

**H.K.E. SOCIETY'S  
POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING  
(AUTONOMOUS INSTITUTION)  
GULBARGA – 585 102**



**A  
Project Report  
On**

## **“GSM BASED IRRIGATION SYSTEM”**

Submitted to the  
**POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING, GULBARGA  
(AUTONOMOUS INSTITUTION) Affiliated to VTU Belgaum**  
In Partial fulfillment of the requirement for the award of the Degree of

**BACHELOR OF ENGINEERING  
IN  
INSTRUMENTATION TECHNOLOGY**

Submitted by

<b>GIRIJA HATTI</b>	<b>(3PD08IT004)</b>
<b>HARIPRASAD</b>	<b>(3PD08IT005)</b>
<b>KANCHAN D.MALGE</b>	<b>(3PD08IT006)</b>
<b>KAVERI C.HONAGOND</b>	<b>(3PD08IT007)</b>

Under the Guidance of  
***Dr.Narendra Mustare***

**DEPARTMENT OF INSTRUMENTATION TECHNOLOGY  
POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING  
(AUTONOMOUS INSTITUTION)  
GULBARGA-585 102**

**2011-12**

## CONTENT

<b>Sl. No.</b>	<b>Title</b>	<b>Page No.</b>
	<b>ABSTRACT</b>	
<b>1.</b>	<b>INTRODUCTION</b>	<b>1-5</b>
<b>2.</b>	<b>BLOCK DIAGRAM</b>	<b>6</b>
<b>3.</b>	<b>LIST OF COMPONENTS USED</b>	<b>7</b>
<b>4.</b>	<b>CIRCUIT DESCRIPTION AND OPERATION</b>	<b>9-15</b>
<b>5.</b>	<b>DESCRIPTION OF MATERIALS USED</b>	<b>16-56</b>
5.1.	MICROCONTROLLER	
5.2.	COMMAND SET OVERVIEW	
5.3.	MAX 232	
5.4.	RELAY	
5.5.	TRANSFORMER	
5.6.	ADC	
5.7.	CLOCK GENERATOR	
5.8.	LED	
5.9.	DIODE	
5.10.	RESISTOR	
5.11.	CAPACITOR	
<b>6.</b>	<b>SOFTWARE CODING</b>	<b>57-76</b>
<b>7.</b>	<b>PCB LAYOUT</b>	<b>77</b>
<b>8.</b>	<b>CIRCUIT DIAGRAM</b>	<b>78</b>
<b>9.</b>	<b>ADVANTAGES</b>	<b>79</b>
<b>10.</b>	<b>CONCLUSION</b>	<b>80</b>
	<b>REFERENCES</b>	<b>81</b>
	<b>DATA SHEETS</b>	<b>82-108</b>