

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY DATABASE

INFORMATION DATA SHEET FOR FACULTY MEMBERS

(Filled forms please send to registrar@cusat.ac.in)

(INSERT ADDITIONAL ROW(S) WHERE EVER NECESSARY)

Name:	Dr. Johney Isaac
Department :	Instrumentation
Contact Details Address for communication	Dept. of Instrumentation, CUSAT, Cochin-682022, India
Email	johney@cusat.ac.in
Phone	0484-2577505
Intercom	2357

1. Academic Background

Qualifications:	PH. D.
Qualifying Post Graduate Degree:	M. Sc. Physics
Ph. D with NET	YES
Ph. D without NET	
Post Graduate Degree(s)	
Under Graduate Degree(s):	B.Sc. Physics
Any other PG degree/ Diploma relevant to the subject:	

2. Research Performance

2.1 Published / accepted papers in Journals / Conferences:

Sources consulted for SNIP, SJR, IF and H-index : JCR 2013, <http://www.scimagojr.com>, <http://www.impactfactorsearch.com>, Google scholar, as applicable.

[Cited by : Google Scholar, SNIP : Source Normalized Impact per paper, SJR : Scimago Journal & Country Rank, IF: Impact factor, H-Index: Hirsch Index]

Journal papers

1. Design and fabrication of automated atomic layer deposition system for the deposition of ultra thin high-k dielectric films.
Anu Philip, Johnney Isaac and K. Rajeev Kumar
Jl. of Instrum. Soc. of India. Vol. 40 no.4 311-314 (2010)
2. Characterization of ZnO plasma in a radio frequency sputtering system.
N. V. Joshy, Johnney Isaac and M. K. Jayaraj
J. Appl. Phys. 103, 123305 (2008)
3. Fabrication of a low cost automated system for measuring thermopower.
Manoj R, Pramodan P, Johnney Isaac and M K Jayaraj
Solid State Physics (India) 46, 249 (2003)
4. Synthesis, characterization and properties of $(\text{Ba}_{1-x}\text{Sr}_x)(\text{Nd}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ceramics for application as dielectric resonators in microwave circuits.
H. Sreemoolanathan, Johnney Isaac, M. T. Sebastian, K. A. Jose and P. Mohanan.
Ceramics International, 21, 385 (1995)
5. Preparation and microwave characterization of $\text{Ba}_{2-x}\text{Sr}_x\text{Ti}_9\text{O}_{20}$ ceramics.
H. Sreemoolanathan, Johnney Isaac, Peter Koshy, M. T. Sebastian, K. A. Jose and P. Mohanan.
Br. Cera. Trans. 94, 157 (1995)

6. Thermal diffusivity of solids by photoacoustic cell rotation and phase lag measurement.
Sheenu Thomas, Johny Isaac and J. Philip
Rev. Sci. Instrum. 66, 3907 (1995)
7. Dielectric properties of Ba₅Nb₄O₁₅ Ceramic.
H. Sreemoolanathan, Johny Isaac, Sam Solaman, M. T. Sebastian, K. A. Jose and P. Mohanan.
Phys. Stat. Solidi (a) 143, K45 (1994)
8. General purpose high performance temperature controller for elevated temperatures.
Johny Isaac, Sheenu Thomas and J. Philip
Int. J. Electronics 74, 979 (1993)
9. Elastic and thermal properties of Yttrium Barium Zirconate.
R. Sreekumar, Johny Isaac, J. Philip, K.V. Paulose, M.T. Sebastian and A. D. Damodaran.
Phys. Stat. Solidi (a) 133, 341 (1992)
10. Thermal diffusivity of Bi-Sr-Ca-Cu-O superconductor: Effect of Pb doping.
Johny Isaac, J. Philip, M.T. Sebastian and A.D. Damodaran
Physica C 199, 247 (1992)
11. Energy gap in SbSI around the para-ferroelectric phase transition using photoacoustic technique.
Johny Isaac and J. Philip
J. Acoustic Soc. Ind. XIX, 57 (1991)
12. Design of a preamplifier for amplification of Pulsed photoacoustic signals detected by a piezoelectric transducer.
Reji Philip, Johny Isaac and J. Philip
J. Acoustic Soc. Ind. XIX, 72 (1991)
13. Temperature dependence of the absorption edge in the ferroelectric phase of SbSI using photoacoustic technique.
Johny Isaac and J. Philip
Phys. Stat. Solidi (b) 165, K47 (1991)
14. Stability of the ferroelectric phase in polycrystalline KNO₃ investigated by photoacoustic and calorimetric technique.

Johney Isaac and J. Philip
J. Appl. Phys. 69, 7765 (1991)

15. A low cost high precision proportional plus integral plus derivative temperature controller.
Johney Isaac, L. Godfrey and J. Philip
Ind. J. Pure & Appl. Phys. 29, 195 (1991)
16. Abrupt increase in thermal diffusion below T_c in $Yb_2Cu_3O_7$.
Johney Isaac, J. Philip and B.K. Chaudhury
Pramana - J. Phys. 32, L167 (1989)
17. Anomalous change in photoacoustic phase near superconducting transition in $Yb_2Cu_3O_7$.
Johney Isaac, J. Philip and B.K. Chaudhury
Pramana - J. Phys. 31, L151 (1988)

Conference/Symposia

1. Magneto-dielectric property of sodium potassium lithium niobate- nickel ferrite nanocomposite.
R. Rakhikrishna, Johney Issac and J Philip
National seminar on materials and caharacterization – emerging trends (2013)
2. Dielectric and Thermal properties of magneto-electric sodium potassium niobate-nickel ferrite particulate nanocomposites.
R. Rakhikrishna, J. Issac and J Philip
Nano India 2013
3. High speed voltage ramp and data acquisition circuits for Langmuir probe measurements in radio frequency plasma.
N.N. V. Joshy, Johney Isaac and M. K. Jayaraj
27th National symposium on Plasma Science and technology (PLASMA 2012)
4. Spatial study of RF magnetron plasma using Langmuir probe.
N. V. Joshy, P. M. Aneesh, K. J. Saji, Johney Isaac, and M. K. Jayaraj
20 th National Symposium on Plasma Science and Technology (PLASMA 2005)

2.1. Web based publication

2.2.	Externally Funded Research / Consultancy Projects through University / Institution (Both completed and Ongoing Projects):				
	SI No.	Title	Funding Agency	Amount & Duration	Principal investigator/ Co-investigator
	1.				
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				
	8.				
	9.				
	10.				

2.3	Research Guidance :				
2.3 (a)	Ph D – Degree Awarded				
SI No.	Title	Name of co-guides (if any)	Name of student	University	Year

1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					

Current guidance:

- 1 R. Rakhikrishna
- 2 Sita Radhakrishnan
- 3 Sheeja George
- 4 Nighila V. Palu

2.3 (b)	Ph D – Thesis submitted				
SI No.	Title	Name of co-guides (if any)	Name of student	University	Year
1.					

2.4	Awards / Medals / Fellowships Academic Recognitions:	
Award	Particulars	

3	Assessment of Domain Knowledge				
3.1	Experience Additional Teaching / Industrial Experience after obtaining minimum eligibility criteria for the particular post (Only Full-time teaching assignments and/ Industrial Experience not below the rank of Lecturer in UGC/AICTE approved institutions/ Assistant Manager / Officer in a public / multi-national Company, after obtaining the minimum educational qualifications for this post)				
	SI No.	Institution	Post held	Period (from ... to..)	No. of years
University PG level	1.	St. Thomas College, Thrissur	Lecturer	22-09-1993 to 20-04-1999	5 years
	2.				

3.2	Additional Research Experience after Ph. D				
		Institution	Post Held	Period	No. of years
Post-Doctoral Research		CSIR Regional Research Laboratory, Trivandrum.	Research Associate	1992-93	1

3.3	Academic / Administrative Experience (give particulars):				
3.03 (a)	Administrative experience:				
SI No	Post Held		Period	No. of years	
1	Assistant warden, Sarovar Hostel		2001-2002	1	
2	Head of The Department		2003	6 months	

3			
4			

3.03 (b)	Academic experience (Member, Board of studies, Academic council / Faculty etc.)		
SI No	Positions held	Period	No. of years
1	Board of studies in Instrumentation, CUSAT	2010 to present	5
2			
3			
Member of Academic Council concurrent with position held as Chairman of Board of Studies.			
3.04	Participation in Training Programs/Workshop/Summer Winter-Schools, (organized by Govt. agencies/ UGC/AICTE, ICTP or similar International Organisations) :		
	Duration of Course	Short Title	Agency
	February 19-20, 2010	Workshop on digital image processing	Dept. of comuter applications, CUSAT
	May 04-05, 2006	Workshop on virtual Instrumentation	STIC and National Instruments, Bangalore
	August 05-25, 2007	UGC sponsored refresher course	UGC Academic Staff college, Pondicherry University
	November 22 to December 14, 2004	UGC sponsored refresher course	Dept. of Physics, CUSAT
	November 2-27, 1998	UGC sponsored refresher course	Dept. of Physics, CUSAT
	December 05-15, 1994	Short term course on optical shop practice	WRIC, Univ. of Bombay and USIC, CUSAT.

Declaration

I, Dr, Johney Isaac have read the notification and all other related instructions. All information and data furnished above are true to the best of my knowledge and belief.

Signature (in Hard Copy Only)

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Place: Cochin-22
Date:24-07-2015

Signature

Signature (in Hard Copy Only)

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