

Industrial Biotechnology Training
Nanobiotechnology (Standard)
Session 2021-2022

Module content
Introduction and Instrumentation
Introduction to nanobiotechnology & Polymeric nanoparticle synthesis - Introduction and preparation
PLGA-PVA nanoparticles characterization- synthesis
Metal NPs introduction (Chemical & green synthesis) - Introduction and preparation
Metal-NPs synthesis (chemical) + UV –VIS Characterization
NPs synthesis (Green synthesis) -introduction + grind leaves and add methanol to dry leaves and keep for 2 days at room temperature
NPs synthesis using plants- estimation of total phenolic content using FC reagent
Antioxidant activity
NPs synthesis using plants
UV –VIS Characterization
Antibiotic susceptibility test – introduction and preparation
Performing AST
Result Interpretation