Objective of the Present Work:

The work is proposed with the following aspects:

1) Synthesis of materials like polyanilene (PANI) doped with various percentage of dopants
   (a) Elements like Cd, Ni, Ce, Nb etc. and
   (b) Organic materials like carbon nanotubes (CNT) etc.

2) Synthesis of materials like polypyrrole (PPy) doped with Cd, Ce etc.

3) Copolymers of PANI-PPy doped with Cd, Ce etc.

4) Characterization of these materials by NMR, IR spectroscopy, powder X-ray diffraction (XRD) analyses and UV-Vis absorption spectroscopy.

5) Evaluation of their properties like electrical conductivity and microwave absorption capacity and their plausible application for the electronic and microwave absorbing devices.