



# DEEPA S NAIR

ASSISTANT PROFESSOR

## CONTACT

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Ayyanthal, Thrissur

## EDUCATION

### BHARATHIAR UNIVERSITY

- PhD
- MPhil (A Grade)

### UNIVERSITY OF CALICUT

- MSc (70%)
- BSc (85%)
- BSc (70%)

## RESEARCH INTERESTS

- GRAPH THEORY
- MACHINE LEARNING
- DATA SCIENCE
- DOMINATION IN GRAPHS

## SKILLS

- TEACHING
- BOOK EDITING
- PROJECT MANAGEMENT
- LEADERSHIP
- COMMUNICATION
- PYTHON
- BOOK KEEPING

## CERTIFICATIONS

- STATE ELIGIBILITY TEST
- TALLY
- MS EXCEL
- MS WORD
- LINKEDIN MENTORSHIP
- PYTHON

## CONFERENCES

- State Level Seminar on Modern Trends in Mathematical Research
- National Seminar (Department of Mathematics, Christ College, Iringalakkuda)
- UGC Sponsored Six Days National Workshop on Research Methodology
- National Seminar on "The Spirit, Culture and Significance of Graph Theory"
- One Week FDP on "Online Tools for Teaching and Learning"
- Five Day STTP on "Modern Mathematical Tools in Calculus and Analysis"
- International Webinar on History of Mathematics
- International Conference on Mathematics in Technology, Industry and Finance (2022)

## LANGUAGES

- ENGLISH
- MALAYALAM
- TAMIL

## ABOUT ME

I am an Assistant Professor in Mathematics with more than 15 years of experience. My research area is Graph theory especially domination in Graphs. I am also curious in applications of mathematics in Machine learning. I led many academic events including an International Conference. I believe in professional integrity mathematical rigour in every facet of my activity. Regarding research application of graph theory in deep neural networks excites me a lot and I am working forward for publishable results.

## EXPERIENCE

### Assistant Professor 2021--Still working

Devaswom Board Pampa College, Parumala

Roles:

- Lecturer in MSc and BSc Classes
- Tutor
- Convener Calendar Committee
- Convener Skill Center

### Guest Lecturer 2020-2021

HHMSPB NSS College, Neeramankara, Thiruvananthapuram

Roles:

- Tutor

### Guest Lecturer 2018-2020

SV NSS College, Wadakkanchery, Thrissur

Roles:

- Tutor

### Guest Lecturer 2017-2018

Christ College (Autonomous), Iringalakkuda, Thrissur

Roles:

- Tutor

### Guest Lecturer 2015-2017

MMS Govt Arts & Science College, Malayinkezhu, Thiruvananthapuram

Roles:

- HoD (In Charge)
- Tutor

### Guest Lecturer 2014-2015

GHSS Kamaleswaram, Thiruvananthapuram

### Guest Lecturer 2011-2013

MG College, Thiruvananthapuram

### Guest Lecturer 2008-2009

Mar Dianysius College, Pazhanji, Thrissur

# IMPORTANT PUBLICATIONS AND ACHIEVEMENTS

## BOOK

Associate Editor of 'Facets of some modern applications of Mathematics'

ISSN 978-82-992289-2-9

## LEADERSHIP

Chief coordinator of International Conference on Mathematics in Technology Industry and Finance

## FINDINGS

[1,2] - domination numbers in paths, cycles and star graphs and its derived Graphs

ISSN 1927-5307  
2012

## PUBLICATION

The domination and independence of some cubic Bipartite graphs

ISSN 1312-7586  
2011

## PUBLICATION

[1,2]-domination in some harmonious graphs

ISSN 0975-5876  
2013

## PUBLICATION

(1,2)-domination in line graphs of  $C_n$ ,  $P_n$  and  $K_{1,n}$

ISSN 2165-8935  
2013

## PUBLICATION

[1,2]-domination in middle and central graph of  $C_n$ ,  $P_n$  and  $K_{1,n}$

ISSN 2163-1409  
2013

## PUBLICATION

(1,2)-domination in total graphs of  $C_n$ ,  $P_n$  and  $K_{1,n}$

ISSN 2347-1921  
2013

## PUBLICATION

(1,2)-domination in Cartesian and Direct Products of Paths and Cycles

ISSN 22188-22196  
2020

## PUBLICATION

Equitable and non-equitable degree number of some classes of Graphs

ISSN 1311-1728  
2025

## POSITION

Coordinator of CSDCCP

## LEADERSHIP

Chief Coordinator of DBPC Scientia 2024, a major event in the college