

**Dr. MARY METTILDA ROSE V.**

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**Educational Qualifications**

**Academic:**

Course	Year of Passing	Class	University
Ph. D	2011	--	University of Kerala
M. Phil	1993	A-Grade	University of Kerala
M. Sc	1979	First Class	University of Kerala
B. Sc	1977	First Class	Madurai Kamaraj University
P.U.C	1974	First Class	Madurai Kamaraj University
S. S. L. C	1973	First Class	Board of Secondary School of Education, Tamil Nadu

**Technical:**

Known Packages	MS. Office , LATEX and C -language
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**Title of the P.hD Thesis** : Adjunction Semigroup in Reflective Subcategory of the Category of Topological Semigroups

**Area of Interest** : Category Theory

**Teaching Experience** : 40 Years  
(From January 1980 till December 2019)

Name of the Institution	Class Taught	Subject Taught	Period of Service
All Saints' College Thiruvananthapuram	Pre-Degree	Mathematics, Statistics	1980-2000
All Saints' College Thiruvananthapuram	Degree	Mathematics, Statistics and Computer programming	1980-2013

All Saints' College Thiruvananthapuram	P.G.(M.Sc- Environmental Science)	Biostatistics and Computer	1999-2009
All Saints' College Thiruvananthapuram	Principal		2012 - 2013
Trinity College of Engineering, Naruvamoodu, Thiruvananthapuram	Principal in charge  Vice Principal		2014-2015 July-Dec 2013 and Aug.2015 to Dec.2019

2003-2012 **Head of the Department of Mathematics**, **2010-2012 Vice-Principal** and 2012-2013 as **Principal**, All Saints College, Thiruvananthapuram. From July to December 2013 and August 2015 to December 2019 as Vice Principal, from June 2014 to July 2015 Principal in charge of Trinity College of Engineering, Thiruvananthapuram.

#### **Awards and other Honors Received :**

1. On 14<sup>th</sup> June Terumo Penpol Ltd, . Honored for **out standing support in the promotion of Voluntary Blood Donation** for the years 2005-2006, 2006-2007, 2007-2008 2011-12 and 2013-14.
2. Sree Chithra Thirunal Institute for Medical Sciences and Technology, Thiruvananthapuram awarded appreciation of being a **Regular Voluntary Blood Donor Organizer** in the year 2006-2007.
3. Sree Chithra Thirunal Institute for Medical Sciences and Technology, Blood Bank Thiruvananthapuram Felicitate on the occasion of World Blood Donor Day June 14<sup>th</sup> 2007, 2009 and 2011 **for having saved precious lives through her commitment towards the Voluntary Blood Donation Programme**
4. Won the **Best NSS Programme Officer Award from University of Kerala** for having done Exemplary Service through the National Service Scheme as Programme Officer during the years 2006-2007 and 2011-2012.

5. Won the **Best NSS Programme Officer State Award** during the year 2006-2007 in a function held at Govt. Women's College on 20-4-2009.
6. Received the Latin Catholic Iykkiyavedhi. Silver jubilee **Vishishta Seva Ratna Award 2012.**
7. Best Principal Award on May 2013

### **I. Professional Societies Membership**

1. Life Membership of Kerala Mathematics Association.
2. Life member of Indian Society for Technical Education
3. Member of Board of Studies in Mathematics– University of Kerala from 2006-2009.
4. Member of the Advisory Committee of Higher Education of the Latin Archdiocese of Trivandrum with effect from 30-01-2013 for the period of three years.
5. Vice-President of the Council of St. Joseph's Metropleton Cathedral, Palayam (2013- 2015)
6. Kerala University National Service Scheme Advisory Committee member from 2007-2009 and 2011-2013

### **II. Research Papers Presented in Conferences/Seminars:**

1. On **“Application of Data Structure in Real Analysis”** – National Seminar on **“APPLICATION OF DATA STRUCTURE IN MATHEMATICS”** sponsored by CSIR from 1-3 December 2008 for College teachers at All Saints' College, Thiruvananthapuram. Also published the proceedings of the National Seminar.
2. **On “Adjunction Semigroups”** – International Seminar on **RESENT TRENDS IN TOPOLOGY AND ITS APPLICATIONS** organized by the Centre for the Post Graduate Studies and Research Department of Mathematics, St. Josph,s College , Irinjalakuda from 19-21 March 2009

sponsored by the International Mathematical Union, Italy and National Board of Higher Mathematics, Department of Atomic Energy, Govt. of India.

3. On “**Reflective Subcategories**– U.G.C sponsored National seminar on “**TOPOLOGY, CATEGORY THEORY AND THEIR APPLICATIONS TO COMPUTER SCIENCE**” at ALL SAINTS’ COLLEGE, THIRUVANANTHAPURAM, KERALA, from October 23 – 24, 2009.
4. On “**Graph and Category**” –UGC Sponsored International Conference on GROUPOID, SEMIGROUP AND AUTOMATA from 10<sup>th</sup> to 12<sup>th</sup> August 2010 organised by the Department of Mathematics, Kariavattom, University of Kerala.
5. On “**Application of Category Theory in Material Science**” - -UGC sponsored National Seminar on “**Emerging Trends in Material Science**” organized by the Departments Physics and Chemistry on 20<sup>th</sup> and 21<sup>st</sup> July 2011 at All Saints’ College.
6. On “**Applications of Category Theory**” – National Seminar On “**Algebra, Analysis and Discrete Mathematics**” (NSAADM-2012) organized by the Department of Mathematics, University of Kerala from February 8-10, 2012.
7. On “**O! Playful One! On Huminizing Mathematics Education**” in the four day International Conference on Mathematics Education and Mathematics in Engineering and Technology held from 17 to 20 December 2013 organised by Mohandas College of Engineering and Technology, Thiruvananthapuram Sponsored by KSCSTE.

### **III. Academic Activities Organized:**

1. A National Seminar on “**FACETS OF ASTRONOMY**” sponsored by the Kerala State Council for Science, Technology and Environment on 19<sup>th</sup> January 2006 at All Saints’ College,

Thiruvananthapuram. Also published the proceedings of the National Seminar.

2. An Intra- City Initiatives **Quiz Competition** on “**Freedom Struggle**” on 15<sup>th</sup> August 2006 for all NSS volunteers of Kerala University at All Saints’ College.

3. An **International Seminar** on “**INDIAN MATHEMATICS**” on 1<sup>st</sup> August 2006 at All Saints’ College, Thiruvananthapuram. Also published the proceedings of the Inter-National Seminar.

4. In the receiving ceremony of the **Korean Youth** Team at Thiruvananthapuram Airport with NSS and NEHRU UVA KENDRA as part of Indo-Korea Youth Cultural Exchange programme on 16<sup>th</sup> November 2006 and arranged **Cultural Programmes in the College with the Korean Team.**

5. **National Seminar** on “**OPERATIONS RESEARCH AND APPLICATIONS**” sponsored by the Kerala State Council for Science, Technology and Environment from 17<sup>th</sup> to 19<sup>th</sup> January 2007. Also published the proceedings of the National Seminar.

6. Organised an Inter Collegiate Workshop on **HEALTH AND HYGIENE** at All Saints’ College on 26<sup>th</sup> January 2007.

7. **State Level Workshop** on “**DATA STRUCTURE USING C**” sponsored by the Kerala State Council for Science, Technology and Environment from 9<sup>th</sup> to 11<sup>th</sup> January 2008 for College teachers to familiarize the new curriculum. Also published the proceedings of the State level Workshop.

8. **National Seminar** on “**APPLICATION OF DATA STRUCTURE IN MATHEMATICS**” sponsored by CSIR from 1-3 December 2008 for College teachers at All Saints’ College, Thiruvananthapuram. Also published the proceedings of the National Seminar.

9. **U.G.C sponsored National Seminar** on “**TOPOLOGY, CATEGORY THEORY AND THEIR APPLICATIONS TO COMPUTER SCIENCE**” at ALL SAINTS’ COLLEGE,

THIRUVANANTHAPURAM, KERALA, from October 23 – 24, 2009. Also published the proceedings of the National Seminar.

10. **A National Seminar on “GENDER AND CULTURE”** on 21,22 January 2010 sponsored by University of Kerala and Centre for Women’s Studies, **University of Kerala** at All Saints’ College. Also published the proceedings of the National Seminar.

11. **State Level Workshop on “Maple – A Mathematical Tool”** sponsored by the **Kerala State Council for Science, Technology and Environment** from 5<sup>th</sup> to 7<sup>th</sup> January 2011 at All Saints’ College. Also published the proceedings of the State level Workshop.

12. **National Seminar on “LATEX PROGRAMMING”** sponsored by the **Kerala State Council for Science, Technology and Environment** from 11<sup>th</sup> to 13<sup>th</sup> January 2012. Also published the proceedings of the National Seminar.

13. **Cultural Tour** for the final year B. Sc Mathematics students more than 20 years.

14. Has been publishing a **Mathematical journal SIGMA** every year from 2006 onwards by the final year students of Mathematics under my leadership.

15. Installed **105 Great Mathematicians photos** in Department of Mathematics, All Saints’ College on September 05, 2008.

16. Organized an **All Kerala Inter-Collegiate Mathematics Quiz Competition** on 14<sup>th</sup> January 2011 and 2012 at All Saints’ College.

17. One day **Inter- Collegiate Regional Seminar on “Life Style Diseases”** on 15<sup>th</sup> March 2012 for NSS volunteers at our College.

18. Organised three day Workshop on **Latex P rogramming** from 9<sup>th</sup> to 11<sup>th</sup> December 2013 at Trinity College of Engineering

sponsored by Kerala State Council for Science, Technology and Environment.

#### **IV. International Seminar/ Conferences Participated :-**

- i. Participated an International Symposium on **“Semigroups and Applications”** from 9<sup>th</sup> to 11<sup>th</sup> August 2006 organized by the Department of Mathematics, University of Kerala, Thiruvananthapuram.
- ii. From 4-6 December 2008 attended an International Seminar on **DEMOCRATIC & SECULAR EDUCATION** organized by the Government of Kerala at the University Campus, Kariavattom.
- iii. Attended an International Seminar on **RESENT TRENDS IN TOPOLOGY AND ITS APPLICATIONS** organized by the Centre for the Post Graduate Studies and Research Department of Mathematics, St. Josph,s College , Irinjalakuda from 19-21 March 2009 sponsored by the International Mathematical Union, Italy and National Board of Higher Mathematics, Department of Atomic Energy, Govt. of India.
- iv. Participated **INTERNATIONAL CONFERENCE ON “GROUPOID SEMIGROUPS AND AOTOMATA” (ICGSA 2010)** organized by the Department of Mathematics, University of Kerala, Thiruvananthapuram during 10-12 August 2010.
- v. Participated in the International Workshop on **Disaster Risk Reduction and Contingency Planning (Surakshaayanaam 2012)** jointly organized by Department of Revenue and Disaster Management, Government of Kerala, Kerala State Disaster Management Authority and Institute of Land and Disaster Management during 9<sup>th</sup> -10<sup>th</sup> March 2012 at Kanakakkunnu Palace Grounds, Thiruvananthapuram.
- vi. Participated in the four day International Conference on Mathematics Education and Mathematics in Engineering and Technology held from 17 to 20 December 2013 organised by

Mohandas College of Engineering and Technology,  
Thiruvananthapuram Sponsored by KSCSTE.

**V. Refresher Courses Attended:**

- i. Successfully completed the U.G.C. Sponsored Refresher Course in **Mathematics** conducted by **UGC- Academic Staff College, University of Kerala** from 25-10-1995 to 15-11-1995.
- ii. Successfully completed the U.G.C. Sponsored Refresher Course in **Mathemtics** conducted by UGC- Academic Staff College, University of Kerala from 22-12-1997 to 12-01-1998.
- iii. Successfully completed the U.G.C. Sponsored Refresher Course in **Computer Application** conducted by UGC- Academic Staff College, University of Kerala from 16-07-2001 to 06-08-2001.
- iv. Successfully completed the U.G.C. Sponsored Refresher Course in **Women's Studies** conducted by UGC- Academic Staff College, University of Kerala from 02-11-2009 to 23-11-2011 with 'A' grade

**VI. Orientation Programs Attended:**

- i. Participated an Orientation Program in **NSS** at Rajagiri College of Social Sciences, Kalamasery from 4<sup>th</sup> to 13<sup>th</sup> July 2006.
- ii. Participated in the two day Orientation Program for **College teachers in Mathematics** to familiarize them with the semestiarization of the U.G. programme under **Choice Based Credit and Semester System** conducted by UGC- Academic Staff College, University of Kerala on 26<sup>th</sup> and 27<sup>th</sup> July 2010.
- iii. Participated in the one day Orientation Program to the **Teaching staff of the Colleges** on the Regularizations of



Choice Based Credit and Semester System held on 9<sup>th</sup> December 2009 at Mar-Ivanios College, Thiruvananthapuram.

iv. Participated in the Orientation Program to the **Conveners of the College Level Monitoring Committee (CLMC)** at the University Senate Chamber on 10<sup>th</sup> March 2011.

v. On **“Adolescent and Young Adults – Pre-marital Counselling”** organized by Child Development Centre in association with National Service Scheme, University of Kerala at Child Development Centre , Medical College, Trivandrum on 19<sup>th</sup> October 2011.

## **VII. National Seminars Attended :-**

- i. **“Programming in C & C++ And Analytic Number Theory”** organized by Kerala Mathematical Association at All Saints’ College on 2-2-2002.
- ii. **“Women and Health : New Paradigms”** organized by the Centre for Women’s Studies, University of Kerala on 12<sup>th</sup> and 13<sup>th</sup> March 2009.
- iii. **“C and Data Structures”** organized by Mar-Ivanios College from 27<sup>th</sup> to 29<sup>th</sup> November 2008 and sponsored by Kerala State Council for Science, Technology and Environment.
- iv. U.G.C. sponsored **“Algebra, Analysis and Discrete Mathematics”** organized by the Department of Mathematics, University of Kerala from December 10 – 12, 2008.
- v. U.G.C sponsored **“Panchayati Raj and Empowerment of Muslim Women in Kerala”** organized by the Department of Islamic History, Mannaniya College of Arts and Science on Mach 28, 2008.
- vi. UGC sponsored **“Engendering Health : New Paradigms”** organized by the Centre for Women Studies. University of Kerala at Hotel Mascot, Thiruvananthapuram.

- vii. On **“Empowerment of Women”** organized by Nesamony Memorial Christian College, Marthandam, Tamil Nadu on 11<sup>th</sup> September 2009.
- viii. UGC sponsored **“Emerging Trends in Material Science”** organized by the Departments Physics and Chemistry on 20<sup>th</sup> and 21<sup>st</sup> July 2011 at All Saints’ College.
- ix. UGC sponsored **“Charting New Territories : Cartographies of Popular Media and Culture”** organized by the Department of English, All Saints’ College on 18 and 19 August 2011.
- x. UGC sponsored **“Algebra, Analysis and Discrete Mathematics” (NSAADM-2 012)** organized by the Department of Mathematics, University of Kerala from February 8-10, 2012.

#### **VIII. Regional Seminars Attended :-**

- i. A Seminar on **“Melting Ice – Hot Topic”** organized by the Kerala State Council for Science, Technology and Environment in connection with the World Environment Day 2007 on 5<sup>th</sup> June 2007 at Priyadarshini Auditorium, Kerala Science, Technology Museum, PMG Junction, Trivandrum.
- ii. **“Understanding Planet Earth”** – the focal theme of National Science Day February 28, 2008 organised by Kerala State Council for Science, Technology and Environment (**KSCSTE**) at Trivandrum,
- iii. Of **“Annam”-Good Food Movement** in India organized by CISSA at VJT Hall, Thiruvananthapuram. on
- iv. On **“Teacher Effectiveness and Catholic Educational Policy”** organized by Xavier Board for Higher Education in India, Kerala, Southern Region on 5<sup>th</sup> and 6<sup>th</sup> February 2009.
- v. On June 5<sup>th</sup> 2009 at Co-Bank Towers, Thiruvananthapuram.

- vi. On “**Ornamental Fish Culture & Aquarium Keeping**” held on 28<sup>th</sup> July 2010 organized by Department of Zoology, All Saints’ College.
- vii. On “**Clean Energy Options and Nuclear Safety**” sponsored by KSCSTE and supported by the Department Science and Technology Government of India , organized by Post Graduate Department of Environmental Science, All Saints’ College on 27<sup>th</sup> February 2012.
- viii. On “**Computation and Programming**” held on 23<sup>rd</sup> and 24<sup>th</sup> of March 2012 organized by Department of Mathematics, University College, Thiruvananthapuram.

#### **IX. Work Shops**

- i. On “**Right to information Act ,2005**” for College teachers of Thiruvananthapuram district on 17<sup>th</sup> December 2007 under UNDP project at the Institute of Management in Government.
- ii. On “**Disaster Management**” organized by Ministry for Youth Affairs ad Sports, Govt. of India in collaboration with Ministry of Home Affairs on 27<sup>th</sup> and 28<sup>th</sup> March 2006 at Hotel Surya Complex, Nedumangad, Trivandrum..
- iii. In connection with the formation of **Red Ribbon Club** in all Colleges on 21<sup>st</sup> August 2007 at State Health & Family Welfare Training Center, Thycaud, Trivandrum.
- iv. “**Naadin Chujithuwam Veedukaliloode**” conducted by Kerala State Pollution Control Board on 3<sup>rd</sup> and 4<sup>th</sup> March 2008 at Thiruvananthapuram.
- v. “**Environmental Awareness for College Teachers and Students**” on 11<sup>th</sup> March 2008 organised by Kerala State Biodiversity Board at Kerala Science, Technology Museum, PMG Junction, Trivandrum.
- vi. On “**Curriculum Design in connection with the Restructuring of Undergraduate Courses in Mathematics**”

held under the joint auspices of the Kerala State Higher Education Council and the University of Kerala at Government Women's College, Thiruvananthapuram from 24<sup>th</sup> to 28<sup>th</sup> February 2009.

- vii. **On “Preparation of Model Question Papers in connection with the Restructuring of Undergraduate Programme in Mathematics”** held at Government Women's College, Thiruvananthapuram from 30<sup>th</sup> November and 1<sup>st</sup> December 2009.
- viii. **On “Maple—A Mathematical Tool”** at NSS College for Women Thiruvananthapuram on 8<sup>th</sup> and 9<sup>th</sup> July 2010.
- ix. **On “Essentials of Latex Programming”** Sponsored by the Directorate of Collegiate Education, Government of Kerala, organized by Department of Mathematics, KNM Government Arts and Science College, Kanjiramkulam, on 8<sup>th</sup> and 9<sup>th</sup> December 2011.
- x. **On “Principals’ of all affiliated Colleges in Kerala organized by UGC- Academic Staff College, University of Kerala from 5<sup>th</sup> to 6<sup>th</sup> March 2012 sponsored by UGC and .from 4 to 5 February 2013.**

#### **X. Continuing Education Programs:**

Distance Education program for M. Sc Mathematics course in University of Kerala, Guide the M.Sc Mathematics students' project.

#### **XI. Main Charity Works Done**

1. With the help of the students, the teaching staff and non teaching staff of All Saints' College built **four houses and donated them to four different widows on four different years.**
2. From 2004 onwards promoting **Voluntary Blood Donation** among women and organizing voluntary blood donation camps in the College with the help of the Sree Chithra Thirunal Institute for Medical Sciences and Technology blood bank. More than hundred female students are donating blood voluntarily every year.

## **XII. Resource Person :**

1. Chief Guest and Invited speaker for Christian College, Kattakkada on 10<sup>th</sup> January 2011 and delivered a talk on **Graph and Topology**.
2. Invited speaker for S.N.College Chempazhunthi and delivered a talk on **ASTRONOMY on 24<sup>th</sup> Feb.2012**.
3. Chief Guest and Invited speaker for the National seminar on “Category Theory and its Applications” on 3<sup>rd</sup> March 2015 at Sri Ayyappa’s College, Nagercoil

## **XIII. Positions Held**

1. **Staff Secretary**
2. **Staff Advisor**
3. **Staff Treasurer**
4. **PTA Treasurer**
5. **PTA Secretary**
6. **Counselor**
7. **AICUF Animator**
8. **Women’s Study Cell Coordinator**
9. **Arts Club Secretary**
10. **NSS Programme Officer.**
11. **Chief Superintends of Examinations**
12. **Chairman for various University Examinations from 2004 onwards.**
13. **IQAC Coordinator**
14. **Internal Audit Cell Coordinator**