

**VISIT AT INUP IIT BOMBAY TO CARRY OUT PROJECT WORK (09
MAY 16 TO 25 MAY 16)**

Mr. Sumit Kumar, Assistant Professor, ECE Department visited IIT Bombay for seventeen days to execute the sanctioned project work from **09 May 16 to 25 May 2016**, as a **Principle Investigator (PI)**. The whole work was progressed in the **Organic Electronics Lab, Bio-sensors & Material Characterization Labs of CEN, IIT Bombay** and divided into three slots. In first slot, synthesized TiO_2 NPs was used for making its hybrid along with MEHPPV & P3HT (both are conducting Polymers & as it is procured from Sigma Aldrich). In the second slot, Graphene Oxide samples were taken and reduced further with the help of L-Ascorbic Acid (L-AA) in various proportions to obtain (single & few layers) reduced graphene oxide i.e. rGO to make it more viable for electronic applications. In the third slot, the nanocomposites of GO & rGO with polymer (MEHPPV & P3HT) were prepared in various proportions and the same were tested.



**Cleaning of samples at Chemical Wet Bench
before sample characterization**



**rGO (L) sample prepared using L-AA from GO
(R) at Organic Electronics Lab**