

STUDY CLOCK

GROUP CODE : T115

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(to be removed) Note: For the Art Installation project, skip the sections below and instead provide following details

1. Art Concept Description: Explain in words and through an annotated sketch your concept. Include what medium you are going to use. What demographics is the installation for?
2. Uniqueness: Justify what is unique about your concept and why will it be interesting to try.
3. Technical Implementation details: Share what technical requirements will you have for implementation of this concept.
4. Reference: Where have you seen similar ideas or any sources that helped you form this idea?

PROBLEM STATEMENT (200 words)

Time management is very important for students these days. They need to analyze how much time they actually utilize for studying . They need to eliminate distractions like social media and be focused at the task at hand . They need to allocate and manage their time better. Also students need something interactive to remind them to study .

Our device ,study clock , will be able to solve these common problems faced by most of the students. Our device will calculate the time for which a student actually studies on his study table. A student will also be able to set reminders and our study clock will interact with the student to remind him . A student can also calculate the time he takes to solve a problem. Also students face the problem of falling asleep when he/she is studying at night. Our clock will wake them up if they sleep while studying.

A phone and other devices cannot calculate the actual time for which a student studies on his study table . Though reminders can be set in the phone too but while studying the students

get distracted by the use of phone reminders and start using applications to entertain themselves instead. The stopwatch also does the same .

While studying a student needs to concentrate only on his work . Our study clock helps them to do the same by giving them a detailed analysis of the usage of their time spent on studies . Students need something interactive to remind them and so our device encourages them to work according to their time table with its interactive reminder system.

PROOF OF SIGNIFICANCE OF THIS PROBLEM (500 WORDS MAX)

In today's world time is very important for everyone, whether it could be students, people going to jobs as well as working at home. In students life one of the most important thing is time. Using phones for viewing time distracts students from their studies. According to a survey almost 60 % of people use phones as their primary timepiece.

<https://today.yougov.com/topics/lifestyle/articles-reports/2011/05/05/brother-do-you-have-time>

Also students face many problems in managing their time and utilising it in the best.

https://www.academia.edu/30304258/Survey_on_FSDs_students_time_management_skills

https://www.researchgate.net/publication/322820215_A_study_on_Time_Management_Challenges_Encountered_by_Employees_in_Hotel_Industry

They face many problems in time management and making proper schedule for them. Also following the schedule not for the complete day but for the entire lapse of time.

We also conducted a survey and asked students of our college for the suggestions that what features they would like to have in a clock on their study table.

Students have suggested many of the ideas. They want to have a stopwatch in the clock. Also a remainder that will remind them about their schedule for the day. Some of them want the clock to tell them how much time they have given to the studies on the table on the particular day. One of them also want to solve the problem he is facing that he falls asleep while studying at night. This problem may be occurring with many of us. Some of them suggested it to be friendly.

PROOF OF NOVELTY OF THE PROBLEM OR PROPOSED SOLUTION (500 WORDS MAX)

It's easy to let your time slip by. You get by doing just the minimum you need to keep your job and maintain your lifestyle, but at the end of each year, you look back and realize you haven't accomplished much more than maintaining the status quo.

Even on a daily basis, you can have all sorts of grand plans about what you want to achieve and all the items you want to cross off your to-do list. But the end of the day comes, and you find that you've barely finished the first tasks on your list. The rest of your time was swallowed up by social media, email and aimless web surfing.

Almost all parents are worried about their children as they are not able to concentrate on their studies and keep up with their deadlines . Even our fellow students have a problem that they are not able to calculate the time for which they actually studied .

The trick to overcoming these issues is learning to manage your time. Why is time management important? It might not seem worth the...time, but time management is an incredibly valuable skill to learn.

This petition helped us to understand the problems of students in a better way-

https://www.change.org/p/students-problem-of-students-in-time-management?recruiter=false&utm_source=share_petition&utm_medium=copylink&utm_campaign=share_petition

<https://create.arduino.cc/projecthub/lagsilva/stopwatch-and-lap-timer-with-arduino-2f6184>

This is where we got the idea for time study:-

<https://www.ims-productivity.com/page.cfm/content/Time-Study/>

TENTATIVE TECHNICAL IMPLEMENTATION DETAILS

Software required :-

- 1.Arduino
- 2.MIT(may be)
- 3.Processing(may be)

Hardware required :-

- 1.Arduino
- 2.Ultrasonic sensor
- 3.Gesture sensor
- 4.Bread board
- 5.Connecting wires
- 6.Display
- 7.Soldering Iron

TIMELINE

Provide a tentative plan for the next 5 weeks, that is until the week 13th. Prepare a clearly readable Gantt chart in a Google sheet and embed that into your proposal Google doc. Mention all the activities you will conduct and name the team member who will be primarily responsible.

Week 1	Doing the research on the equipment required and how to use them.
Week 2	Collecting the parts required and do the coding.
Week 3	Complete coding and checking all the parts if they are working or not.
Week 4	Completely assemble the prototype and check its working and change the code if required
Week 5	Finishing the prototype and making it presentable.

REFERENCE LIST

List down all links in a numerically ordered list.

- 1.<https://today.yougov.com/topics/lifestyle/articles-reports/2011/05/05/brother-do-you-have-time>
- 2.https://www.academia.edu/30304258/Survey_on_FSDs_students_time_management_skills
- 3.https://www.researchgate.net/publication/322820215_A_study_on_Time_Management_Challenges_Encountered_by_Employees_in_Hotel_Industry
- 4.https://www.change.org/p/students-problem-of-students-in-time-management?recruiter=false&utm_source=share_petition&utm_medium=copylink&utm_campaign=share_petition
- 5.<https://create.arduino.cc/projecthub/lagsilva/stopwatch-and-lap-timer-with-arduino-2f6184>
- 6.<https://www.ims-productivity.com/page.cfm/content/Time-Study/>

General guidelines (to be removed from your submission)

1. Formatting
 - a. Stick to the template in terms of section names, font type (Roboto), font size (11 pt), single line spacing, and word limit.
2. Freely add visuals with source (if downloaded from somewhere) and make the read interesting.
3. Label references and figures properly.