



An ISO 9001:2015 Certified Institution

Approved by AICTE New Delhi | Affiliated to Anna University, Chennai
90, Ushaa Garden, Kannigaipair, Chennai - Periyapalayam Highway, Tiruvallur, TN 601102.

Tel: 044-27629613 / 9600057121, E-mail: info@jnn.edu.in, www.jnn.edu.in

PROJECT CONSULTANCY WORK

- Title of the project work : Synthesis of Co-TiO₂ compound particle for the Preparation of Electromagnetic interference Shielding Composite Material
- Year of award : 2018-2019
- Granting Agency : M/s Metro Composites Research and Development Centre
Chennai- 66
- Total Grant Received : Rs 5000
- Project Duration : 3 Months
- Principal Investigator : 1.Dr. G.Gunasekaran, M.E.,Ph.D.,
Professor,
Department of Computer science and Engineering,
J.N.N Institute of Engineering,
- 2.Mr. R Manivannan, B.Sc.,M.Sc.,
Assistant Professor,
Department of Chemistry,
J.N.N Institute of Engineering,
- Work Details : The TiO₂ and Co particles of 25 g were mixed and ball milled in planetary ball mill for 4 h. The ball material used was WC with a ball diameter of 10 mm. The mill was set with a rotating rpm of 250 throughout the process. The powder weight to ball weight ratio was maintained at 1:15. The ball mill jar was made up of stainless steel and coated with rubber material to avoid abrasion of the parent material. A small quantity of powder sample at the end of milling was collected for further characterization.