

# 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. Neuro-plasmonics
6. Plexitonics
7. Fabrication and characterization of thin plasmonic layers
8. Magneto-optical isolators
9. Photonic and magneto-photonic crystals
10. Design and fabrication of microwave filters
11. Measurement of spectral magneto-optical response in Kerr and Faraday geometries
12. Design of all optical gates based on photonic crystals
13. Design of all optical gates based on nonlinear waveguides