

# CULTECH 2020

"CULTURAL AND TECHNICAL...  
ALL UNDER ONE SCOPE"



DR.PRACHI (CULTURAL HEAD)

DR.HIMANSHI (TECHNICAL HEAD)

ECE DEPARTMENT , DCRUST

DEEPANSHU (8607709395)

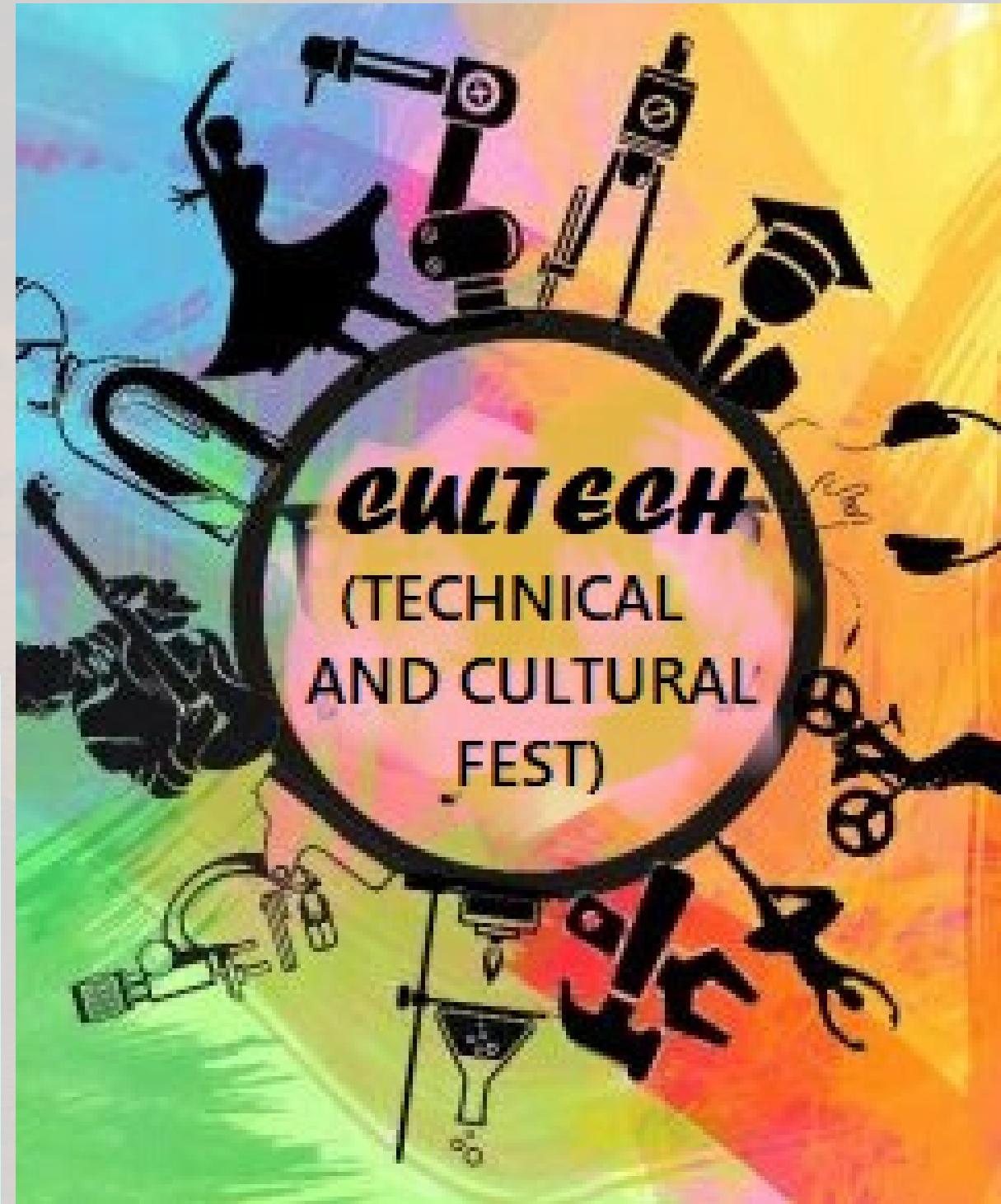
KOMAL (7056600039)

SAGAR (8901250971)

HARJEE(9034019190)

KUSHBOO(9034421388)

YASH VERMA(9138274100)



S.NO.	EVENT	DATE	TIME	VENUE
E V E N T  S C H E D U L E	1      Robo Soccer	19.03.2020	09:00-12:00 PM	MV OAT
	2      Dramatics Events Mono Act	19.03.2020	09:00-09:30 AM	UCC HALL
	3      Group act	19.03.2020	09:30-10:30 AM	UCC HALL
	4      Musical.ly/Dubsmash	19.03.2020	Before 10:00 am	ONLINE SUBMISSION
	5      Singing Bee	19.03.2020	10:30-12:00 PM	UCC HALL
	6      3D-Dance Dcrust Dance	19.03.2020	12:00-01:30 PM	UCC HALL
	7      Ultimate Battle	19.03.2020	12:00-1:00 PM	MV OAT
	8      Rang-e-zest	19.03.2020	2:00-3:00 PM	MV 412
	9      Literary Event ( स्याही - Writing)	19.03.2020	2:30-3:30 PM	MV 315
	10     बयान -ए- ज़बान	19.03.2020	1:30-2:30 PM	UCC HALL
	11     Reuse it or lost it	19.03.2020	3:15-4:15 PM	MV 312
	12     Your Point Of view	19.03.2020	04:00-5:00 PM	MV 315
	13     Battle of Breadboards	20.03.2020	09:15-10:15 AM	MV 309
	14     Friendly Microcontroller	20.03.2020	10:00-11:00 AM	MV 305
	15     Inquizitive	20.03.2020	11:00-12:00 PM	MV 312
	16     Maze Solver	20.03.2020	11:00-12:00 PM	MV 315
	17     Get Set Robo	20.03.2020	11:30-01:00 PM	MV OAT
	18     Master Of Codes	20.03.2020	11:30-12:30 AM	MV 310
	19     Rangoli (only for ECE Department )	19.03.2020	BEFORE 10:00am	ECE dept.
	20     Notice Board (only for ECE Department )	19.03.2020	BEFORE 10:00 am	ECE dept.

## **RULES COMMON IN ALL**

- ANY CANDIDATE FIND MISBEHAVING WILL BE DISQUALIFIED.
- DECISION OF JUDGES WILL BE FINAL. NO CROSS QUESTIONING FROM JUDGES WILL BE ALLOWED.
- ENTRIES WILL BE TAKEN ON FIRST COME FIRST SERVE BASIS.
- ONLY ONLINE REGISTRATIONS ARE ALLOWED. NO OFFLINE ENTRIES WILL BE ENTERTAINED.

# BATTLE OF BREADBOARD

Vinni -: 7982555516

Ankita-: 9467237023

**Description:** This is an event which involves complex circuit analysis and the skills to perform and execute the theoretical laws practically using analog and digital devices and components. As the name suggests, it is an event which will tell us about our understanding about circuits and their implementation.

**The participant must have a thorough knowledge of the following topics:**

- P-N junction diodes and their various applications.
- Junction transistor and its all the configurations(common base ,common emitter ,common collector)
- Transistor as an amplifier
- Transistor as an oscillator.
- BJT biasing.
- Implementation of digitalcircuits using NAND, NOR, OR, AND IC's etc.
- Implementation of digitalcircuits like half adder, full adder, half subtractor, full subtractor etc.

**Team Size: 2 Members per team**

## RULES

- The team with the minimum fault identification would be the winner.
- The participants have to mention the correct values of the electronic components used in the circuit.
- Values of the components should be calculated manually

### Round 1 :

The team would be given a simple analog or digital circuit and they have to draw an equivalent circuit on the paper and breadboard. Time limit for this event will be 15 minutes

### Round 2:

The team members would be given a complex analog or digital circuit and they have to make the equivalent circuit on the breadboard.The time limit for this round would be 20 minutes.

# FRIENDLY MICROCONTROLLER

Astha :- 9050335220

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**Description:** In this event you have interface microcontroller with LCD, 7-segment DISPLAY and LED. Sequence or text will be provided to the participant, Participant have to program the controller and make the connections to the devices. The participant who will complete the task in minimum time with optimized code will be given the first and accordingly the second and third positions will be decided.

## RULES

- Microcontroller 8051 and Arduino is used for the event.
- You can use assembly or C for the programming.
- Datasheet of LCD can be used for command codes.
- One Team can have at max two members.
- Maximum time allowed on kits 15 minutes.
- Only one test run will be allowed for every team.
- First 25 entries will be entertained
- Challenges will be given on the spot

**The participant must have a thorough knowledge of the following topics:**

- Instruction set of 8051 Microcontroller.
- Pin Diagram of 8051.
- Command codes of LCD interfacing.
- Basic knowledge of Digital Electronics and its circuits
- Arduino programming.
- Schematic for interfacing with 4 Pin mode of Arduino LCD 16x2 LCD pin description
- Interfacing Modules: LCD,
- Seven Segment, LED, 4X4 Keyboard

**Team Size: 2 Members per team**

### Round 1 :

This round consist of basic interfacing in which you will interface LED or seven segment with Arduino or 8051 Microcontroller. This will include display of specific number or alphabet and blinking of LED's with different frequency and patterns.

### Round 2:

This round will contain interfacing of 8051 or Arduino with the LCD display. In case of Arduino you will be given problems that will you will be given a pattern, which you will print on LCD. And in case of 8051 you have scroll the display and print the different character on the screen

# INQUIZITIVE

Sheena :- 8607927495

Gitanshi:- 9671343340

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**Description :-** This is one of the many centers of attraction of the fest as this quiz will be taken to another level with the introduction to some interest generating and exciting rounds. The quiz will be a proper quiz with judging panel and an intervener.

## RULES

- Number of participants should be one.
- No use of phone is allowed.
- The decision of jury will be considered as final.
- The question will be in form of MCQ and Fill in the blanks.

**The participant must have a thorough knowledge of the following topics:**

Question based on general knowledge and technical knowledge

**Team Size: 1 Member per team**

## ROUND

1. Total 40 questions each carrying 3 Marks
2. 30 MCQ type questions with 1/3 negative marking for wrong attempt
3. 10 fill in types questions with no negative markings
4. No teams will be made.single participants only.
5. Time limit -20.mins

# GET SET ROBO

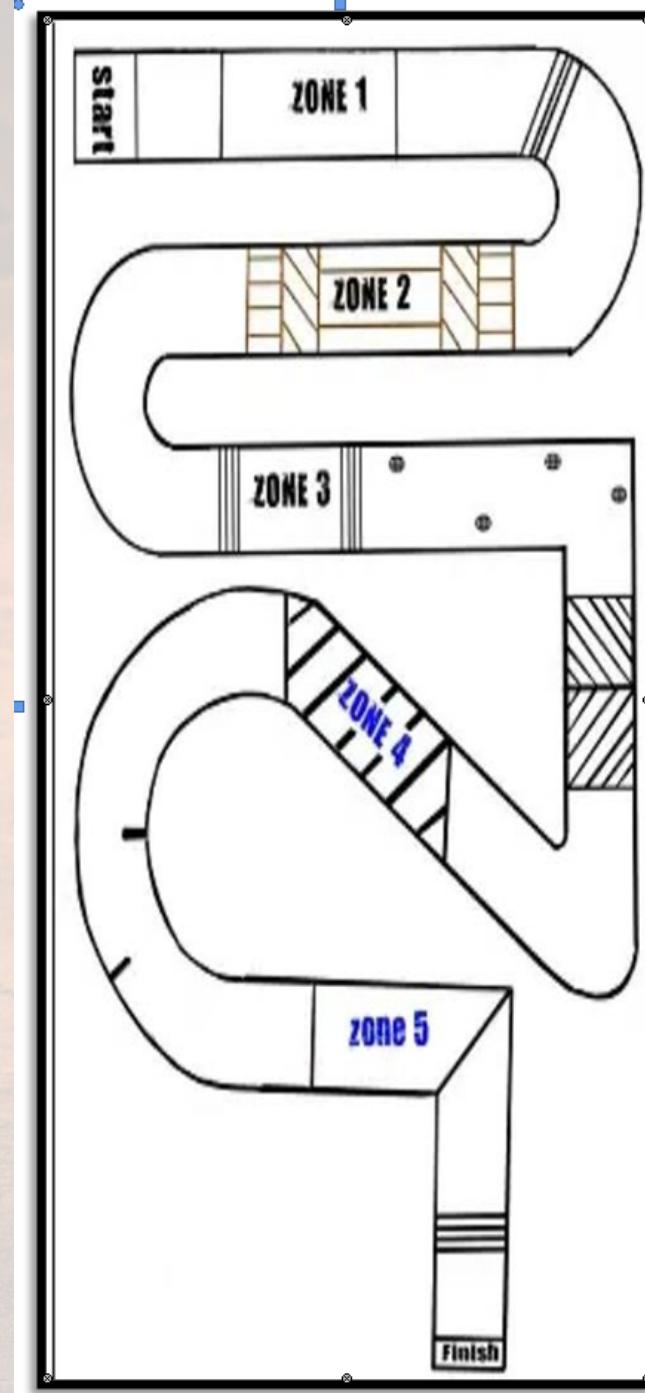
Aman sandhu :- 8875757199

## ARENA

**Description :-** This is basically a manual robot racing in which one has to pass all the zones in minimum time without crossing or touching the boundary.

## RULES

- There is one and only chance to complete the path.
- One bot can participate only once.
- One has to cross all the zones in minimum time without leaving or crossing the track, points will be awarded and deducted accordingly.
- Width of the arena is 30 cm
- so prepare your bots accordingly.

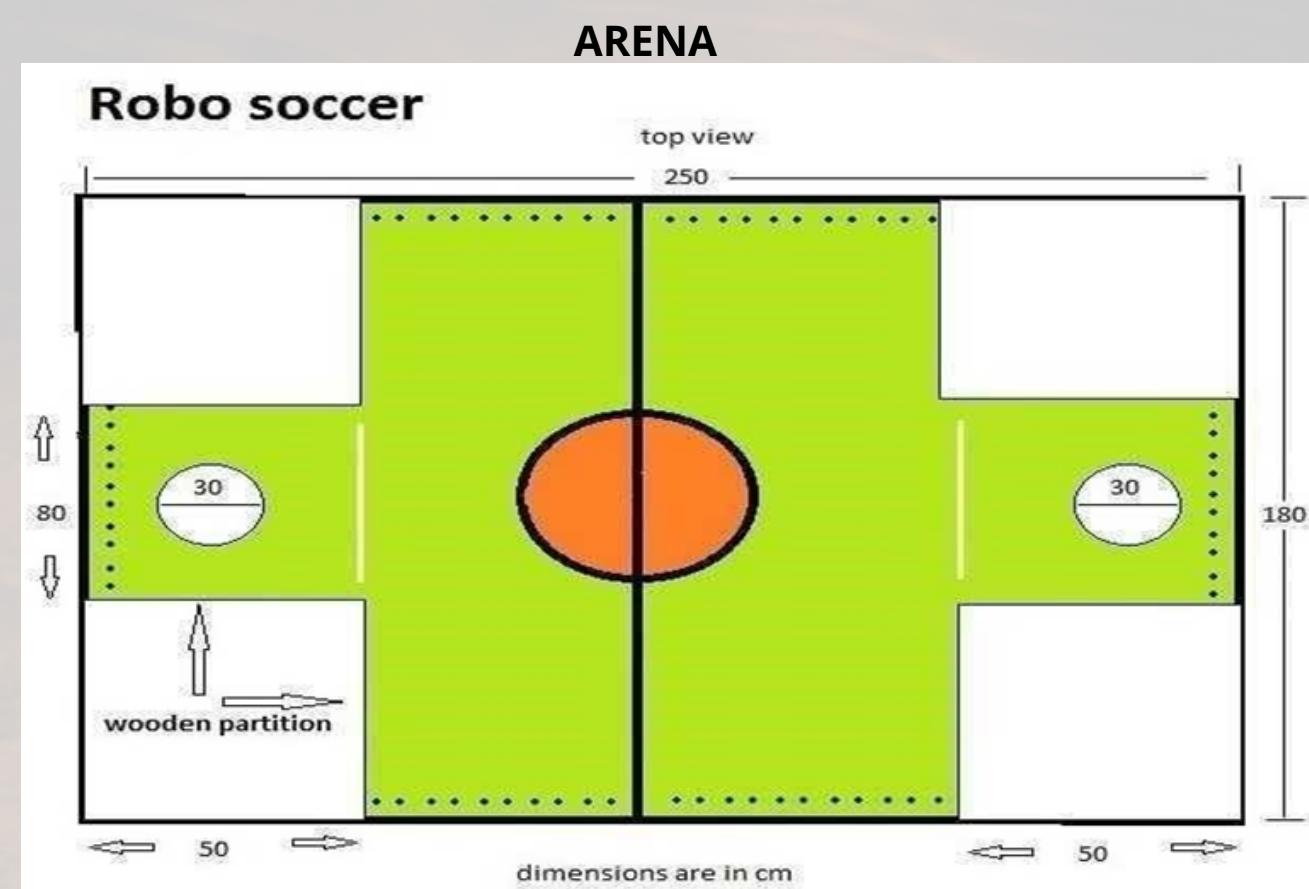


**Team Size: 3 Members per team**

# ROBO SOCCER

Vinay :- 7206917781

**Description :-** Design a robot which plays soccer. The robot would compete against others in 1-1 matches. The team with maximum goals at the completion of the match will emerge as the winner. The competition area will be having a special place defined for the robot's operation



**Team Size: 3 Members per team**

## ROBO SPECIFICATION

**Size:** At the start of a match the robot must fit into a box of side 20\*30, with no height limitation.

**Weight:** The robot must weigh less than 2 KG (excluding the controls/wires) or less.

**Power Specifications:** AC power supply will be provided or the robot must be self-powered. The voltage at any point on the electrical connections should not exceed 12 V DC.

**Robot Class:** Manual (Wired Control).

## RULES

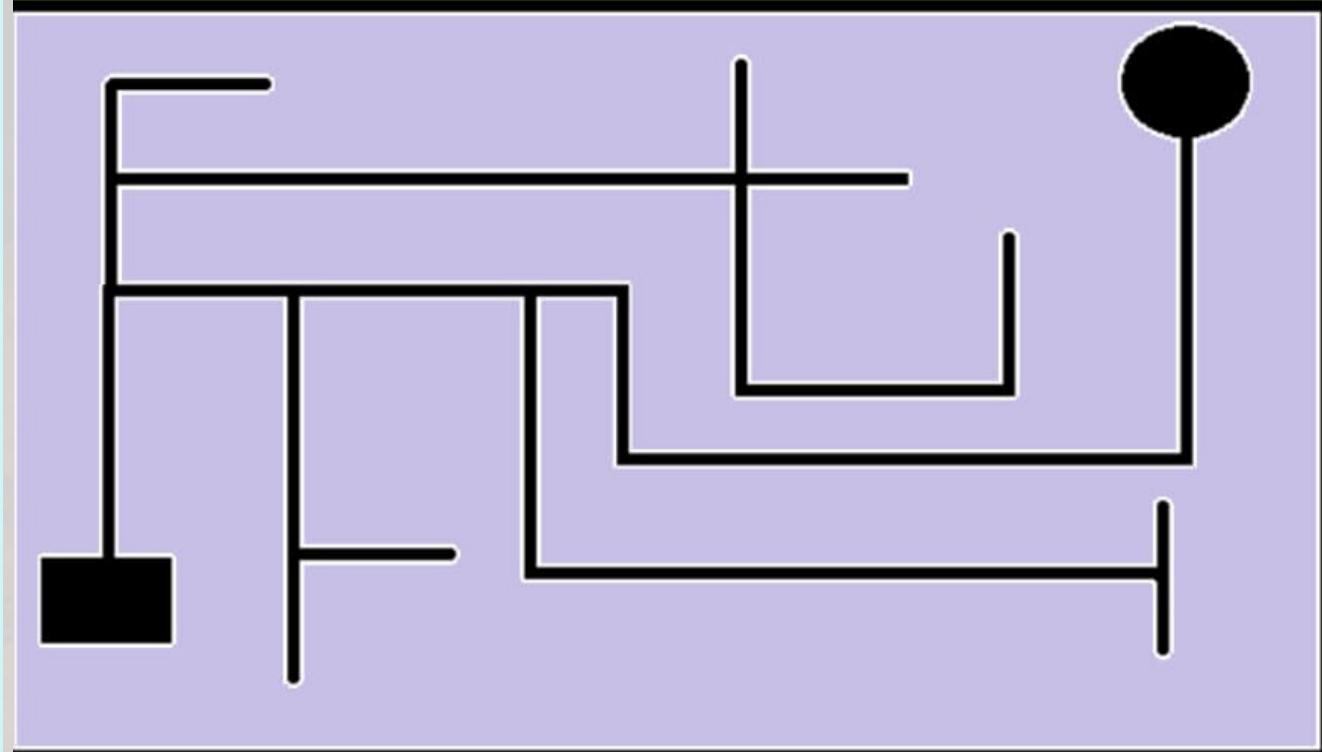
- The game will last for 5 minutes.
- Any team will make opponent team inactive more than 5 second then the
- bots will be moved to their initial position.
- Points rules will be declared at the time of the event.

# MAZE SOLVER

Ankit :- 9991074843

**Description :-** TRACK THE LINE is basically an autonomous robotic event in which the robot has to find the shortest path in the provided maze arena. The robot which will do this in minimum time will be awarded with first price and accordingly the Second and Third pricewill be given

## ARENA



- 1.) The width of black line over white background will be of 2.5cm.
- 2.) Each angle is of 90 degrees.
- 3.) The maze is having only one solution.

## RULES

- Pre-assembled Kit will be straight away disqualified.
- Maximum two chances will be given to each team to solve the maze in minimum time.
- Once the bot crossed the starting line it should remain fully autonomous otherwise it will be disqualified.
- Once any bot goes off the line, it will start again from the point where it went off the line.
- One bot can participate only once.
- The bot has to reach to any of the stop point in minimum time.
- With every touch boat goes of the line 3 second will be added as penalty

**Team Size: 2 Members per team**

# MASTER OF CODES

Raman :- 9467668996

**Description** :- Master of Code is a coding contest which will test the basic understanding and coding skills of the participants. Their performance will be evaluated on the basis of speed and efficiency of the code submitted by them



**Team Size: 1 Member per team**

## RULES

- Anyone caught using unfair means will be disqualified.
- 1st Round : MCQ and Output based questions on C language.
- 2nd Round : Programming challenge on HackerRank for shortlisted students.

# ULTIMATE BATTLE

Amit Kumar :- 9466261948

**Description** :- Battlegrounds is a player versus player shooter game in which up to one hundred players fight in a battle royale, a type of large-scale last man standing deathmatch where players fight to remain the last alive. Players can choose to enter the match solo, duo, or with a small team of up to four people. The last person or team alive wins the match.



**Team Size: 4 Members per team**

## RULES

- No emulator player allowed.
- Squad vs Squad Classic erangle match.
- First 25 teams who registered will be allowed to play.
- Internet will be your own.
- Triggers are not allowed.
- Team using Hacks will be disqualified.
- All 4 players must be present at the venue before the match starts.
- Only Dcrust students are allowed.
- A google form link will be shared for registration before event

# 3-D DANCE

Aarushi -: 8198933332

Nishtha -: 9518460097

**Description** -: 3D is basically a dance competition in which participants can choose any dance form & they have to perform for at least 3-5 minutes. Each participant will be allowed to take part individually or in a team of two (but not more than two) members per team will be entertained.



## RULES

- Time limit 3-4 minutes.
- The performances can be solo or duet but not more than two students are allowed in a group
- There will be two rounds and the shortlisted students will perform in a face off.
- Entries will be limited.

**Team Size: Solo and Duet**

# SINGING BEE

Anika -: 9818820368

B.Giridhar -: 7988690673

**Description** :- IF I CANNOT FLY, LET ME SING!" Man must have asked god for the gift of voice and words and the ability to gracefully decorate his thoughts with language. For the one who sings knows no boundaries but only the joy of expression - the joy that follows a song felt from heart and sung from the soul." So all the singing enthusiasts are invited to showcase their talent this 'CULTECH' a cultural and technical festival organized for all the university students



**Team Size: Solo and Duet**

## RULES

- Time limit for the competition is 2-3 mins. After 3 mins contestant will be disqualified.
- Only fixed entries will be entertained.
- Songs can be of any genre.
- Songs containing vulgar or explicit sexual lyrics will not be allowed
- Judgment will be based on vocal quality, rhythm, composition, coordination and overall impression.
- Participants may bring their own instruments or recorded track

# MONO ACT

Ajit Prasad :- 9068240084

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**Description** :- It includes any type of acting. The stage will be yours for 3 to 5 minutes. Unveil the actor within yourself.



## RULES

- One participant per team is allowed.
- The time allotted will be 3 to 5 minutes.
- The content should not be vulgar or cheap.
- Only limited entries will be entertained.

**Team Size: 1 Member per team**

# GROUP ACT

Rupal:- 9050534702

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**Description** :- It a group act. Bring on any kind of spoof, mime, skit etc. Each team will be provided with 4-7 minutes to display their talent.



## RULES

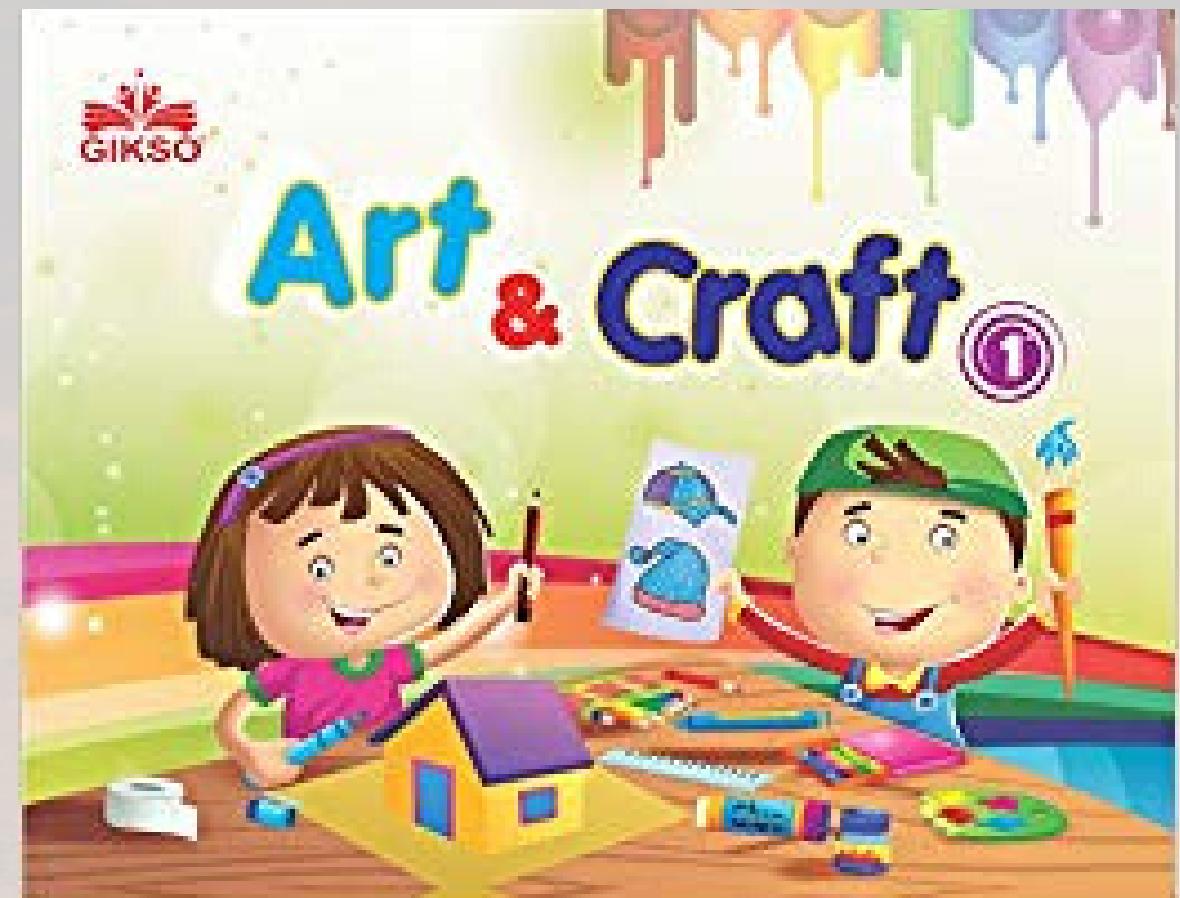
- 3-5 participants per team is allowed.
- The time allotted will be 4 to 7 minutes.
- The content should not be vulgar or cheap.
- Only limited entries will be entertained.
- It can be skit, spoof, mime etc.
- Costumes and other material will not be provided.

**Team Size: 3 to 5 Members per team**

# RANG-E-ZEEST

Nishu-: 8053669244

**Description :-** You will be given topic on the spot for poster making. Basic material will be provided to you and you have to bring your main material.



## RULES

- A poster should be an individual effort.
- The contest is open for students of all branches. Candidates must be a current student with a valid student ID.
- Time limit for this competition is 45 minutes.
- Topic of competition will be on the spot.
- The decision of judges shall be final and abiding.
- Participants have to bring their own material, only sheet will be provided.
- First 40 entries only
- 3 topics will be provided
- Sheets will be provided.

**Team Size: 2 Members per team**

# REUSE IT OR LOST IT

Nisha:- 8295001908

**Description :-** With the growing increase in wastes in our society, from households to industrial wastes, we now require a very innovative approach to get rid of them. Recycling and reusing the valuable waste material can result in development of fantastic and usable products.



## RULES

1. Team shall consist of two members only.
2. Participants will be given 1 hour to show their creativity and 2 minutes to talk about the same.
3. The required waste material and stationery like scissor, thread, etc. should be brought by the participants.
4. Waste material could be anything like tetra packs, bottles, newspapers, old utensils, jute material or any second hand items that otherwise would be thrown away.
5. The material would be rejected if not found to be a waste product or second hand item.
6. No ready or semi-finished model or matter would be accepted from participant in competition.
7. Participants will be judged on Creativity, Utilization of Resources, Artistic composition & design, Eco-friendly rating, Utility of the Product and Overall Presentation.
8. No mobile or Internet means would be allowed to use at the time of Competition.

**Team Size: 2 Members per team**

# बयान -ए- ज़बान

Preeti:- 9871919424

**Description** :- Participant will be given 3-5 minutes for expressing himself/herself. One can speak anything related to literature.



## RULES

- One participant per team is allowed.
- The time allotted to each participant is not less than 3 minutes and not more than 5 minutes.
- The content of the Poem/Prose/Speech should not be vulgar or cheap.
- Judgement will be done on the basis of content and way of speaking
- Content should be original. it should not be copied from internet.
- Only fixed entries will be entertained.

**Team Size: 1 Member per team**

Paras :- 9729581184

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**Description** :- Participant will be given 20 minutes to write on a particular topic which will be given on the spot.



## RULES

- One participant per team is allowed.
- The topic will be given on the spot
- The word limit will be 100 to 200 words.
- Time provided for submitting the entries will be 20 minutes.

**Team Size: 1 Member per team**

# DUBSMASH/ MUSICAL.LY

Manpreet :- 7988900938

**Description** :- Your favorite pass time can help you win a fortune. Sounds fun. Presenting to you the most trending and interesting ÇULTECH DUBSMASH/MUSICAL.LY COMPETITION - where your personal talent is no more hidden, be it the Govinda ankhio se goli maare or Rajnikant's Anna Raskala , mind it !



## RULES

- ALL kinds of dubsmashes/musical.ly videos are allowed. Maximum duration of each should be 1 min.
- The file name for each entry should be clearly labeled with the participant's roll no.
- Only ONE entry per person/group is allowed.
- The group members CANNOT send any other dubsmash entry, whether individually or by teaming up with somebody else.
- In case of such cases, all entries by that person and group will be void
- The content should not be vulgar.

**Team Size: 1 to 3 Members per team**

# YOUR POINT OF VIEW

Pooja :- 9468469953

**Description** :- Are you a budding photographer? An amateur? A professional? Ready with your camera all the time? Or take it out occasionally to capture precious moments and make beautiful memories? Whatever the case might be, CULTECH give you a chance to showcase 'YOUR POINT OF VIEW'. It's a photography event with limited seats where you can get yourself honored for your unique vision.



## RULES

- 5 topics will be given ,choose any 3 and bring your best click.
- Time allotted will be 1 hour.
- Digital manipulation that distorts the reality of the images will not be allowed. Only basic enhancements such as contrast adjustment, or simple cropping will be allowed.
- Each image submitted must be the original an unpublished work of the participant
- The images will be judged by a panel of judges on the following criteria:
  - Artistic/visual appeal.
  - Extent to which the photograph captures the essence of the theme.
- By submitting an image for the competition, the participant will be regarded as having granted the organizer the right to use the image in print, broadcast and/or electronic media without any fee payment.
- The image should not be inappropriate.

**Team Size: 1 Member per team**

# RANGOLI

Deepti:- 9467440428

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**Description** :- This is an inter year Rangoli competition. This is only for the ECE department students



## RULES

- Time allotted will be 1 hour
- Displayed material should not be vulgar.

**Team Size: 6 Members per team**

# NOTICE BOARD

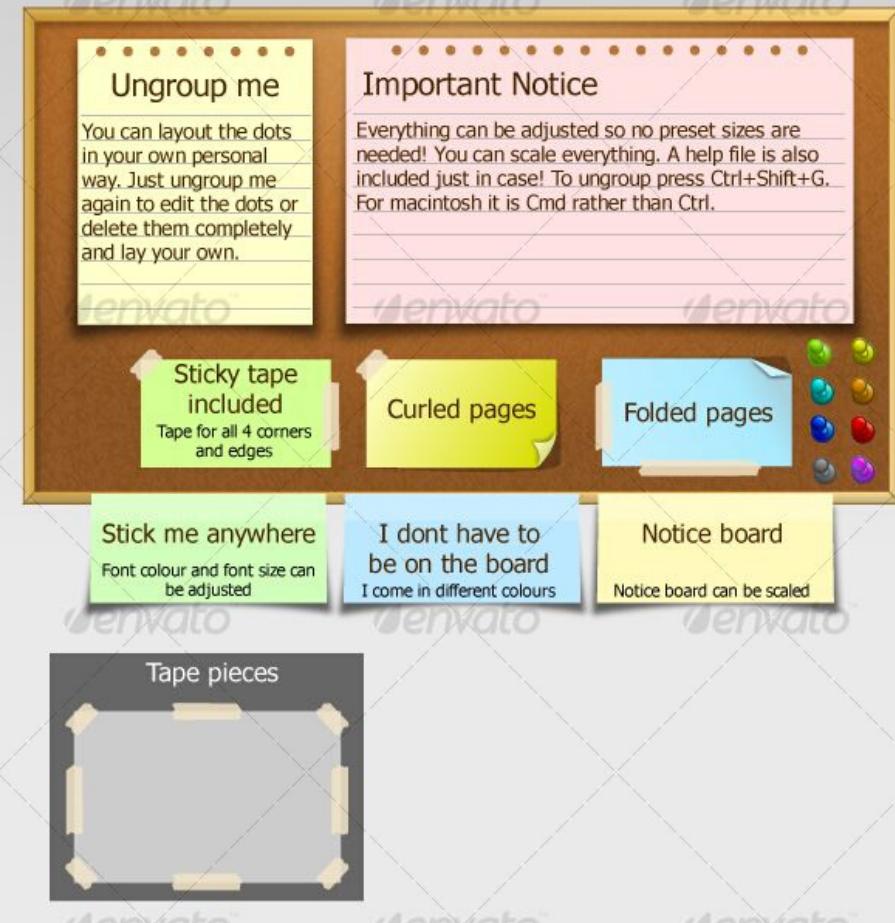
Ritu Raj:- 9996770778

**Description :-** Inter year Notice Board Maintaining competition. The winning team will get trophy.

## RULES

- Your board should cover all aspects such as technical, sports , current affairs etc
- Displayed material should not be vulgar.
- Final decision will be taken by the judges.
- Duration of the event will be 45 minutes.

# Notice Board



**Team Size: 6 Members per team**

