

# **Structural, Mechanical and Gas Barrier Properties of Poly(ethylene terephthalate) Nanohybrids and E-waste Utilization**



**Thesis submitted in partial fulfillment  
for the Award of Degree**

**Doctor of Philosophy**

**By**

**Dipti Saxena**

**School of Materials Science & Technology  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005, India**

**Roll no- 15111002**

**2021**