

**Minu K.M**

**Designation : Assistant Professor**

**Department : Physics**

**Email : minukm89@gmail.com**

**Educational Qualifications**

**M.Sc, NET, GATE**

**Experience**

**12 years**

**Area of Interest**

**Astrophysics**

**Subjects Handled**

**Quantum Mechanics, Relativistic Mechanics and Astrophysics, Nuclear and Particle Physics, Mechanics and Properties of Matter**

**Field of Research**

**Astrophysics**

**Orientation Course Attended**

**Orientation Programme conducted by UGC- HRDC, Calicut from 07/06/17 to 04/07/17.**

**Refresher Course Attended**

**Online Refresher Course on “Astronomy and Astrophysics” Organized by Teaching Learning Centre of IUCAA, Pune from 11/05/20 to 12/06/20, sponsored by PMMMNMTT scheme of MHRD, Govt. of India.**

**Online Course/FDP/STP Attended**

- 1. Eight week NPTEL online course on “ Research Methodology”, organized by IIT, Madras during July-September 2017.**
- 2. Twelve week FDP - NPTEL online course on “ Regression Analysis”, organized by IIT, Madras during July-October 2018.**
- 3. FDP programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" from 20/04/20 to 06/05/20 organized by Teaching Learning Centre of Ramanujan College, sponsored by PMMMNMTT scheme of MHRD, Govt. of India.**
- 4. FDP programme on “ Python Programming” conducted through Spoken tutorial, IIT Bombay from 18/05/20 to 22/05/20 organized by the Department of Information Technology, Sana College of Technology, Salem.**

5. FDP programme on “The Use of Virtual Physics Labs -Creating Next Generation Teachers” from 20-24, May 2020 organized by Geethanjali College of Engineering and Technology in association with Indian Society for Technical Education (ISTE).
6. FDP programme on “Scilab” in Association With IIT-Bombay (Remote Learning Through Spoken Tutorial), from 15th - 19th , June 2020, organized by the Department of Science & Humanities of ST. Peter’s Engineering college, Hyderabad.
7. FDP programme on "Open Source Tools for Research" from 08/06/20 to 14/06/20 organized by Teaching Learning Centre of Ramanujan College, sponsored by PMMMNMTT scheme of MHRD, Govt. of India.
8. FDP programme on “Scientific Writing Using Latex” under the banner of Kanyaabi- An initiative in Career Development, organized by Department of Computer Sciences, BGSB University, Rajouri, from 05/10/20 to 09/10/20.
9. One Week STTP on Data Analysis in MS Excel (online mode) from 29 June 2020 to 04 July, 2020 organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India.
10. Five day online training programme on “ Reference Management using the free software Zotero” from 22/05/20 to 31/05/20 organized by LMS monitoring committee, Sree Neelakanta Govt. Sanskrit, college, Pattambi.
11. Online non-credit course on “Programming for Everybody (Getting Started with Python)”organized by University of Michigan and offered through Coursera in September 2020.
12. FDP programme on “Multimedia Tools for Teaching and Learning” , organized by Sree Narayana College, Nattika, Kerala from 22/07/2021 to 28/07/202, sponsored by PMMMNMTT scheme of Ministry of Education.
13. FDP programme on “Academic Writing for Research”, organized by Teaching Learning Centre of Ramanujan College from 15/05/2023 to 21/05/2023, sponsored by PMMMNMTT scheme of Ministry of Education.
14. NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTC, Kannur University from 21.04.2025 to 30.04.2025.
15. STP on “Teaching a First Course in Astronomy and Astrophysics” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 12/05/2025 - 28/05/2025, organized by IUCAA, Pune.

#### Programmes Organized

1. Coordinator of “TELESCOPE 2K18”, a seminar on “Super Blue Blood Moon”, a Knowledge Exchange Programme organised by Department of Physics, S N College Nattika on 31th January 2018.
2. Coordinator of “FIZIKA 2K18 - Recent Trends in Physics”, a Knowledge Exchange Programme organised by the Department of Physics, S N College Nattika on 5th November 2018.
3. Coordinator of “IGNIS 2020”, an online quiz in honour of Erwin Schrodinger on his Birthday, organised by the Department of Physics, Sree Narayana College, Nattika on 12th August 2020.
4. Coordinator of “URJAKIRAN 2021-2022” - Rally and Signature Campaign organized by the Department of Physics of Sree Narayana College Nattika in collaboration with EMC, Kerala BEE and CED on 08th December 2021.
5. Coordinator of “Capturing Cosmos: Astrophotography Competition”, organised by the Department of Physics, Sree Narayana College, Nattika during December 2023.

6. Coordinator of "National Space Day 2024 Poster-Making Competition" organised by the Department of Physics, Sree Narayana College, Nattika during August 2024.

#### Seminars/Conferences/ Symposium Attended

1. UGC - SAP sponsored a two day National seminar on "*Interactions of Radiation with Matter*" at the Department of Physics, University of Calicut in June 2010.
2. Two day National seminar on "*Astrophysics and Astrophotography*" at TMG Government College, Tirur in November 2014, sponsored by The Department of Collegiate Education, Kerala.
3. Two day National seminar on "*Theoretical Physics*" at Department of Physics of University of Calicut in March 2017.
4. One day seminar on "*Intellectual Property Rights and Academic Writing*" organized by the Department of Physics, St. Xavier's College for Women, Aluva in February 2019.
5. One day International seminar on "*Artificial Intelligence and Workshop on Deep Learning*" organized by the Department of Physics, St. Xavier's College for Women, Aluva in January 2020.
6. Presented a paper entitled "*UV Studies of Optically Thin Regions*" in the "*International Conference on Advances and Applications in Physical Sciences (ICAAP) 2022*", organized by NSS Hindu College, Changanassery during 7-11 March 2022.
7. Presented a paper entitled "*Probing Diffuse UV Emission in the Hubble Deep Field Using GALEX*" in the "*Annual Physics Symposium on Space Physics & Astrophysics (APS 2023-2024)* ", organized by the Department of Physics & Centre for Research, St. Teresa's College (Autonomous), Ernakulam during 14-15 December 2024.
8. "*42nd ASI conference*", hosted jointly by IISc, ISRO and JNP at Bengaluru during 31st January to 4th February 2024.

#### Workshops Attended

1. UGC sponsored a two day Workshop on "*Advances in Nanomaterials*" at the Department of Nanoscience and Technology, University of Calicut in August 2009.
2. "*5th Winter School on AstroParticle Physics*" at Cosmic Ray Laboratory (CRL), Ooty in December 2010.
3. IUCAA sponsored a three day workshop on "*Introduction to General Relativity and Data Analysis Techniques in Astronomy*" at Providence College, Calicut in September 2010.
4. IUCAA sponsored a National workshop on "*Science with Virtual Observatory*" at Newman College, Thodupuzha in October 2011.
5. Two day workshop on "*Complex Analysis*" at Christ College, Irinjalakuda, organised by Academy of Physics Teachers, Kerala(APT) in November 2014.
6. Two day workshop on "*Tensor Analysis*" at UC College, Aluva, organised by APT in February 2015.
7. Three day workshop on "*Differential Equations*" at Farook College, Calicut, organised by APT in April 2015
8. Two day workshop on "*Lagrangian Dynamics*" at Vimala College, Thrissur, organised by APT in June 2015
9. Two day Astronomical Data Analysis workshop on "*Virtual Observatory*" at SH College, Chalakudy, organised by APT in collaboration with IUCAA, Pune in July 2016.
10. Two day National workshop on "*Relativistic Electrodynamics*" at Christ College, Irinjalakuda, organised by APT in January 2017.
11. Two day National workshop on "*Radiations*" at ST. Xavier's College for Women, Aluva, organised by APT in February 2017.

12. Two day National workshop on *"Conceptual and Mathematical structure of Quantum Mechanics"* at Vimala College, Thrissur, organised by APT in July 2017.
13. Two day National workshop on *"Optical and UV Astronomical Data Analysis"* organised by APT in collaboration with IIA, Bangalore in at SH College, Chalakudy in January 2018.
14. Two day National workshop on *"Time Dependent Perturbation Theory"* at UC College, Aluva, organised by APT in April 2018.
15. Two day National workshop on *"Quantum Theory of Scattering"* at Christ College, Irinjalakuda, organised by APT in June 2018.
16. Two day National workshop on *"Introduction to Solar Astrophysics"* at ST. Xavier's College for Women, Aluva, organised by IUCAA & APT in March 2019.
17. Three day workshop *"WStar- Workshop on Star Formation"* at School of Pure and Applied Physics, MG University, Kottayam, organised by KSCSTE & Ramanujan Institute for Basic Sciences in January 2020.
18. One week international workshop on *"How to Write Quality Research Article"*, jointly organized by Christ University, Bangalore, Sri Vidya Mandir Arts and Science College, Uthangari, and Jyothi Engineering College, Thrissur from 2021 May 24 to 30.
19. Workshop on CU-FYUGP BSc. Physics Honours Practical Experiments organized by Sacred Heart College(Autonomous), Chalakudy in association with Academy of Physics Teachers, Kerala & UG Physics Board of Studies, University of Calicut on 28th September 2024.

#### Academic Responsibilities Undertaken

Associated as Resource Person with "Talent Hunt - Sastrajalakam 2018" held at Sree Narayana College Nattika organised by SIET Kerala.

Academy of Physics Teachers, Kerala APT Talent search Examination Centre Coordinator (2020, 2021, 2022).

#### Membership in Professional Bodies

Life member of Academy of Physics Teachers, Kerala, APT.

#### Duties Performed at College

Coordinator:

Attendance Committee

Member:

1. Tutorial Committee
2. Computer Centre Committee
3. Bhoomitra Sena Club
4. Seek-Skill & Employability Enhancement Kendra
5. Science Club
6. Anti- Narcotic Cell
7. Scholarship Committee
8. Fine Arts/ Music Club