DEDICATED EDUCATOR

SHARON RUBINI. P. K   **173, CHIDHAMBARANAR ST,**

D.O.B: 25 FEB 1983   **BALAJI NAGAR,**

MOB: 8056867835   **THIRUPPARANKUNDRAM,**

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An Indian female (married) Christian Pursuing Ph.D. Mathematics, Thiagarajar college of Engineering, Madurai, served as a dedicated Assistant professor and ISO coordinator at St.Peter's College of Engineering and Technology, Avadi, Chennai. Think logically, efficient in applied mathematics, creative and able administrator.

OBJECTIVES:

Deeply accomplished and result driven Assistant professor and an able administrator with the consistent remark. To flourish the potential and manage crisis at optimality.

QUALIFICATION HIGHLIGHTS:

EDUCATIONAL:

- Ph.D Mathematics ,Fractal Geometry, Thiagarajar college of Engineering, Madurai,(PURSUING)
- M.Phil Mathematics, Graph Theory ,PRIST University, 2008-2009
- M.Sc Mathematic, CSI College of Art and Science, Madurai,2006-2008
- (M.Sc (spl) Mathematics), American College, Madurai, 2004-2006
- B.Sc   (spl) Mathematics, Lady Doak College, Madurai,2000-2003

TECHN ICAL :

- ADCA
- LANGUAGES KNOWN: C, C++, JAVA, HTML ORACLE
- ISO auditor
- Beautician
- Baking technology
- Women's studies and HR- its duties.,.

PRESENT POSITION:

Assistant Professor in the Department of Mathematics (SF) since 16.09.2020

PROJECTS:

- **MATHEMATICS OF RAINBOW**

It deals with how are rainbow formed, what is the angel made between the viewer and the sun which was found to be degree 42 elevation. The uniqueness of elevation is checked arriving a differential equation. Types of rainbows and its diffractions are discussed. Finally concluded that rainbow is a circle and what we view is an arc of it.

- **FRACTALS AND CHAOS THEORY**

Fractals are possessing singularities at different scale. Cauliflower is a fractal. There are three types of classifications of fractal. Its mathematical role in stock market, whether forecasting, cinema, medicine are explained. Nature fractals and non-natural fractals are distinguished. Finally concluded that fractals are part of life and is the gift of God for the mathematical researchers.

PROFESSIONAL EXPERIENCE: 9 YEARS

S.NO	INSTITUTION NAME	DESIGN	SUBJECTS HANDLED	BRANCH	POSITIONS HELD	EXPERIENCE IN YEARS
1	REV.JACOB MEMORIAL ARTS AND SCIENCE COLLEGE, AMBILLIKAI, DINDIGUL (DT)	LECTURER	1.REAL ANAYSIS, COMPLEX ANALYSIS 2. OR, ALLIED MATHS 3. BUSINESS STATISTICS	1.BSC 2.BBA 3.M.COM	HOD (I/C)	0.10
2.	ST.PETERS UNIVERSITY, AVADI, CHENNAI	LECTURER	1.ENGINEERING MATHS I,II,III, PQT,PRP,SNM,NM, DISCRETE MATHS, 2.MATHEMATICAL PHYSICS 3.APPLIED PROB & STAT 4.APPLIED MATHEMATICS	1.B.E/B.TECH 2.M.SC(PHY) 3.ME 4.M.PHIL	ADMISSION COORDINATOR	2.4
3.	ST.PETERS COLLEGE OF ENGINEERING AND TECHNOLOGY, AVADI, CHENNAI	ASST.PROF	1.ENGINEERING MATHS I,II,III, PQT,PRP,SNM,NM, DISCRETE MATHS, 2.APPLIED PROB & STAT, APPLIED MATHEMATICS FOR ELECTRONIC ENGINEERS	1.B.E/B.TECH 2.ME	ISO COORDINATOR ANTI-RAGGING SQUAD	7.4

POSITION HELD:

- **HOD (i/c) – (DEC 2008 - MAR 2009)**
- **ISO C**oordinator – SINCE 2012
- **YRC Co-C**oordinator -2011-2014
- Fine Arts **Co-C**oordinator – SINCE 2011
- Discipline committee coordinator –SINCE 2011
- Member of Anti-Ragging committee –SINCE 2009
- Class Advisor and counselor - SINCE 2011
- Women Empowerment cell member – 2015-2017

RESEARCH GUIDESHIP

M.Phil - St.PETERS' UNIVERSITY
19 Scholars Completed

PUBLICATIONS

1. **JOURNAL**:

Estimation of Fractal dimension in the Analysis of Single Abnormal Gene Structure, Sharon Rubini .P.K, S. JeyaBharathi,B.Latha, A.Seethalakshmy "TAGA JOURNAL OF GRAPHIC TECHNOLOGY", V.14.70, pages 775-781, February 2018.

2. **BOOK:**

Engineering Mathematics –II, Dr.S.Sivasankaran, Sharon Rubini.P.K, Anna University Regulation 2018 syllabus, ISBN- 978-93-87483-39-2. .Jan 2018.

3. **CONFERENCE PROCEEDINGS:**

Augmented Assay of Grid to Triangular Fractal Dimension On β-Thalassemia , S JeyaBharathi, Sharon Rubini P K, V Prabhakaran, *International Conference on Mathematical Analysis and Computing (ICMAC-2019)* held during December 23-24, 2019 at Department of Mathematics, SSN College of Engineering, Kalavakkam, Chennai.

AWARDS AND HONOURS

- **Excellent Academician Award 2018**
- **Emerging Researcher Award 2019**
- **Research and Innovation Award 2020**

PROJECTS:

TITLE	CATEGORY	FUNDED BY	SANCTIONED AMOUNT	STATUS
A Study on SingleAbnormal Gene Structure by Fractal Patterns	Women Scientist WOS A **PI**	DST	Rs. 21,22,092	Ongoing (Nov 2019- Nov 2022)

OTHER ACHIEVEMENTS

- Presented a paper on **'women's stories and case studies'** at an international conference Anglican urban network south Asia level.
- Selected as TOT (National level) from capacity building for woman managers held at Alagappa University (Residential workshop sponsored by UGC)
- Invited by Alagappa arts and science, Karaikudi as a research person to lecture on ' **Managing professional and personal role of woman'**
- Participated in national seminar on '**Emerging trends of Algebra'** at TBAK college, Killaikarai.

- Presented papers ' **Technical challenges in cinematography'** and '**Role of mathematics in globalization**' in an International conference at RJMC college, Ambilikkai.
- Invited as a chief guest for women's day at Vailankanni Hr. Sec. School at Avadi, Chennai.
- Participated in workshop on ' **Research practices on topics in Mathematics'** at Madras Christian college, Chennai.
- Participated in Bridge course program organized by Anna university.
- Rendered and dedicated service to Shansi International study center, Oberlin.
- Lecturer, Department of Mathematics in Rev. Jacob Memorial Christian College, Ambilikkai, during 2008-09 and brought forth centum results in MKU results Nov 2008 and was heading the department in the Even semester.
- Lecturer, Department of Mathematics in St.Peter's University during the year Ap 2009- Sep 2011 and brought forth more than 90% results in University Exams Dec 2009 and Ap 2010.
- Assistant Professor, Department of Mathematics at St.Peter's College of Engineering and Technology since Aug 2011 and brought forth centum results in Ap 2012, Ap 2014 and Dec 2015

GUEST LECTURES:

S.NO	DATE	VENUE	TOPIC	LECTURE TO:	REMARK
1..	11/03/14	VAILANKANNI MAT ,HR. SCHOOL	PROFESSIONAL AND PERSONAL ROLE OF WOMEN	SCHOOL TEACHERS	INVITED AS CHIEF GUEST
2.	21/09/15	SRM UNIVERSITY, NOIDA	APPLICATION OF FRACTAL PATTERNS AND CHOAS THEORY	M.SC, APPLIED MATHS STUDENTS	INNOVATION AND MOTIVATED FOR RESEARCH
3.	30/06/17	SPCET	MATH- HOW IS USED IN ENGINEERING	I YEAR BE/BTECH STUDENTS	ORIENTATION PROGRAM
4.	20/09/17	ST.PETERS UNIVERSITY	MATHS- QUEEN OF ALL SCIENCES AND TECHNOLOGY	I YEAR BE/BTECH, BSC, MSC PHY,CHEM	INSPIRATION TO LEARN MATHS.
5.	22/05/18	VENTURE INSTITUTE OF BIOTECHNOLGY AND BIOINFORMATICS RESEARCH	APPLYING STATISTICAL TOOLS IN RESEARCH	BIOTECHNOLOGY ZOOLOGY STUDENTS	INVITED LECTURE

INTERESTS
Playing chess, khokho, mathematical models with clay and vegetables, .

Hereby, I declare all the above details are true to my knowledge.

(Sharon Rubini.. P.K)

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