

Name: Bhavyasree P G

Designation: Assistant Professor and Head of the Department

Sl.No	Name	Bhavyasree P G
1	Designation	Assistant Professor (Academic Level 12)
2	Department	Physics
3	Contact No.	9048357440
4	Email	bhavyasreepg1986@gmail.com
5	Date of Entry into Service	03/01/2011
6	Educational Qualifications	M.Sc Physics, B.Ed, NET
7	Areas of Interest/ Specialisation	Nanomaterials
8	Courses/Subjects Taught	Quantum Mechanics, Electrodynamics, Classical Mechanics, Optics and Thermodynamics
9	Field of Research	Nanomaterials
10	Teaching Experience	12 years
11	Orientation courses attended	Orientation course , UGC Academic Staff College, University of Kerala, Kariavattom (from 21/06/2013 to 18/07/2013)
12	Refresher courses attended	1. Refresher course in Material Science, UGC Academic Staff College, University of Kerala, Kariavattom from 29/11/2016 to 19/12/2016 2. Managing Online Classes and Co- creating MOOCS:2.0., by Teaching Learning Centre, Ramanujan College, University of Delhi, MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching 3. Refresher course in Material science and Nanotechnology, sponsored by UGC-HRDC, NEHU, SHILLONG, MEGHALAYA from 24/9/2021 to 8/10/2021
13	Short term courses attended	Towards a Digital era of Teaching and Learning, sponsored by UGC-HRDC, University of

		Kerala, Thiruvananthapuram in collaboration with Kumbalathu Sankupillai Memorial Devaswom Board College, Sasthamcotta from 12/8/2020 to 18/8/2020
14	Academic Responsibilities Undertaken	Convenor of Discipline Committee (2018-2019) Nodal Officer of Scholarships (2017-2021) PTA Secretary (2022) Convenor of Career Guidance Cell (2017-2020) Head of the Department University Observer for Spot Admissions(2017,2018)

## List out Publications and Presentations

### Papers Published in International Journals

1. P. G. Bhavyasree, T. S. Xavier (2020). Green synthesis of Copper oxide/ Carbon nanocomposites using the leaf extract of *Adhatoda vasica* Nees, their characterization and antimicrobial activity. *Heliyon*, 6, e03323

<https://doi.org/10.1016/j.heliyon.2020.e03323>

2. P. G. Bhavyasree, T. S. Xavier (2020). Biological synthesis of Copper oxide- Carbon nanocomposites using the aqueous extract of *Vitex negundo* Linn. leaves, Characterization and antimicrobial activity. *AIP Conference Proceedings*, 2270/110005

<https://doi.org/10.1063/5.0019910>

3. P. G. Bhavyasree, T. S. Xavier (2021). Adsorption of Methylene blue, Congo red and Coomassie brilliant blue dyes onto CuO/C nanocomposites synthesized via *Vitex negundo* Linn. leaves extract. *Current Research in green and Sustainable Chemistry*, 4, 100161

<https://doi.org/10.1016/j.crgsc.2021.100161>

4. P. G. Bhavyasree, T. S. Xavier (2021). A critical green biosynthesis of novel CuO/C porous nanocomposites via the aqueous leaf extract of *Ficus religiosa* and their antimicrobial, antioxidant and adsorption properties. *Chemical Engineering Advances*, 8, 100152

Advances, 8, 100152

<https://doi.org/10.1016/j.ceja.2021.100152>

5. P. G. Bhavyasree, T. S. Xavier (2022). Green synthesis of Copper and copper oxide based nanomaterials using plant extracts and their application in antimicrobial activity: Review. *Current Research in Green and Sustainable Chemistry*, 5, 100249

<https://doi.org/10.1016/j.crgsc.2021.100249>

### **Presentations in International Conferences**

1. Green Synthesis of Copper Nanoparticles Using Adhatoda Vasica Tree Leaf Extract, Characterization and Their Antimicrobial Study, ICAN 2018, organised by Dept. of Physics, Catholocate College, Pathanamthitta, Kerala, 12-14, March 2018
2. Biological synthesis of Copper oxide-Carbon nanocomposites using the aqueous extract of Vitex egundo Linn leaves, characterization and antimicrobial activity, PCMNEA 20, organised by Kumaraguru College of Technology, Coimbatore, Tamilnadu, 6-7, February 2020
3. Adsorption of Congo red, methylene blue and Coomassie brilliant Blue dyes from water onto CuO/C nanocomposites synthesized via vitex negundo linn leaf extract, SMTBEA 2021, organised by S. S. N. College of Engineering, Kalavakkam, Chennai, Tamilnadu, 19-21 May 2021
4. Hydrothermal Synthesis of Copper oxide- Carbon Nano composites using the Leaf Extract of Ficus religiosa, their Characterization, Antimicrobial Activity and Evaluation of cytotoxicity iCEE 2k19, organised by TKM College of Arts and Science, Kollam, Kerala, 12-14 December 2019