SARDAR PATEL UNIVERSITY

Programme & Subject: M.Sc (Nano Science & Nano Technology) Semester: III

Syllabus with Effect from: June - 2013

| Paper Code: PS03CNST04 | Total Credit: 4 |
|---|-----------------|
| Title Of Paper: Practical – I (List Of Experiments) | Total Cicuit. 4 |

| | Description in detail | Weightage (%) |
|---|--|---------------|
| 1 | Synthesis of Nanoarticles by Chemical and Ball Milling Methods | |
| | Metal particles - Cu | |
| | Ag | |
| | Ceramics - SiO2 | |
| | Semiconductor ZnO2 | |
| | Carbon Nanotubes | |
| 2 | Characterisation | |
| | UV-Vis Spectophotometry | |
| | SEM | |
| 3 | Corrosion | 100% |
| | Zinc and Al in acid and base | |
| | Anodization of Aluminium and its corrosion studies | |
| 4 | Flame photometry | |
| | Estimation of Na+ ion | |
| | Estimation of K+ ion | |
| 5 | Gas chromatography | |
| 6 | Particle size distribution | |
| 7 | Specific Gravity of Powder sample | |
| 8 | FTIR | |

