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Guided By

PROF. RISHIKUMAR

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

**OPTIMIZATION OF SURFACE ROUGHNESS AND M.R.R. IN END
MILLING ON 20MNCR5 USING MULTI OBJECTIVE GENETIC
ALGORITHM METHOD**

Abstract:

Quality and productivity are the two important issues faced by any industry. In order to sustain in a competitive market, ensuring quality of the product at minimum cost is essential. The optimum of surface roughness is optimize by using response surface method. The experiments were carried out using milling machine. The experiment was run with 30 experiment test. All the data was analyzed by using Response Surface Method (RSM) and Multi Objective Genetic Algorithm (MOGA). The result have shown that the feed gave the more affect on the both prediction value of Ra compare to the cutting speed and depth of cut P-values is less than 0.05. From the prediction data that shown, the different between both software is smaller and the value is acceptable to get the optimum value of surface roughness.

Prepared By:

Sr. No.	Student Name	Enrollment No
1	JAY R. SONI	110780119116
2	DHAVAL J. SINDHAV	110780119084
3	DHAVAL D. PRAJAPATI	110780119085
4	MUKESH V. CHAUDHARY	110780119075

