



American International University – Bangladesh (AIUB)

Faculty of Engineering

Department of CSE, EEE, and CoE

EEE3102 Digital Logic and Circuits LAB

PROJECT PROPOSAL FORM

SEMESTER: SUMMER 2022-2023

PROJECT TITLE: Implementation of Fire Alarm System

Survey to develop a process for complex engineering problems with a wide range of conflicting requirements (use pie chart):

Do you think Fire alarm system is essential in our daily life?

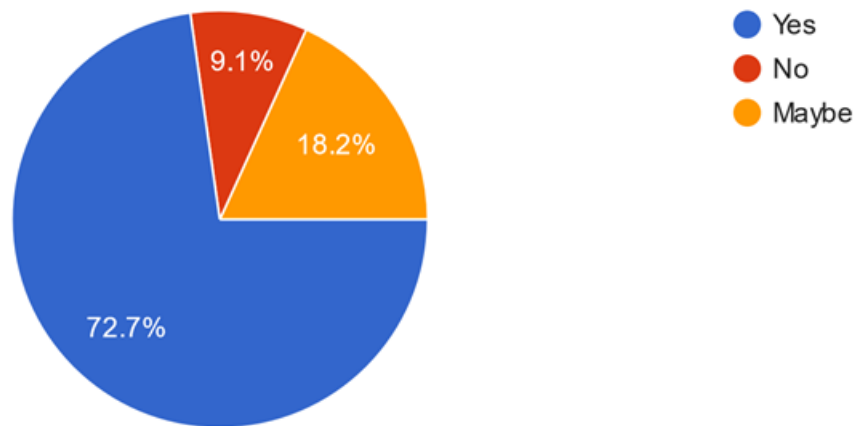


Figure: 1

Do you think false detection is hassle?

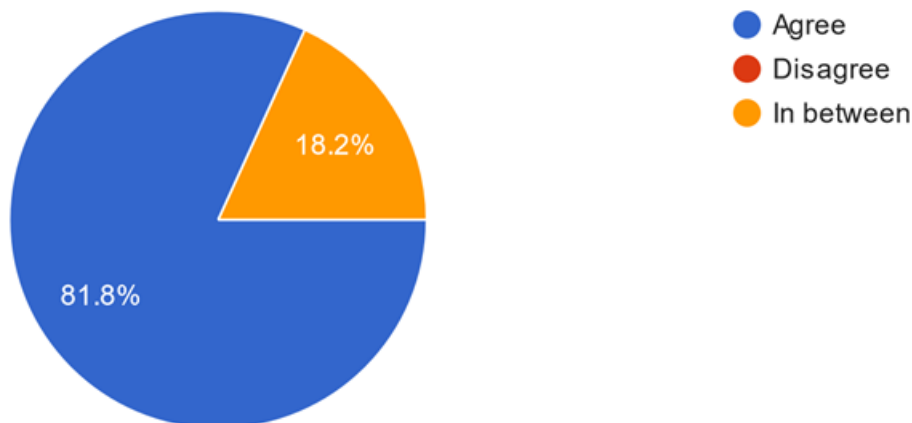


Figure: 2

Do you think if we advertise it in marketplace will it be a successful project in terms of number of buyers?

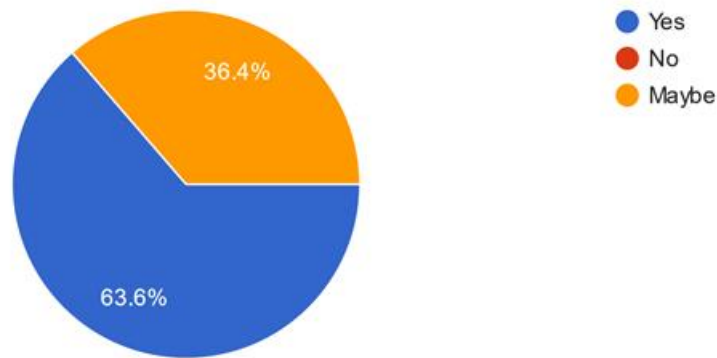


Figure: 3

How much do you think people are willing to pay for this fire alarm system?

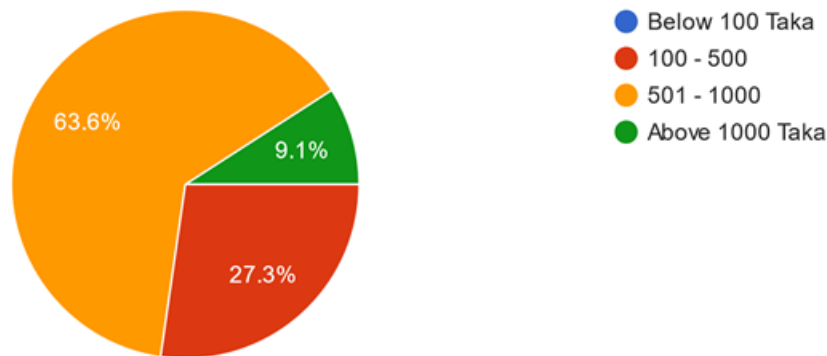


Figure: 4

AIMS AND OBJECTIVES OF THE PROJECT:

The Primary objective of this project are:

- Implementing a reliable fire alarm system that can detect fires accurately and in a timely manner.
- Developing an effective alert system to quickly notify occupants about fire incidents.
- Establishing a seamless integration with emergency services, such as the fire department, to enable rapid response and assistance.
- Ensuring compliance with relevant fire safety regulations and standards.
- Providing a cost-effective solution that can be tailored to various settings, including residential, commercial, and industrial buildings.

The primary aim for this project is to develop a much more hassle free and more accurate fire alarm system.

EXPERIMENTAL BLOCK DIAGRAM:

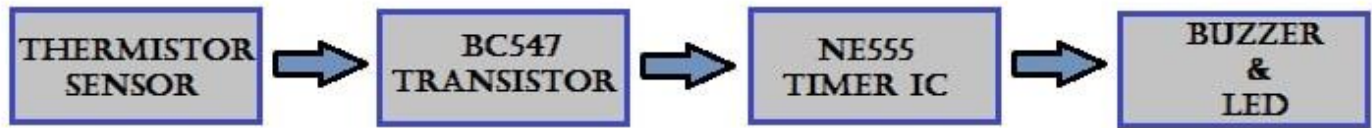


Figure: 5

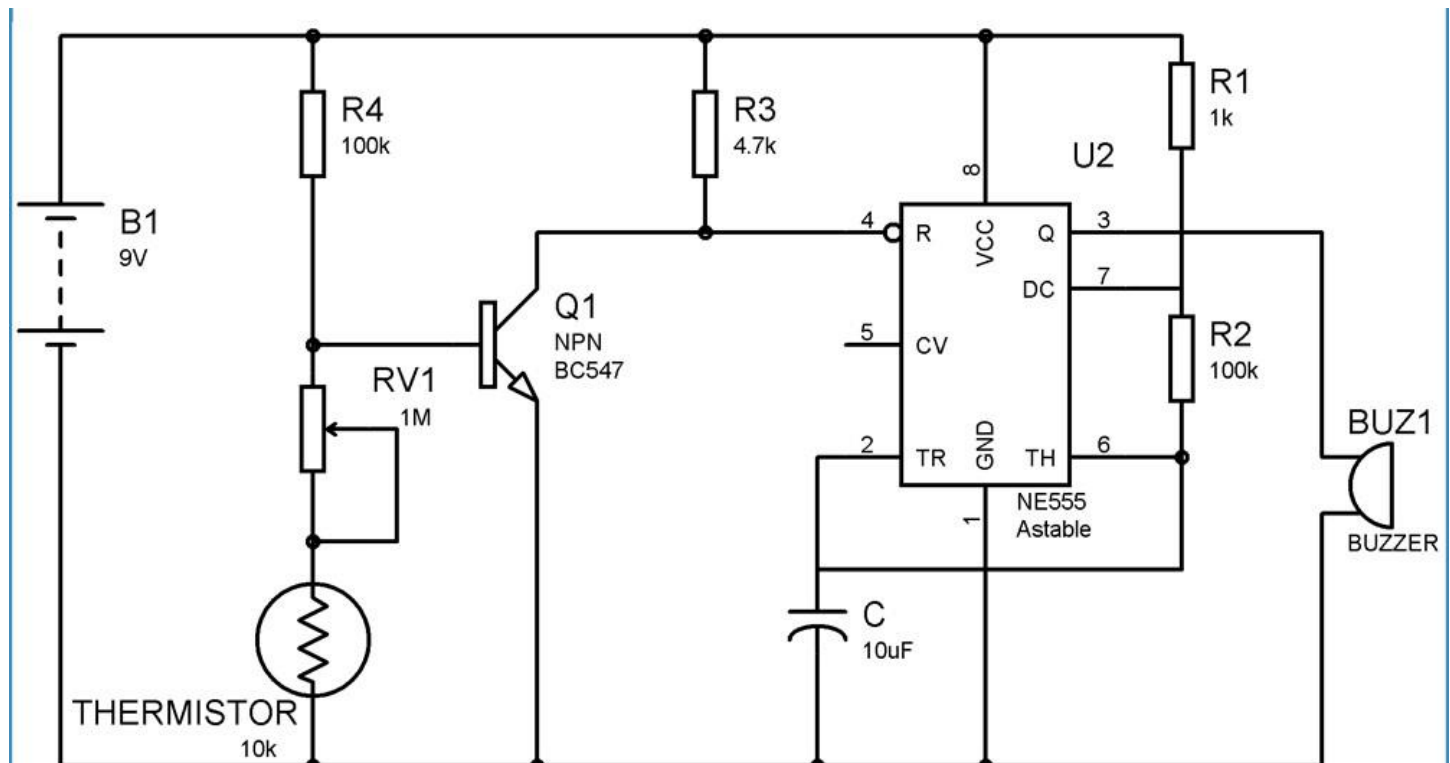


Figure 6: Circuit Diagram

PROJECT TIMELINE (GANTT CHART):

Task Name	Week 1	Week 2	Week 3	Week 4	Week 5
Planning					
Research					
System Design					
Implementation					
Outcome Analysis					

Report Writing and Follow-up						
Submission						

REFERENCES:

- [1] S. M. R. Islam and M. J. Hossain, "Gate Level Design of a Digital Clock with Asynchronous-Synchronous Logic," Global Journal of Researches in Engineering, USA, 2012, vol. 12, no, 4, March 2012, pp. 16-22
- [2] N. Nandanavanam, "An Imprint of IC 555 Timer in the Contemporary World," International Journal of Engineering and Advanced Technology (IJEAT), India, 2015, vol. 4, no, 6, August 2015, pp. 1-4
- [3] C. Haritha, "Digital Stop Watch Using 555 Timer," International Journal of Recent Research in Electrical and Electronics Engineering (IJRREEE), India, 2018, vol. 5, no, 1, March 2018, pp. 19-23

FACULTY USE ONLY

COMMENTS BY THE COURSE TEACHER:

COURSE TEACHER'S NAME

COURSE TEACHER'S SIGNATURE

DATE

GROUP MEMBERS

(Maximum 6 students are permitted to carry out a single Project. However, depending on the capability of the students, 4 students may be allowed but not less than that)

NAME: Ahnaf Abdullah Zayad..... ID... 21-45019-2..... PROGRAM: EEE/COE/CSE EMAIL:	NAME: Srabone Raxit..... ID... 21-45038-2..... PROGRAM: EEE/COE/CSE EMAIL:
NAME: Safkat Khan..... ID... 22-46392-1..... PROGRAM: EEE/COE/CSE EMAIL:	NAME: Juhaer Al Mahbub..... ID... 21-44687-1..... PROGRAM: EEE/COE/CSE EMAIL:
NAME: Imtiaz Mahmud..... ID... 20-43012-1..... PROGRAM: EEE/COE/CSE EMAIL:	NAME: ID PROGRAM: EEE/COE/CSE EMAIL:
REMARKS (for OFFICE use only)	

Course Outcome Mapping with the Course Project Proposal:

COs/CLOs	Details	K	P	A	Assessed Program Outcome Indicator	BNQF Indicator	Assessment Techniques
CO1	Apply proper information and concepts of different logic gates, digital ICs, transistors, and timers to implement logical circuits considering a wide range of conflicting requirements.	K3	P1, P2, P6		P.a.3.C3	FS.1	Course Project Proposal Form

Course Name:	Digital Logic and Circuits Lab	Course Code:	EEE 3102
Semester:	Summer 2022-2023	Section:	C
Faculty Member:	Md. Ali Noor		

Course Project Title:	Implementation of Fire alarm System
Project Group No.	2

SL	Student ID #	Student Name	Obtained Marks
1.	21-45019-2	Ahnaf Abdullah Zayad	
2.	21-45038-2	Srabone Raxit	
3.	22-46392-1	Safkat Khan	
4.	21-44687-1	Juhaer Al Mahbub	
5.	20-43012-1	Imtiaz Mahmud	

Assessment Materials and Marks Allocation:

COs	Assessment Materials	POIs	Marks
CO1	Course Project Proposal form	P.a.3.C3	20

Assessment Rubrics

COs-POIs	Excellent [17-20]	Proficient [13-16]	Good [9-12]	Acceptable [5-8]	Unacceptable [1-4]	No Response [0]	Secured Marks
CO1 P.a.3.C3	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements and implementation process is clear and challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are less in number and implementation process is clear and challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are less in number and implementation process is not so clear but seems challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are fewer in number and implementation process is not so clear and seems less challenging for future project implementation.	The survey developed as a process for complex engineering problems considering a wide range of conflicting requirements but the conflicting requirements are very few in number and implementation process is not clear at all and seems impractical for future project implementation.	No Response	
Comments						Total marks (20)	

