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Educational Qualification : M.Sc.,Ph.D

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No. of Students guided for Ph.D:

1. H.V.Ramakrishna — Awarded (2006)
2. S.Padma Priya — Awarded (2006)
3. S.D.Raviprakash — Awarded (2006)

4. *J.Gururaja Rao* — Awarded (2007)
5. Shetty Ravindra Rama— Awarded (2011)

No. of Students working for Ph.D.:05

List of Publications:

1. Polymerization of Acrylonitrile initiated by Mn (111) – Semicarbazide redox system: A Kinetic study, European Polymer Journal. Vol.34, No.7, PP 1031-1038 (1998) (S.K.Rai, B.S.Sherigara & N.M.M.Gowda).
2. Aqueous Polymerisation of acrylonitrile initiated by Mn(III) pyrophosphate – Thiocyanate redox system: A Kinetic study (S.K.Rai & B.S.Sherigara), Transition Met. Chem, (U.K), 20, 630-633(1995)
3. Kinetic and Mechanistic study of polymerization of acrylonitrile by Mn (111) – Glycine redox system. S.K.Rai & B.S.Sherigara. Eur. Polym.J., 36,1339(2000).

4. Polymerization of acrylonitrile by persulphate – Metabisulphite system catalysed Co^{3+} ion: A Kinetic study. (K.Shivakumar, S.K.Rai & B.S.Sherigara) J.T.R.Chem, 5(2)1-9(1998).
5. Aqueous Polymerization of acrylonitrile and methylmethacrylate by Ce(IV)-Glycine redox system catalysed by bromide ion: A Kinetic study (S.K.Rai, K.Shivakumar & B.S.Sherigara) Asian J.Chem., 11(4), 1369 (1999).
6. Electro synthesis of PAN initiated by the Mn(III)-Semicarbazide redox system (S.K.Rai, K.Shivakumar & B.S.Sherigara). J.T.R Chem., 6(1),55-61(1999).
7. Aqueous Polymerization of acrylonitrile by persulphate – disulphite redox system catalysed by Mn(ii) ion: A Kinetic study. S.K.Rai, K.Shivakumar & B.S.Sherigara) J.Indian Council of Chemists., 16(1), 29-32(1999).
8. Polymerisation of acrylonitrile initiated by the vanadium(v)-Potassium thiocyanate redox system: A Kinetic study. (S.K.Rai, K. Shivakumar & B.S.Sherigara) J.Indian Chem. Soc., Vol 79, March 2002, PP 1.
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12. Redox Polymerization: Kinetics of Polymerization of Acrylonitrile Initiated
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S.K.Rai, and A. Varadarajulu, J.Applied Polym.Sci,90,33-39(2003).

14. Polymers in concrete for 21st century., J.Development and Social
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T.Demappa,)J.Saudi Chem. Soc Vol.8 No.2, PP 339-344 (2004)

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and Epoxy Toughened with PMMA/Fly Ash Composites. Journal of Reinforced Plastics and
Composites, Vol No.24 No.12, 1269-1278, 2005.

18. Tensile, Flexural Properties of Unsaturated Polyester/Granite Powder and

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19 Performance of Granite powder and Flash/unsaturated polyester composites on
compression, Impact, Water absorption and chemical resistance properties.

(Paper is accepted in Journal of Reinforced Plastics and Composites).

20. "Study on the Mechanical and Water absorption Properties of Granite powder/Epoxy
toughened with PMMA and Flyash/Epoxy Toughened with PMMA Composites",

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Compression, Impact, water absorption and Chemical Resistance Properties"
H.V.Ramakrishna, S.K.Rai, Journal of Reinforced Plastics and Composites. **(Accepted)**

25. "Utilization of Flyash as Filler for Polybuteleneterephthalate Toughened Epoxy Resin",
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28. “Effect of Flyash Content on Tensile, Flexural, Morphology and Chemical Resistance of Epoxy Phenol Cashew Nut Shell Liquid Toughened Epoxy Filled with Flyash Composites”, H.V.Ramakrishna, S.PadmaPriya, S.K.Rai, Journal of Elastomers and Plastics. **(Communicated)**
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33. “Studies on Tensile properties and Chemical resistance of Glassmat/Epoxy toughened with Epoxy Phenol CNSL composites” **Padma Priya S., Ramakrishna H.V., Rai S. K., Varada rajulu A., J. Reinf. Plast. & Comp., Accepted** in press.
34. “Studies on the mechanical performance of PMMA toughened Epoxy / Silk and PC toughened Epoxy / Silk fabric composites” **Padma Priya S., Rai S. K., J. Reinf. Plast. & Comp., Accepted**, in press.
35. “Utilization of Waste Silk fabric as reinforcement for Acrylonitrile Butadiene Styrene Epoxy toughened epoxy matrix” Rai S. K., **Padma Priya S., J. Reinf. Plast. & Comp., Accepted**, in press.
36. “Utilization of Waste Silk Fabric as Reinforcement in Epoxy Phenol Cashew Nut Shell Liquid Toughened Epoxy Resin: Studies on Mechanical Properties” **Padma Priya S., Ramakrishna H.V., Rai S. K., Journal of Composite Materials., Accepted**, in press
37. “Utilization of Biofiber / Glass as hybrid reinforcement in Unsaturated Polyester toughened Epoxy resin: Studies on Mechanical properties” (The manuscript is received for revision from Journal of Applied Polymer Science **The Paper is accepted in journal of applied Polymer Science.**
38. “Studies on the Mechanical properties of Unsaturated Polyester toughened Epoxy / Silk Composites” **Communicated to International Journal of Polymer Materials)**
39. “Utilization of Biofiber / Glass as hybrid reinforcement in Acrylonitrile Butadiene Styrene toughened Epoxy resin: Studies on Mechanical properties” **(Communicated to Journal of Elastomers and Plastics)**

40. Utilization of waste Silk fabric and Glass fabric as hybrid reinforcement for epoxy matrix: Studies on Mechanical and Chemical resistance properties” (**Communicated to Journal of Industrial Textiles**)
41. “Utilization of Biofiber / Glass as hybrid reinforcement in Polycarbonate toughened Epoxy resin: Studies on Mechanical properties” (**Communicated to Journal of Thermoplastic composites**)
42. “SEM Observations on the origins of fracture of waste silk fabric reinforced epoxy based composites” (**Communicated to Journal of Reinforced Plastics and Composites**)
43. “Miscibility Studies on Sodium Alginate/Polyethylene Glycol Blend in Solution by Refractive Index, Ultrasonic Velocity, Density and Viscometric Methods”. S.D.Ravi Prakash and S.K.Rai, International Journal of Plastics Technology, Volume 8 / No.2 / December 2004.
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