon'ble Vicechancellor, CUSAT Dr J Letha, Pro Vice Chancellor Dr Poulose Jacob.

Inauguration of LBS Integrated Institute of Science and Tehnology 27<sup>th</sup> February 2016 with Honble Chief Minister Sri Ommen Chandi, Hon'ble Education Minister Sri P.K. AbduRabb at Tirurangadi

ADHD World Awareness Day on 13<sup>th</sup> October 2015 organised by CeD Sinaugurated by Honble Education Minister P.K Abdurabb

LBS Centre Harippad Centre Inauguration on 3<sup>rd</sup> June 2015 with Hon'ble Home Minister Sri Ramesh Chennithala.

Two day training Programme for D Skill Co-ordinators on 12<sup>th</sup> and 13<sup>th</sup> March 2015 at Centre for Excellence in Disability Studies.

Inauguration of Yagna Dhruva 2015at LBS ITW on 6th March 2015.

Inauguration of CUSAT Seminar Complex on 16<sup>th</sup> September 2014 with Honble Chief Minister Sri Ommen Chandi, Hon'ble PWD Minister Sri V.K. Ibrahim Kunju at CUSAT , Kochi.

Launch of technical association and literary club at LBSITW on 08<sup>th</sup> August 2014

Lal Bahadur Sasthrijis, Bust unveiling 18<sup>th</sup> July 2014 with Hon'ble Chief Minister Sri Ommen Chandi.

CAPE College of Engineering Muttathara foundation stone laying ceremony on 4<sup>th</sup> December 2013with Honble Chief Minister, Hon'ble Education Minister , Honble Health Minister etc,

Inaugurationof Extension Block of Cadets hostel KMSME, and Canteen (School of Engineering) on 15th November 2013withHon'ble Fisheries Minister Sri K Babu.

ASAP inaugural programme at Iqbal College Peringammala on 17<sup>th</sup> June 2013.

CUCEK canteen and Civil Engg block Inauguration 16<sup>th</sup> March 2013 with Kodikkunnil Suresh MP.

Civil Engineering Association Annual Day and releasing of Mazazine LBSITW, 27<sup>th</sup> February 2013.

Inaugural function of MTech degree programmes and direct cash Transfer scheme of PG Scholarship at LBS ITW on 9<sup>th</sup> January 2013with EM and Hon'ble Min for State for Human Resources Development.

OPTAAK VRR Memorial Lecture on 16<sup>th</sup> November 2012 at Department of Optoelectronics University of Kerala.

Inauguration of MTech programe (Mechanical),foundation stone laying of Mechanical P G Block on 12<sup>th</sup> November 2012 with Hon'ble Minister for Education Sri. P.K. AbdulRabb at LBS College of Engineering Kasargode.

Higher Education Survey Workshop at University of Kerala on 19<sup>th</sup> October 2012.

## **OTHER ACTIVITIES**

President, Thoppil Gardens Residence Association, Kamaleswaram, Thiruvananthapuram since 2017