


Sl. No	Particulars		
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3	PhD Thesis Title	Tool Condition Monitoring in Drilling using Thrust Torque, Tool-tip Temperature and AE Signals.	
4	Research guide Name	Dr. H. V. Ravindra	
	Department and Designation	Professor, Department of Mechanical Engineering	
5	Date of Registration for PhD	March 2005	
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6	Date of Award of PhD degree	July 2012	
7	<p><u>Brief synopsis</u></p> <p>The objective of the work is to develop automatic diagnostic tools to diagnose the condition of the cutting tool in drilling using thrust, torque, tool tip temperature and AE signals by signal analysis methods like Multiple Regression Analysis (MRA), Group Method of Data Handling (GMDH) and Pattern Recognition Techniques (PRT). The work has resulted in successful investigation of the measured signals that react to progressive tool wear and implementation of intelligent approaches like MRA, GMDH and PRTs for tool wear monitoring in drilling process.</p>		