Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce& Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon Dist. Pune 410503

Department of Electronic Science Best Practice- 2023-24 Wallpaper / Poster Presentation by Students Report

01: 4:	• To cultivate out of box thinking, such as inter-disciplinary thinking,
Objective	• To cultivate out of box thinking, such as inter-disciplinary thinking,
	synthesizing knowledge of different disciplines and to cope with
	complexity among students.
	• To ensure the knowledge acquiring among the student's community.
	• To make them understand the emerging concepts from known concepts.
	• To stimulate in depth learning of the concepts and understanding of
	various topics.
The Context	
	• This event is to provide an opportunity for the students to share their
	knowledge with the peer group members.
	• The digital poster is prepared in advance with desired technical
	framework to share the knowledge on inter-disciplinary fields.
	• This activity will lead to encourage the students to participate in
	symposia, technical presentation.
Evidence of	
Success	Outcome of this practice enables the students to
	✓ Participate in technical presentation
	✓ Project Expo
	✓ Participate in skill-oriented competitions
Challenging	Resources are the main challenges for participation in the competition.
Issues	•
	• For success of such practices require attitude and willingness
	without which it is difficult to motivate students which is the target
	audience of the Institute.
	 Degree of motivation required in the minds of the students can result in success of such practices.



Head

artment of Electronics Sci.

aheb Awate College, Manchar

* Rayat shikshan Sanstha's *

College Name -> Annasaheb Awate college manchat

Dept -> Electronics.......

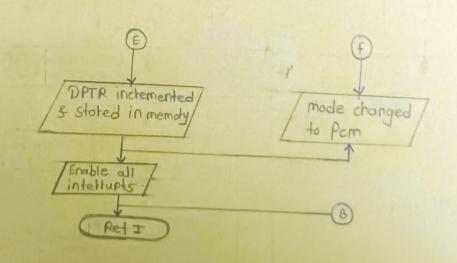
Alticle Name -> Cordless Power Controller.

Introduction ->

of out home using out Cordless phone

The interesting feature of cpc is its ability to control two types of devices; They are onloff Control and onloff with speed lintensity Control. cpc is developed as a micro Controller sost based device which Controls the devices depending on the codes entered through telephone kepad intensity speed variation is about is by altering the phase of the gate pulses over to the triac for thiggering it.

Diagram ->



on reset, cpc would be in the telephone mode. power control mode (pcm) only after dialing a Particular Code. After the code has been entered, cpc switches to the power Control mode. the indicator and the tone generator tell us that the device has been selected . And the telay disconnects telephone from the lines.

2) In the Pcm, we can select different devices by dialing appropriate

codes for each . (for eg. 1. for bulb) etc. 2 for fan

3 After selecting a device we can Control the oxloff state of the device by enteting a different key.

3) If the device selected is fan, we can Controll the speed of it by using two dedicated switcher, for increasing & decreasing the speed

hespectively

3) The mode changes automatically to telephone when the phone is disconnected thus the device works in two modes namely.

* Application ->

1) Automotive Power management Ic.s. voltage Hackets. watchdog timets.

1 3 Automotive magnetic sensor Ics (Hall effect Ics)

automotive Real - Time clocks (RTCs)

@ Automotive operational Amplifiers.

* Advantages -

coldless Power.

coldless power tools have been a langing success in the last few years & they have given Haditional tools a tun for their money . But every astest pladuct isn't always the best, sometimes is tools.

1 Convenience ->

lack of physical Colds and the light weight enable manufactures

whieve a mote etgonomic & compact design that in tuto allow for extra ashion of convenience.

2) Ptobability ->

Because of a Compact design and absence of electrical Cotds Cotdless power tools are a lot more portable than their Counterparts as you can easily tuck them into your bags

3) No need of power outlet ->
one of the major advantages- of coldless tools is that they use
lithium batteries- for operation so you (an don't need a power source
for the same reason tools (an be of great use in temote areas where
power is not available.

 \Rightarrow safety \rightarrow

As there are no physical Colds, there is alesset chance of operator of any other person at the job site to thip over & fall besides lack of physical Colds also lessen the lisk of electrocation.

· Disadvantages ->

Cordless tooks use the latest technology & more often than not modern echnology is relatively expensive as ofms are typing to cover their esearch & development costs which is quite understantable.

less teliable ->

Itaditional tools are being manufatured for decades hence the ngineeting involved in the manufaculting of Traditional power tools the far more reliable 3 time tested on the other hand manufacturing tocedures & engineering of Cordless tools are still in their infancy & eed time to achieve the same level of perfection If you are working ith a Cordless power tools you must remember to technique your battery free every project.

> less foretful ->

Although it's not that big of an issue for a Casual Consumer, the lack of heavy duty performance may become abdeal bleaker for a professional