

## **Department of Physics, NIT Warangal DST– FIST Project Details**

The department has been sanctioned **Rs.2.75 Crore** from Department of Science and Technology (DST) under “Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (DST-FIST)” Scheme in January, 2020. The duration of the project is five years (2020 – 2025).

The grant sanctioned by the DST is to procure two sophisticated equipment’s namely

(I) Powder x-ray diffractometer (XRD)

(II) Field emission scanning electron microscope (FE-SEM)

The main object of this project is to establish the research facilities to cater the needs of the department of physics and other departments of the Institute as well as to carry out the research in the emerging areas of physics. These two equipments are essential to carryout research and development in the following areas but not limited such as Materials science, Nano Composites, Photonic Sensors, Photonic crystals, Bio glasses and glass ceramics, Biomaterials, Organic Semiconductors, Nanomaterials; Luminescence, Carbon Nanotubes, 2D materials, Dye, Sensitized Solar Cells, Photoinduced Phase Transitions, Microfluidics, Confinement Effects, Energy Harvesting, Energy Storage, etc., The Department of Physics own splendid facilities and advanced equipments for the students during their course of study.