

**RAMAKRISHNA MISSION VIVEKANANDA COLLEGE  
MYLAPORE, CHENNAI 600 004**

**DEPARTMENT OF CHEMISTRY**

**FACULTY PROFILE**



1. **Name** : **Dr. S.Muthukumaran**
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  3. **Educational qualification** : **MSc., M.Phil., Ph.D., PGDCA.**
  4. **Teaching experience (years)** : **11 Years**
  5. **Specialization** : **Inorganic Chemistry**
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  8. **Achievements/Awards**
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- (Radio/TV/Other programs)**

Resource person for Tamil Nadu PG  
Teachers orientation programs in  
Various Schools.

### Books Authored:

1. Textbook of Chemistry for Higher Secondary- Second year (English Medium) 2005 Volume-I-Tamilnadu Textbook Corporation.
2. Textbook of Chemistry for Higher Secondary- Second year (Tamil Medium) 2005 Volume-I-Tamilnadu Textbook Corporation.
3. Textbook of Chemistry for Higher Secondary- Second year (English Medium) 2005 Volume-II-Tamilnadu Textbook Corporation.
4. Textbook of Chemistry for Higher Secondary- Second year (Tamil Medium) 2005 Volume-II-Tamilnadu Textbook Corporation.
5. Practical Chemistry book for IX standard (English & Tamil Medium) 2005 -Tamilnadu Textbook Corporation.
6. Practical Chemistry book for X standard (English & Tamil Medium) 2005 -Tamilnadu Textbook Corporation.
7. Practical Chemistry book for XI standard (English & Tamil Medium) 2005 -Tamilnadu Textbook Corporation.

### LIST OF PUBLICATIONS

1. Synthesis and Reactivity of quadridentate Schiff Base chelates of lanthanide(III)ions", Dr.V.Balasubramanian, R.Nanthini, **S. Muthukumar**, A. Ravi and N. Kathikeyan, Asian. J. Chem., 15, No.1, 139-143 (2003).
2. Reactivity of Quadridentate Schiff Base chelates of Nickel (II) and Copper (II) ions, Dr.V.Balasubramanian, R.Nanthini, **S. Muthukumar**, A. Ravi and N. Karthikeyan, Asian, J. Chem., 15, No.1, 126-132 (2003).
3. "Kinetics of Manganese (III) oxidation of Anisic Acids and Alcohols", Dr.V.Balasubramainain, **S.Muthukumar**, A. Loganayagi and N. Karthikeyan, Asian. J. Chem. Vol.13, No.4, 1279-1282 (2001).
4. "Studies of Acoustical parameters on Rose Bengal, Brilliant congo and diamine fast Scarlet", Dr. V. Balasubramanian, **S.Muthukumar** and K.O. Lilly, Asian, J. Chem. Vol. 17. No.1, 2005 .

5. "Spectral and CV Studies on certain dyes and metallodyes", Dr. V. Balasubramanian, **S. Muthukumar** and K.O. Lilly, Asian, J. Chem. Vol.17, No.1 2005.

#### PAPERS PRESENTED IN CONFERENCES

6. "Reactivity of coordinated- $\beta$  -ketoiminates of iron (III) complexes". Dr. V. Balasubramanian, **S.Muthukumar** and N. Karthikeyan. National symposium on recent advances in chemistry, REC, Trichy OP -30, 1998.
7. "Iodination, Bromination and Isocyanation reactions -  $\beta$  -diketones of Lanthanum(III), Cerium(IV), Thorium(IV) and uranylacetylacetonates" Dr.V.Balasubramanian, **S.Muthukumar**, N.Karthikeyan and M.Merlin, National symposium on metallo organic chelates and recent advances in chemistry, Presidency College, Chennai, IP-19, 2001.

#### PAPERS ACCEPTED IN INTERNATIONAL CONFERENCE ON SPECTROPHYSICS AT PACHAYAPPA'S COLLEGE, CHENNAI – 30, INDIA – FEB 9-12, 2005

8. "Cyclic voltametric studies on scarlet red, purpurin and orange G" Dr.V.Balasubramanian, **S.Muthukumar**, R.Nanthini and A. Ravi.
9. "Ultrasonic studies on certain dyes and metallo dyes". Dr. V. Balasubramanian, **S.Muthukumar**, R. Nanthini and A. Ravi.
10. Synthesis and spectral studies of morin and its Cu(II) complexes. Dr. V. Balasubramanian, **S. Muthukumar** and R. Nanthini.
11. "Synthesis and spectral studies on polyamine bridged tetra dentate schiff base complexes of copper(II) and Nickel(II)", Dr.V. Balasubramanian, **S. Muthukumar** and K.O.Lilly.
12. "Acoustical Parameter of some Narcotics", Dr.V. Balasubramanian, **S. Muthukumar**, R. Nanthini and K.O. Lilly.
13. "Spectral studies on dithioacetylacetonates of some transition M(II) and M(III) ions", Dr.V.Balasubramanian, **S.Muthukumar**, M.Merlin and I.Rosekumari.
14. "IR and <sup>1</sup>HNMR studies of monothioacetylacetonates of Ni(II), Cu(II) and Zn(II)" Dr. V. Balasubramanian, **S.Muthukumar**, M. Merlin and I. Rosekumari.