

## **CURRICULUM VITAE**

**PREETHA K C.**

*Assistant Professor*

*Department of Physics*

*Sree Narayana College*

*Nattika, Kerala, India*

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### **Personal details**

<b>Date of birth</b>	:	25-02-1984
<b>Nationality</b>	:	Indian
<b>Marital Status</b>	:	Married
<b>Languages known</b>	:	English, Malayalam, Hindi
<b>Permanent address</b>	:	Thekkoottu House Chentrappinni P O, Thrissur Dist. Kerala, 680687

### **Academic degrees**

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**M.Sc. Physics** from Calicut University, *Thenjipalam, Kerala, India, 2008*

**B.Ed in Physical Science** from Calicut University, *Thenjipalam, Kerala, India, 2006*

**B.Sc. Physics** from Calicut University, *Thenjipalam, Kerala, India, 2004*

### **Details of merit certificates and scholarship received**

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- Passed the **National Eligibility Test (CSIR-NET)** in physics.
- Ph.D. registered under the guidance of Dr. Bini S, Assistant Professor, Department of Physics, Sree KeralaVarma College, Thrissur.

## Teaching and Research Experience

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1. Guest Faculty in Physics at M.E.S. Asmabi College, P.vemballur from July 2010 to February 2011
2. Guest Faculty in Physics at Sree Narayana College, Nattika from September 2013 to 10 September 2015.
3. FDP Guest Faculty in Physics at Sree Narayana College, Nattika from 11 September 2015 to 22 January 2016.
4. Assistant professor at Department of Physics Sree Narayana college Nattika, Thrissur, Kerala from 25 Jan 2016 onwards

## List of Orientation and Refresher programmes attended

1. Online refresher course about "Joy of Computing Python" in the platform NPTEL ( A project funded by MHRD, Govt. of India)
2. One week national Faculty Development Programme in 'Research ethics and Characterisation techniques in Material science from 09/09/2020 to 15/09/2020 organized by Guru Anand Dev Teaching Learning Centre, S.G.T.B khala college, University of Delhi under the Pandit Madan Mohan Malaviya National mission on teachers and teaching (PMMMNT) of MHRD and Bishop Moore College, Mavelikkara, University of Kerala & St.Jhon's College, Agra.
3. One week online FDP on 'Python Programming from 18/05/2020 to 22/05/2020 organized by department of Information Technology, Sona college of Technology, Salem in association with Spoken Tutorial, IIT Bombay & MHRD Govt. of India.
4. Online Refresher course in Material science from 15/10/2020 to 28/10/2020 at UGC-HRDC Kerala.
5. Orientation Programme (106) from 06/11/2019 to 26/11/2019 at UGC-HRDC Calicut.

## Paper publications

1. Published a paper , "Structural, Morphological, Compositional, Electrical and Optical characterizations of CuZnS Thin films Prepared using Chemical Bath Deposition Method" in Journal of Condensed matter on May 2025.
2. Presented a paper , "Electrical and Optical Characterization of CuZnS thin film prepared by chemical bath deposition method" in International conference on Advanced materials for sustainability organized by School of Physics science, University of Calicut from 21-23 December 2023

3. Presented a paper , “Preparation of CuZnS thin films by Chemical Bath Deposition method and its Characterizations” in International conference on Recent Trends in Material Science and Devices 2023 organized by the Research Plateau Publishers in Association with Sat Kabir Institute of Technology & Management, Bahadurgarh, Haryana, India, and held in online mode from 29-31 December 2023
4. Presented a paper , ,”Structural, Morphological, Compositional, Electrical and Optical characterizations of CuZnS Thin films Prepared using Chemical Bath Deposition Method” in second International conference on Recent trends in Applied Physics & Material science from 15-16 December 2024

### **Extension Activities**

1. Associated as Resource person in “Thrissur District level Bala Sasthra Padanolsavam” conducted by Kerala Sasthra Sahithya Parishath held at Sree Narayana College, Nattika on 20 and 21 January 2018.
2. Associated with “Talent Hunt- Shastrajaalakam” as Programme Co-ordinator held on 18/11/2018 to 20/11/2018 at Sree Narayana College, Nattika organized by SIET Kerala.
3. Associated with “National science day celebrations 2025” as Programme member held on 21 February 2025 at Sree Narayana College, Nattika organized by KSCSTE and Dept. of Physics, Sree Narayana College, Nattika
4. Associated with “National science day celebrations 2025” as Programme member held on 21 February 2025 at Sree Narayana College, Nattika organized by KSCSTE and Dept. of Physics, Sree Narayana College, Nattika

### **Seminars/workshops organized**

1. Co-ordinator of ‘UGC CSIR NET model examination 2017’ on 7<sup>th</sup> June 2017 organised by All Kerala Physics Teachers Association at Sree Narayana College, Nattika
2. Member of Poster Competition on “Women in Science and Technology” organised by Department of Physics, S N College Nattika on 2<sup>nd</sup> March 2018.
3. Member of “Open House and Hands on Training Programme - SPARK 2018 ” organised by Department of Physics, S N College Nattika on 25<sup>th</sup> January 2018.
4. Member of “TELESCOPE 2K18”, a seminar on “Super Blue Blood Moon”, a Knowledge Exchange Program organised by Department of Physics, S N College Nattika on 31<sup>th</sup> January 2018
5. Member of seminar competition on “Nobel Laureates in Physics 2017 - LIGO Founders”, a Knowledge Exchange Program organised by Department of Physics, S N College Nattika on 10<sup>th</sup> November 2017
6. Associated as organising committee member of “Recent trends in Physics”, a Knowledge Exchange Program organised by Department of Physics, S N College Nattika on 5<sup>th</sup> November 2018.

7. Associated as organising committee member of “Industria-2019”, an orientation programme on Energy Conservation organised by Department of Physics, S N College Nattika on 24<sup>th</sup> January 2019.

8. Associated as organising committee Co-ordinator of three day state level science enrichment programme “SASTHRA JAALAKAM” organized by SIET with the financial support of State Education Department from 18<sup>th</sup> November 2018 to 20<sup>th</sup> November 2018.

9. Associated as organising committee member of “Glimpses of Physics”, a poster competition programme as a part of National Science Day 2018, organised by Department of Physics, S N College Nattika on 28<sup>th</sup> February 2019.

10. Associated as organising committee member of World Ozone Day Celebrations-2019 organised by Department of Chemistry and Physics, S N College Nattika and sponsored by Kerala State Council for Science, Technology and Environment on 24<sup>th</sup> September 2019.

11. Coordinator of workshop on “Arduino based Robotics” organised by Department of Physics, S N College Nattika from 13-16 January 2024

12. Member of a day-long skywatch event aimed at engaging science enthusiasts in observing sunspots “Skywatch for science enthusiasts” organised by Department of Physics, S N College Nattika on February 8, 2024.

14. Member of live streaming programme on “National space day” organized by Department of Physics, Sree Narayana College, Nattika on 23 August 2024.

15. Member of poster making competition to all school students on “Touching Lives while touching the Moon: India’s Space saga” organized by Department of Physics, Sree Narayana College, Nattika on space week August 2024.

16. Member of workshop on “Telescope making” organised by Department of Physics, S N College Nattika on 11 November 2024.

17. urjakiran 2021-22 rally and signature campaign organized by EMC, Kerala, BEE, CED in collaboration with dept. on 08-12-2021

18. webinar on energy conservation on 21-12-2021

#### **Seminars/conferences attended**

1. Participated Workshop “General Informatics” from 11 to 13 January 2011 at Sree Narayana College, Nattika

2. Participated International cultural exchange programme “ A journey of Love Caravan “organized by the Post Graduate Department of Malayalam, Sree Narayana College, Nattika on 6<sup>th</sup> March 2014

3. Participated one day seminar on “Design concepts of Electronics experiments organized by Department of Physics, Christ College, Irinjalakuda on 20<sup>th</sup> October 2017.

4. Participated in Seminar series “Parambara 2018 – Kerala after the DELUGE” organised by Research and Publication committee, S N Collge Nattika on 22-11-2018 to 5-12-2018
5. Participated in Three day state level science enrichment programme “Saasthrajalakam ”organised by SIET sponsored by State education department on 18-11-2018 to 20-11-2018
6. Participated in Seminar on “Nobel Laureates in physics 2017-Ligo Founders”, Department of Physics, S.N.College, Nattika on 10-11-2017
7. Participated in Seminar on “Telescope -2K18-Super Blue Blood Moon”, Department of Physics, S.N.College, Nattika on 31-01-2018
8. Participated in Seminar on “Revised Accreditation Process of NAAC” organised by IQAC S.N.College, Nattika on 26-06-2018
9. Participated in Orientation programme on Industria-2019-Energy Conservation, Department of Physics S.N.College, Nattika on 24-01-2019
10. Participated two day National Seminar on “Computational Physics: Simulating the Universe” organized by Department of Physics, Government College, Chittur,Palakkad on October 12 & 13, 2018
11. Participated UGC sponsored National Seminar on Human Rights: Concepts, Conflicts and Consensus,23 to 25 March 2015, Department of Political Science and Centre for Human Rights and Democracy, Sree Narayana College Nattika
12. Participated two day National Seminar on “Number theory, Discrete Mathematics and Their Applications” organized by Post Graduate Department of Mathematics, Sree Narayana College, Nattika association with Kerala mathematical association on 18-19 February 2016
13. Participated NAAC sponsored National Seminar on Futuristic Trends in Teaching-Learning Process: Prospects & Praxis on 13-14 June 2019, IQAC, Sree Narayana College, Nattika
14. Participated a state level webinar on ‘SAAC context and content’ organized by Sree Narayana College, Nattika in association with MPMMSNT College, shoranur, Sree Narayana Guru College of Advanced studies, Nattika and Sree Narayana College of Advanced studies Alathur on 25<sup>th</sup> July 2020
15. Participated a webinar on ‘X-Ray Diffraction : Good Analytical Practises’ organized by Department of Physics, Vimala College, Thrissur on 4<sup>th</sup> August 2020

### **Workshops Attended**

1. Participated in Two day Hands-on-workshop “Molecular biology techniques and Bioinformatics” organised by Dept. of Botany, S.N.College, Nattika on 17-01-2018 to 18-01-2018

2. Participated in two day National workshop on 'Formulation of Statistical Mechanics' organised by the Academy of Physics Teachers (APT), Kerala and hosted by Christ College Irinjalakkuda held on 22-23 June 2019

3. Participated in three day National workshop on 'Spectroscopic Techniques' organised by Srinivasa Ramanujan Institute for Basic Sciences, Pampady, Kottayam held from 10 to 12 June 2016

4. Participated in two day workshop on 'Lagrangian Dynamics' organised by the Academy of Physics Teachers (APT), Kerala and hosted by Vimala College Thrissur held on 27-28 June 2015

### **Academic Responsibilities Undertaken**

#### Academic year 2014-15

Member, Agricultural committee

Member, Internal examination committee

Tutor, I BSc Physics

#### Academic year 2015-16

Member, Internal examination committee

Member, SSP

Tutor, II BSc Physics

#### Academic year 2016-17

Co-ordinator, Entry into Services

Member, UGC/RUSA committee

Member, Internal examination committee

Member, SSP

Tutor, III BSc Physics

Academic year 2017-18

Co-ordinator, Entry into Services

Member, Fine Arts club

Member, UGC-RUSA committee

Tutor, I BSc Physics

Academic year 2018-19

Co-ordinator, Entry into services

Member, PG forum committee

Tutor, II BSc Physics

Academic year 2019-20

Co-ordinator, Entry into services

Member, PG forum committee

Co-ordinator, Internal examination committee

Member, WWS

Tutor III BSc Physics

Academic year 2020-2021

Co-ordinator, Internal examination committee

Member, PG forum committee

Academic year 2021-2022

Co-ordinator, Internal examination committee

Tutor I MSc Physics

Member, IQAC

Academic year 2022-2023

Co-ordinator, Internal examination committee

Tutor II MSc Physics

Member, IQAC

Academic year 2023-2024

Co-ordinator, Internal examination committee

Tutor I BSc Physics

Member, IQAC

Academic year 2024-2025

Co-ordinator, Internal examination committee

Tutor II BSc Physics

Member, IQAC

### **Duties Performed at College**

Accompanied 32 BSc Physics students, Sree Narayana College, Nattika for open house at research lab on 09/02/18 organised by Department of Physics, CUSAT for the academic year 2017-18

Accompanied 12 MSc Physics students, Sree Narayana College, Nattika for attending a seminar on “Design concepts of electronic experiments” organised by Department of Physics, Christ college, Irinjalakkuda on 20/10/17

Accompanied 30 BSc Physics students, Sree Narayana College, Nattika for visiting an Industry ‘The Radio Astronomy Centre, Ooty on 2<sup>nd</sup> November 2016 as part of their curriculum.

Accompanied 38 BSc Physics students, Sree Narayana College, Nattika for visiting India’s biggest Floating Solar Power Plant – Banasura Sagar Dam on December 2019 as part of their curriculum.

Accompanied 30 BSc Physics students, Sree Narayana College, Nattika for visiting Plastic carry bag manufacturer plant at uduppi on February 2025 as part of their curriculum.

### **Declaration**

I hereby declare that the above furnished details are true to the best of my knowledge.

Nattika

23-07-2025

Preetha K C