

Assistant Professor of Education

Vijaya Teachers College,
4th block Jayanagar,
Bangalore – 560 011, Karnataka State, INDIA.
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Megha Achuthan

Goal

TO BE A COMMITTED, EFFECTIVE AND INSPIRING TEACHER EDUCATOR

Educational qualifications

<u>COURSE</u>	<u>INSTITUTION</u>	<u>BOARD</u>	<u>MARK</u>	<u>YEAR OF PASSING</u>
M.Ed.	R. V. Teachers college, Jayanagar, Bengaluru-11	Bengaluru City University	86.38 %	2022
B. Ed.	R. V. Teachers college, Jayanagar, Bengaluru-11	Bangalore university	CGPA of 9.25/10	2020
M.Sc. Physics	St. Aloysius College, Elthuruth, Thrissur, Kerala	Calicut University	CGPA Of 2.6/4.0	2017
B.Sc. Physics	Vimala College Thrissur, Kerala.	Calicut University	CGPA Of 3.15/4.0	2015
Class XII	Vivekodayam BHSS Thrissur, Kerala.	Board Of Secondary Examination	87%	2011
Class X	Amrita Vidyalayam Thrissur, Kerala.	Central Board of Secondary Examination	86.4%	2009

Areas of specialization

1. Content and Pedagogy of teaching Mathematics
2. Development and management in school education
3. ICT in education
4. Content and Pedagogy of teaching Physics
5. Assessment of learning

6. Creating an inclusive School
7. Value education

Currently pursuing

1. Certificate in Guidance Course at IGNOU, Delhi.
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Experience

JUNE 2019 – PRESENT

During this period, I started to take tuitions for most of the subjects for classes 5-12. During this period, I got the opportunity to develop several teaching skills that I had acquired in B.Ed. Training. I got the opportunity to develop and analyze the skills that I have acquired. As it was covid period, I took tuitions through online platforms like zoom and google meet, which helped me to increase my technological skills.

January 2022 started to take offline tuitions.

January 2023- PRESENT

Working as Asst.Prof in Vijaya Teachers College.

Professional Activities

- Participated in International Conference on education and Presented paper on education. Title of the Paper “**Effect of Social Maturity on Gender Role Attitude Among Senior Secondary School Students**”, organized by MS Ramaiah institute of technology.
 - National Seminar on Advanced Science and materials organized by the Physics Department of Vimala College.
 - A Series of National Workshop on Theoretical Physics organized by the Post Graduate Department of Physics.
 - Attended National Level Webinar on Research Methodology “Reinventing Research Paradigm”, organized by Department of Post-Graduate Studies in Education and Research, R. V. Teachers College, IASE.
 - Attended 5 Day Workshop on Learning Statistics and Data Analysis Using MS Excel, organized by Simple Statistics Solution and Training Provider, Tirunelveli - 627002, Tamil Nādu, India
 - Completed 5 day online international workshop on “Creating Interactive E-Assessment Tools”, organized by Universal Teachers Academy, Puducherry, India.
 - Attended 2 day online National Workshop on “Creation of Game Based Assessment “, organized by Universal Teachers Academy, Puducherry, India.
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Academic projects

M. Ed. Dissertation: **Effect of Social Maturity on Gender Role Attitude Among Senior Secondary School Students**

Abstract: Over the years, India has experienced exceptional expansion in all spheres, resulting in significant development. Across the country, cities are thriving, businesses are intensifying,

and the middle class is emerging by each day. However, despite these developments, India remains one of the most challenging countries, with significant gender inequalities. The researcher intends to investigate gender role attitudes in relation to social maturity among senior secondary school students. The study's objectives were to uncover the association between social maturity and gender role attitudes in the context of gender, locality, educational stream, and institution type. The intended population comprises of senior secondary school students from the Bangalore urban region. The disproportionate stratified random sampling technique is exercised in this endeavor. The standardised social maturity scale and gender role attitude questionnaire were used for the collection of primary data from 211 respondents. The findings were tabulated and statistical analysis was carried out. The findings revealed that the level of social maturity and gender role attitudes has a positive correlation. Other outcome variables, however, are found to be statistically significant at 5%.

B. Ed. Action Research: Students of Class VIII A of Vasavi Vidyanikethan High School are facing difficulty in sign convention in mathematical operations.

Description:

As a part of B. Ed. internship, we did an action research project, were in while teaching we found out that students were having difficulty in understanding the rules and operations while signs are given. So, my action research project was based on this sign convention. After conduction pre-test, a remedial class was given. After remedial class, a post-test was conducted where in, we got to know that students have improved in their sign convention problem.

M.Sc. Project: Temperature Dependent Complex Permittivity Studies of different Samples Using Split Ring Resonator Metamaterial Structure.

Description:

All materials in nature have different value for relative permittivity. Metamaterials are artificially engineered composite materials exhibiting negative value for permittivity and permeability. Split Ring Resonators (SRR) structures can be used for the construction of negative permeability. A single SRR unit placed in transmitting and receiving probe connected vector network analyzer is used as a test probe for measuring resonance frequency. The resonant frequency depends on permittivity of environment of SRR ring, which includes both substrate and test sample. Hence when sample is placed above SRR we can see a shift in resonant frequency. After measuring the shift, we relate it to relative permittivity. Precise determination of dielectric parameter can be done in this method. Temperature dependence of complex permittivity of different samples like FR boards, Waxes and Oils is studied.

B.Sc. Project: Experimental Realization of Chaos in an electronic Jerk Circuit.

Description:

The basic characteristic of a chaotic dynamic system is discussed. The idea of nonlinearity of a chaotic system and chaos in simple electronic circuit are introduced. It also deals with the theory of jerk equation and the circuit realization of jerk equation. Also, mainly sort out the stimulated trajectories, oscillatory output from CRO and phase plots at particular frequencies. The evolution of periodic dynamic system to chaotic system as a function of control parameter is analyzed.

Computer skills

Microsoft Word, Microsoft Excel, Microsoft Power Point, creating interactive quiz and worksheets, Statistics and Data Analysis Using MS Excel.

Interests

Classical Mechanics, Electronics, Lab experiments, Nuclear Physics, Electrodynamics, psychology, teacher education and educational research.

Awards

1. Secured 4th rank in M.Ed. from Bengaluru City University.
2. Awarded **best oral paper presentation** in humanities from M. S Ramaiah Institute of technology during International Conference on Applied Research in Engineering Sciences 2022.

Achievements

1. Fine Arts Secretary of Vimala College in the year 2015.
2. Vice Chair Person of Vimala College in the year 2017.

Personal profile

Name : Megha Achuthan
Husband's Name : Sandeep Sasi
Date of Birth : 10th April 1993
Sex : Female
Marital status : Married
Nationality : Indian
Hobbies : Reading journals and novels, sports, badminton, dancing and singing.
Languages : Malayalam, English, Tamil, Hindi and Kannada.

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Bengaluru
Date: 26- June-2023

Smt.Megha Achuthan