

Criterion 2

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Experiential Learning:

Project work

1. Mini project: Project Based Learning

Project-based learning (PBL) or project-based instruction is an instructional approach designed to give students the opportunity to develop knowledge and skills through engaging projects set around challenges and problems they may face in the real world.

Sr. No.	Particular	Page No.
1	Project Based learning Lecture Series for FE, SE, TE & BE Class	<u>2-6</u>
2	Project Based learning- Report	<u>7-29</u>
3	Project Based learnings- Topics	<u>38-40</u>



ABMSP's Anantrao Pawar College of Engineering & Research, Parvati, Pune-09



Date : 05/05/2022 to 11/05/2022 Time : 02:00 PM – 04:00 PM Mode of Conduction : Offline Venue: Mechanical Seminar Hall, Room No. 128, APCOER.

Session	Date	Class	
	05/05/2022	TE	,
Session 1	06/05/2022	FE	1
1	07/05/2022	SE	
	09/05/2022	TE	
Session 2	10/05/2022	SE	
2	11/05/2022	FE	

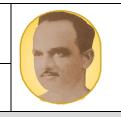
Dr. K. H. Munde IIC, President APCOER Dr. Sunil B. Thakare Principal, APCOER INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)



Mr. Manish Patil Founder-Director Scientific Jugaadfunda Innovations LLP. e Mrs. Pramila Gaikwad General Secretary, ABMSP



Record No.: ACA/D/021 Revision: 00 DoI: 21/01/2019



EVENT REPORT

Name of Event: One Day Expert Session On "Idea Resonator Project Based Learning Lecture"

Date of Event: 05th May 2022

Time of event: 11.00 A.M. to 1.00 P.M.

Venue: Mechanical Seminar Hall

Name of Event Coordinators: Dr. K. H. Munde, Prof. N. A. Jadhav

Name of resource Person/ Speaker: Mr.Mangesh Patil, Director – Scientific JUGAD FUNDA

Target Audience with count:

Sr. No.	Department	No. of Participants Third Year Students
1	Civil Engineering	25
2	Computer Engineering	40
3	E&TC Engineering	15
4	Information Technology	25
5	Mechanical Engineering	30
	TOTAL	135

Brief Description of Event:

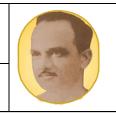
This event is organized in association with Industry Institute Interaction Cell (IIC) & Internal Quality Assurance Cell (IQAC) of ABMSP'S Anantrao Pawar College of Engineering & Research, Pune with the aim of participants should understand the motivation towards innovative creation.

Prof. N. A. Jadhav started with the welcome speech for the chief guest and all the participants. Dr. K. H. Munde gives the introduction of the chief guest to all the participants. Chief guest Prof Mr.Mangesh Patil facilitated on behalf of APCOER, Pune in presence of participants.





Record No.: ACA/D/021 Revision: 00 DoI: 21/01/2019



EVENT REPORT

Dr. K. H. Munde requested to resource person Mr.Mangesh Patil to start with the session. Mr.Mangesh Patil delivers a exllectent session on development of your inner qualities. Students have to focus on their inner abilities and capabilities to find out correct problem statement. This imagination power may leads to address the local & global development based on Bloom's taxonomy.

Moreover, they inspired students to boost in positive emotions and a reduction in negative emotions which helps bringing about greater overall happiness.

After the expert session vote of thanks delivered by Dr. K. H. Munde.

Academic outcomes:

The talk will help students-

1. To understand the process of innovation, problem solving.

2. To understand the need of technology development related to industry.

3. To inspire students to evaluate their abilities and capabilities.

Event Schedule:

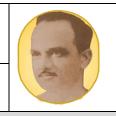
Sr. No.	Activity	Day & Date	Time
1.	Welcome of the guest and participants	05th May 2022	11.00A.M 11.10 A.M.
2.	Introduction of Speaker person and felicitation of guest.	05th May 2022	11.10 A.M 11.20 P.M.
3.	Resource person session on "Idea Resonator Project Based Learning Lecture"	05th May 2022	11.20 A.M 12.55 P.M
4.	Vote of Thanks	05th May 2022	12.55 P.M – 1.00 P.M.





Record No.: ACA/D/021 Revision: 00

DoI: 21/01/2019



EVENT REPORT

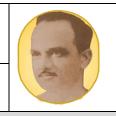
Photographs:







Record No.: ACA/D/021 Revision: 00 DoI: 21/01/2019



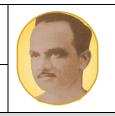
EVENT REPORT







Record No.: ACA/D/021 Revision: 00 DoI: 21/01/2019



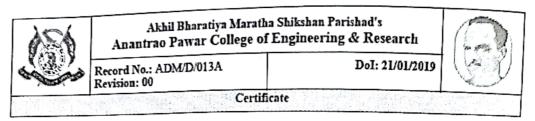
EVENT REPORT





(States)	Akhil Bharatiya Maratha Shikshan Parishad's Anantrao Pawar College of Engineering & Research	3)
PR	First Year Engineering Department	
×.	WORK BOOK	
6.1	ACADEMIC YEAR: 20 21/20 22 Semester: 11	
Division:	Batch: FE Group: 2.	
	Design a Wi-Fi controlled Hindow Design Development / Peleurch First Year Engineering Department NTRAO PAWAR COLLEGE OF ENGINEERING S.No.103, Parvati, Pune - 411009	
	(For Private Circulation Only)	





Academic Year 20 21 -2022

Certificate

This is to certify that

Mr. / Miss. Samouddhi Shinde Class FE Roll No. 288 Exam Seat No. 191100187 has completed all the Practical Work / Term Work satisfactorily for the

subject <u>Computers engineer</u>ing the Department of as prescribed by the Savitribai Phule Pune University.

Date :- 1/7/22 Place :- Pune

nat Subject Incharge

Head of Department

Principal



Group Information:

Division:),	Batch:	F.F.	Group:	2	1
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Roll No.	PRN No.	Name of Student	Mobile No.
	72220223H	Samuddhi Santosh shinde	876786593)
271	#2220087M	Sujata Satishi Dhene	7083326453
306	72220253K	Anushka Rajendro Waghchour	e 8459755996
299	72220242D	Rutuja Rajesh Thigale	7038119289
266	72220075 H	Soushti Hanumant Chavan	8180974038
284		Braktis Bhanat Shinde	8 76992818 0
272	722202480	Visha) Tatoba Handifod	9021836157
284		Bhakti Bhorrot Shinde	8767928180

Name of Faculty	/Mentor: \underline{P}	of. Son	opada. S	Ahina	0.
E-mail: <u>Sam</u>	pada ahi	rrao @	abmspa	serpune	org.
Mobile No.:					\bigcirc



Rules & Regulations:

- 1. Handle the workbook very carefully.
- 2. All students must enter the correct information in the work book.
- 3. All entries in the PBL work book must be verified by the Supervisor/Mentor.
- 4. Activities planned should be completed as per the instructions and schedule given by Supervisor/Mentor.
- 5. Assessment of TW for Project Based Learning (PBL) is out of 25 Marks which are based on attendance, regularity of completion of activities on given time and students involvement.
- 6. Assessment of PR for PBL is out of 50 Marks which are based on idea inception. outcomes of PBL, problem solving skills, solution provided, final product, documentation, demonstration, contest participation, and awareness.
- 7. Students need to submit final report of 5 to 10 pages in the prescribed format given at the end of this workbook.

- Course Objectives: DelibrioH Delotot (Deleiv 38 1. To emphasizes learning activities that are long-term, interdisciplinary and student-CHARTS SHORE SHIDLE SHIDLE STUDIES
- 2. To inculcate independent learning by problem solving with social context.
- 3. To engages students in rich and authentic learning experiences.
- 4. To provide every student the opportunity to get involved either individually or as a group so as to develop team skills and learn professionalism.

Course Outcomes:

- CO1: Project based learning will increase their capacity and learning through shared cognition.
- CO2: Students able to draw on lessons from several disciplines and apply them in practical way.
- CO3: Learning by doing approach in PBL will promote long-term retention of material and replicable skill, as well as improve teachers' and students' attitudes towards learning.



Weekly Planning Sheet

	Week No.	Activity Planned	Activities Completed	Signature of Students	Signature of Faculty/Mentor
	1	Literature Survey.	Completed	These.	\$
	2	project title finalization.	Completed	OWE.	81-
	3	componient required	Completed	Lisher -	\$1
	4	Systemo biliook diagram	Completed	Shave	8-
	5	Arduin sketch	Completed.	Somouth:	8-
1	6	piscussion.	Completel	Anuther	\$
	7	Result & conclusion	· Completed.	Sherre	F
	8	Putture Scope.	Completed	Aus .	đ.

AhinaD

Signature of PBL Coordinator/FE Coordinator

page II Windows are a very important part of our modern Way to glance to the Would. They are the quickest offices They world From Our homes 07 best ways OF providing ventilation Outer of the are one are windows used but the there Since old times. placement akways had limitation due to their mor There can be many possibities A operating nature. From more desirable placement to automotic openin closing on programmed times. h S(D) Area & Scope: future Scope (15 There is a Future scope in this design. A Few can be mer A. The speed of the system can be improved by use of s other mechanisms! to existing struc B. Design can be improved for implementing it into <u>4</u>eFF C. Different types of motors can be tested for improving the speed **Final Title of Project:** Design a Hi-Fi Window controlled

Signature of PBL Coordinator/FE Coordinator



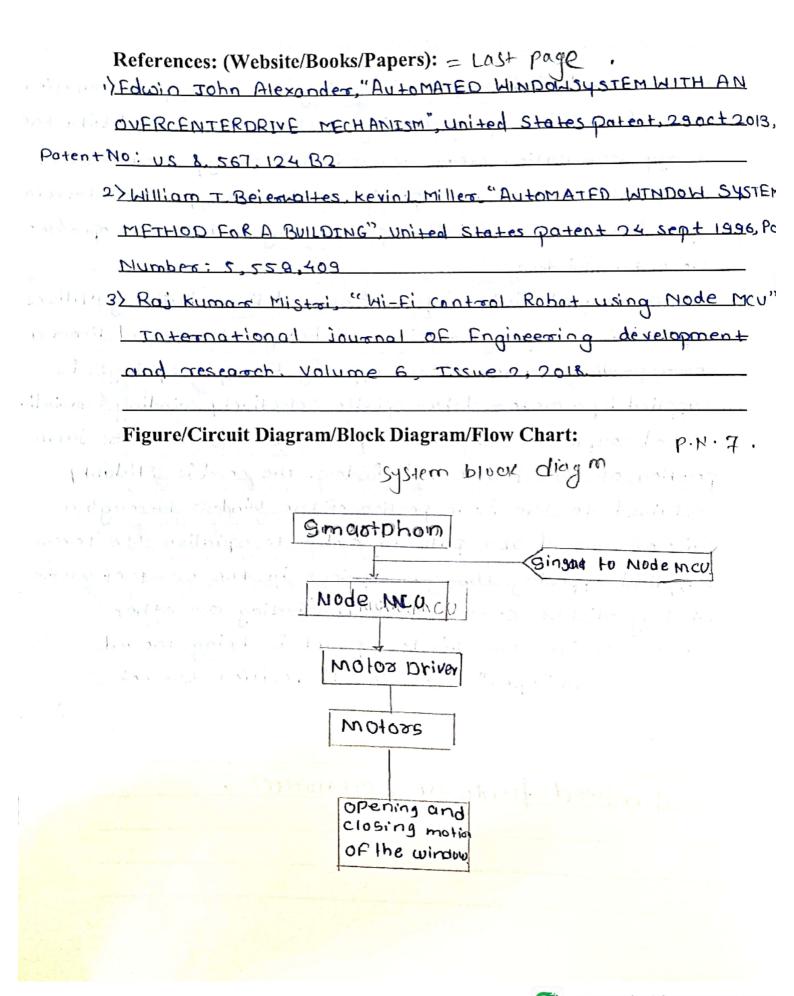
41401 41804

Initial Survey for Finalization of Title (Literature Survey): <u>Poge</u>.no. 2 An automated window system including an energy actumulation means & a Window opening/ closing mechanism associated with the energy accumulation means bibere in the energy accumulation means releases at least a portion of the energy stored therein upon demand to the Window opening/ clasing mechanism to open \$107 close the window. An automated Window System & method for a building utilizes a pair of gas springs to bias a window panel outward from a corresponding Frame. A Force opposing the gas springs is supplied by a motor driven spindle selectively winding & unwinding a cord coupled to the Window panel sash adjacent the jamb portion of the Frame and Window. The cord is Slidably retained to the iomb portion of the Window through a pair OF thread able pulls in Order to equalize the Forces supplied opposing the gas springs in the event of uneven Hinding OF the cord due to buffeeting or other Forces while the Window papel is being moved between an "open" to a " closed" position thereof.

Required H/W & S/W:

JOBHUM

Submitted pardware SOFTWERP Atriw Site



First Review Report

TITLE OF THE PROJECT

Design of Hi-Fi Controlled window.

Date: 30/4/22

Details of work completed: Completed, good, [group and topic finalization, review, initial processing etc.]



Neview 2/ Final Project Report

MAN

Cetails of work completed:

WELDE CORDANIES SE Report should contain:

Front Page:

Title: Capital, 18 Times New Roman

Abstract: 12, Times New Roman, Justified, 1.5 Spacing

Introduction: 12, Times New Roman, Justified, 1.5 Spacing

Figure/Circuit Diagram/Flow Chart/Photographs/Block Diagram (Whichever is applicable) 12, Times New Roman, Justified, 1.5 Spacing

Work Carried Out: (In the form of Procedure/Survey/Explanation/Case Study/Site visit report if any) 12, Times New Roman, Justified, 1.5 Spacing

Conclusion: 12, Times New Roman, Justified, 1.5 Spacing

References: 12, Times New Roman, Justified, 1.5 Spacing



0014190

Akhil Bharatiya Maratha Shikshan Parishad's Anantrao Pawar College of Engineering & Research DoI: 21/01/2019 Record No.: ACA/D/003A **Revision: 00** Seminar and Project Approval sheet

Department: First Year Engineering

Year: FE

Group No.: 2

Academic Year: 2021-2022 Project: perignof wi-fi Div: D (Untroned window Div: D

Roll No.	Student	t Name	Sign.	Guide Name	Sign.
271	Dhere S	syjata	There	Sampada	h, ih -
266	Shushit (chavan	Shoven_	Ahitrao	Himeb
299	Rutuja Th	igale	Cutup		OF
288	Sommruddi s	shinde	sm		
306	Anushka wo		<u>Aus</u>		
272	vishad Hand	dîfod.	(HAN)		
Pro	ject Sponsored:	Project Spo	onsored By:		

Topic Name: DESIGN A WI-FI CONTROLLED WINDOW

Page 1/2





Akhil Bharatiya Maratha Shikshan Parishad's Anantrao

Pawar College of Engineering & Research

Description in Brief (Abstract): Windows are a very important Port of our modeon world. They are the guickest way to glance to the outer world from our homes or offices. They are one of the best works of providing ventilation, since old times, these are windows used but their placement always had limitions due to their manual operating nature. Also due to the modern automated word needs we all want the control of our needed things in our hand, in other Hords. References (Books/Papers): Edwin John Alexander, "AUTOMATED WINDOWSYSTEM WITH AN OVERCENTERDRIVE MECHANISM". United States Patent, 29 oct. 2013, Potent No: US 8,567, 124 B2 William T. Beierwaltes, kevin L. Miller," AUTOMATED WINDOW SYSTEM AND METHOD FOR A BUILDING" United States Patent, 24 Sept. 1336 Patent Number: 5,559,409) Rej kumar Mistri, "HIF; control Robot using Node Mcu" International journal of Engineering development & research

Approval Remark (By Guide): Approval for further Study

17/2022. Date:

Prof. Rajesh Kharat Project Coordinator

Dr.Prof. B.S. Selukar Head of the Department



A Project Report on

DESIGN A WI-FI CONTROLLED WINDOW

By

Samruddhi shinde -288

Rutuja Thigale -299

Srushti Chavan -266

Sujata Dhere -271

Anushka Waghchaure -306

Vishal Handifod -272

Under the Guidance of

Prof. Sampada Ahirrao

DEPARMENT OF COMPUTER ENGINEERING Aanatrao Pawar College Of Enginnering And Research

Pune-09 [2021-22]

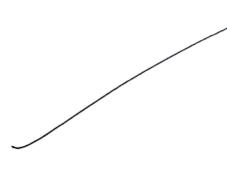


Acknowledgement

A few words of gratitude written on sheet of paper can never completely describe our feeling of indebtedness to the people involved in the successful completion of our project.

It is a matter of profound privilege and pleasure to extend our sense of respect and deepest gratitude to my project supervisor Prof. Sampada Ahirrao, Department of Computer Engineering, Anantrao pawar College of Engineering and research, Pune under whose precise guidance and gracious encouragement we had the privilege to work.

Last, but by no means the least, we owe our gratitude to all the teaching and nonteaching staff and also to our parents and friends.

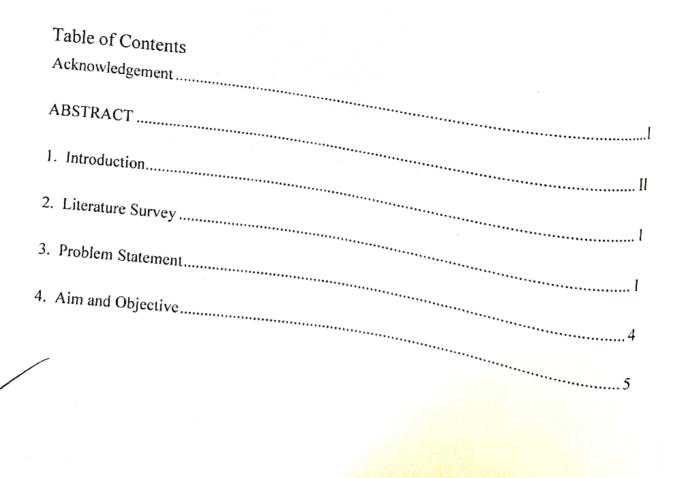


I

ABSTRACT

Windows are a very important part of our modern world. They are the quickest w_{aj} glance to the outer world from our homes or offices. They are one of the best w_{aj} providing ventilation. Since old times, there are windows used but their placement $al_{w_{aj}}$ had limitations due to their manual operating nature. Also due to the modern automate world needs we all want the control of our needed things in our hand, in other word "Controlling everything with devices like Smartphones".

Every major thing can be controlled via smartphones, from light bulbs to fans, from Air Conditioner to the Temp of Tea mug, Then why not Window. There can be many possibilities from it, from more desirable placement to automatic opening and closing on programmed times.



5. System Block Diagram	6
6. System Details	6
7. Arduino Sketch	
8. Discussion	
9. Result and Conclusion	
10. System Limitations	
11. Future Scope	
12. References	

List of Figures

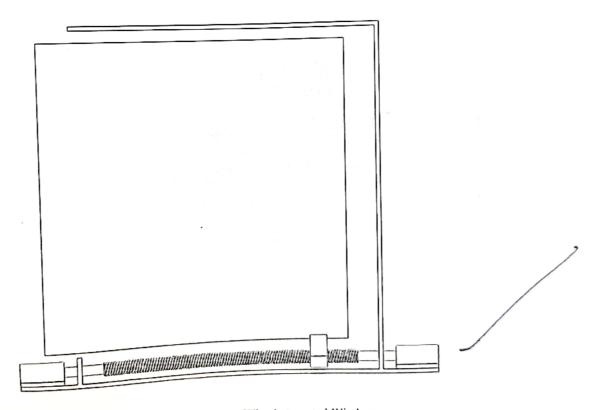
Fig. 1.1. Basic Design of The Automated Window 1	
Fig. 6.1. 3D Model in Solid Works	/
Fig. 6.2. Node MCU	
Fig. 6.3. L298n Motor Driver	
Fig. 6.3. L298h Meter Fig. 6.4. High Torque DC Geared Motor	

[Type here]

1. Introduction

Windows play a very important role in our daily life. They are the most used source of ventilation in our homes and offices. But their manual operation brings up many limitations. Limitations related to their position and placement. In the world of automation, we have a lot of possibilities with automated windows. We can Open and close all our windows at the touch of a button in smartphone or any other device.

Earlier a major problem to this concept was the cost of implementing it, but due to globalizations the cost can be reduced by a great margin.



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Fig. 1.1. Basic Design of The Automated Window

2. Literature Survey

[Type here]

The Field of robotics has been exponential growth with the amalgamation of multiple domains. The holistic approach is proving to be a boon, where communication engineering, mechanical engineering, embedded system and so many more are together creating robot with high flexibility. They use WIFI as the medium foe communication. They are achieving this operation by communicating using two computers. These computers connected to the Wi Fi pass on serial data and also communication is established between one computer located near the robot and a microcontroller present, which control its trajectory. Moreover. robot will be having its own senses to dodge obstacle, which will also give about its position. Future scope of this project is to establish the same connection but make the bot intelligent and autonomous.

3. Problem Statement

As discussed in the introduction the major limitation of a window is its manual operation. It creates limitations like:

- a. Windows cannot be placed in location where human hands cannot reach easily.
- b. It can be time consuming if there are multiple numbers of windows.
- c. Safety of the Person can be compromised due to location of window.

And due to the overgrowth of smart home atomization WiFi connectivity and the option to control it with smart devices like smart phones and smart watches is must.

(Type here)

4. Aim and Objective

Aim

The aim of the project is to design an automated window which can be controlled by smartphone via WiFi connectivity. Also maintaining the cost of the implementation as low as possible without compromising on the quality.

Objectives

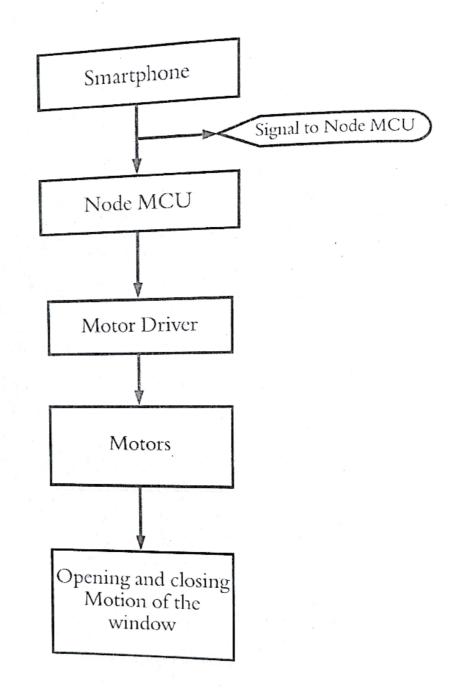
The major objectives of the project are:

- a. Simplicity in construction.
- b. Maintaining cost without compromising quality.
- c. Number of components must be less for simple implementation.
- d. Use of WiFi connectivity for easy operation via smartphone.

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5. System Block Diagram



6. System Details

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```
else if (command == "R")
(command == "L") goLeft();
              else if (command == "I") goAheadRight();
                                                           else if.
goRight();
                                      else if (command == "J")
(command == "G") goAheadLeft();
                   else if (command == "H") goBackLeft();
goBackRight();
                                            else if (command ==
else if (command == "0") speedCar = 400;
                        else if (command == "2") speedCar = 540;
"1") speedCar = 470;
                                            else if (command ==
else if (command == "3") speedCar = 610;
                        else if (command == "5") speedCar = 750;
"4") speedCar = 680;
                                            else if (command ==
else if (command == "6") speedCar = 820;
                        else if (command == "8") speedCar = 960;
"7") speedCar = 890;
                                             else if (command ==
else if (command == "9") speedCar = 1023;
"S") stopRobot();
}
void HTTP handleRoot(void) {
if( server.hasArg("State") ){
    Serial.println(server.arg("State"));
 3
 server.send ( 200, "text/html", "" ); delay(1);
```

8. Discussion

}

The major topic for discussion was regarding the method of moving the window. Before lead screw, Hydraulic and Pncumatic system were taken into consideration but were cancelled due to the following reasons:

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12

A. The number of components required gets increase by a very high amount.

B. The Cost gets increases by very high amount.

C. Its complexity gets increased.

D. The size of the system gets big so it become difficult to hide them.

9. Result and Conclusion

[Type here]

The window can be connected to the smartphone through the app and the commands can be given by the app in smartphone. The speed of the window operation is comparatively slow compared to manual operation, but the possibilities achieved make compensate the speed barrier. The tested range of the connection through node MCU was near 30 meters and the window took 2 sec to open or close at a speed of 60 rpm.

10. System Limitations

The major limitations we found after the completion of project where:

- A. The speed of the design is limited.
- B. Implementing in existing structures is not quite ideal and easy.
- C. Maintenance cost will be high compared to traditional Windows.

11. Future Scope

There is a future scope in this design. A few can be mentioned as:

- A. The speed of the system can be improved by use of some other mechanisms.
- B. Design can be improved for implementing it into to existing structures more easily.
- C. Different types of motors can be tested for improving the speed and efficiency.

12. References

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[1] Edwin-John Alexander, "AUTOMATED WINDOWSYSTEM WITH AN

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		Department: First	Year Engineering Semester –II Div. A- PBL	Year. 2021-2022	,
Sr. No	Group		Signature of the Students	Allotted Guide	Signature of Guide
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Record No.: ACA/R/010ARevision:00

DoI:21/01/2019



ProjectGuideAllocation

Department:FirstYearEngineering

Year. 2021-2022

Semester -11

DivB-PBL

Sr.No	GroupID	NameoftheStudent	AllottedGuide	Signature of Guide	Signature of the
1	B-PBL1 B-PBL2	CHANDGUDE AVISHKAR PRAKASH CHAVAN GORKSHNATH GANESH DHAWALE MANTHAN VIJAYRAO JADHAV SAURAV VILAS JAGTAP SATYAJEET RAMESH JAMDADE VAISHNAVI SUBRAO	Prof. Dr. Rashmi Kenvat	Ø	Students University Consult Other
		JAUNJAL CHAITANYA KIRAN KABMLE APEKSHIT SATISH KADU VAISHNAVI ARUN KALE SUPRIYA BHAUSAHEB KALE SWAPNIL SHIVAJI KAMBLE PRIYANKA SATISH	Prof. Akshay Mane	65	Gipeian Kalen
3	B-PBL3	KAMBLE VEDANT SHRIKANT KANNADIAR TILAK MURUGAN KAPADNIS PRERANA VIJAY KARANDE AKASH SURESH KHADKE PIYUSH CHANDRAKANT KHAN FARIHA BASHIR	Prof. Dr. Soojay Deshpande	Scoled	AKASH .
.4	B-PBL4	KHANDEKAR AYUSHANT VINOD KHARADE MRINAL MAHESH KHOPADE SHIVAM SARJERAO KOKARE GANESH MAHADEV KOTHALE OMKAR NAGNATH KULKARNI ANUJ ANANT	Prof. Monika Jagtap	Herture	Hanne .
5	B-PBL5	KULKARNI VARUN MANGESH LAHANE SAI SUNIL LAHANE SHASHANK VIKRAM LOKOLKAR RASIKA RAJU	Prof. Ganesh-Kondhalkar		Labore

Rapple

		LOLAGE ROHAN TRIMBAK			1.10
	S. 9	LOMTE AMEY SANJAY			0
6	B-PBL6	MADANE ROHAN VIJAY MADOLE PRACHI NILAMKUMAR MAGAR GAYATRI BHARAT MAGATRAO VAISHNAVI VIKRAM	Prof. Shahrukh Baig	= table	Contrate .
		MANDAVE SHUBHAM HANMANTRAO MANDHARE SARTHAK SHASHIKIRAN			Softwar 1
7	B-PBL7	MANE KOMAL KIRAN MANE NIKITA SANDESH MARAL SAKSHI SUHAS	Prof. Ranjitsingh Gaikwad		tima
		MEMANE HARSH GOKUL MORE OM DEEPAK MULE SACHIN SURESH	Prof. Kanjusnigi Garkwau	×Υ	Jahin
8	B-PBL7	MUTKIRI ONKAR RAMCHANDRA NALAWADE MAYUR VALLABH NAIK SANIKA PRASAD NAIK SNEHAL DNYANDEV NEHETE RUPESH PRADIP NIMBALKAR ABHISHEK SARJERAO	Prof. Navanath Sarode	ozud	Braik Probite
9	B-PBL7	SINGH MUKUL AKHILESH SONDKAR MANSI SHIVAJI SHELKE PALLAVI ANNASAHEB TELANGI AMISHA SUNIL THOSAR MANSI NANA	Prof. Dr. Rashmi Kenvat	C	Maran .

Date: 01106/22

ClassTeacher

Being

Head of theDepartment



Record No.: ACA/R/010A Revision: 00

DoI: 21/01/2019

Project Guide Allocation

Department : First Year Engineering

Year. 2021-2022

Semester -II

Div C- PBL

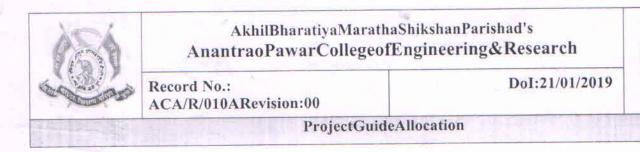
Sr. No	Group ID	Name of the Student	Allotted Guide	Signature of Guide	Signature of the Students'
1	C-PBL 1	1.Baderao Prajwal 2.Bhawakar Pratik 3.Sayyad Sana 4.Dhamdhere Rahul 5.Dhanke Pranil 6.Gaikwad Rishikesh	Prof. Rajesh Kharat	Port	Brawla Fartur Deenil
2	C-PBL 2	1.Gosavi Nupur 2.lthape Atharva 3.Jadhav Ritika 4.Kadake Sagar 5.Karape Piyush 6.Khade Sharvil	Prof. Shweta Joshi	Sofali	ADITUR: PINNINK Bannuk
3	C-PBL 3	 Mahakale Priti Nagarale Pallavi Niture Shankar Parvekar Rohan Pashankar Aarohi Pathak tanaya 	Prof. Dr. Balaji Selukar	Bent	Nageale
4	C-PBL 4	1.Patharc Sakshi 2.Patil Hardik 3.Patil Omkar 4.Patil Tejas 5.Pawar vaishnavi 6. Phuse Tanmay	Prof. Dr. Niteen Savagave	Mon	BUDZ
5	C-PBL 5	1.Poddar Aditya 2.Rainak Devika 3.Raje Vedanti 4.Raskar Neeraj 5.Rathod Vaibhav 6.Regulwad Sakshi	Prof. Dr. Kashinath Munde	Joshund	Broykoy
6	C-PBL 6	1.Rithe Mrugaja 2.Rode Atharva 3.Rode Goraksha 4.Rokade Poonam 5.Sakhare Atharva 6.Salve Rajeshwar	Prof. Sampada Ahirrao	Alimato	Cattle Battle
7	C-PBL 7	1.Salve Soham 2.Sangale Prathamesh 3.Sarda Samarth 4.Sarode Sagar 5.Shaikh Arshan 6.Shamod Vaishnavi	Prof. Tejaswinee Pawar	Abbi chand ani	L'OF

8	C-PBL 8	1.Sharma Vishal 2.Shejwal Vedant 3.Shelke Nikita 4.Shelke Shivam 5.Shinde Anuja 6.Shinde Arpita	Prof. Navanath Sarode	37.9 Anie
9	C-PBL 9	1.Sonawane Prashik 2.Surwase Rohini 3.Vyavahare Saskshi 4.Zad Prathamesh 5.Zende Rahul 6.Raut Kritika	Prof. Shahrukh Baig	Home UB Catul.

Date: 10/05/22 Class Teacher

Bend

Head of the Department



Department: First Year Engineering

Year : 2021-2022

Div : D- PBL

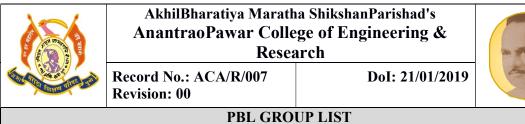
Semester -II

Signature AllottedGuide Signature GroupID Name of the Student Sr.No of of the Guide Students' Parth tawre 1. Urvish shisode 2. Prof. R. A. Nikam Vishal handifod 3. D-PBI I Sujal yadav p 4. Pratham tanpure 5. Shantanu shinde 6. A Anushka 1. waghchaure prof. S.S. Alirrad . uti Rutuja thigale A 2. Samruddhi shinde D-PBL2 3. 2 2080 Sujata dhere 🔥 4. P Bhakti shinde 🛕 5. Srushti chavan A 6. Om shinde 1 2. Siddhi shinde prof-S.S. Ahimito Sanika shinde Kaustub wagh 3. 4 D-PBL3 4. Soham bhame 5. Shraddha pandit 6. Mitali zagade 1. Bot. P.S. Zoal Trupti pakhale 2. P Vedant palekar A 3. D-PBL4 Kunal shinde A 4. Yash lad 5. 6. Srushti shelar A Saurabh 1. Prof. Dr. N.G. Savagare dennates. waghmare Kunal waghmare 2. P Jay walkunde P D-PBL5 3. 5 Trupti more 4. 5. Amruta thorat Yogesh shinde 6. rade

р 6	D-PBL6	1. Anagha shirke 2. Shruti chaughule 3. Swarali armarkan 4. Anushka unhalkar 5. Shruti wagh 6. Shriman vyas Karoble Muhalkar Karoble Muhalkar Sinutruson
7 P	D-PBL7	 Vedant chinta f Siddhant p waykaskar Devaynshu thigare Hasnain khureshi Meghraj shewalet Varad dahale p
. ₈ P	D-PBL8	 Harish jadhav A Swapnil jadhav Siddesh dhande Siddesh yewale A Siddesh yewale A Shreeyash suryawanshi Kartik shinde
9	D-PBL9	 Krushna adane Shruti deshmukh Soham Soham Suryawanshi Prof. Harsha Prithviraj thigare Tejashri Make Abhichandani Abhichandani Abhichandani Abhichandani

Date: 02/06/22 Class Teacher (Poof P.S. Zool)

Boul Head of theDepartment



Department: Mechanical Engineering

Academic Year : 2020- 2021 Year: SE

Gr.			
No.	Roll No	Name	Торіс
	SE20-6201	ABNAVEPRADUMNAYV	Drone technology in
	SE20-6202	BIBAVE MITHILESH SHIVAJI	Agriculture
	SE20-6203	BORALE GANESH RAMESH	-
1	SE20-6204	KOSANDAR PRANA Y RAJU	-
	SE20-6205	MANE SIDHARTH	IOT In healthcare
	SE20-6206	NAGALKAR AKASH	-
	SE20-6207	SANKE RISHABH	
2	SE20-6208	SOMESH BHALERAO	-
	SE20-6209	ZUHEB LIYAKAT RAWOOT	Auto Nozzle Cleaner
	SE20-6210	AMIT ANWAR SOTA	
	SE20-6211	AWASARM. AL RUTESH SUDHIR	
3	SE20-6212	ASHWINI MACHHINDRA	
5		KUMTHEKAR	
	SE20-6213	AREKAR ROHIT HANUMANT	Solar Power Ocean
	SE20-6214	BAGWAN AHMED JAVED	Cleaning Machine
	SE20-6215	BHOSALE KARTIK SUDESH	
4	SE20-6216	CHAVAN AKASH SANTOSH	
	SE20-6217	DAHALE HARSHAL BABULAL	Industry 4.0 In
	SE20-6218	DESHMUKH ATHARVA NAGESH	Mechanical Engineering
_	SE20-6219	DHUMAL ATHARVA	-
5	SE20-6220	GOVINDA DATTATRAYA KHARAT	



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PBL GROUP LIST

Gr.No	Roll No	Name	
	SE20-6221	GUPTA ABHISHEK SHIVSHANKAR	3D Printing Technology
	SE20-6222	HALINGALE KARAN MAHA VIR	
(SE20-6223	JAMADAR MAHIBOOB BASHASAB	-
6	SE20-6224	JOSHI HERAMB VIDY ADHAR	
	SE20-6225	KANADE ABHIJIT KESHA V	Future of Electric
	SE20-6226	KARNE ASHISH VINOD	Vehicle in India
7	SE20-6227	KATE VIRAJ VINA YAK	-
7	SE20-6228	KHEDEKAR DARSHAK RAMDAS	-
	SE20-6229	KOLI MAHENDRA HANUMANTA	Renewable Energy
	SE20-6230	KOLI SHUBHAM DILIP	Sources
0	SE20-6231	KURKULE GANESH RAJKUMAR	-
8	SE20-6232	KUMBHAR PRASAD SANJA Y	-
	SE20-6233	LAVANDE AKASH SATISH	IOT Based Smart
	SE206234	MOHITE GAURAV RAJENDRA	Polyhouse
	SE20-6235	MOHAMMED MANZOOR UL AMAN	
9		MOHAMMED MUSTAFA AHM	
9	SE20-6236	MUJA WAR OWAIS SALIM	
	SE20-6237	PAWAR RAHUL RAJU	Automatic Sprinkler
	SEZ0-6238	PAWARRUTIK TANAJI.	Trolley
	SEZ0-6239	PATIL SAYYAM ANILKUMAR	
10	SE20-6240	PHAND BHUSHAN BALASAHEB	-
	SE20-6241	SAWANT RUTUJA SHARAT	Solid waste
	SE20-6242	SATYAM SHRIKANT MEMANE	Management
11	SE20-6243	SHASHANK KARNIK HEMANT	
11	SE20-6244	SINGH AMRUT AJIT	



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PBL GROUP LIST

Gr.No	Roll No	Name	Торіс
	SE20-6245	SONA WANE DANIEL MADHUKAR	Automatic Stamping
	SE20-6246	VENKATESH KANNAN	Machine
		ANDICHAMY	
12	SE20-6247	VISHAL DANGE	
12	SE20-6248	ZORE PRATHAMESH SUNIL	