

# CURRICULUM-VITAE

## Dr. SVB Subrahmanyeswara Rao

M.Sc., Ph.D. (Mathematics)

Mobile: +91 9908384949, +91 9441137788

E-mail : manyam4463@gmail.com

ORCID ID: <https://orcid.org/0000-0001-8697-1702>

SCOPUS ID: <https://www.scopus.com/authid/detail.uri?authorId=59969900900>



### Educational Career:

| Qualification | Discipline / Subjects  | Institute                            | University / Board                   | Year of pass |
|---------------|--|--------------------------------------|--------------------------------------|--------------|
| PhD           | Mathematics (Algebra)  | Acharya Nagarjuna University, Guntur | Acharya Nagarjuna University, Guntur | 2013         |
| M.Sc.,        | Mathematics  | ANR College, Gudivada                | Acharya Nagarjuna University, Guntur | 2000         |
| B.Sc.,        | Mathematics, Physics, Chemistry                              | ANR College, Gudivada                | Acharya Nagarjuna University, Guntur | 1998         |
| Intermediate  | Mathematics, Physics, Chemistry                              | PRSM National Jr.College, Vijayawada | Board of Intermediate Education      | 1995         |
| SSC           | Mathematics, General Science ,Social Studies, English, Hindi | ZP High School, Guraza               | Board of Secondary Education         | 1993         |

### Details of my Ph.D. Thesis:

**TITLE:** Theory of Po- $\Gamma$  – ideals and Po- $\Gamma$  – filters in Po- $\Gamma$  – semigroups.

### Experience Profile:

- Total Teaching experience: **24 years**
- Presently working as Professor in the Department of Mathematics at Ramachandra College of Engineering, Vaturlu, Eluru from **12-06-2017 to till date**.
- Worked as an Assoc. Professor of Mathematics at VKR, VNB & AGK College of Engineering, Gudivada from **05-06-2008 to 03-06-2017**
- Worked as a Probationary Clerk at Karur Vysya Bank Ltd., Visakhapatnam from **28-12-2007 to 24-07-2008**.
- Worked as a Lecturer in Department of Mathematics at BV Raju Institute of Computer Education, Bhimavaram from **07-06-2006 to 02-11-2007**.
- Worked as a Lecturer in PG Department of Mathematics at ANR College, Gudivada from **01-07-2000 to 30-04-2006**.

### **Research Papers published:**

1. Properties of Lattice ordered groups and  $\Gamma$  –Semigroups- **International Journal of Applied Physics and Mathematics**-Vol. 2 -2012
2. Partially Ordered  $\Gamma$ - Semigroups- Partially Ordered  $\Gamma$ - Semigroups- **International Journal of Engineering Research & Technology**- Vol.1 -2012
3. Po-  $\Gamma$ - ideals in Po-  $\Gamma$ - Semigroups-**IOSR Journal of Mathematics**- Vol.1 -2012
4. Po-  $\Gamma$ - Filters in Po-  $\Gamma$ - Semigroups-**International Journal of Mathematical Sciences, Technology and Humanities**-Vol. 2 -2012
5.  $\Gamma$ - Congruence and N-Classes in Po-  $\Gamma$ - Semigroups-**International e-Journal of Mathematics and Engineering**- Vol.4 -2013
6. Properties of Lattice ordered groups and Ordered  $\Gamma$ - Semigroups- **Research Journal of Pure Algebra**- Vol. 3 -2013
7. On Right Ternary  $\Gamma$ -ideals of Ternary  $\Gamma$ -Semiring- **International Journal of Research in Applied, Natural and Social Sciences**-Vol. 4 -2016
8. Properties of Right Strongly Prime Ternary Gamma Semirings- **IOSR Journal of Mathematics**-Vol. 12 -2016
9. An Approach to Public-Key Cryptography using Diffie - Hellman Key Exchange Algorithm- **International Journal for Research in Engineering, Application & Management**- Vol. 3 -2017
10. Application of Euler's Theorem: The RSA Cryptosystem- **International Journal of Advanced Research Trends in Engineering and Technology**- Vol. 4 -2017
11. A Descriptive Study of 2-D, 3-D Graphics and Transformations- **International Journal for Science and Advance Research in Technology**- Vol. 4 -2018
12. On Cayley-Symmetric  $\Gamma$ - Semigroups- **International Journal for Research in Engineering Application and Management**- Vol. 4 -2019
13. A Study on Teaching Mathematics to Engineering Students- **International Journal of Scientific Research and Reviews**- Vol. 8 -2019
14. Properties of Fuzzy Magnified- $\alpha$ - Translation on PS-Algebras- **International Journal for Innovative Engineering and Management Research (Elsevier SSRN)**, Vol. 8 -2019
15. Fuzzy Logic-Its Contributions to Daily Life- **International Journal of Management, Technology and Engineering**- Vol.9 -2019
16. Development of Vague Soft Set Theory in the field of Decision Making- **Alochana Chakra Journal (UGC care journal)**-Vol. 9 -2020
17. Soft Set Application in Decision Making Problem: Covid-19 pandemic- **Alochana Chakra Journal (UGC care journal)**-Vol. 9 -2020
18. Dynamic Network Load Balancing In Large Scale Multimedia Systems- **Alochana Chakra Journal (UGC care journal)**-Vol. 9 -2020
19. An Implementation of Deep Learning and Super Resolution Imaging after Image Inpainting for Image Quality Enhancement- **International Journal of Advanced Science and Technology (Scopus)**- Vol. 29 -2020
20. On Anti-Fuzzy ideals in Subtraction Semi groups- **Journal of Critical Reviews (Scopus)**-Vol. 7 -2020
21. Properties and Characteristics of  $\Gamma$ - Soft set in solving decision making problems- **Solid State Technology (Scopus)**- Vol. 63 -2020
22. Fuzzy Semi Groups- **Journal of Positive School Psychology (Scopus)**- Vol. 6-2022
23. Soft Set Theory in Decision Making Problems- **Mukt Shabd Journal (UGC care journal)**- Vol. XI-2022
24. Fractional Calculus and its Applications-**Journal of Positive School psychology (Scopus)**-Vol.6 -2022
25. Applications of  $\Gamma$ (Gamma)- Fuzzy Soft Set in Multi-Criteria Decision Making- **Journal of Information Systems Engineering and Management (Scopus)**- Vol. 10 -2025
26. Solar and battery input super boost DC– DC converter for solar powered electric vehicle- **International Journal of Applied Power Engineering (Scopus)**- Vol. 14 -2025

**Achievements:**

- Received ‘Employee Appreciation Award’ for 4 consecutive years from ‘VKR, VNB & AGK College of Engineering’, Gudivada.
- Acted as Board of Studies member for VSR & NVR College, Tenali.
- Acting as Board of Studies member for ANR College (Autonomous), Gudivada.

**Awards:**

- Received Best Teacher of the Year Excellence in Teaching Award from ‘Council for Skills and Competencies (CSC), Registered with NITI Aayog, Govt.of India.
- Received Swami Vivekananda International Pride Achievers Award from WELRED Foundation, Recognized by Ministry of Corporate Affairs, NITI Aayog, Delhi NCT, MSME, Govt.of India

**Details of Book publications:**

- Published a book titled ‘Theory of Po- $\Gamma$ -Ideals and Po- $\Gamma$ -Filters in Po- $\Gamma$ -semigroups’, ISBN (978-620-2-51914-4), Lambert Academic Publishing, 2020.
- Published a book titled ‘A Text Book on Engineering Mathematics-I’, ISBN (978-620-2-51769-0), Lambert Academic Publishing, 2020.
- Published a book titled ‘Mathematical Logic and Combinatorics’, ISBN (978-620-2-52518-3), Lambert Academic Publishing, 2020.
- Published a book titled ‘Structure and Theory of Ternary Ideals in Ternary Semi-Rings’, ISBN (978-620-2802000), Lambert Academic Publishing, 2020.
- Published a book titled ‘Advanced Data Structures’, ISBN (978-93-5659-069-4), Immortal Publications, 2022.
- Published a book titled ‘Practical Probability and Statistics: Tools for Data Science’, ISBN (978-93-6135-021-4), Akinik Publications, 2024.

**Details of Book Chapter publications:**

- Published book chapter titled “Partial Differential Equations’ of published book entitled ‘Research Trends in Mathematics and Statistics (Volume-23) having ISBN 978-93-5570-903-5, Akinik Publications, 2023.
- Published book chapter titled “Probability Distributions’ of published book entitled ‘Research Trends in Mathematics and Statistics (Volume-23) having ISBN 978-93-6135-356-7, Akinik Publications, 2024.
- Acceptance letter received for book chapter titled “Advancements in Chemical Graph Theory’ of book entitled ‘Advances in Mathematical Optimization for Computing and Data Science, (Volume-1), Akinik Publications,2025.
- Acceptance letter received for book chapter titled “Digital Signal Processing: Principles, Techniques and Applications’ of book entitled ‘Advances in Electronics and Communication Engineering (Volume-8), Akinik Publications, 2025.
- Acceptance letter received for book chapter titled “Classical Cryptographic Techniques and their Limitations’ of book entitled ‘Advances in Computer Science (Volume-29), Akinik Publications, 2026.
- Published book chapter titled “Foundations and Architectures of Generative AI Models’ of published book entitled ‘The Generative Revolution: How AI is Transforming Creativity, Innovation and Intelligence having ISBN 978-81-993404-6-6, The Institute for Innovations in Engineering and Technology, 2026

**Details of Patent publications:**

| S.No. | Patent Number | Title of Patent   | Publication Date |
|-------|---------------|---|------------------|
| 1.    | 2021101292    | An Novel method for empowering edge computing for source allocation based learning for industrial IoT       | 12-03-2021       |
| 2.    | 202241022515  | Breath Analyzer to detect Consumption of Alcohol using digital Nose   | 06-05-2022       |
| 3.    | 202441059832  | Water Wave Optimization Algorithm based Deep Learning Model for Detection and Classification of Skin Cancer | 16-08-2024       |
| 4.    | 202541048014  | An IoT and ML- based system for Real-Time Road Condition Monitoring and Maintenance Scheduling              | 06-06-2025       |
| 5.    | 202541114671  | Predictive Modelling System for Population Dynamics Using Mathematical Models                               | 05-12-2025       |
| 6.    | 202541126061  | Method and System for Solving Non-Linear Equations using Advanced Numerical Methods                         | 02-01-2026       |

**Details of Sanctioned Funding Project Proposals:**

| S.No. | Project Title       | Project Cost | Funding Agency                                     |
|-------|---------------------|--------------|--|
| 1     | TEDP<br>( as Co-PI) | 3,00,000     | DST<br>( Project approved, but funds not released) |

**Details of NPTEL Courses completed:**

1. Completed 8-week course '**Matrix Analysis with Applications**', during Jul-Sep 2023 with **Elite** certification.
2. Completed 12-week course '**Engineering Mathematics-I**', during Jul-Oct 2023, with **Elite** certification.
3. Completed 12-week course '**Essential Mathematics for Machine Learning**', during Jul-Oct 2024.
4. Completed 12-week course '**Advanced Engineering Mathematics**', during Jul-Oct 2025

**Guest Lectures:**

- Handled classes at Krishna University, Machilipatnam to I MCA students on 01-11-2008 and 02-11-2008
- Delivered guest lecture at Akkineni Nageswara Rao College (Autonomous), Gudivada to PG students on the topic 'Topology' on 03-11-2017
- Delivered guest lecture at KBN College (Autonomous), Vijayawada to UG students on the topic 'Applications of Real Analysis' on 26-11-2021

### **Editorial Board Memberships / Reviewer:**

- Peer-Reviewer for the SCI-E journal '**Turkish Journal of Mathematics**'
- Peer-Reviewer for the journal '**Applied Mathematics & Information Sciences**', Natural Sciences Publishing, USA
- Review Board Member of the Journal '**International Journal of Engineering Research and Technology (IJERT)**', Reviewer / Membership ID: IJERTREW6042
- Editorial Board Member of '**Pure and Applied Mathematics Journal(PAMJ)**' ISSN Print: 2326-9790; ISSN Online: 2326-9812 from May 13, 2024 to May 13, 2027
- Editorial Board Member of '**International Journal of Discrete Mathematics (DMATH)**'

### **Administrative Experience:**

- Working as Head of the Freshmen Engineering Department from 01-10-2020 to till date at Ramachandra College of Engineering, Eluru
- Worked as Examination Section In-charge from 01-10-2018 to 30-09-2020 at Ramachandra College of Engineering, Eluru
- Worked as Examination Section In-charge and Chief Superintendent from 05-06-2008 to 03-06-2017 at VKR, VNB & AGK College of Engineering, Gudivada

### **Workshops / Faculty Development Programs / Seminars / Conferences:**

- No. of workshops attended: **15**
- No. of FDPs attended: **17**
- No. of Seminars attended: **07**
- No. of Conferences attended: **05**
- No. of Conferences Conducted: **01**

### **Courses handled:**

Engineering Mathematics – I, Engineering Mathematics – II, Engineering Mathematics – III, Mathematical Methods, Mathematical Foundations of Computer Science, Discrete Mathematical Structures, Numerical Analysis, Complex Analysis, Coding Theory, Probability and Statistics, Operations Research, Business Statistics and Logic

### **Personal Traits:**

Possesses good communication skills and leadership qualities, highly motivated, ability to work amicably with colleagues as well as superiors, self-confident and strong belief in completing the assigned work successfully.

**Professional Memberships:**

- Life Member of Indian Society for Technical Education (ISTE), M.No. LM136602, Since 2023
- Life member of 'Indian Academic Researchers Association(IARA)', Membership No.231/2020
- Life member of the "Association for Improvement of Mathematics Education (AIMEd), Enrolment No.176
- Member of 'International Association of Engineers(IAENG)', Member Number: 259808
- Member of 'International Association of Engineers(IAENG) Society of Operations Research', Member Number: 259808, Since January 14, 2026.
- Member of 'The Institute of Research Engineers and Doctors (IREDA-AM101000584267)
- Member of 'Institute for Engineering Research and Publication (IFERP-PMIN90782145)

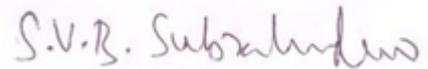
**Personal Details:**

Name : Dr. SVB Subrahmanyeswara Rao  
Father's Name : SVSR Anjaneya Das  
Nationality : Indian  
Gender : Male  
Date of Birth : 15-07-1978  
Languages Known : Telugu, English and Hindi.  
Present Address : D.No.48-112/5, Sri Lakshmi  
Nilayam Sakhamuri Sivaiah  
Street,  
Currency Nagar, 5<sup>th</sup> Line, VIJAYAWADA-520 008.  
NTR District, Andhra Pradesh.  
Permanent Address : D.No.20/212-2, Satan Bazaar, Bethavolu, GUDIVADA-521  
301  
Krishna District, Andhra Pradesh.

**Declaration:**

I certify that, the above information is correct and complete to the best of my knowledge.

Date: 20.02.2026



Place: Vijayawada

**(Dr. SVB Subrahmanyeswara Rao)**