

Dr SILVIA LEERA SEQUEIRA

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1. EDUCATION:

- a. Ph.D. in Mathematics
Specialization in Graph Theory
Visvesvaraya Technological University, Belagavi. (3rd April 2021)
- b. M.Phil. (Mathematics)
Sri.Venkateshwara University, Tirupati, (2009), (FIRST CLASS).
- c. M.Sc. (Mathematics)
Mangalore University, Mangalore, (2005), (FIRST CLASS WITH DISTINCTION).
- d. B.Sc. (Electronics, Computer Science , Mathematics)
Dr. N.S.A.M.F.G.C, Nitte,
University of Mangalore-(2003) (FIRST CLASS WITH DISTINCTION).

2. PROFESSIONAL HISTORY:

- a. Assistant Professor
Department of Mathematics
B. M. S. College of Engineering,
Bangalore - 560 019.
Period: -16/08/2012 till date
- b. Lecturer
Department of Mathematics
B. M. S. College of Engineering,
Bangalore - 560 019.
Period: - 16/08/2011 – 15/08/2012
- c. Lecturer
Department of Mathematics,
Jyoti Nivas College, (Autonomous)
Bangalore - 560 095.
Period:- Jan 2008-Dec 2010
- d. Lecturer
Department of Mathematics
Oxford College of Science
Bangalore-560078
Period:-June 2007- Dec 2007

- e. Lecturer
Department of Mathematics
Christ King Pre-University College, Karkala
Mangalore-574104
Period:- 2005 to April 2007

3. TITLE OF M.Phil. DISSERTATION:

“Numbered Graphs and Applications”

4. TITLE OF Ph.D. THESIS

“On Certain Alliances in Graphs”

5. PRESENTATIONS OF RESEARCH PAPER:

- a. Presented paper titled “About the neighborhood alliance sets in Graph” at International Conference in Mathematics and Applications ICMA-MU 2018 held during 16-18th December 2018 at The Century Park Hotel, Bangkok, Thailand. organised by Centre of Excellence, Mahidol University, Thailand
- b. Presented a paper titled “Radio Antipodal Coloring of Transformation Graphs” at National Conference on “GRAPH NETWORKS AND NAVIGATORS” held during 2nd -3rd January 2015, at Poornaprajna College, Udupi, India.

6. Membership or Fellowship of Professional / Academic bodies

1. Lifetime member of Academy of Discrete Mathematics and Applications (ADMA)
2. Lifetime member of Ramanujan Mathematical Society (RMS)

7. CONFERENCES ATTENDED:

- a. Second International Conference on Recent Trends in Applied and Computational Mathematics (ICRTACM-2021), held on 08-10-2021 and 09-10-2021 organised by Department of Mathematics, School of Applied Sciences, REVA UNIVERSITY, Bengaluru.
- b. International Conference on “DISCRETE MATHEMATICS-2016(ICDM-2016) AND GRAPH THEORY DAY-XII ” organised at Siddaganga Institute of Technology, Tumakuru during June 9-11, 2016.
- c. National Conference on “RECENT TRENDS IN GRAPH THEORY AND ITS APPLICATIONS”(NCRTGTA-2015) held at Department of Mathematics, Mangalore University, Mangalagangothri, Mangalore on 5th – 6th of February 2015.
- d. National conference on *GRAPH COLORING AND ITS APPLICATIONS* held during 27th – 28th July, 2013, at Dr. Ambedkar Institute of Technology, Bangalore, India.
- e. International conference on “*EMERGING TRENDS IN FLUID MECHANICS AND GRAPH THEORY*” held during 16th – 18th August, 2012 at Christ University, Bangalore.

- f. II National Conference on “*EMERGING TRENDS IN FLUID MECHANICS AND GRAPH THEORY*” held during *February 11-12, 2011* at Christ University, Bangalore
- g. I National Conference on “*EMERGING TRENDS IN FLUID MECHANICS AND GRAPH THEORY*” held during *February 25-26, 2010* at Christ University, Bangalore
- h. International Conference on “*EMERGING TRENDS IN HIGHER EDUCATION-A GLOBAL PERSPECTIVE: CONCERNS AND CHALLENGES IN ENVIRONMENTAL SUSTAINABILITY, ENTREPRENEURSHIP AND CINEMA(ICEEC)*” held on 12th -14th August 2008 at Jyoti Nivas College, Bangalore, India.

8. FDPS /WORKSHOPS ATTENDED:

- a. One week Faculty Development Programme on “Mathematical Foundation for Data Science” held during 15th to 20th May, 2023 organised by the Department of Mathematics, BMS College of Engineering, Bengaluru, India.
- b. One day IP Awareness/Training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (NIPAM) held on 03rd May, 2023 at BMS College of Engineering, Bengaluru, India.
- c. One day workshop on “Graph Theory and Applications” held on 22nd April, 2023 at Indian Institute of Science, Bengaluru, India.
- d. One week Faculty Development Programme on “Engineering Mathematics Using Python” held during 20, 21 and 27-29 October, 2022 organised by the Department of Mathematics, BMS College of Engineering, Bengaluru, India.
- e. TEQIP-III sponsored One week Faculty Development Program on “Communication Networks and Security(Hands on session)”, from 30th July 2019 to 3rd August 2019 , organised by the Department of Computer Science and Engineering and Department of Electronics and Communication Engineering, B.M.S. College of Engineering, Bengaluru in association with Department of Computer Science and Information Technology, M.J.P. Rohilkhand University, Bareilly, U.P.
- f. TEQIP -III sponsored One week Faculty Development Program on “Practical Approaches for Engineering Courses from Industry Perspective” from 22nd to 26th July 2019, organised by the Department of Information Science and Engineering and Department of Electronics and Communication Engineering, B.M.S. College of Engineering, Bengaluru in association with Department of Computer Science and Engineering , M.J.P. Rohilkhand University, Bareilly, U.P.
- g. MHRD sponsored GIAN course on “Pseudo-Spectral Methods and their Applications in Solving System of Differential Equations” from 15th to 25th January 2018 organised by the Department of Mathematics at B.M.S. College of Engineering, Bengaluru.

- h. TEQIP II sponsored One Week Faculty Development Program on “Advanced Numerical Techniques for Engineers and Researchers” held during 23-1-2017 to 28-01-2017 organised by the Department of Mathematics at B.M.S. College of Engineering, Bengaluru.
- i. **Co-ordinated and participated** in the **two week** faculty development program on “Graph Theory-Algorithms and Applications” held during 26-12-2016 to 07-01-2017 organised by the Department of Mathematics at B.M.S. College of Engineering, Bengaluru.
- j. One day program on “Wolfram Technology Workshop-2016” in association with Department of Mathematics and Information Science and Engineering at MSRIT, Bangalore conducted on 24th September 2016.*****
- k. MHRD SPONSORED One Week Faculty Development program on “ESSENTIALS OF PEDAGOGY” conducted by National Institute of Technical Teachers training and Research, Chennai from 25-07-2016 to 29-07-2016 at B.M.S. College of Engineering, Bengaluru.
- l. **Co-ordinated and participated** in TEQIP II sponsored One week workshop on “Tools for Project Management and Evaluation” during July 18- July 24, 2016 organised by the Department of Mathematics, B.M.S. College of Engineering, Bengaluru-19.
- m. Three Days Workshop on “Research Methodologies & Latex”, organised by VTU e-Learning Centre, Mysuru from 26th to 28th May 2016 at Don Bosco Institute of Technology, Bengaluru.
- n. One Day National Workshop on ” GRAPH THEORY AND ITS APPLICATIONS” organized by the Department of Mathematics, Siddaganga Institute of Technology, Tumkur on 17th October 2015.
- o. One Day Workshop on” ASSESSMENT OF QUALITY OF TEACHING LEARNING PROCESS ” conducted by the IQAC-BMSCE on 29th July, 2015.
- p. Three Day Workshop on “SCILAB FOR ENGINEERING APPLICATIONS” organized by the Departments of IT, ECE, EEE and Mathematics, R.V. College of Engineering ,Bangalore during 1st to 3rd January, 2014.
- q. One week TEQIP II Faculty Development Program on “*LATEX AND EXCEL FOR RESEARCH- HANDS ON SESSIONS*” held from 2nd to 7th August, 2013 by the Department of Medical Electronics, B.M.S. College of Engineering, Bangalore, India,
- r. One week TEQIP II Faculty Development Program on “*BIostatistics AND Bio-MODELING USING SOFTWARE TOOLS*” held from 22nd to 26th July, 2013 by the Department of Biotechnology and Department of Mathematics, B.M.S. College of Engineering, Bangalore, India,
- s. One week TEQIP II sponsored Faculty Development Program on “*BIostatistics- HANDS ON WITH SPSS AND R TOOL SESSIONS*” held from 8th to 12th July 2013, by the Department of Medical Electronics, B.M.S. College of Engineering, Bangalore, India

- t. TEQIP II sponsored One Day Workshop on “*LATEX FOR RESEARCH DOCUMENTATION*” on 18th March 2013 by the Department of ISE and CSE at B.M.S. College of Engineering, Bangalore, India
- u. National Seminar on “*GRAPH THEORY AND ITS APPLICATIONS*” held during 3rd-5th January 2013 at St Aloysius College, Mangalore.
- v. One week ISTE approved Short term Training programme on “*PROJECT MANAGEMENT*” from 20th to 25th August 2012 at B.M.S. College of Engineering, Bangalore
- w. Faculty Orientation Programme held during 23rd- 28th January 2012 at B.M.S College of Engineering, Bangalore.
- x. Three Day Workshop on “*LINEAR ALGEBRA AND ITS APPLICATIONS TO ENGINEERING*” held during 16th-18th January 2012 at M. S. Ramaiah Institute of Technology, Bangalore, India

9. ONLINE FDP /WORKSHOP ATTENDED:

1. **Five Days E-workshop** on “Scientific Communication for Researchers” from 29-05-2023 to 02-06-2023 conducted by Research & Development Centre, B. M. S. College of Engineering, Bengaluru-560019.
2. **Two weeks** “Refresher Course in Applicable Mathematics” from 26-07-2022 to 08-08-2022 with A+ grade organised by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching in collaboration with Department of Mathematics Sri Jayachamarajendra College of Engineering (SJCE) JSS Science and Technology University, Mysuru.
3. One week GIAN course on “Modeling and Simulation of Turbulence” conducted from 29-04-2022 to 03-05-2022 organised by the Department of Mechanical Engineering and the Department of Mathematics ,BMSCE, Bengaluru.
4. One Week AICTE-VTU Joint Online Teachers Training Programme on “An Overview of Teaching Techniques in Data Science and Analytics” from 25-04-2022 to 29-04-2022 organised by VTU Human Resource Development Centre (VTU-HRDC), Centre for PG Studies, VIAT,Muddenahalli, Chikkaballapur(Dist).
5. One Week Short Term Training programme through ICT Mode on “Community Development through Technical Institutes” organised by National Institute of Technical Teachers’ Training and Research (NITTTR) Kolkata from 07-03-2022 to 11-03-2022.
6. One Week Online AICTE-VTU Joint Teachers Training Programme on “An Overview of Teaching Techniques in Mathematics Laboratory Using Python Programming” between 21-

02-2022 to 25-02-2022 organised by VTU Human Resource Development Centre (VTU-HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur.

7. AICTE Training and Learning (**ATAL**) Academy Online Elementary FDP on “Emerging Trends in Applied Mathematics” from 06-12-2021 to 10-12-2021 at Dayananda Sagar College of Engineering.
8. AICTE Training and Learning (**ATAL**) Academy Online Elementary FDP on “Mathematical Tools and Recent Advances in Applied Mathematics (MTRAAM)” from 16-08-2021 to 20-08-2021 at Madan Mohan Malaviya University of Technology, Gorakhpur.
9. Five days “National Level Virtual Faculty Development Program on Graph Theory” held from 29-06-2021 to 03-07-2021 organised by Department of Science in collaboration with IQAC.
10. FDP on “Applications of Geogebra” organised by IIT Bombay-Spoken Tutorial from 25-6-2021 to 01-07-2021.
11. Online One Week Short-Term training programme on “COGNITIVE TECHNICAL SKILLS FOR MODERN CLASSROOM DELIVERY” sponsored by Indian Society for technical Education (ISTE), New Delhi during 21-6-2021 to 26-06-2021 organised by Department of Applied Science & Humanities of P.R.Pote(Patil) College of Engineering & Management, Amravati.
12. UGC sponsored Faculty Development Programme on “Aspects of Mathematics” held during 22-03-2021 to 28-03-2021 conducted by PG and Research Department of Mathematics, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai.
13. AICTE Training and Learning (**ATAL**) Academy Online FDP on “Data Sciences” from 19-1-2021 to 23-1-2021 at Global Academy of Technology.
14. The MHRD sponsored TEQIP assisted course on “Open Source Tools for Online Teaching” from 12-12-2020 to 16-12-2020 organised by the Department of Management Studies and Department of Electronics and Communication Engineering, IIT Roorkee.
15. AICTE Training and Learning (**ATAL**) Academy Online FDP on “Leadership and Excellence” from 7-12-2020 to 11-12-2020 at B.M.S College of Engineering.
16. National level Online One Week Faculty Development Programme on Python Programming organised by the Department of Mathematics, B.M.S. College of Engineering, Bengaluru in collaboration with Spoken-Tutorial Project, IIT Bombay, funded by NMEICT, MHRD, Govt. of India held during 24-08-2020 to 29-08-2020.
17. Five day Faculty Development Programme on “Mathematical concepts by using Free Open Source Softwares (Foss)” organised by the Department of Mathematics, BMSIT&M, Bengaluru held during 21-7-2020 to 25-07-2020.

18. One Week Online Short Term Training Program on “Application of Mathematical Sciences” organised by Department of Basic Sciences and Humanities, KDK College of Engineering, Nagpur in association with Indian Society for Technical Education, New Delhi (ISTE) from 13/07/2020 to 18/07/2020.
19. Online “Six day National Webinar series on Applications of Mathematics” organised by the Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore from 06/07/2020 to 11/07/2020.
20. Online One week Pedagogical Training for teachers on “Tools for Online Teaching Learning and Evaluation ” organised by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra from 01/07/2020 to 06/07/2020.
21. One week Online FDP on “Recent Advances in Material Science and Mathematical Application ”organised by Department of Basic Science , Ghousia College of Engineering, Ramanagara,Karnataka from 15/06/2020 to 19/06/2020.
22. Five day Online International FDP on “Recent Trends in Applied Mathematics” organised by the Department of Mathematics, SNS College of Technology, Coimbatore from 02/06/2020 to 06/06/2020.
23. Five-day online FDP on”Evolution from Offline to Online Teaching” organised by Internal Quality Assurance Cell and FDP Committee in association with Department of Information Technology University of mumbai, Satish Pradhan Dnyanasadhana College, Thane, Yashwantrao Chavan Maharashtra Open University, Mumbai and Microsoft from 30/05/2020 to 03/06/2020.

10. ONLINE WEBINARS ATTENDED:[less than a week]

1. One day National level seminar on”Digital Transformations under NEP 2020”conducted by IQAC, BMSCE in association with National Assessment and Accreditation Council (NAAC) on 15th July 2022.
2. Three day online Faculty Development Program on “Symposium on Engineering Mathematics with MATLAB” organized by IUCEE Foundation, RV College of Engineering and MATHWorks India Private Limited from 06-07-2021 to 08-09-2021.
3. National webinar on”Recent trends and Applications of Graph theory” organised by Government Degree College, Pithapuram on 27-09-2020.
4. National webinar on “Discrete Math and Computing:The aesthetic interplay” held on 15-09-2020 organised by the Department of Mathematics, Dr. Ambedkar Institute of Technology, Bengaluru in association with Institute of Engineering and Technology, Rammanohar Lohia Avadh University, Ayodhya.

5. National Level Mathematics Webinar Series conducted by the Department of Mathematics, Mangalore University during 09-09-2020 to 12-09-2020. (four days)
6. Online workshop on “How to Choose Right Journal?” organised by Research and Development Centre, BMS College of Engineering, Bengaluru on 14/07/2020.
7. Online Two Days Webinar on “Number Theory and its Application to Cryptography” organised by the Department of Mathematics, The National Institute of Engineering, Mysuru from 10/07/2020 to 11/07/2020.
8. Online Webinar on “Basic Spectral Graph Theory ” organised by Department of Mathematics, KLS Gogte Institute of Technology, Belagavi ,Karnataka from 03/07/2020 to 04/07/2020. [two days]
9. Online Two day International Webinar on “Recent Research Topics in Graph Theory” organised by MES Mampad College, Kerala from 20/05/2020 to 21/05/2020.

11. SWAYAM/NPTEL/COURSERA MOOCS COMPLETED

1. NPTEL: Completed 12 weeks course “DISCRETE MATHEMATICS” on the Swayam Portal organised by IIT Ropar , IIT Gandhinagar during Jul-Oct 2021 semester with a score of 72%.
2. NPTEL: Completed 12 weeks course “TRANSFORM CALCULUS AND ITS APPLICATIONS IN DIFFERENTIAL EQUATIONS” on the Swayam Portal organised by IIT, Kharagpur during Jan-Apr 2020 semester , with Examination held during December 2020 with a score of 83%.
3. COURSERA: Three weeks online non-credit course on “Classical Cryptosystems and Core concepts” authorized by the University of Colorado System and offered through **Coursera** from 04-08-2020 to 25-8-2020 .
4. COURSERA: Four weeks online non-credit course on “Welcome to Game Theory” authorized by the University of Tokyo and offered through **Coursera** from 29/04/2020 to 29/05/2020.
