

**A NOVEL MODEL FOR MOULDING PROCESS IN
FOUNDRY USING CAPACITIVE PROXIMITY SENSOR
(SPONSORED BY KSCST, BANGALORE)**

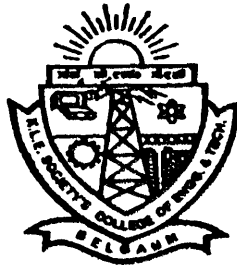
*A project report submitted in partial fulfillment of the requirement for the award of the
degree of Bachelor of Engineering in Electronics and Communication Engineering of the
Visvesvaraya Technological University, Belgaum*

Submitted by

Mr. Raghvendraprasad Deshpande	2KL07EE402
Mr. Siddalingeshwar Sangolli	2KL05EE037
Mr. Vishwanath Malage	2KL05EE045
Miss. Deepika Shenoy	2KL06EE005

Under the guidance of

Prof. S. M. Bani



Department of Electrical and Electronics Engineering

K.L.E Society's

COLLEGE OF ENGINEERING AND TECHNOLOGY

Udyambag, Belgaum-590008

(ISO 9001:2000 CERTIFIED INSTITUTE)

Visvesvaraya Technological University, Belgaum

2009-2010

Abstract

Founding has been used for shaping metals since the earliest days of civilization. A wide variety of sizes and shapes of simple and intricate nature can be produced in different metals. In foundries moulding process is used which a process of preparing cavities of suitable shapes is using patterns formed by manual operations or machines. Basically it is done in a mixing chamber. Two solenoid valves are used to control the mixing process. As valve is an electromechanical device there is every possibility that valve may fail and results in irregular mixture. In conventional system carried out in foundries there is no such device which detects the valve failure. In our approach we are using capacitive proximity sensors to detect the valve failure. Based on sensor output solenoid valves can be controlled by using microcontroller. This system can be effectively used in foundries to avoid irregular mixture and to control valves