

JAMAL MOHAMED COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI.
DEPARTMENT OF PHYSICS

I. General Information

1. Name : A. Ishaq Ahamed.
2. Sex : Male
3. Designation : Associate Professor
4. Date of Birth : 20 – 09 – 1970
5. Address
Residential : 48 B, Tower Mosque street,
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6. Academic Qualification :

	Examination Passed	Year
i) Master's Degree	M.Sc	1993
ii) Research Degree	PhD	2016
iii) Any other degree/ Diploma / Certificate	Unix,C,C++ and OOP	2001
iv) GATE	Passed	1993
v) NET / SELT	Qualified JRF/NET of UGC	1994

7. Area of Specialisation : Nonlinear Dynamics (Deterministic Chaos-Memristive Dynamics)

II. Teaching Experience:

	Years	Months
i) UG :	20	01
ii) PG :	20	01

III. Seminars / Conferences / Workshop *

A. Seminars / Conferences / Workshops – Attended / Participated	Up to Academic year 2008-2009	In the Academic year 2009-2016
(i). At the state level	5	4
(ii). At the National Level	1	4
(iii). At the International Level	1	---

B. Seminars / Conferences / Workshops / Participated & Presented papers	Up to Academic year 2008-2009	In the Academic year 2009-2016
(i). At the state level	3	---
(ii). At the National Level	2	2
(iii). At the International Level	1	---

C. Seminars / Conferences / Workshops – Acted as Resource person	Up to Academic year 2008-2009	In the Academic year 2009-2016
(i). At the state level	---	1
(ii). At the National Level	---	---
(iii). At the International Level	---	---

D. Seminars / Conferences / Workshops – Organised	Up to Academic year 2008-2009	In the Academic year 2009-2016
(i). At the state level	3	2
(ii). At the National Level	---	---
(iii). At the International Level	---	---

* For details refer Annexure

IV. Publication *

Number of Publications	Up to Academic year 2008 – 09		In the Academic year 2009-2016	
	Published	Accepted for Publication	Published	Accepted for Publication
(i). Books	---	---	1	---
(ii). Contribution to edited volumes of Books	---	---	---	---
(iii). Journals (National level)	2	---	---	---
(iv). Journals (International level)	1	---	2	

* For details refer Annexure

V. Citation Index: (furnish the details)

- Citations : 43
- h index : 3
- i 10 index : 2

*Reference Google Scholar

VI. Awards received if any (furnish the details)

- Was awarded a Faculty Development Programme Teacher Fellowship by the UGC vide no: SERO [F.ETFTN BD011/FIP XI -Plan dated Dec' 2008] for the period June 2009-May 2010.
- Certificate of Appreciation by the Internal Quality Assurance Cell, Jamal Mohamed College(Autonomous), Tiruchirappalli, for having acted as a resource person in the Faculty Development Programme held on 4th January, 2013.
- Certificate of Appreciation by the Internal Quality Assurance Cell, Jamal Mohamed College(Autonomous), Tiruchirappalli, for having published a book on “Soft-Skills” during the year 2012- 2013.

VII. Membership in Academic body:

(Board of studies in –Universities and Autonomous Colleges)

- Served as Member, Board of Examination in Physics, Madurai Kamaraj University.
- Served as Member, Board of Examinations in Physics, Nehru Memorial College, Puthunampatti.

VIII. Participation in Extracurricular Activities (NSS, NCC, Sports, Games, Voluntary association and cultural activities)

Currently serving as the Executive Member of the Staff Association.

IX. Administrative position held in the College.

Officiated as Head-in-Charge of the Department on many occasions

X. Member ship in autonomous programme.

- Served as Member, Academic Audit Committee
- Served as Member, Leadership & Governing Council.
- Presently serving as Member, Board of Studies in Physics.
- Presently serving as Member, Library Committee.

Annexure

A. *Seminars / Conferences / Workshops Attended*

At the International Level

- ✓ “*International Conference on Nonlinear Dynamics: Integrability and Chaos*” Organized by the Centre for Nonlinear Dynamics, Bharathidasan University Tiruchirappalli – 620 020 in 1998.

At the National Level

- ✓ “*Workshop on High Performance Computing*” organized jointly by the Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli and the Centre for Advanced Computing, Pune from 3-7 August, 2007.

- ✓ “ *Workshop on High Performance Computing*” organized jointly by the Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli and the Centre for Advanced Computing, Pune from 23-27 August,2010.
- ✓ “ *Workshop on Computational Methods for Nonlinear Dynamics* ” organised by the School of Physics, Bharathidasan University, Tiruchirappalli and Centre for Modeling, Simulation and Design, University of Hyderabad, Hyderabad from 22-25, September, 2010.
- ✓ “*DST –SERC School on Nonlinear Dynamics-(Specialisation Integrable Systems)*” organized jointly by the Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli during January 04-26, 2011.
- ✓ “*Seminar on Nano Science and Laser Materials Processing NLMP-2013*” organized by the Department of Physics, Jamal Mohamed College(Autonomous), Tiruchirappalli under the UGC Autonomous Grant on 9th March, 2013.

At the State Level

- ✓ “*Course on Internet and Its Applications*” organized by Regional Engineering College, Tiruchirappalli (now NIT, Tiruchirappalli) from 15th to 16th May, 1999.
- ✓ “*Workshop on Microprocessors and Microcontrollers*” sponsored by the UGC and organized by the Department of Computer Science, Urumu Dhanalakshmi College, Tiruchirappalli, from 15th May to 5th June 2000.
- ✓ “*Workshop on LATEX*” conducted by the Department of Physics, St. Joseph’s College (Autonomous) Tiruchirappalli on 27th January, 2003.
- ✓ “*Workshop on Nonlinear Dynamics and its Applications*” sponsored by the Indian Academy of Sciences, Bangalore and organized by the Department of Physics, A. Veeriyar Vandayar Memorial Shri Pushpam College (Autonomous) , Poondi, Thanjavur during 9-11 October,2003.
- ✓ “*Workshop on Quantum Physics Through MATLAB*” jointly organized by the Indian Association of Physics Teachers (IAPT) and the Department of Physics, Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous), Coimbatore from 19th to 21st December 2005.
- ✓ VI Academic Conference on “Crises in Higher Education-An Indian Perspective” organized by the Aided College Teachers Association (ACTA) at Jamal Mohamed College(Autonomous), Tiruchirappalli, on 6th April, 2013.

- ✓ “*Workshop on Amateur Radio*” organized by the Department of Physics, Jamal Mohamed College(Autonomous), Tiruchirappalli in association with the Amateur Radio Association of Tiruchirappalli on 28th February, 2014.
- ✓ “*Workshop on LATEX and SPSS*” organized by the Department of Mathematics, Jamal Mohamed College(Autonomous), Tiruchirappalli, from 26th September to 1st October, 2014.
- ✓ “*Workshop on Amateur Radio*” organized by the Department of Physics, Jamal Mohamed College(Autonomous), Tiruchirappalli in association with the Amateur Radio Association of Tiruchirappalli, from 13th to 15th March 2015.

B. *Seminars / Conferences / Workshops Participated and Presented Papers*

At the State Level

- ✓ Presented a paper titled “ Synchronisation of Chaotic Attractors of Nonautonomous Circuits” at the State Level UGC sponsored seminar on “Current Advances in Physics” organized by the Department of Physics, St. John’s College, Palayamkottai in 2006.

At the National Level

- ✓ Participated in “*Second National Conference on Nonlinear System and Dynamics - NCNSD 2005* ” conducted by Aligarh Muslim University, Aligarh from 24th to 26th February, 2005 and presented a paper on “Dynamic of a simple Chaotic Circuit”.
- ✓ Presented a paper titled “ Effect of Square wave Excitations on a Simple Chaotic Circuit ” in the “ *Third National Conference on Nonlinear System and Dynamics- NCNSD 2006* ” conducted by Ramanujam Institute of Advanced Study in Mathematics, University of Madras, Chennai in 2006.
- ✓ Presented a paper titled “ Inductorless Canonical Chua's circuit” at the National Seminar on Spintronics and Electronics held at the School of Physics, Bharathidasan University, Tiruchirappalli – 620 020 during 18-19, March, 2009.
- ✓ Presented a paper titled “ Current controlled non-linearity based forced LCR circuit: Experimental Investigations and Pspice simulations” at the “*Sixth National Conference on Nonlinear System and Dynamics- NCNSD 2011*” organized by School of Physics, Bharathidasan University, Tiruchirappalli- 620024, January 26-30, 2011.

At the International Level

- ✓ Participated in STAYPHYS (International) conference on “*Perspectives in Non linear Dynamics*” held at IIT Chennai / I M.Sc., Chennai during 12th to 15th July, 2004 and Presented a paper on “Heagy – Hammel Route to Strange Non chaotic Attractors – An Experimental Study”.
- ✓ Presented a paper titled “Intermittent lag synchronization in a two coupled MLC” , Proceedings of International Conference on Recent Developments in Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirappalli-24, 13-16, February 2008.
- ✓ Presented a paper titled “Secure Communication using autonomous canonical Chua’s”, Proceedings of International Conference on Recent Developments in Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirappalli-24, 13-16, February 2008.

C. *Seminars / Conferences / Workshops – Organized*

At the State Level (as organizing secretary)

- ✓ State Level Seminar on “*Applications of Ultrasonic to Organic and Biomolecular Compounds*” held at Department of Physics, Jamal Mohamed College, Trichy-20 during September 26th to 27th ,2005.
- ✓ State Level Seminar on “*Recent Trends in Thin Film Techniques*” held at Department of Physics, Jamal Mohamed College, Trichy-20 during 28th September, 2005.
- ✓ State Level Seminar on “*Advances in Electronics*” held at Department of Physics, Jamal Mohamed College, Trichy-20 during 20th March , 2006
- ✓ One day seminar on “Online Access to Research Journals and Books” on 12th January, 2012.
- ✓ UGC sponsored State level seminar on “Advanced Research in Physics – a Few Perspectives” (ARPP) on 28th February 2012.

Publications in Journals

- ✓ Published a paper titled “*Strong chaos in a Forced Series LCR Circuit with Negative Conductance*” in the International Journal of Bifurcation and Chaos, Vol 15, No 2 (2005) 637-651.

- ✓ Published a paper titled “ Observations of Chaotic Beats in a Memristive Chua's Circuit” in the International Journal of Bifurcation and Chaos, Vol 21, No 3 (2011) 737-757.
- ✓ Published a paper titled “Non Smooth Bifurcations, Transient Hyperchaos and Hyperchaotic Beats in a Murali-Lakshmanan-Chua Circuit” in the International Journal of Bifurcation and Chaos 23 (06), 1350098 (30 pages).

Publications in the Proceedings of Seminars / Conference

- ✓ “Dynamic of a simple Chaotic Circuit” a paper presented in the in “*Second National Conference on Nonlinear System and Dynamics - NCNSD 2005* ” conducted by Aligarh Muslim University, Aligarh from 24th to 26th February, 2005
- ✓ “Effect of Square wave Excitations on a Simple Chaotic Circuit ” a paper presented in the “ *Third National Conference on Nonlinear System and Dynamics- NCNSD 2006* ” conducted by Ramanujam Institute of Advanced Study in Mathematics, University of Madras, Chennai in 2006.
- ✓ “Intermittent lag synchronization in a two coupled MLC” , a paper published in the Proceedings of International Conference on Recent Developments in Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirappalli-24,13-16, February 2008.