**COLLEGE NOTIFICATIONS BASED ON BLUETOOTH BEACONS**

*A Main Project submitted*

*in partial fulfillment of the requirements*

*for the award of the degree of*

**Submitted by**

**K.HEMANTH (11PA1A0531)**

**Y.MANOJ (11PA1A0555)**

**CH.MAHESH (11PA1A0510)**

**CH.KANAKARAJU (11PA1A0507)**

***Under the guidance of***

**CH.LAKSHMI VEENADHARI, M.Tech**

**Assistant Professor**

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada, Accredited By NBA)**

**BHIMAVARAM – 534 202**

**2011 – 2015**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada)**

**BHIMAVARAM-534202**

**2011-2015**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

****

**CERTIFICATE**

This is to certify that the project entitled “**College Notifications Based On Bluetooth Beacons**”, is being submitted by **K.Hemanth, Y.Manoj, CH.Mahesh, CH.Kanaka raju**, bearing the **REGD.NOS: 11PA1A0531**, **11PA1A0555, 11PA1A0510, 11PA1A0507** submitted in fulfilment for the award of the degree “**Bachelor of Technology in Computer Science And Engineering**” is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2013-2014 and it has been found worthy of acceptance according to the requirements of university.

**Internal Guide Head of the Department**

CH.Lakshmi Veenadhari, M.Tech Dr. Sumit Gupta,Ph.D

Assistant Professor. Professor.

**External Examiner**

**ACKNOWLEDGEMENT**

It is nature and inevitable that the thoughts and ideas of other people tend to drift in to the subconscious due to various human parameters, where one feels acknowledge the help and guidance derived from others. We acknowledge each of those who have contributed for the fulfilment of this project.

We take the opportunity to express our sincere gratitude to **Dr.D.Suryanaryana,** Director, Vishnu Institute of Technology**,** Bhimavaram whose guidance from time to time helped us to complete this project successfully.

We are very much thankful to **Dr. Sumit Gupta**, Head of the Department, Department of Computer Science And Engineering for his continuous and unrelenting support and guidance. We thank and acknowledge our gratitude to her for his valuable guidance and support expended to us right from the conception of the idea to the completion of this project.

We are very much thankful to **CH.Lakshmi Veenadhari**, Assistant Professor, and our internal guide whose guidance from time to time helped us to complete this project successfully.

**Project Associates**

**K.HEMANTH (11PA1A0531)**

**Y.MANOJ (11PA1A0555) CH.MAHESH (11PA1A0510) CH.KANAKARAJU (11PA1A0507)**

**ABSTRACT**

The proposed system is by using the Bluetooth Beacons, which pushes the notifications related to our college updates to our smart phones through Bluetooth. This completely replaces the college notice board because all the notices can be updated to the data base and can be notified to all the students by saving the time, energy, resources. In this way admin can directly reach to the students through this “college event notifier”.

“A Bluetooth Beacon notification sender system” notifies the information about college related details. The updated college information is send to the mobile phones as a notification type suggestion using Bluetooth Beacons technology.

All the details regarding the events, event details, event date, event venue, event time, exam schedules, time tables, departmental notifications, administration and exam cell notifications, any kind of college updates.

TABLE OF CONTENTS

S.No Page No

**1.**  **INTRODUCTION 1**

**2.** **SYSTEM ANALYSIS 2**

2.1 Existing system 2

2.2 Proposed system 2

2.3 Feasibility study 3

**3. SYSTEM REQUIREMENT SPECIFICATION 4**

3.1 Functional requirements 4

3.2 Non Functional Requirements 8

3.3 Software Requirements 9

3.4 Hardware Requirements 9

**4. TECHNOLOGIES USED 10**

**5.**  **SYSTEM DESIGN 26**

5.1 Introduction 26

5.2 Design Principles 26

5.3 UML Diagrams 27

5.4 ER Diagram 31

5.5 Database Design 33

**6. SOURCE CODE 40**

**7. SYSTEM TESTING 42**

7.1 Introduction 42

7.2 Testing Strategies 42

7.3 Test Cases 44

**8. SCREEN SHOTS 45**

**9.**  **CONCLUSION** **50**

**10. BIBLIOGRAPHY 51**

**LIST OF FIGURES**

S.No Page No

**1.** **Usecase Diagrams 28**

**2. Sequence Diagrams 29**

**3. Collaboration Diagrams 30**

**4. Class Diagram 31**

**5. ER Diagram 32**

**6. OutPut Screens 45**

**COLLEGE NOTIFICATIONS BASED ON BLUETOOTH BEACONS**

*A Main Project submitted*

*in partial fulfillment of the requirements*

*for the award of the degree of*

**Submitted by**

**Y.MANOJ (11PA1A0555)**

**K.HEMANTH (11PA1A0531)**

**CH.MAHESH (11PA1A0510)**

**CH.KANAKARAJU (11PA1A0507)**

***Under the guidance of***

**CH.LAKSHMI VEENADHARI, M.Tech**

**Assistant Professor**

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada, Accredited By NBA)**

**BHIMAVARAM – 534 202**

**2011 – 2015**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada)**

**BHIMAVARAM-534202**

**2011-2015**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

****

**CERTIFICATE**

This is to certify that the project entitled “**College Notifications Based On Bluetooth Beacons**”, is being submitted by **Y.Manoj, K.Hemanth, CH.Mahesh, CH.Kanaka raju**, bearing the **REGD.NOS: 11PA1A0555, 11PA1A0531**, **11PA1A0510, 11PA1A0507** submitted in fulfilment for the award of the degree “**Bachelor of Technology in Computer Science And Engineering**” is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2013-2014 and it has been found worthy of acceptance according to the requirements of university.

**Internal Guide Head of the Department**

CH.Lakshmi Veenadhari, M.Tech Dr. Sumit Gupta,Ph.D

Assistant Professor. Professor.

**External Examiner**

**COLLEGE NOTIFICATIONS BASED ON BLUETOOTH BEACONS**

*A Main Project submitted*

*in partial fulfillment of the requirements*

*for the award of the degree of*

**Submitted by**

**CH.MAHESH (11PA1A0510)**

**K.HEMANTH (11PA1A0531)**

**Y.MANOJ (11PA1A0555)**

**CH.KANAKARAJU (11PA1A0507)**

***Under the guidance of***

**CH.LAKSHMI VEENADHARI, M.Tech**

**Assistant Professor**

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada, Accredited By NBA)**

**BHIMAVARAM – 534 202**

**2011 – 2015**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada)**

**BHIMAVARAM-534202**

**2011-2015**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

****

**CERTIFICATE**

This is to certify that the project entitled “**College Notifications Based On Bluetooth Beacons**”, is being submitted by **CH.Mahesh, K.Hemanth, Y.Manoj, CH.Kanaka raju**, bearing the **REGD.NOS: 11PA1A0510, 11PA1A0531**, **11PA1A0555, 11PA1A0507** submitted in fulfilment for the award of the degree “**Bachelor of Technology in Computer Science And Engineering**” is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2013-2014 and it has been found worthy of acceptance according to the requirements of university.

**Internal Guide Head of the Department**

CH.Lakshmi Veenadhari, M.Tech Dr. Sumit Gupta,Ph.D

Assistant Professor. Professor.

**External Examiner**

**COLLEGE NOTIFICATIONS BASED ON BLUETOOTH BEACONS**

*A Main Project submitted*

*in partial fulfillment of the requirements*

*for the award of the degree of*

**Submitted by**

**CH.KANAKARAJU (11PA1A0507)**

**K.HEMANTH (11PA1A0531)**

**Y.MANOJ (11PA1A0555)**

**CH.MAHESH (11PA1A0510)**

***Under the guidance of***

**CH.LAKSHMI VEENADHARI, M.Tech**

**Assistant Professor**

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada, Accredited By NBA)**

**BHIMAVARAM – 534 202**

**2011 – 2015**

**VISHNU INSTITUTE OF TECHNOLOGY**

**(Approved by AICTE, Affiliated to JNTU Kakinada)**

**BHIMAVARAM-534202**

**2011-2015**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

****

**CERTIFICATE**

This is to certify that the project entitled “**College Notifications Based On Bluetooth Beacons**”, is being submitted by **CH.Kanaka raju**, **K.Hemanth, Y.Manoj, CH.Mahesh** bearing the **REGD.NOS: 11PA1A0507, 11PA1A0531**, **11PA1A0555, 11PA1A0510,** submitted in fulfilment for the award of the degree “**Bachelor of Technology in Computer Science And Engineering**” is a record of bonafide work carried out by them under my guidance and supervision during the academic year 2013-2014 and it has been found worthy of acceptance according to the requirements of university.

**Internal Guide Head of the Department**

CH.Lakshmi Veenadhari, M.Tech Dr. Sumit Gupta,Ph.D

Assistant Professor. Professor.

**External Examiner**