**Department of Applied Chemistry**

**Research Activity Report (July 2016 – December 2016)**

**Date: 03.02.2017**

Number of faculty in the Department : 10

Number of faculty with Ph D qualification : 9

Number of faculty pursuing Ph D : -

Number of part time Research scholars : 10

Number of part time student awarded Ph.D : -

Research activities of the faculty members:

**A). Papers published by the faculty members in National and International Journals: (6)**

G Baskar, J B Veeramalini, V Narayanan and N Umayambika, "Rigorous mathematical approaches to piperdone derivatives based on conceptual analysis of Complete Tripartite Graph K1,2,mU{e} accepts Continuous Monotonic Decomposition", Global Journal of Pure and Applied Mathematics,Volume12,April2(2016),75-79.  
  
G Baskar, V Narayanan, R Manimaran and J B Veeramalini "Correlation of piperdone derivatives with Complete Tripartite Graph accepting Continuous Monotonic Decomposition", Global Journal of Pure and Applied Mathematics, Volume 12, April 2(2016), 70-73.  
  
G Baskar,R Manimaran, V Narayanani and B Veeramalini "Graph theoritical analysis of piperdonederivatives with Complete Tripartite Graph K4,m,n doesnot accepting Complete Monotonic Decomposition ", Global Journal of Pure and Applied Mathematics, Volume 12, April 2(2016), 414-417.  
G Baskar and J B Veeramalini, “Cyclic Voltametric study of “N-Hydroxy-3,5-dimethyl-2,6-bis(p-methylphenyl)piperidin-4-one semicarbazone and the antibacterial studies of the product” Journal of advances in chemistry, Volume 13, No 3, p688.

G Baskar,R,V Narayanani and B Veeramalini “ Complete tripartite graph accepting continuous monotonic decomposition theorem for evaluation routing of reaction mechanism of piperidone derivatives with different colour mobility of graph labeling” Applied mathematics and information sciences, Volume 11,No.2, p1-4 (2017)

S.Stanly, K.Thenmozhi, T.Adinaveen, J.Suresh “ Visible light induced photocatalytic degradation of azo dye by Bi2O3 nanoparticles synthesized using greener route”International Journal of Scientific & Engineering Research , Volume 7, Issue 8, August - 2016

**B). Papers presented by the faculty members in National and International conferences/ symposiums/ workshops: (2)**

Dr.S.Stanly presented a paper in the international conference on “Chemistry of Biomolecules – Current Trends and future perspectives” organized by the PG & Research Department of Chemistry, Holy Cross college , Tiruchirapalli in collaboration with Department of Biochemistry, School of Biological Science, Madurai Kamaraj University on 27th and 28th July, 2016.

Dr.G.Baskar and J.B.Veeramalini have presented a paper titled “ Elucidaton of irreversible reduction wave of some alkyl substituted piperidone derivatives “ in 3rd international Conference on Bioenergy and sustainable technologies organized by Arunai Engineering college during 23 - 25 January 2017.

**C) National and International conferences/ symposiums/ workshops attended by Faculty: (6)**

Dr.G.Devasagayam and Dr.N.Nachiappan have participated in a short – term course on “Physical Chemistry” under the quality improvement programme of All india Council for Technical Education, New Delhi conducted during 26 – 30 december 2016 at Centre for continuing education, IISc., Bengaluru.

Dr.R.Raja has attended One day national level workshop on “Materials synthesis and its characterization” organized by the Department of Physics in association with IAPT on 17th September, 2016.

Dr.R.Raja has attended the National conference graphenes & Liquid crystals on smart nano – engineering Applications 2016, held at Saveetha Engineering College during Nov. 7-9, 2016

Dr.G.Baskar and Dr.M.Thirumalaikumar attended five days short term course on "Nanomaterials : Characterizations and Applications" organized by NITTTR - Chandigarh during 21.11.2016 - 25.11.2016.

Dr.M.Thirumalaikumar participated in the two days Wokshop on "Green Approach to Chemistry Practicals" held on July 20 & 21, 2016 at Loyola Institute of Frontier Energy, Loyola College, Chennai.

Dr.S.Selvakumar

Dept. Research Coordinator

Dept. of Applied Chemistry,

Sri Venkateswara College of Engg.,