

# About us

## Research Activities:

1. Synthesis of metallic and magnetic nanoparticles
2. Synthesis of magnetic nano rods
3. Investigation of surface plasmon resonance phenomena
4. Design, fabrication and characterization of multilayered magnetoplasmonic structures
5. Fabrication and characterization of thin plasmonic layers
6. Magneto-optical isolators
7. Photonic and magneto-photonic crystals
8. Design and fabrication of microwave filters
9. Measurement of spectral magneto-optical response in Kerr and Faraday geometries
10. Design of all optical gates based on photonic crystals
11. Design of all optical gates based on nonlinear waveguides