

Staff Profile



Name : Dr.M.KIRUTHIKA

Position : Guest Lecturer

Department : Physics

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Phone : 9566979200

Office Location : Namakkal

Education

- Degree : Ph.D

- University : BHARATHIAR UNIVERSITY

- Year of Graduation: 2020

- Degree : M.Phil

- University : BHARATHIAR UNIVERSITY

- Year of Graduation: 2014

Degree : B.Ed

- University : TAMILNADU TEACHER EDUCATION UNIVERSITY

- Year of Graduation: 2012

- Degree : M.Sc

- University : BHARATHIAR UNIVERSITY

- Year of Graduation: 2011

- Degree : B.Sc

- University : BHARATHIAR UNIVERSITY

- Year of Graduation: 2009

Professional Experience

Duration	Position	Place
March.2022 to Dec 2022	Assistant Professor	Muthayammal Engineering College, Rasipuram, Namakkal
January 2023 to till now	Guest Lecturer	Namakkal Kavignar Ramalingam Govt. Arts College for Women, Namakkal

Research Interests

- Development of anodic glow discharge pulsed plasma and Diagnostics
- Plasma Surface modification of polymer and characterisations
- Biomaterials and Implants
- Surface engineering of polymers and cotton textiles
- Antimicrobial and Anti bio-fouling coatings
- Development of food packaging materials

Publications

1. Characteristics of anodic glow pulsed plasma **Physics Letters A**, 384 (2020), 126040
2. Physical and mechanical properties of surface modified polyethylene terephthalate films through low pressure plasma and ultra-violet light **Materials Research Express**, 6 (2019) 11535.

Book Publications

1. Engineering Physics Laboratory Manual (for B.E & B.Tech Students)

ISBN No: 978-93-578-296-7

International Conference

1. Participated and presented the poster presentation entitled in “**Improvement on hydrophilic properties of polycarbonate and its antibacterial activity**”
First International Conference on Advances in Plasma Science and Technology

(ICAPST- 2020), organized by Sri Sakthi Institute of Technology, Coimbatore (12-14 Feb, 2020).

National Conference

1. Participated in National Conference on Advanced Functional Materials (NCAFM- 2014) organized by Department of Physics, Bharathiar University, Coimbatore during 30th and 31st Jan 2014.

Awards and Honors

- Received University 1st Rank holder certificate in M.Sc., Level.
- **Junior Research Fellow** (2014- 2017) awarded by Department of Science and Technology, Government of India under INSPIRE fellowship scheme.
- **Senior Research Fellow** (2017- 2019) awarded by Department of Science and Technology, Government of India under INSPIRE fellowship scheme.

Courses Taught

Course	Course code	Title
BE	21BSS01	Engineering Physics
BE	21BSS03	Bio and Nanomaterial Sciences
B.Sc	23UPHCT01	Properties of Matter and Sound
	23UPHFC01	Introductory Physics
	23UPHCT02	Heat, Thermodynamics and Statistical Mechanics
	23UPHSE05	Computational methods and Programming in C
	21UPH07	Analog and Digital Electronics
	21UPHE02	Astrophysics
M.Sc	21PPH02	Mathematical Physics
	21PPH04	Theory of Semiconductor Devices
	21PPH09	Molecular Physics & Spectroscopy
	21PPH11	Condensed Matter Physics

Professional Memberships

- Life time membership in Plasma Science Society of India (PSSI)

Projects and Grants

Contact Information

- Office Hours:

- Office Phone:

- Email:

- Website: