



# Dr. Jafar Sadiq E

Assistant Professor (on hourly basis),  
Department of Physics,  
University of Calicut,  
Thenhipalam, Kerala, India

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## Work Experience

- Aug 2023 - Present **Assistant Professor**,  
*University of Calicut, Thenhipalam, Kerala, India.*  
**Courses taught:** Quantum Mechanics, Computational Techniques
- June 2022-Aug 2023 **Lecturer**,  
*Panampilly Memorial Govt. College, Chalakkudy, Kerala, India.*  
**Courses taught:** Quantum Mechanics, Electrodynamics, Introduction to Python, Mechanics.
- Oct 2021-Apr 2022 **Lecturer**,  
*Islamic University of Science and Technology, Awantipora, J&K, India.*
- Jan 2018-Sep 2021 **Assistant Professor**,  
*Islamic University of Science and Technology, Awantipora, J&K, India.*  
**Courses taught:**
  - **PG Level:** Quantum Field Theory, Atomic, Molecular and Laser Physics, Nuclear Physics.
  - **UG Level:** Electromagnetic waves, Physics (B.Tech.), Applied Physics.
  - **Open Courses:** Physics and our world, History of Physics, Physics and Technology.**MSc Projects guided:**
  - MSW Effect in solar neutrino flux.
  - Scintillation detectors.
- Jan 2017-Dec 2017 **Post Doctoral Fellow**,  
*Indian Institute of Technology Madras, Chennai, India.*  
Project: R&D efforts by university groups for INO projects.
- Jan 2013-May 2016 **Teaching Assistant**,  
*Indian Institute of Technology Madras, Chennai, India.*  
Engineering Physics Laboratory, M.Sc. Physics Laboratory

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## Education

- Jan 2012-May 2017 **PhD in Physics**  
Indian Institute of Technology Madras, Chennai, India.  
Research area: Experimental high energy physics.  
Coursework CGPA 9.31.
- Jun 2007-Jul 2009 **MSc in Physics**  
University of Calicut, Kerala, India.  
Spec: Nuclear and Particle Physics.  
First Class (73.79%).
- Jun 2004-Mar 2007 **BSc in Physics**  
University of Calicut, Kerala, India.  
First Class (94.00%) & First rank in College.
- Jun 2001-Mar 2003 **Higher Secondary in Science**  
Board of higher secondary examination, Kerala, India.  
First Class (74.33%).
- Mar 2001 **Secondary**  
Board of Public Examination, Kerala, India.  
First Class (81.33%).

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## Research Details

- Research area** Experimental high energy physics
- Thesis title** Characterization of Resistive Plate Chambers and study of hadron energy reconstruction for the INO-ICAL detector.
- Institution** Indian Institute of Technology Madras, Chennai, India
- Supervisor** Prof. Prafulla Kumar Behera

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## Publications

- 1 Effect of variations in the gas mixture compositions on the timing and charge of glass RPC  
A. K. Sikdar, **J. Sadiq**, and P. K. Behera,  
*Journal of Instrumentation*, **15**, C01003 (2020).
- 2 Noise rejection from the hadron showers in the INO-ICAL detector  
**J. Sadiq** and P. K. Behera,  
*Springer Proceedings in Physics*, **203**, 633-637 (2018).
- 3 Invited Review: Physics potential of the ICAL detector at the India-based Neutrino Observatory (INO)  
A. Kumar et al. (INO Collaboration),  
*Pramana*, **88**, 79 (2017).
- 4 Effect of glass thickness variations on the performance of RPC detectors  
**J. Sadiq**, K. Raveendrababu, and P. K. Behera,  
*Journal of Instrumentation*, **11**, C10003 (2016).
- 5 Study of glass properties as electrode for RPC  
K. Raveendrababu, P.K. Behera, B. Satyanarayana, and **J. Sadiq**,  
*Journal of Instrumentation*, **11**, C07007 (2016).

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## Academic Achievements

- 2022 **Faculty Development Programme (FDP)**, Awarded by NPTEL-AICTE for successfully completing the course **Programming, Data Structures and Algorithms using Python**.
- 2011 **Junior Research Fellowship (JRF)**, Awarded jointly by UGC and CSIR under UGC-Fellowship Scheme.
- 2011 **National Eligibility Test (Lectureship)**, Awarded jointly by UGC and CSIR.
- 2011 **First rank in all India PhD entrance examination**, conducted by Pondicherry University in June 2011.
- 2010 **Graduate Aptitude Test in Engineering (GATE)**, Awarded by IITs

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## Seminars/Workshops Attended

- 1 I was organizing member of **INSPIRE:Cath them Young** at Dept. of Physics, IUST, Awantipora, J&K during March 23-24 (2022).
- 2 Participated in the **CONIAPS XXVII: International Conference on Frontiers in Physics** at IUST, Awantipora, J&K during October (2021)
- 3 Participated in the **Summer school on Quantum Mechanics** at IUST, Awantipora, J&K during July 29-August 2 (2019).
- 4 Participated in the **Summer Training Program on Advanced Pedagogy & Digital Tools** at IIT Kanpur during May 13-17, (2019).
- 5 Participated in the **One week Faculty Developmental Program on Emerging Trends in Physical, Chemical and Mathematical Sciences** at IUST, Awantipora, J&K during February 14-20, (2019).
- 6 Participated in the **Workshop on Nanoscience - Opportunities and Challenges** at IUST, Awantipora, J&K during September 4-5 (2018).
- 7 Participated in the **Faculty Induction Program** at IIT Kanpur during January 29-February 2 (2018).
- 8 Presented a talk on *“Removal of noise hits from hadron shower at INO-ICAL detector”* in the **XXII DAE-BRNS High Energy Physics Symposium 2016** at Delhi University, during December 12-16 (2016).
- 9 Presented a poster titled *“Characterisation and performance study of glass RPC detectors”* in the **XIII Workshop on Resistive Plate Chambers and Related Detectors (RPC2016)** at Ghent University, Belgium during February 22-26 (2016).
- 10 Participated in the **IX<sup>th</sup> SERC School on Experimental High Energy Physics** at IIT Madras during December 2-21 (2013).
- 11 Participated in the **Workshop on development of INO simulation and reconstruction code** at TIFR Mumbai during May 5-31 (2013).

- 12 Participated in the **SERC School on preparatory level theoretical High Energy Physics** at North Bengal University, Darjeeling, West Bengal during September 12-October 9 (2012).

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## Skills

<b>Programming</b>	C, C++, Python
<b>Softwares</b>	Mathematica, ROOT, GARFIELD, ANSYS, BenchVue
<b>Documentation</b>	LaTeX, MS Office
<b>Simulation skills</b>	Numerical analysis with C/C++; Data analysis and plotting using ROOT; GEANT4-based detector simulation; Modelling of detectors using ANSYS; Detector simulation using GARFIELD.
<b>Experimental skills</b>	Fabrication and testing of Resistive Plate Chambers; Singnal monitoring with Data Acquisition system (DAQ); Configuration of VME/NIM systems; Signal data collection using advanced oscilloscopes and BenchVue software; Soldering and designing of electronic circuits.

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## Personal details

<b>Nationality</b>	Indian
<b>Passport No.</b>	M1060567
<b>Date of Birth</b>	16 <sup>th</sup> March 1986
<b>Sex</b>	Male
<b>Marital Status</b>	Married
<b>Mother tongue</b>	Malayalam
<b>Languages</b>	English, Arabic, Hindi and Malayalam
<b>Address</b>	Edathodi house, Vengad, Malappuram, Kerala, India - 679 338.

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## Declaration

I sincerely affirm that all the facts mentioned above are true to the best of my knowledge and belief.



Jafar Sadiq E.