21ˢᵗ ISTE National Annual Students' Convention On "Empowering India through Innovations"

21st ISTE National
Annual Students' Convention
On
"Empowering India through Innovations"

29th - 30th January, 2019

Organized By

L. D. College of Engineering, Ahmedabad, Gujarat India.

Website : www.ldce.ac.in
Ph. No. : 079 - 2630 2887

About Ldce - Ahmedabad

Lalbhai Dalpatbhai College of Engineering, Ahmedabad is a premier engineering college in Gujarat set up with the objective of imparting higher education in various fields of engineering and technology. The institute is affiliated to Gujarat Technological University and administered by Commissionerate of Technical Education, Gujarat State. It is situated in the heart of the city in the vicinity of elite national level institutes like ISRO, PRL, ATIRA, AMA, IIMA, CEPT etc. The institute established in June 1948 offers 14 Undergraduate, 17 Post-graduate, 4 Part-time degree engineering programmes with two centers of excellence, an incubation center and a design laboratory for promoting start up.

About ISTE

The Indian Society for Technical Education (ISTE) is a leading national professional non-profit making society for the technical education system in India with the motto of career development of teachers and personality development of students and overall development of our technical education system. The major objective of the ISTE is to provide quality training programs to teachers and administrators and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.

About The Convention

The ISTE Student National Convention – 2019 is conceptualized to provide platform for demonstrating innovation of inquisitive learners and thereby empowering the sustainable growth of nation at large. This convention will be one of the largest student conventions in today's time. It will have about 70 different events in various categories and will attract more than 10,000 students of various engineering colleges and universities across the nation. Students of engineering colleges and universities approved by AICTE and/or UGC can participate in convention. For registration and further details students can refer the website www.ldce.ac.in.

About Ahmedabad, Gujarat

Ahmedabad – the First World Heritage City of India- represents mix of Art, Culture and Enterprising nature of people. The city is the Karmbhoomi of Mahatma Gandhi and Sardar Patel. Straddling the Sabaramati river, the city has rich heritage and is also an important industrial and economical hub of India. It truly represents an exciting combination of tradition and modernity. In modern era it has grown in to a hub of education as well. The conference venue is about 12 km from Sardar Patel air port and about 8 km from Kalupur railway station.

A few Places of attractions within and nearby city are like Gandhi Ashram, River Front, Lake Front, Shaking Minerates, Nalsarovar Lake, Adalaj step well, Akshardham Temple, Statue of Unity etc.

Sub Themes

- Applied Mechanics: Creators of the Futuristic Structural Innovations
- Automobile: Green Mobility
- Biomedical: Bio-Innovision- 2019
- Chemical: Sustainable Growth of Chemical Industries in India through Innovations
- Civil: CiVil-io-Phile - Innovation and You
- Computer: COMP-e-INNOVARE
- Electrical: Electrifix - from Vision to Realization
- EC: Electro - Sparks 2019
- Environment: Recent Technologies for Waste Minimization
- IT: Towards Smart Solutions using IT
- IC: Innovazone
- Mechanical: Integrating Human Skills with Automations
- Plastics: Innovation and Creativity
- Rubber: Journey with Rubber
- Textile: Innovative Engineering Applications of Textile

Chief Patrons

- Prof. Pratapsinh Desai, President ISTE
- Prof. (Dr.) Navin Sheth, Vice Chancellor, GTU
- Ms. Anju Sharma, IAS, Principal Secretary, Education Department, Gujarat
- Ms. Avantika Singh, IAS, Directorate of Technical Education, Gujarat

Patron

Dr. G. P. Vadodaria,
Principal, L. D. College of Engineering

National Advisory Committee Members

Dr. Dileep Malkhede
Dr. R. Murugesan
Dr. K. Manivannan
Prof. Bhaba Ranjan
Dr. T. S. Indumati
Prof. Vijay Dattatraya Vaidya
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Dr. Rupesh P. Vasani
Prof. Bharat J. Sheth
Dr. Sanjay K. Dave
Prof. Shilpa Kathad
Prof. K. Venkateshwarlu
Dr. Suryakant Vaishnav
Prof. Jagdish T. Patel

Section Management Committee Members

Prof. (Dr.) M. B. Dholakia, Head, Civil Engg. Dept.
Prof. A. R. Gandhi, Head, Applied Mech. Dept.
Prof. (Dr.) Shreya Mehta, Head, Mechanical Engg. Dept.
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Prof. (Dr.) Dhaval Parikh, Head, Computer Engg. Dept.
Prof. (Dr.) Hiteishi Diwanji, Head, IT Dept.
Prof. Usha Neelakantan, Head, EC Dept.
Prof. Gaurang H. Ban, Head, Envt. Engg. Dept
Prof. Rupande N. Desai, Head, Rubber Tech. Dept.
Prof. Bharati G. Basantani, Head, Plastics Tech. Dept.
Prof. (Dr.) Himanshu C. Patel, Head, General Dept.
Prof. R. J. Jani, Head, Automobile Engg. Dept.
Prof. (Dr.) Kunal Bhoyaniya, Head, Biomedical Engg.
Prof. (Dr.) Manish Thakkar, Head, IC Dept.

Contact Details

Dhruvi Wadhwana:	8154809252
Chaxu Valand:	7818058010
Vignesh Sengunthar:	7600739265
Yash Pathak :	9714088840
Preet Shah:	9974055432
Narayan Raval:	7567148972

Main Attraction

The main attraction of the Convention is DRONATHON event. The prizes worth of rupees one lakh are to be awarded in this event. For other events prizes worth of lakhs of rupees are to be distributed among the winning participants.

Registration

For registration kindly visit: www.ldce.ac.in (Last Date of Registration: 16th January, 2019)

Detailed rules, regulations and dead lines about the events are mentioned on the website. for off-line registration link is available on web site

Registration Fees Details

Registration fees:
ISTE Student members: Rs 30/-
(for participation in any one event)
Non ISTE student members: Rs 50/-
(for participation in any one events)
ISTE Faculty delegates (Meal Included):   Rs. 500/-
Non ISTE Faculty delegates(Meal Included):   Rs. 600/-

Registration Fees are non refundable. Arrangement for accommodation will be provided only for student participants outside Gujarat at nominal rate.

Chief Co-ordinators

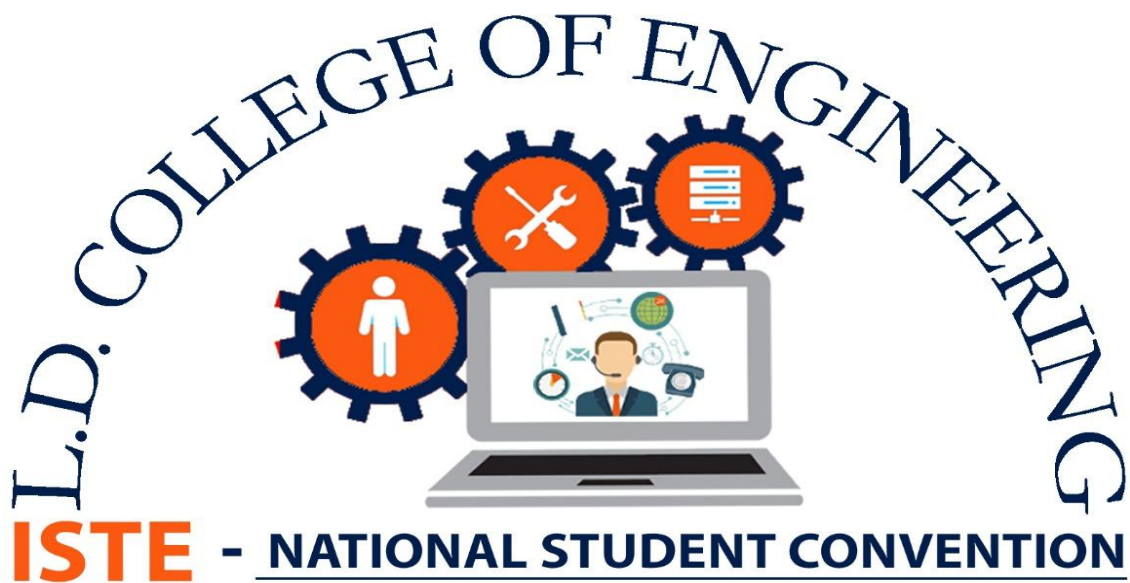Prof. (Dr.) Sachin P. Parikh,
Head of Chemical Engineering Department

Prof. Ashwin Thakkar,
Head of Textile Technology Department

For any further queries please send e-mail at iste_ldce@ldce.ac.in

21ˢᵗ ISTE National Annual Students' Convention

"Empowering India through Innovations"

29-30ᵗʰ January, 2019

Event Details

Applied Mechanics Department

Creators of the futuristic structural innovations

Photography :

Information : self explainary phorograph of special structure pertaining to civil engineering clicked by participant.

Problem Statement : The photograph must be pertaining to innovative structural design concepts in the area of RCC, Steel , composite structure etc.

Rules :

1. The organizer reserves the right to reject images with incomplete details required under the photo submission page. The judging panel reserves the right not to award the prizes if the photographs submitted do not meet the requirements stated in this document
2. Entries should be in JPEG format and at least 1600 pixels wide for a horizontal image or 1600 pixels tall for a vertical image.
3. Digital manipulation that distorts the reality of the photos will not be allowed. Only basic enhancements such as sharpening, exposure, color and contrast adjustment, or simple cropping will be allowed.
4. Images that have won prizes in prior competitions, or have been used for commercial purposes and/or been published will not be eligible.
5. The file name for photograph should be clearly labeled with participant's name. The email should contain participant's name, phone no. & enrolled college name.
6. Participants are entirely responsible for all entry-related costs.
7. Other rules of the event will be intimated at later stage.
8. The images will be. Photo image will carry 60% weightage and the quality of descriptive write-up with presentation (5 Minutes) bear the rest 40%. No correspondence pertaining to the selection process and decision will be entertained.
9. The panel of judges will evaluate the entries based on the artistic/visual appeal and the extent to which the photograph captures the essence of the theme.
10. All entries should reach before 22nd January 2019.

Judging criteria :

1. Innovation.
2. Clearity of content along with artistic/visual appeal by image.
3. Presentation.

Tentative schedule : 1 Day event. The results will be declared on the following day.

Quiz :

Information : Quizzing event tests the knowledge of participants in a wide range of fields of Civil engineering. Quiz will cover areas of Geotechnical engineering and & structural engineering.

Rules :

1. This is an on the spot event. Quiz will be conducted at the event only.
2. The event is open to all and number of entries is limited to 50 only.
3. Other rules of the event will be intimated at later stage.
4. Participants are entirely responsible for all entry-related costs.
5. The Organizers reserve the right to reject entries with incomplete details.
6. The decision of judges shall be final and binding.

Judging criteria :

1. Score achieved by the teams.

Tentative schedule : 1 Day event. The results will be declared on the following day.

Idea Presentation :

Information : The first move in creation of any wonder in construction is the fabrication of its miniature representation which can be a model/animation/sketches/videos created by participant.

Problem Statement : Civil engineering is a field which is directly linked with practical experiences in constructing structures and model/animation/sketches/videos are requisite for demonstration of many basic engineering concepts and preliminary design and analysis of structures.

Rules :

1. The event is open to all and number of entries are limited to 50 only.
2. Team must consist of minimum 2 member and maximum of 5 members. Participant can register for only one team.
3. The model should be handmade with household and stationary tools. Readymade and factory model are not acceptable.
4. Model/animation/sketches/videos will carry 60% weightage and the quality of descriptive write-up with presentation bear the rest 40%.
5. Animation/sketches/videos should be original prepared by participant only. Readymade and copied from internet/other sources are not acceptable.
6. Model/animation/sketches/videos that have won prizes in prior competitions, or have been used for commercial purposes and/or been published will not be eligible.
7. Teams have to present the detailed idea behind all features of the model/animation/sketches/videos within 5 minutes and there will be a query session of 5 minute at the end of the presentation.
8. Other rules of the event will be intimated at later stage.
9. Participants are entirely responsible for all entry-related costs.
10. The Organizers reserve the right to reject entries with incomplete details.
11. The decision of judges shall be final and binding.

Judging criteria :

1. Innovative concept
2. Degree of difficulty
3. Communication and presentation skill

Tentative schedule : 2 Day event. The results will be declared on the 2nd day.

Creative charts :

Information : Civil engineering is a field in which laboratory testing are pre-requisite for any construction activity.

Problem Statement : Creative Charts demonstrating laboratory practical of Mechanics of solids, Soil Mechanics, Earthquake engineering and Concrete Technology are to be prepared.

Rules :

1. The event is open to all and number of entries are limited to 50 only. Each participant can submit only one (1) entry.
2. Size of the chart should be of 2'x3' four color flex banner shall be submitted & will remain with organizer.
3. Other rules of the event will be intimated at later stage.
4. Participants are entirely responsible for all entry-related costs.
5. Team must consist of minimum 2 member and maximum of 5 members. Participant can register for only one team.
6. Charts that have won prizes in prior competitions, or have been used for commercial purposes and/or been published will not be eligible.
7. The Organizers reserve the right to reject entries with incomplete details.
8. Charts should be original prepared by participant only. Readymade and copied from internet are not acceptable.

Judging criteria :

1. Innovative creation
2. Clearity of content
3. Communication and presentation skill

Tentative schedule : 1 Day event. The results will be declared on the following day.

Demonstration of concepts of structural engineering using models :

Information : Structural analysis is based on various principles and theorems.

Problem Statement : Models are requisite for analysis of structures and demonstration of many structural engineering concepts.

Rules :

1. The event is open to all and number of entries are limited to 50 only.
2. Team must consist of minimum 2 member and maximum of 5 members. A Participant can register for only one team.
3. The model should be handmade. Readymade and factory model are not acceptable.
4. Models presented will carry 60% weightage and demonstration bear the rest 40%.
5. No correspondence pertaining to the selection process and decision will be entertained.
6. Teams have to present the detailed idea behind all features of the model within 5 minutes and there will be a query session of 5 minute at the end of the presentation.
7. Model that have won prizes in prior competitions, or have been used for commercial purposes and/or been published will not be eligible.
8. The decision of judges shall be final and binding.
9. Other rules of the event will be intimated at later stage.
10. Participants are entirely responsible for all entry-related costs.
11. The Organizers reserve the right to reject entries with incomplete details.

Judging criteria :

1. Innovative creation.
2. Communication and presentation skill.

Tentative schedule : 2 Day event. The results will be declared on the 2nd day.

Automobile Engineering Department

AutoArena

Theme: Green Mobility

Auto Quest:

"Think you have auto-quotient in you?

Auto Quest, quiz competition, is the ultimate destination for auto passionate and step towards inculcating auto passion by recognizing and developing young talent in the auto field. Auto Quest provides learning from individuals and exploring the exhilarating world of automobiles:

RULES:

- This contest is open to all individuals.
- Team must consist of 3 participants. To be eligible to participate, all the registered team members must be physically present at venue.
- All team members must be from same college; no inter-college teams are allowed. However, members from different branches of the same college/institute can form a team.
- A maximum of 2 teams per college/institute can participate.
- If require, an elimination round will be arranged.
- The decision of the judges will be final and binding.

TENTATIVE SCHEDULE: 29/01/2019, 11:30 AM to 03:00 PM

Auto-thought Canvas:

A poster is a graphically based approach to presenting ideas. In presenting your idea with a poster, you should aim to use the poster as a means for generating active discussion of the thought.

RULES:

- The event is open to all.
- Team must consist of 3 participants.
- Competitors have to prepare the poster on a A2 size sheet (16.5"x23.4").
- Theme for the poster presentation-"Effects and Solutions of Automotive Pollution"
- The poster must include the title, name of presenters and affiliated institute.

- Limit the text to about one-fourth of the poster space, and use (graphs, schematics, etc.) to present your thought.
- The competitors have to bring necessary materials except A2 size sheet for event.
- Stipulated time for the event is 120 minutes.
- Participants are not allowed to use any resources available over internet and are expected to be honest.

TENTATIVE SCHEDULE: 30/01/2019, 11:30 AM to 03:00 PM

Market the Model:

INFO: This event is an elocution competition where in the participants are supposed to market the car model.

RULES:

- This contest is open to all individuals.
- Team must consist of 3 participants. To be eligible to participate, all the registered team members must be physically present at venue.
- All team members must be from same college; no inter-college teams are allowed. However, members from different branches of the same college/institute can form a team.
- A maximum of 2 teams per college/institute can participate.
- Stipulated time for the study of given car model is 45 minutes.
- Team need to market the model in front of audience and judges in unique way.
- The speech may not exceed a duration of 10 minutes. The time limit will be strictly enforced.
- Permitted languages are English/Hindi.
- The decision of the judges will be final and binding.

TENTATIVE SCHEDULE: 29/01/2019, 03:30 PM to 06:00 PM

Autocrafts:

This event requires manual dexterity or artistic skill to construct automobile miniature models to the finest details.

RULES:

- The event is open to all.
- Team must consist of 3 participants. To be eligible to participate, all the registered team members must be physically present at venue.

- All team members must be from same college; no inter-college teams are allowed. However, members from different branches of the same college/institute can form a team.
- A maximum of 2 teams per college/institute can participate.
- Kit will be provided to each team with necessary hand tools. No personal hand tools will be allowed.
- The decision of the judges shall be final and binding.

TENTATIVE SCHEDULE: 30/01/2019, 02:30 PM to 06:00 PM

Car Sketchers:

Car sketchers is a hand-drawn art work event which aimed at providing opportunity to creates custom handmade art piece.

RULES:

- The event is open to all.
- Team must consist of 3 participants. To be eligible to participate, all the registered team members must be physically present at venue.
- All team members must be from same college; no inter-college teams are allowed. However, members from different branches of the same college/institute can form a team.
- A maximum of 2 teams per college/institute can participate.
- Sketch must be authentic, your own design and new. Violation of this rule will result in disqualification.
- Sketching kit will be provided to each team.
- The decision of the judges shall be final and binding.

TENTATIVE SCHEDULE: 29/01/2019, 02:30 PM to 06:00 PM

Bio Medical Engineering Department

Bio-Innovision - 2019

" Empowered by Innovation"

1) E-Ideate

INFO: E-Ideate is an event that invites innovations that have ability to convert ideas into invoices, to solve problems that pervade society. Competitions is based on empowering the nation through Digital Innovation in E-health. The top 10-15 idea submissions in event will be shortlist to present their ideas to the experts in their respective fields.

Problem Statement: Empowering the nation through Digital Innovation in E-health

Rules & Judging Criteria:

- Presentation can be made individually or in group of 2 members.
- The official language for the presentation is English.
- Idea Presentation should be based on empowering the nation through Digital Innovation in E- health to solve the current problems in society.
- The top 10-15 idea submissions in event will be shortlist to present their ideas to the experts in their respective fields.
- Time provided for each team will be 10 minutes for presentation and 5 minutes for the question and answer round.
- The criteria for the evalution of presentation based on best solution for the current problems in society and Presentataion skills.
- The decision of judges and event head shall be treated as final.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

2) Bio-Print

INFO: A Bio-Print is a poster presentation event which can take you forward to witness an Innovation in Rehabilitation: Current Practices & Future Perspective with creative ideas which put forward with some solid supportive information.

Problem Statement: Innovation in Rehabilitation: Current Practices & Future Perspective

Rules & Judging Criteria:

- Poster can be made individually or in group of 3 members.
- The official language for the posters is English.
- Poster presentation can be based on innovation in rehabilitation: current Practices & Future Perspectives

- Time provided for each team will be 10 minutes for presentation and 5 minutes for the question and answer round.
- The poster should be strickly follow the format which is given during the time of registration(or on Event Website)
- The decision of the judges and event head shall be treated as final.

Tentative Schedule: 1 Day event. The results will be declared on the following day.

3) Techie Talks

INFO: It is an extemporal technical debate where nothing matters, but knowledge. The competition will have argument on the pros and cons of Current primary health care practices and research challenges.

Problem Statement: Current primary health care practices and research challenges.

Rules & Judging Criteria:

- There will be 2 teams - the affirmative and opposing team The speakers on affirmative team will present arguments in support of topic
- The opposing team is to provide arguments against the claims made by affirmative team. The argument made must be as clear, related to context,logical & innovative.
- After Selection of topic, there will be time of 10 minutes to strategize. No changing of favor during debate is permitted.
- All the teams must provide the best and alternative solution if any.
- Use of mobile phones or any paper will lead to disqualification.
- Each team must end their topic with closing statement (Conclusion)
- There cannot be any interuptions the speakers must wait for their turn.
- The winning team will be decided by the judges panel.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

4) Circuit Hunt

INFO: It is an event where one has to think like an engineer and prove it by circuiting electronic components and getting desired output to show dexterous in electronics.

Problem Statement: Analog & Digital Cricuit Design.

Rules & Judging Criteria:

- Circuit can be made individually or in group of 2 members.
- There will be total 2 rounds. First round will be elimination round with objective type questions from fields of Analog and Digital Circuits. Second round will be circuit designing on bread board round in which actual implementation has to be made.
- You have to implement a specific Analog & Digital circuits given at time of event by using the components provided by us on a Bread Board.

- All the components and material required for the circuit will be provided by us. On the basis of clues, teams will hunt and earn points. Earlier you hunt, more points you earn.
- **Round-1:** Question sheets will be provided to the registered teams on a particular time. you will have to solve the questions in 10 minutes and Design the circuit diagram in 15 minutes. Answers have to be written on the same sheet. Submitting the sheet early will benefit the team as time bonus. Results will be declared on the same day and selected teams will have to report for next (Final) round.
- **Round-2:** Teams that will qualify after the first round will implement Analog & Digital circuits. A total of 30 minutes will be given to each team. All the components and required material will be provided to the teams.
- You must design the circuit by using the components provided by us.
- You may not use any other component/material however in case something got damaged you may request the organizer to replace the components/parts.
- Teams should draw circuit diagram of the application depicting all the principles and theories involved in circuit as well as the working of the Application on a Chart Sheet.
- The implementation will be judged according to the Design of circuit, Compactness of design, Desired output, Breadboarding skills/neatness of the implemented circuit.

TENTATIVE SCHEDULE: 2 Day event. The results will be declared on the following day.

5) Medi-Mod

INFO: It is a Model Making event which can take you forward to witness an Innovation in recent trends in Medical Instrumentataion with creative ideas.

Problem Statement: Recent trends in Medical Instrumentataion

Rules & Judging Criteria:

- Model design can be made individually or in group of 2 members.
- All necessary material will be carried out by participant itself.
- Maximum time for creation will be 60 minutes.
- Model design should be based on recent trends in medical instrumentataion
- The criteria for evaluation include the finishing, perfection, and innovation in recent trends in Medical Invention.
- Total time duration for the model making is 60 minutes.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Chemical Engineering Department

Chem-O-Nova

"Sustainable Growth through Innovation"

Papyrus:

INFO: Research and Review Papers prepared by students on given theme relevant to chemical engineering

RULES:

- Participant have to submit camera ready paper on or before 15th Jan, 2019. Papers are to be sent to **ldcechemical.iste2019@gmail.com**.
- The paper should contain the following: Title, Abstract, keyword, introduction, material & methods, Result & discussion, Conclusion, Acknowledgement, References.
- Results of the preliminary screening will be notified by 22nd Jan, 2019. Only selected papers will be eligible for presentation.
- Participants have to bring two printouts of the selected paper during presentation.
- Participants will be given 15 minutes time for presenting paper (POWERPOINT slides) followed by 5 minutes Q&A session.
- Only authors who have registered and presented the paper will be issued certificate.
- The decision of the judges will be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

Paper will be scrutinised by the judges based on:

- Novelty of research work
- Technical aspects
- Practical Implementation

TENTATIVE SCHEDULE: 29-Jan-2019 10:30 AM to 3:30PM. The results will be declared on the following day.

Brain-O-Chem:

INFO: Quiz Competition

RULES:

- Maximum Two participant in one group
- 3 rounds of quiz - Technical, Audio-Visual, Rapid fire
- Event is open to all.
- The subject range will cover chemical engineering and allied sciences.
- The decision of the quizmaster will be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

Winners will be decided based on the scores in various rounds

TENTATIVE SCHEDULE: 30-Jan-2019 02:30 PM to 4:30PM. The results will be declared immediately after the event.

Chemo-SOLVEnt

INFO: Problem Solving Challenge.

RULES:

- Problem will be displayed on 29th Jan morning in the website as well as event venue.
- 2 participant in one group
- Participants should submit printed solutions. Handwritten solutions will not be accepted.
- The decision of the judges will be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

Winners will be decided by experts based on various parameters like:

- Innovativeness.
- Eco-friendliness.
- Cost effectiveness.

TENTATIVE SCHEDULE: 29-Jan-2019 04:00 PM to 6:00. The results will be declared on the following day.

Mod-Innova:

INFO: Working/Non working model making Competition

RULES:
- Maximum 3 participants in one group
- Participant should bring model at their own expense
- Only electric connections will be provided
- Both working and non-working model allowed
- Student has to explain the model and its working for 5 minutes to judges during evaluation.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA: Models will be evaluated based on:
- Novelty of concept
- Complexity of model
- Practical applicability

TENTATIVE SCHEDULE: 30-Jan-2019 10:30 AM to 12:30PM. The results will be declared after the event.

Chem-Post

INFO: Poster presentation competition by student based on the event theme relevant to chemical engineering

RULES:
- Maximum 2 participant in one group
- Printed or handmade posters are allowed.
- Poster size: 4 ft × 3 ft standard
- Participant will have to present the poster before evaluation committee.
- Only participant who have registered and presented the poster will be issued certificate.
- The decision of the judges will be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

Winners will be decided by experts based on the concept, content and presentation

TENTATIVE SCHEDULE: 30-Jan-2019 01:00 PM to 4:00PM. The results will be declared immediately after the event.

Civil Engineering Department

CiVil-io-Phile

"Innovation and You"

WAI- What An Idea?

INFO: The initial move in a creation of any wonder in construction is the fabrication of its miniature representation which is a model/Poster.

Civil engineering is a field which is directly linked with practical experiences in constructing structures and models requisite for analysis of structures and demonstration of many basic engineering concepts.

PROBLEM STATEMENT: The road to success is always under construction. Can you poster/model it?

RULES:

- The event is open to all.
- Team must consist of minimum of two and maximum of 5 participants.
- Each team must consist of at least one member from the Department of Civil Engineering.
- Teams have to present the detailed idea behind all the features of the model/Poster within 15 minutes and there will be a query session of 5 minutes at the end of the presentation.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.
- The model/Poster shall be strictly related to the innovations in Civil Engineering.

JUDGING CRITERIA:

1. Contribution in making the model.
2. Innovation
3. Economic feasibility.
4. Detailing
5. Presentation.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Design-o-Metron:

INFO: Imagination is not only to device which has no existence but to perceive what really exists. Imagination is not an art, but the method of learning. Design-o-metron, as the name suggests the event is based on designing and measurements.This is an on the spot event which tests the perception and modelling abilities. It is the 2-D visualization of given 3-D structure using AutoCAD software.

PROBLEM STATEMENT: Problem statement of the event will be released on the spot.

RULES:

- The event is open to all.
- Team must consist of 3 participants.
- Each team must consist of at least 1 member from Department of Civil Engineering.
- Stipulated time for the event is 180 minutes.
- Participants are not allowed to use any resources available over internet and are expected to be honest.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1.Innovation.

2.Economic feasibility.

3.Detailing.

4.Presentation.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Civilocution:

INFO: This event is an elocution competition where in the participants are suppose to prepare and speech on any of the topics related to Civil Engineering.

RULES:

- The topic should be related to Civil Engineering.
- The speech may not exceed a duration of 5 minutes. The time limit will be strictly enforced.
- Permitted languages are English/ Hindi.
- The decision of the judges will be final and binding.
- The speaker is expected to memorize their speech and is not allowed to read any part of the speech from paper, notes, cards or flash cards.
- The event volunteers are to be supported and listened to whenever and wherever needed.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Edifice:

INFO: "We shape our edifice, thereafter, they shape us."

Is a case study event which is aimed at providing the participants an opportunity to explore their understanding of Civil Engineering. The event focuses on addressing different problems faced by Civil engineers and bringing out new innovative technologies into life.

PROBLEM STATEMENT: The case studies will be provided from any one of these: Transportation Engineering, Environmental Engineering, Water Resource Engineering, Geology and Surveying.

RULES:

- The event is open to all.
- The team must consist of minimum of 2 and maximum of 5 participants.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1.Innovation.

2.Economic feasibility.

3.Detailing.

4.Presentation.

TENTATIVE SCHEDULE: 2 Day event. The results will be declared on the following day.

Scavanger Vortex:

<u>INFO:</u> The missing treasure of Sir John Smeaton. You are here to find the long lost treasure of Sir John Smeaton. For those of us climbing to the top of the food chain, there can be no mercy. There is but one rule: Hunt or be Hunted!

PROBLEM STATEMENT: The event will be held in 2 levels. The problem statement will be provided on he day of event.

<u>RULES:</u>

- The event is open to all.
- The team will be of minimum 2 and maximum of 4 participants.
- The clues are to be found out in a given time limit.
- The scavenger vortex consist of many clues, each one leading to the next clue.
- Do no search for the clues in off area limits.
- You can move the things but you can not harm it. If any harm is done then it is to be reimburshed and finally the disqualification of the team.
- All team members must stay together during the scavenger vortex and are encouraged to work together to work the clues.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

TENTATIVE SCHEDULE: 2 Day event.

Computer Engineering Department

Comp-e-Innovare
"Computation, Innovation, Challenge and You"

1). Poster Presentation :

INFO: Engineers, like all professionals, must possess a well-developed ability to communicate and the poster presentation is one of the way to express the concept. It is designed to emphasize the ability to deliver a visual presentation. Subject matter is related to some area in the field "Deep learning & Machine learning ".

RULES:
- The event is open to all.
- It is Team Event
- Team size : Maximum 4 members
- The subject matter of the poster must technically related to "Deep learning & Machine learning ".
- Poster Specification: Size 3 ft X 4 ft Flex Banner. Suggested font sizes Title: Times New Roman (90pts), Team member's name, guide name: Times New Roman (48pts), Figure citation: Times New Roman (24pts), Content: Times New Roman (30pts).
- Max 10 min for the presentation before jury
- Final decision will be taken by coordinator.

JUDGING CRITERIA:
- Innovation and Design.
- Detailing.
- Presentation.

 TENTATIVE SCHEDULE: 29th Jan 2019, 11:30 to 1:30 pm. The results will be declared on the same day.

2). JavaThon:

INFO: Lets have fun on platfom independent language. Show your Java coding skills to solve given problem.

PROBLEM STATEMENT: Problem statement for the coding will be provided on the spot.

RULES:
- The event will be held in set of rounds. First round will be Elimination round based on JAVA MCQ . After that as per no of teams remaining further coding round(s) will be planned.
- The event is primarily for Computer Background Students.Although students having good programming skills in java from any background can participate.
- The team will havemaximum 2 members.
- Internet searching is not allowed while coding or MCQ Test.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.
- In case of any discrepancy , event committee decision will be final.

TENTATIVE SCHEDULE: 29th Jan 2019 2:30 to 5:30pm. The results will be declared on the same day.

3). Mind Sport:

INFO: This quiz competition is based on computer engineering subjects problems. It will be an MCQ Quiz which is similar to KBC. Question sets are ranging from 1 to 10 sets according to complexity of set questions increases.

Computer Engineering touches algorithms, data structure, programming, networking, data science, AI, Communication , networking, advance technologies & their application in all the ways. The objective of this quiz to find the soluiton of problems from different areas of computer engineering discipline.

PROBLEM STATEMENT:
Solve the computer engineering problems in given time limit instantly & discuss the technique to solve it.

RULES:
- The event is open to all.
- Individual student can participate.
- Participant has to play fastest fingure first to attend the quiz.
- There are 10 question in quiz. Each question is for individual stage to clear.
- There are four life lines. 50:50%, phone a friend, Expert help, Public Voting.
- Along with participant , any one from audience can answer the question.
- Participant will be given 60 seconds to answer the first 4 questions, 120 seconds for next 3 question, for 300 seconds for last three questions.The time limit will be strictly enforced.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.
- Stipulated time for the event is 180 minutes.
- The Quiz questions shall be strictly related to Computer Engineering.
- Permitted languages are English/ Hindi/Gujarati.

JUDGING CRITERIA:
- Time Limits.
- Exact Answer Matching & Technique to solution.
- Spontanety

TENTATIVE SCHEDULE: 30th Jan 2019 10:00AM to 1:00pm, The results will be declared on the same day.

4). Project Competetion:

PROBLEM STATEMENT: Projects are solution to real world problems of the society. Can you solve one?

RULES:
- The event is open to all.
- Team must consist of minimum of two and maximum of 3 participants.
- Each team must consist of atleast one member from the Department of Computer Engineering.
- Teams have to present the project within 15 minutes and there will be a query session of 5 minutes at the end of the presentation.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.
- The project shall be strictly related to the innovations in Computer Engineering.

JUDGING CRITERIA:
- Description of problem and design of solution
- Execution and tools used
- Innovation
- Economic feasibility.
- Presentation.

TENTATIVE SCHEDULE: 30-01-2019 From 2:00 pm to 4:00 pm. The results will be declared on the same day.

5). Comp-Clave:

INFO: Lets gather to elect the latest trends in computer technology which leads to the innovation and empowering our nation.

PROBLEM STATEMENT:
Debate on "Impact of Innovative IT technology on Indian Society"

RULES:
- Two teams will be defined from the total registered candidates. One team will talk in favour and other in against.
- We will use chits for the bifurcation of candidates in team formation.
- Both Teams will decide their TEAM LEADER.
- Team Leader will decide the sequence of speaker from his/her Group.
- Each candidate in each team must have at least one chance to speak/ debate
- Time limit for each speaker will be 2-3 minutes.
- First bell will ring after 2 min and the other after 3 min.
- Dress code for participants : Formal
- During the course of the debate, the speaker should not disclose his identity.
- Rebuttal round will be there after each speaker has presented his views.
- In the rebuttal round, a maximum of two questions can be asked from the opposing team. No cross questioning can be done in rebuttal round.
- A speaker will get 5 marks for each question if the opponents fail to ask him/ her a question in the rebuttal round.
- The participants have to respect others opinions.
- In case of any discrepancy , event committee decision will be final.

JUDGING CRITERIA:
1. Content
2. Body Language and Voice modulation
3. Clarity and Organization
4. Use of Arguments
5. Time management
6. Rebuttal

TENTATIVE SCHEDULE: 30th Jan 2019 4:00 pm to 5:15pm.

Electronics Communication Engineering Department

Electro-sparks-2019

Robosoccer:

INFO: let your robot struggle collide to make most goals and be the champion. basically it is the arena formation, which means participants need pass ball through the goal post in certain time using the robotic car the criteria is given in the rules.

It is mainly basis on the robot cars which made in such a way that they can grab the ball and goal to the opponent goal post

PROBLEM STATEMENT: There is a opponent having same robot which u consist, can u make it the ball pass through goal post?

RULES:

- The event is open to all.
- Team must consist of minimum of 1 and maximum of 3 participants.
- Size of the robot must be or smaller than 30*30*30 cm.
- Teams have to present the robot which they made to the to initial checkup.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1. Contribution in making the model

2. most goals in given time.

TENTATIVESCHEDULE: 2 Day event .The results will be declared on the following day. (29 Jan 10.30 to12.30) (30 Jan10.30 to 12.30) .

Maker's Backyard:

<u>INFO:</u> let go your creation and show the world what you posses, this event is based on your creativity as co-ordinator team will give you task and component and as per the theme you and your team have to make something innovative. It will be based on electronic hardware/software or both.

<u>PROBLEM STATEMENT:</u> Problem statement of the event will be released on the spot(related to the theme of course).

<u>RULES:</u>

- The event is open to all.
- Team must consist of 4 participants.
- Stipulated time for the event is 180 minutes.
- You must make your project on the spot and decision of committe will be final.
- Participants are not allowed to use any resources available over internet and are expected to be honest.
- The event volunteers are to be supported and listened to whenever and wherever needed.

<u>JUDGING CRITERIA:</u>

1.Innovation.

2.Economic feasibility.

3.Detailing.

4.Presentation.

TENTATIVE SCHEDULE: 1 Day event(29 Jan
12.30 am to 4.30pm) . The results will be declared on the same day or following day.

U know Arduino?!:

INFO: This event is an practical/written competition where in the participants are suppose to prepare about the basic of controller and of course arduino.

By this competition we will get to know more about the arduino and controller by giving the exam and doing practical project.

PROBLEM STATEMENT: The event will be held in 2 levels .As the competition is on arduino the paper and statement will be given on the spot. crack into the ardiuno in your way(hardware/software).

RULES:

- The event is open to all.
- Compitition is divided into two part:
  1. Quiz
  2. On the spot task completion(making project).
- Team must consist of minimum of one and maximum of 3 participants.
- Participant who filtered from the first round having curoff marks will go to second round only.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1. for 1st round who score more than cutoff marks will be selected.

2. In 2nd round who finish first with meaning full appliction will win.

TENTATIVE SCHEDULE: 1 Day event(30 jan 2:30 to 4:30). The results will be declared on the following day.

Circuitrix:

<u>INFO:</u> There are two round events in which first round written type test and second round practical test. In first round there is MCQ type written exam, base on electronic and communication with limited time.
Second round for practical test in which participant will be provided either PCB or layout print and to do Circuit diagram of it with value and symbols within given time limit.

<u>PROBLEM STATEMENT:</u> The event will be held in 2 levels. Problem statement of the event will be released on the spot.

<u>RULES:</u>

- The event is open to all.
- Compitition is divided into two part:
  - 1. Quiz (need to cross cutoff marks for eligible for second round)
  - 2. solve given layout(designed pcb) print.
- Limited time limit for both which will let u know on the spot.
- Team must consist of minimum of one and maximum of 2 participants.
- Participants are not allowed to use any resources available over internet and are expected to be honest.
- The event volunteers are to be supported and listened to whenever and wherever needed.

<u>JUDGING CRITERIA:</u>

1.In given time.

3.Detailing(component values).

4.Presentation.

TENTATIVE SCHEDULE: 2 Day event(29 Jan
  10.30 to 11.30)(30 Jan 2019 10.30 to 12.30).The results will be declared on the following day.

Intervista finto:

INFO: before going to campus placement ,prepare yourself herel.

PROBLEM STATEMENT: The event will be held in 2 levels. The problem statement will be provided on he day of event.

RULES:

- The event is open to all.
- 1st level is normal general knowledge(mainly on EC and maths) MCQ questions.
- To crack 1st round you must have morethan cutoff marks.
- 2nd round will be held by professionals will judge your group discussion.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1. personality

2. confidance

3. concious mind.

TENTATIVE SCHEDULE: 2 Day event29 Jan (10.30 am to 4.30pm) (30 Jan 2019 2.30 pm to 4.30pm) .

Electrical Engineering Department

Electrifix

"From Vision to Realization"

Electrica Quiz:

INFO: This event will have multiple rounds dealing with General Knowledge, Technical mainly Electrical and also basic sciences, etc.

RULES:

- The event is open to all.
- Team must consist of two participants.
- It will have a minimum 3 groups and maximum 5 groups.
- If registrations are more then elimination round will be conducted. It may consist of written test.
- The quiz will consist of Q/A, AV and other such rounds.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

TENTATIVE SCHEDULE: Day 1 (morning). The results will be declared immediately.

Electric Studio:

Right, you are to present your ideas / research work as posters. A poster is simply a static, visual medium (usually of the paper and board variety) that you use to communicate ideas and messages. The difference between poster and oral presentations is that you should let your poster do most of the 'talking'; that is, the material presented should convey the essence of your message.

PROBLEM STATEMENT:

Renewable energy - way forward…

- Solar PV
- Waste to Energy
- Wind and Hydro
- Fuel cells
- Grid integration of renewable
- Micro grids and smart grids
- Electric vehicles
- Energy storage systems
- Energy, Environment and Society
- Innovations in Industry

RULES:

- The event is open to all.
- Team must consist of 3 participants.
- Each team must consist of at least 1 member from Department of Electrical Engineering.
- Teams have to present the detailed idea behind all the features of the Poster within 10 minutes and there will be a query session of 5 minutes at the end of the presentation.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

1.Innovation.

2.Economic feasibility.

3.Detailing.

4.Presentation.

TENTATIVE SCHEDULE: Day 1 (afternoon). The results will be declared on the following day.

Ad Mad:

INFO: This event is an extempore competition where in the participants are supposed to prepare an ad on any of the topics / props given on the spot.

RULES:

- This event is open to all.
- A team may consist of minimum two and maximum 4 students.
- The topics / props will be randomly selected articles. A 15 minute interval will be given for preparation.
- The ad should not exceed a duration of 2 minutes. The time limit will be strictly enforced.
- Permitted languages are English / Gujarati / Hindi.
- The speakers have to memorize their speech and are not allowed to read any part of the speech from paper, notes, cards or flash cards.
- The decision of the judges will be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1. Clarity
2. Teamwork
3. Appeal
4. Detailing
5. Presentation.

TENTATIVE SCHEDULE: Day 2 (afternoon). The results will be declared in the evening.

Games Bug:

<u>INFO:</u> It is a case study event which is aimed at providing the participants an opportunity to explore their understanding of problems faced by differently abled people. The event focuses on addressing and bringing out new innovative technologies into life to help them overcome these challenges. It is an effort to sensitize our budding engineers towards their responsibility to society.

<u>PROBLEM STATEMENT</u>: There will be games which the participants will have to play blindfolded.

<u>RULES</u>:

- The event is open to all.
- The team must consist of minimum of 2 and maximum of 5 participants.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

<u>JUDGING CRITERIA:</u>

1. Speed.

2. Accuracy.

<u>TENTATIVE SCHEDULE:</u> Day 1 (afternoon). The results will be declared on the following day.

Plugged In:

<u>INFO:</u> This event brings out the knowledge and technical learning you have gained so far. You will be able to choose from the plethora of components placed on the tray and build a circuit on a breadboard in accordance with the given theme (Electrical / Electronics).

<u>PROBLEM STATEMENT:</u> The event will be held in 2 levels. The problem statement will be provided on the day of event.

<u>RULES:</u>

- The event is open to students of Electrical Engineering.
- The team will be of minimum 2 and maximum of 4 participants.
- The theme / subject will be given at the time of the event.
- Time duration given to build the circuit will depend upon the theme and will be announce at the time of the event.
- Participants are required to bring their own soldering kit, multimeters, testers, pliers, etc.
- At the end of the task the circuit should work and participants will have a Q/A with the judges.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

<u>JUDGING CRITERIA:</u>

1. Clarity of concept.
2. Neatness in making the circuit.
3. Innovation.
4. Presentation.

<u>TENTATIVE SCHEDULE:</u> (Day 2 morning). The results will be declared in the evening.

Environmental Engineering Department

"Paper Presentation"

INFO: All the inovators in the field of Environment Engineering are welcomed to share and discuss their ideas and innovations.

RULES:

- Paper must be your inovation.
- Max time for presentation will be 15 mins.
- Inovation must have be done in environment field.
- Participation can be individual as well as in group.
- The event is open to all.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.
- The Paper shall be strictly related to the innovations in Environmental Engineering.

JUDGING CRITERIA:

1. Innovative Work
2. Techno-Economical feasibility.
3. Detailing
4. Presentation.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Poster Making Competition:

INFO: Painitng has always been the effective medium to showcase the ideas and thoughts. With the help of this competition we will find an innovative way to share prespective of the individual about Environmental Phenomena.

PROBLEM STATEMENT: The theme of competition will be released on the spot.

RULES:

- The event is open to all.
- Time limit of the event IS 2 hours
- Participant must bring requiered materials for the same
- Sheets will be provided from here.
- Only individual or two can participate.
- Topics must be related to environment.
- The event volunteers are to be supported and listened to whenever and wherever needed.

JUDGING CRITERIA:

1. Convey of Theme

2. Creativity

3. Overall Presentation.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Model Presentation:

<u>INFO</u>: The aim is to provide a platform to showcase innovative solution and technologies in the field of environment. Chance to showcase how one can contribute to betterment of environment.

<u>RULES:</u>

- Model must be related to environment field
- Idea must not be copied.
- Max participation of students will be 3.
- Participant must bring requiered materials for the same
- The event volunteers are to be supported and listened to whenever and wherever needed.

TENTATIVE SCHEDULE: 1 Day event. The results will be declared on the following day.

Quiz Competition:

<u>INFO:</u> Quiz is related to awareness and technical aspects of Environmental Engineering field. Quiz will be conducted in 4 rounds:
1) Written Test 2) Picture Round 3) General Question 4) Rapid Fire Round

<u>RULES:</u>

- Quiz will be bases on environment as well as general knowledege.
- Decision of the quiz master will be final
- Participation will be in group of 2.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

<u>JUDGING CRITERIA:</u>

1. Performace of Team

TENTATIVE SCHEDULE: 2 Day event. The results will be declared on the second day.

Green Challenge:

<u>INFO:</u> A Treasure Hunt will be conducted in the campus based on the clues and tasks related to basic environmental principles and phenomenas.

<u>PROBLEM STATEMENT:</u> The problem statement will be provided on the day of event.

<u>RULES:</u>

- The event is open to all.
- The team will be of maximum of 3 participants.
- The clues are to be found out in a given time limit.
- The Green Challenge consist of many clues, each one leading to the next clue.
- Do no search for the clues in off area limits.
- You can move the things but you can not harm it. If any harm is done then it is to be reimburshed and finally the disqualification of the team.
- All team members must stay together during the event and are encouraged to work together to discover the clues.
- The decision of the judges shall be final and binding.
- The event volunteers are to be supported and listened to whenever and wherever needed.

TENTATIVE SCHEDULE: 1 Day event.

Instrumentation & Control Engineering Department

Innovazone

Man has always been fascinated towards instruments and the quest to invent and innovate on new instruments has pushed mankind beyond barriers to an age where instruments have become a part and parcel of the life. Today, we find instruments at industries, home and at workplaces, and this is possible only because of the instrumentation technology.

ROBOMAZE (LINE FOLLOWER)

"The path may be lit or it may be dark. Follow the trail and emerge as the undefeated."
The Line follower robot is an autonomous bot that can detect and follow any track. Generally, the path is predefined visible black line on a white surface with a high contrasted color.
Therefore, the task of this robot is to sense the path using sensors and to cover the track in least possible time.

Specifications :
- The Robot must be strictly autonomous.
- The width of the line will be less than 5cm.
- The background of the line will be white and the line will be black.
- Dimensions of the Robot should not exceed 30cm*30cm*30cm (l*b*h)
- The participants have to ensure that room lighting, photography, etc. does not affect the functioning of the sensors.
- In case of tie, the design of the Robot may be considered.
- If none of the Robots finishes the course, then the one which covered the longest distance in less time will be considered the winner.
- A power supply should be of maximum 24V.

Rules:
- The Robot has to follow the line and complete the track in least possible time.
- Maximum 3 touches will be allowed for each round. (Each touch makes 5 sec penalty.)
- Maximum 3 participants are allowed in a team.
- Team members can be from different departments/colleges.
- Winners will be decided based upon the scores with minimum number of penalties made.
- In case of any tie ups, Winners will be decided based on minimum number of errors i.e.; bot with minimum errors is the winner and if there are any ties further, specifications of bot will be considered for decision making.
- Workshop bots are allowed but given less priority.
- The final decision lies in the hands of Managers.
- Judging Criteria:
  Robot completing the track utilizing least time will win.

CREATIVE LABORATORY CHART COMPITITION

The event based on prepartion of creative Lab. charts of respective subjects.

Rules:
- The participants after registering for the given event will be given a topic related to the academics and will have to accordingly make a hand made chart in a way that the topic assigned can be easily understood from the pictorial or chart-like description of the participant.
- The judging criteria shall be based on the neatness, design and the way the topic is described on the chart by the participant.
- Maximum 2 participants are allowed in a team.
- Team members can be from different departments/colleges.
  Chart size shall be A2 or A3.

POSTER MAKING ON INNOVATIVE IDEAS

The topic for the poster making will be of the choice of the participants but the topic should be innovative.

Rules:
- Maximum 3 participants are allowed in a team.
- Team members can be from different departments/colleges.
- The participants can bring a prototype if they want.
- The poster and prototype are to be made by the participants before the day of the event
  No materials will be provided by the college.
- Posters should be readable from a distance of 6 feet (2 meters). For adequate visibility, capital letters should be at least 3/8 inch (1 cm) high after enlargement to full poster size.
  Guidelines for the Poster:
- "heading, poster title, author(s) name(s), and their affiliations"
  Suggested font sizes:
  Title : Arial (86 pt)
  Team member's name, guide name , mention if any other contributor : Arial (48 pt)
  Figure citation : Arial (25 or higher)
  Rest of the text : Arial (30 pt)
  Arial font can be replaced with any other font which is readable.

CIRCUIT MANIA

Circuit trobuleshotting and making

Rules:

- It consists of three rounds.
- Maximum 3 participants are allowed in a team.
- Team members can be from different departments/colleges.
- The description of the rounds are as follows:

1st ROUND:
A certain number of electronic related questions will be provided and each answer will have specific points.Total score will be evaluated after the time limit provided. With that score you will be allowed to take components according to the participant's choice and each component will have points, so they are allowed to take components according to their score.

2nd ROUND:
As per the components they chose, they need to design the circuit according to any of the two waveforms provided to them. Participants need to bring bread board along with them.The students will be shortlisted.

3rd ROUND:
They will be provided a single aim to win the event. The faster one will win.

IOT BASED AUTOMATION (MINI-PROJECT) (TECH SPARDHA)

Mini Project event based on IOT

Rules:
- Maximum 3 participants are allowed in a team.
- Team members can be from different departments/colleges.
- The participants have to send their abstract idea in the form of Power Point Presentation with maximum 15 slides to the email id which will be sent after registering for the event. (15 slides comprising the names of the topic, name of participants, contents and thank you slide)
- The selected teams will have to present their presentation on the day of the event. Prototypes are appreciated. (If you are bringing a prototype please mention a picture of it in the presentation or if the prototype isn't ready just mention if you can bring one in the mail)
- Judging Criteria:
  The projects will be judged on the base of the presentations, efficiency, ideas, uniqueness, applications and design.

Information Technology Department

Towards Smart Solution using IT

1) Design Problem

Date and Venue of Competition:
29th Jan-19 ,12:00 PM onwards
 Room No. -101 Ground Floor IT Department.
Maximum no. of Participating Teams: 40 (Maximum 4 students per team)
Stages: Elimination Round, Design Problem Round
Duration of Competition: 4 hours (2 hours + 2 hours)
DESIGN PROBLEM – RULES & GUIDELINES

1. The goal of the competition is to encourage the students to brainstorm for the given problem such that the solution can be proposed in the most efficient / optimum / creative way.
2. The registrations will be done per team where each team leader will have to register for his/her team mentioning the number of participants and their relevant details. The maximum number of team members a team can have will be 4 and minimum will be a single member team.
3. The problem statement will focus on solution design based or real world problems for which the algorithmic and a programmatic solution will be expected.
4. The problems for the competition will be revealed at the time of competition, out of which a random problem will be assigned to the team.
5. The rounds of the competitions are:
   1) The elimination/screening round.(Teamwise MCQ with Max 2 Student/Team)
      1.5 hr Duration MCQ Test , Top 10 Teams will be selected for actual round
   2) Solution of the design problem in terms of algorithm and programmatic proof
      10 Teams , 2Hr Duration, Selection of 3 Best Teams for 3 positions
6. Points//score will be awarded based on the following criteria:
   a. problem Understanding and Perception
   b. Quality of the solution
      i. Scalability of the solution.
      ii. Simplicity of the solution.
      iii. Time taken to derive the solution. (The faster the solution, will be considered as per the given criteria)
      iv. Innovation/Novelty in solution
7. Top Two winning teams will be chosen from the competition.
8. Certificates will be given to winners and participants.
9. The decision of the judges will be the final one.
10. Name of Coordinators :
    1) Prof. V.B.THAKKAR (IT Dept)
    2) Prof. J.B.CHAVDA (IT Dept)

2) Meetup and Heatup for Startup

Date and Venue of Competition: -
29th Jan-19,2.00PM to 4.00 PM
Room No. -203 ,First Floor IT Department.

Maximum no. of Participants: -
50 Students

Duration of Presentation: 10 mins presentation + 5 mins Question-answer = Total 15 mins per team

Meetup and Heatup for Startup–GUIDELINES

1. The goal of this event is to encourage the students to brainstorm for the startups.

2. There will be 2 expert talk of 1 hour by entrepreneurs (LD Alumni).

3. The registrations will be done per student. Each participant will have to register individually. The maximum number of participants will be 50.

4. At the end of the sessions panel discussion followed by problem description and solutions including quiz will be arranged.

Name of the Speakers(Proposed):
1. Mr. Nikhil Shah   2. Mr. HemenAshodia   3. Mr. Saurabh Chavda

Names of Coordinators:
1) Prof.P. R. Patel(IT Dept) 2) Prof.A. C. Patel(IT Dept)

3) Coding Contest
   Venue: 102,202 IT Building, LDCE

Coding Contest:
➔ 3 rounds are scheduled. It is a C Programming based coding competition.

1ST ROUND: Elimination round (30 min)
➔ All the registered students will participate in this round.
➔ Multiple choice based paper .
➔ It is a elimination round. 40 students will go to next round.

2nd ROUND: First coding round (30 min)
➔ C programming based coding round.
➔ 20 students will go to next round.

3rd ROUND: Final coding round (60 min)
➔ C programming based final coding round.
➔ Three students will be awarded as a winner.

Rules:-
1. internet connection will be not allowed in any round
2. Mobile and other smart gazettes are not allowed during any round.

Computer system will be provided by the department
Top Three winning teams will be chosen from the competition.
Certificates will be given to winners and participants.

4) Be a Scientist for a Day

Date and Venue of Competition:-
29th Jan-19, 11:30 AM onwards
Room No. - 103 Ground Floor IT Department.

Maximum no. of Participating Teams (After Elimination): -
10 Teams (Maximum 4 students per team)

Duration of Presentation: 10 mins presentation + 5 mins Question-answer = Total 15 mins per team

BE A SCIENTIST FOR A DAY – RULES & GUIDELINES

1. The goal of the competition is to encourage the students to brainstorm for the given problem such that the solution can be proposed in the most efficient / optimum / creative way.

2. The registrations will be done per team where each team leader will have to register for his/her team mentioning the number of participants and their relevant details. The maximum number of team members a team can have will be 4 and minimum will be a single member team.

3. The problem solution can be expected to be a scientific design based or real world for which the working prototype or a poster might be prepared.

4. The topics for the competition are given below:

1) Free energy light bulbs
2) Water Dispenser
3) Floor Cleaner
4) Air Cooler
5) Smoke Absorber Machine
6) Rat Trap
7) Make a Cloud
8) How to turn Salt water into Fresh drinking water

5. Elimination/Scrutiny will be done based on
   1) Solution of the scientific problem in terms of working Prototype/Poster/Video/Graphics
   2) Presentation of the mentioned problem in ppt

6. Points will be awarded based on the following criteria:

   1) Problem Understanding, Perception and uniqueness
   2) Quality of the solution
         i. Feasibility and Cost Effectiveness of the Solution.
         ii. Simplicity of the solution.
         iii. Time taken to derive the solution. (The faster the solution, will be considered as per the given criteria)
7. Two winning teams will be chosen from the competition.
8. Appreciation Certificates will be given to winners and participation certificates to other participants.
9. The decision of the judges will be the final one.

10. Names of Coordinators:
   1) Prof. S. J. PATEL (IT Dept)   2) Prof. N. P. DESAI (IT Dept)

5) Elocution Competition

Date and Venue of Competition :- 30th Jan-19 ,11:00 AM onwards

Room No. -201 First Floor IT Department.

Maximum no. of Participants : - 30.

Duration of elocution: 10 min/participant

ELOCUTION – RULES & GUIDELINES

1. The goal of the Elocution competition is to encourage the skills and talents related to the art of speaking in public for the goal of sharing one's faith and expositing from the Word of God.
 2. The topics for the competition are given below.

> 1) E-Waste Challenges.
> 2) Can Robot Replace men?
> 3) Can Robot slow down our brain?
> 4) Social Networks: Simple communication or Addiction
> 5) Are blogs better than books?

3. The duration of the competition is broken down into three parts namely
   1) The speech may not exceed 5 minutes in duration. The time limit will be strictly enforced. A 30 second warning will be given.
   2) Students have to answer the queries of judges and audience for 4 mins
   3) Final sum up 1 min
6. The speaker is expected to memorize their speech, and is not allowed to read any part of the speech from papers, notes, or cards. Use of index cards is allowed, but only for reference of outline and key points. Reading verbatim from note cards is discouraged and will result in reduction in the participants score.
7. Points will be awarded based on the following criteria:
 a. CONTENT
   i. Greeting & Introduction of the subject
   ii. Exposition of the main theme (Conciseness & Clarity of message, Originality/Points of interest, Incorporation of Personal references, Quotations & Biblical References)
   iii. Moral & Practical Application
   iv. Conclusion

 b. SPEAKING PRESENTATION
   i. Memorization (evaluated by pauses and amount of referring to index cards)
   ii. Verbal Clarity (Annunciation and pronunciation of words, voice strength and projection)
   iii. Presentation/Speaking Style (Mannerisms, Audience contact and voice modulation, Ability to keep the audience engaged by their speaking style)
8. Two winners will be chosen from the competition.
9. Certificates will be given to winners and participants.
10. The decision of the judges will be final one.

11.Name of Coordinators :
   1) Prof.M.N.Panchal(IT Dept)   2) Prof.A.J.Patel(IT Dept)

Mechanical Engineering Department

Mech@ndOzer

Theme: "Development through learning hands on skills**"**

ROBOT ARM DESIGN:

INFO: Conceptual Designing of a robot arm for a given application on the spot.

PROBLEM STATEMENT: Problem statement of the event will be released on the spot.

RULES:

- There should be only one robot which can be controlled either manually or automatically.
- Readymade Lego kits are not allowed.
- Maximum dimensions of the robot should not exceed 60*40*40 cm (LBH).
- No robot part should extend beyond the above given dimensions.
- Power supply of battery should not exceed 12V (DC).
- More than one object can be picked at a Time.
- Gripper of the robot should be designed in such a way that it can pick the object of size 5mm to size 50 mm in diameter or width.
- Dragging of object is not allowed, object should be lifted up in the air.
- Weight of the robot should not exceed 5 kg.
- Rules for the points will be explained on the day of event.
- Final decision for the competition will be of event manager.
- All the necessary details are been given, further detailed instruction will be explained on the day of competition or will be mailed to you.

TENTATIVE SCHEDULE: 29-Jan-2019 10:30 AM to 2:30PM

CATAPULT:

INFO: Catapult launches the explosive. In the modern times it can apply to sling shot to a mechanism for launching aircraft from a ship.

PROBLEM STATEMENT: Problem statement of the event will be released on the spot.

RULES:

- 3-4 students per team.
- The material will be provided to the participants which is needed for the development of catapult.

- Participants will have to use same mechanism for whole tournament. One cannot use different machines for different rounds.
- The teams must report at the time allocated to them.
- The decision of event managers will be final.
- Strict discipline should be maintained during the event.
- If there is any damage/loss to the tools or instruments provided then the team in possession would be liable to pay for the damage.
- Violation of any rule will be followed by instant disqualification.

TENTATIVE SCHEDULE: 29-Jan-2019 02:30 PM to 4:30PM

CHAIN REACTION:

INFO: For a particular task we have to do chain arrangement (mechanical chain arrangement) to complete the task with desired output.

RULES:

- Maximum 4 students per team.
- All team members should be from same college; no inter-college teams are allowed. However, members from different branches of the same college/ institute can form a team.
- Students have to bring their own material for event.
- Hazardous materials or explosives are not allowed.
- Minimum 10 steps are reuired for the event.
- Negative marking for each human touch. Maximum 3 touches are allowed.
- Decision of coordinators/Judges will be final.

TENTATIVE SCHEDULE: 29-Jan-2019 04:30 PM to 6:30PM

BUSINESS PLAN PRESENTATION:

INFO: This event aims to have quick idea about presenting plan for key business with certain entrepreneurship qualities among participants.

PROBLEM STATEMENT: Present a business plan for a given product on the spot.

RULES:

- Business situation will be given on the spot.
- Participants have to prepare a business plan in two hours and present in front of the judges.
- Three participants from the same college per team will be allowed.
- Other rule will be explained on the spot.

TENTATIVE SCHEDULE: 30-Jan-2019 10:30 AM to 12:30PM

QUIZ ON PRODUCTION:

INFO: Quiz on production processes.

PROBLEM STATEMENT: The problem statement will be provided on the day of event.

RULES:

- Three students per team.
- Questions will be from production processes, Materials and Production Management.
- Decision of Judge will be final.

TENTATIVE SCHEDULE: 30-Jan-2019 01:00 PM to 4:00PM

Plastic Technology Department

Department Theme "PLASTICS: INNOVATION & CREATIVITY"

1. PLASTIQUIZ

INFO: The event will consist of question answer sessions both written and oral related to plastics which will explore their theoretical knowledge in the world of plastics such as Plastics History , Plastic Raw Material ,Plastics Processing & Testing ,Sectorwise applications of Plastics ,Mold & Die Design

RULES:

1. The decision of the quiz-master will be final and will not be subjected to any change.

2. The participants shall not be allowed to use mobile or other electronic instruments.

3. A written quiz questions shall be in the form of Multiple choice, True / False statement, Specific-answer question etc.

4. Audience shall not give any hints or clues to the competitors.

5 Replacement of any participant of a team is not allowed after registration Technical Quiz Topic: Questions from Domain of Plastic Technology

i. Round – I: A written quiz will be conducted and shortlisted candidates will proceed to Round II.

ii. Round – II: An oral quiz that promises to test not only your intelligence, but also the ability to stay calm under pressure.

TENTATIVE SCHEDULE: 2nd Day event.

2. POSTER MAKING & PRESENTATION:

INFO: Students will have to make a poster on the Topic" **Bioplastics & Biodegradability**" on a flex banner and display it in the space given to them. The banner has to be kept ready prior to the date of event so that they can directly come and display their work.

PROBLEM STATEMENT: Problem statement of the event will be " Bioplastics & Biodegradability".

RULES:

1.The Official Language for the poster is English.

2.Size 36 inch X 48 inch (Flex Banner)

3. Poster can be made individually or in group of 3-4 members in each group.

4.Poster should be self-explanatory and students should be able to explain the queries made by the evaluation committee.

5. All illustrations and text must be readable from a distance of 3 feet. The team must clearly mention the following details in their Poster:

 i. Name of the participants
ii. Year and Department
iii. College name with full address
iv. Contact details (Mail id & phone number)
v. Title of the poster.

JUDGING CRITERIA:

1.Innovation

2.Relativity to the topic

3.Presentation and explanation of the poster

4. Question answer

TENTATIVE SCHEDULE: 1st Day of event.

3. ELOCUTION:

INFO: The elocution competition will be on the topic "**Innovative future technology with Plastics**". The participants are suppose to prepare a speech and deliver it on this topic in front of the judges and audience.

RULES:

A. CONTENT

i. Greeting & Introduction of the subject
ii. Exposition of the main theme (Conciseness & Clarity of message, Originality/Points of interest)
iii. Moral & Practical Application
iv. Conclusion

B. SPEAKING PRESENTATION

i. Memorization
ii. Verbal Clarity (Permitted languages are English/Hindi)
iii. Presentation/Speaking Style * The decision of the judges will be final

JUDGING CRITERIA:
- The speech should be related to the topic given.
- The speech may not exceed a duration of 5 minutes. The time limit will be strictly enforced.
- Permitted languages are English/ Hindi.
- The decision of the judges will be final and binding.
- The speaker is expected to memorize their speech and is not allowed to read any part of the speech from paper, notes, cards or flash cards.

TENTATIVE SCHEDULE: 1st Day of event.

4. MODEL MAKING:

INFO: The theme of the topic will be "**Better out of Best and Waste**." In this event the participants have to create a model from the plastic products or plastic waste which they themselves have to bring . They have also to bring their own stationery as per their requirement.

PROBLEM STATEMENT: The model making should be done so that unused plastic products and plastic waste can be reused to make creative models.

RULES:

1.Team shall consist of not more than 3 members.
2.Participant have to create a MODEL from the plastic and plastic waste.
3.Participants have to bring with them items like Plastic Waste, pair of scissors, glue gun/glustick/fevibond/any other adhesive , pins, wires…..or any other items required to create a complete MODEL out of plastics.
4.Results declared by the judges will be final.

   JUDGING CRITERIA:

   1.Innovation & Creativity

   2.Economic feasibility.

   3.Presentation of the final model

TENTATIVE SCHEDULE: 1st Day of the event.

5. INNOVATIVE PRODUCT DESIGN:

INFO: The theme of the event will be "**Creativity with Plastics**". Students will have to design a Product on a sheet of paper, which can be made from plastics and which is creative and relative to the requirement of the described product.

PROBLEM STATEMENT: The requirement of the Product and its application area will be given at the time of event.

RULES:

1.It will be an individual activity.
2.One Product requirement will be described to the participants.
3.As per the requirement of the product, the participant has to manually design it with the help of pencil, scales or any other stationary they require.
4.Sheet for drawing the product will be provided from the department. Stationary and other requirement for drawing should be brought by the participant.
5.They will be judged on the aspects like Innovation, Manufacturability and Marketibility.
6 Results declared by the judges will be final.

JUDGING CRITERIA:

1. Innovativity of the product
2. Feasibility of manufacturing the product and its cost affectivness.
3. Marketiblility of the product

TENTATIVE SCHEDULE: 2nd Day of event.

Rubber Technology Department

JOURNEY WITH RUBBER

"Life and Rubber"

Poster Presentation

THEME: **Path to Future – Stride with Rubber**

RULES:

- Event is open to all
- Poster can be made individually or in group of 3 members in each group.
- The official language for the posters is English.
- Time provided for each team will be 10minutes for presentation.
- Poster Specification:
  - Size 36 inch X 48 Inch in form of Flex Banner material.
  - Suggested font sizes Title: Times New Roman (90pts)
  - Team member's name, guide name: Times New Roman (48pts)
  - Figure citation: Times New Roman (24pts)
  - Content: Times New Roman (30pts).

JUDGING CRITERIA:

1. Theme of poster
2. Synchronization of Theme
3. Detailing of Content
4. Mode of Preparation and Presentation
5. No. of the students

TENTATIVE SCHEDULE: Half Day event. The results will be declared on the following day.

Elasto Quiz

TOPICS: 1. History and Origin of Rubber
          2. Basic Rubber Science
          3. Rubber Applications in various fields

RULES (GENERAL):
- A team should not have more than two members.
- Only 4 team entries are allowed.
- The participants will not be allowed to use mobile or other electronic gadgets   during the quiz.
- The decision of the quiz-master will be final and will not be subjected to any
change.

Rules of Round 1: QUALIFYING ROUND (OFFLINE) – (In case more than 4 teams registered)
- Each team would have to answer 20 multiple choice objective type
- Time limit will be 20 minutes for the entire session.
- Only 2 teams would be selected for the **FINAL STAGE ROUND.**
- In case of a tie between any two or more teams, an additional five
- Questions will be given to the teams in question and a final selection will be made.

Rules of Round 2: Rapid Fire Round (FINAL STAGE ROUND)
- Each team will have to answer 10 questions at a stretch with a Time limit of 30 second per question.
- Team can answer maximum number of questions within the five minute session.
- If a team cannot answer the question, they can pass for the next question till they finish all the ten questions.
- The team can select any one member from the team to answer. He/she can get help of the partner.
- 10 marks will be awarded for each correct answer whereas 5 marks will be deducted for each wrong answer.

JUDGING CRITERIA:

1. Score Obtained By the team
2. For tie, additional 5 questions will be given and score will be decided
3. Presentation and behavior

TENTATIVE SCHEDULE: Half Day event. The results will be declared on the following day.

Model Making

<u>TOPIC</u>: Rubber Car

<u>RULES</u>:

- A team should not have more than three members.
- All necessary material will be carried out by team itself.
- Maximum time for model making will be 45 minutes.
- Model design features:-
    - Suitable Material- rubber, plastic, fibre, paper and wood.
    - Maximum Dimensions- length 20 cm, width 15 cm, height 10 cm and weight 200 grams.

<u>JUDGING CRITERIA:</u>

1. Design of the Car
2. Use of Material in Car Preparation
3. Weight of the Car
4. Distance travelled by Car
5. Time taken in preparation of Car

TENTATIVE SCHEDULE: Half Day event. The results will be declared on the following day.

Waste Rubber Art

<u>THEME</u>: Any crafted product prepared from Waste Rubber

<u>RULES</u>:

- All necessary material will be carried out by participant itself.
- Maximum time for creation will be 60 minutes.
- Use of any waste rubber products only.
- The criteria for evaluation include the finishing, perfection, working of the creation, and innovation.
- Supportive material like thread, metal wire and any other craft related material.

<u>JUDGING CRITERIA</u>:

1. Usage of Waste Rubber
2. Type of Article
3. Application of prepared Product
4. Time taken in preparation of Product

TENTATIVE SCHEDULE: Half Day event. The results will be declared on the following day.

Group Discussion

TOPIC: Topic will be given on the spot.

 RULES:
- The official language for the communication is English.
- No swearing and No personal abuse will be entertain.
- Don't interrupt when person speaking.
- A team should not have more than four members in one group.
  Topic will be given on the spot.
- For GD total time will be 15 min. (3 min warming, 10 min discussion and 2 min for conclude).

JUDGING CRITERIA:

1. Involvement of Participants
2. Mode of Discussion
3. Presentation
4. Relevancy of topic
5. Time taken for discussion

TENTATIVE SCHEDULE: Half Day event. The results will be declared on the following day.

Textile Technology Department

Innovative Engineering Applications of Textile

L.D. College Of Engineering, Ahmedabad

The wearing of clothing is exclusively a human characteristic and is a feature of most human societies, though it is not known exactly when various people began wearing clothes, anthropologists believe that animal skins and vegetation were adapted into coverings as protection from cold, heat and rain, especially as humans migrated to new climates. The textile represent one of three most basic needs of human beings.

Department of Textile Technology from L.D.College of Engineering with the support of Indian Society for Technical Education, organises two days national convention programme where students from various engineering institute of india can participate and have an encouraging and interactive sessions.

EVENTS:

- *TEXQUIZ*
- *POSTER PRESENTATION*
- *DEBATE*
- *BEAT AROUND THE LOOM*
- *STAMPOBLOCK*

This events are open to all Textile students of diploma, degree and masters students.

TENTATIVE SCHEDULE:

Beat Around the Loom	Poster Presentation	Texquiz	Debate	Stampoblock
Date:- 29/01/2019	Date:- 29/01/2019	Date:- 30/01/2019	Date:- 30/01/2019	Date:- 29/01/2019
Venue:- Hand loom laboratory	Venue:- Textile Department 1st floor galary	Venue:- Room no 815	Venue:- Room No.- 815	Venue:- Textile Department 1st floor galary
Time:- 12.00 pm	Time:- 4 pm	Time:- 11.00 AM	Time:- 2 pm	Time:- 2 pm

Texquiz

This event consists of two rounds which basically checks the Technical knowledge of the participant relevent to theme.

Round 1- MCQ type questions will be framed in to a paper targeting current scenario & recent advancement of the subject, Shortlisted from this will go to 2nd round, where there will be a verbal quiz that a candidate need to a answer in a limited time frame.

Poster Presentation

Students are required to bring Theme based Posters. Choice of topic will be given 10 days prior to the event. Students may register individually or in groups with max 3 members. They will display the idea through a flex poster and explain the topic within 10 minutes and there will be a query session of 5 minutes at the end of the presentation.

Debate

The registration will be individual. The group of 10 students will be divided in two groups (for and against) for discussion on a given topic.Topic will be given at the time of event. 10 min time will be given to think and search for the topic using electronic gadgets.

Beat Around the Loom

A team of 4 to 5 students can register for the event. The loom with drawn warp (strainght draft, 12 heald shaft) will be made available. Also the weft yarn will be provided. Name of the design will be given at the start of event, participant have to draw design, draft and peg plan and complete reasonable sample within a time frame. The time for the event will be 45 minutes.

Stampoblock

The main task of the event is to print the fabric specimen in unique way using given blocks & colours. The event will be held in a group of about 4 to 5 students. Fabric piece of 0.5 meter x 0.5 meter size will be provided. Also the fabric colours and wooden blocks will be provided. Team has to print the fabric in 45 minutes.

General Rules:-

- Maintaining a decorum of events is must for all the participant and visitors.
- For any conflict or misbehaviour during the event judges' decision will be the final.

Student Volunteers:-

Name	Contact no	E-Mail
Pathan Zarmin	9408204496	zarminpathan04@gmail.com
Patel Jugal	9638867798	jugalpatel2309@gmail.com
Patel Rajan	9904160512	patelrajan98790@gmail.com
Singh Shilvi	9974746137	shilvisingh123@gmail.com
Shah Dhruv	9574920366	dhruvshah454@gmail.com