**Preface**

**The project report on ‘ Microcontroller Based Monitoring System’ is written in partial fulfillment of the term work under the course of communication. Intercoms and calling bells have become a costlier option for communication between inmates and assisting staff. . The report contains all technical information about the basic of this project, its design and its working. The report is useful for student of electronics engineering.**

**It gives us great pleasure to express our sincere, hearty gratitude to Ms. Nargis Gangarekar, Department of Science and Hummanities, FAMT, for their kind interest, inspiring guidance, valuable advice, constant encouragement and help throughout the present report work. There is must thank Prof. G .G. Bhide, H.O.D. of Electronics Engineering Department for his constant encouragement and best support for the completion of this project. There are also thankful to our all the teachers and supporting staff members who have directly or indirectly helped us till now in our project progress.**

**ABSTRACT**

**‘Microcontroller Based Monitoring System’ is a simple and economical system. Intercoms or calling bells proves to be a costlier option for communication between inmates and the assisting staff. Since such a provision can be limited number of points in small hotels, small offices. The system provides an audio-visual identification of call point. This project proposes, monitoring system using Flash based microcontroller IC AT89C51. The system provides feedback to the caller in the form of busy signal. Using minimal hardware and software, it is a clean and easy way to communicate. This system can be also used in hospitals. When switch is pressed then corresponding call-point number is displayed on counter. The system is efficient, flexible and low cost. The system is advantageous in such a way that it saves time and efforts of a person.**