



National Institute of Technology Rourkela

Upon the recommendation of the Senate,
hereby confers the degree of

Doctor of Philosophy

on

Mukesh Kumar Singh

who has successfully defended the thesis entitled
*“Navigational Path Analysis of Mobile Robot in
Various Environment”*

and has fulfilled all other requirements
for the degree in the Department of
Mechanical Engineering

Given this day, under the seal of the Institute
at Rourkela in the Republic of India,
the 16th Day of January 2010.

Registrar

Director

Chairman
Board of Governors