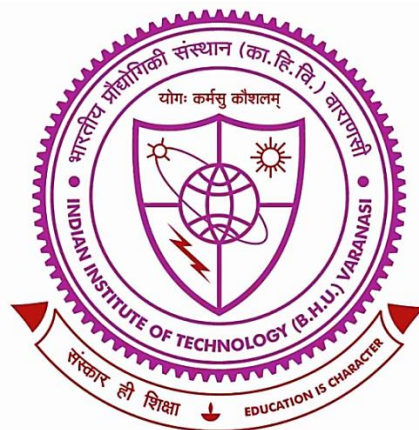


# Functional trialkoxysilane mediated rapid synthesis of noble metal nanoparticles and their multimetallic analogues for catalytic applications



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**DOCTOR OF PHILOSOPHY**

By

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