**Abstract**

 Graphene is a flat monolayer of carbon atoms with sp2-hybridized two-dimensional carbon structure. Graphene’s fascinating high conductivity, superior electron mobility, extremely high specific surface area and easy functionalization make graphene a good substrate to yield graphene-based nanocomposites. Metal oxides nanomaterials have considerable attention due to their unique properties that can be used for designing advanced nanodevices. Thus, in the present study metal oxide nanoparticles embellished graphene oxide nanosheets (GNs) is synthesized and characterized. The graphene oxide nanosheets are produced by modified Hummer’s method. The metal oxide nanoparticles are loaded on the synthesized graphene oxide nanosheets via chemical reduction method. The metal oxide nanoparticles embellished graphene oxide nanosheets are characterized using Fourier transform infrared spectroscopy (FT-IR), X-Ray diffraction analysis and Field emission scanning electron microscopy (FE-SEM). The structural properties of the synthesized nanocomposites are characterized using X-Ray diffraction analysis and the result confirms that the synthesized nanocomposites are well crystalline. The morphology of synthesized nanocomposites is analyzed using field emission scanning electron microscopy analysis.