ABOUT US

INFERNO’13 is an inter-collegiate Technical Festival organized by the students of The ICFAI University, Jaipur that provides a platform to the student to learn and explore various ingredients within their personality. Inferno is an opportunity which provides students that special edge and makes every student strong and competent enough to face the world.

Inferno is a 2 days Technical Festival with a multitude of events lined up in various categories, you can see for yourself, Inferno’13; The Flame of Knowledge”. The fest offers the participants a wide spectrum of events to prove their mettle.

Wrapping up the amalgam of thrill, excitement and experience, INFERNO’13. Be there as we seek to captivate and enlighten you.
COMPETITIONS

ROBOTICS

The Robotics Segment has 2 events

SMART SHADOWER

About:

“It is the brain, the little gray cells on which one must rely. One must seek the trust within not without.”

-Hercule Poirot

As you gear up for the ultimate line-tracking challenge, expect twist and turns, bumpy rides, forks, path discontinuity, flashing lights in the scorching summer of ‘INFERNO’.

Problem statement:
The participants should build an autonomous robot that can follow the given path in minimum possible time, without deviating from the line. The aim of the event is to check the stability and sensing capabilities of the robot in comparison with other opponents.

Gameplay
The event consists of two rounds.

Round 1:
- It is a preliminary round testing the line seeking capabilities of the participating robots.
- The track will include some smooth turns and also some sharp turns(+right angle and acute angles) to check your line seeking capabilities.
- The teams with fastest line seeking (minimum time) will qualify in
round.

**Round 2:**
- The qualifying teams will be exposed to some challenging situation.
- The two teams overcoming the challenges fastest will be awarded.

**Eligibility:**
1. Students from different colleges can form a team.
2. Team must be of atmost 4 members.

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**ROBO RACE**

**INTRODUCTION**

Okay, so you think your bot is fast, but is it faster enough? Robo Race is your best chance for finding out. Watch the country's quickest bots compete for their supremacy.

**Gameplay:**
The participants have to make a wired/wireless bot which completes the arena in minimum possible time.

**Eligibility:**
1. Students from different colleges can form a team.
2. Team must be of atmost 4 members.
ELECTRONICS/ELECTRICAL

The Electrical and Electronics Segment has 3 events

ELECTRO GEEK

Problem statement:
This competition checks the knowledge of the participant in the field of circuits and electronics. It's a team game with two members per team.

Gameplay
Round 1:
- This will be an elimination round.
- This round will consist of an objective quiz that will contain questions related to electronic circuits.

Round 2:
All the qualifying teams will be given problems wherein they have to make the required circuit correct.

Eligibility:
1. Students from different colleges can form a team.
2. Team must be of 3 members.

CIRCUIT COMPOSER

Gameplay:
Construct the circuit within a given span of time.

Eligibility:
1. Participant must be from same college.
2. Team must be of 3 members.
WORLD OF GATES

Gameplay:
Round 1: The first stage consist of a written round wherein teams are to find the errors in the circuits given on the paper.

Round 2: The qualifying teams will be given the physical circuits wherein they will be asked to find the errors having the desired output.

Eligibility:
1. Participants from the same college.
2. Team must be of 2 members.
The Computer Science Segment has 3 events

SONIC CODER

Introduction:
This Event is for all those, who think themselves as great coders. Undertake a thrilling journey through a series of brain storming questions that will test your heights of programming skills. You need to have acute knowledge of c/java language to solve nerve cracking problems code. “So Be Ready to code your way to be declared the Gods of the trade."

Gameplay:

Round 1: will be a written test, for those who clear the first round. Time Duration: 30 minutes
It will be before one day of the main round.

Round 2: (MAINS) the participants will be given some Programming Based questions that need to be programmed on the PC with specified compiler
Time: 1 Hour

Eligibility:
1. Students from different colleges can form a team.
2. Team must be of 2 members.
**KICK BUG**

**Introduction:**
A programmer who hasn't come across a bug is worth nothing!!” Here we will bombard you with C bugs and let us 'C' who cracks them out. Any one so daring enough to solve them in minimal time?? Top ten teams will make all their way through the first round (written session) and then we gonna blow your minds with Ciphers & some serious Algorithms. Be ready to take bullets on your mind.

**Gameplay:**

**Round 1:** The First stage consists of a written round consisting of a set of problems for debugging.

**Round 2:** The second stage consists of another written round consisting of a set of an algorithm based problems.

In this round the whole test duration is being divided into equal no. of intervals. In each interval an algorithm question sealed in an envelope will be given. During each interval the problem is to be solved in a minimum time, with each participant’s time of submission of the solution will be recorded. Winners will be decided on the basis of the least time taken to solve the Problem keeping the 'TIME COMPLEXITY' minimum.

**Eligibility:**
Team can be of 2 members or participate single.

**CRYPTIC**

**Introduction:**
This contest contains very basic programming question. Surprised!! . Before you end up with any conclusion, hold on! Here is the twist. Make your program as much difficult to understand as much you can in one hour. The only thing that you must take care of, is that your program must do the task given to you. So, go on experimenting with the code, stress your compiler in an unusual way as much as you can and come with a unique one. After this, your code will be provided to every other team and you will be provided with the code of other team. The teams will then have to go through the codes of other teams and
without actually running it, they have to detect the task being performed.

**Gameplay:**

**Round 1:** A text file would be given to the participants, you will have to identify working of that code and write C code for the same.

**Round 2:** This round will be conducted in two parts. In the first half, each team has to write an obfuscated code for the specific simple problem given to the team. The problem can be as simple as printing the Fibonacci series. The teams will be provided with the compiler for this part. After this, your code will be provided to every other team and you will be provided with the code of other teams. In the second half, the teams have to go through the codes of other teams, and without actually running the code, they have to come up with the task being performed. Language Allowed: C (gcc compiler)

**Eligibility:**

Team can be of 2 members or participate single.
MECHANICAL
The Mechanical Segment has 3 events

JUNK MANIA

Introduction
Something nice and creative can always be made out of raw materials provided to you. But, the fun of creating something out of useless junk is out of the world! And also, Green is the new trend. Every one's going Green! So recycle the junk, refresh your talent, reduce the effort and create something Junk-y!

Problem statement
To complete the task in the given time using only the junk provided.

Eligibility:
Team must consist of 4 members.

CADIAN

Cadian is a software application for computer-aided design (CAD) and drafting. The software supports both 2D and 3D formats. It is used to design machine and machine tool.

Problem Statement
To complete the task in the given time using the tools provided in the least time.

Eligibility: Single Participation.
**PRO-E**

**Pro-E** is a specialized tool for 2D and 3D designing of machines and tools.

**Problem Statement**
To complete the task in the given time using the tools provided in the least time.

**Eligibility:** Single Participation.
CIVIL
The Civil Segment has 3 events

CITY PLANNER

Problem statement
You have to design a city map. The team which comes up with the most innovative plan wins the competition.

Gameplay
Round 1:
• On the basis of given population data, participants have to plan a city of given area using sheet and drafter mainly considering specification based on Ministry of Urban Development of Government of India.
• On the basis of best designs, teams will be shortlisted. Only short-listed teams will be eligible to participate in 2nd round.

Round 2:
It is on the spot round and this will test your skills modification, maintenance of existing utilities and also introduction of new utilities on a given map/network.

Eligibility:
1. Participant must be from same college.
2. Team must be of 2 members.
DAM BUILDER

Introduction:
Although the benefits of dam construction are numerous, particularly in the context of climate change and growing global demand for electricity, recent experience has shown that many dams have serious negative environmental, human, and political consequences. Despite an extensive literature documenting the benefits and costs of dams from a single disciplinary perspective, few studies have simultaneously evaluated the distribution of biophysical, socio-economic, and geopolitical implications of dams. To meet the simultaneous demands for water, energy, and environmental protection well into the future, a broader view of dams is needed. We thus propose a new tool for evaluating the relative costs and benefits of dam construction based on multi-objective planning techniques.

Game Play: Construct a dam with clay and sand in a given span of time which have the strength to resist the flow of water.

Eligibility:
1. Participant must be from same college.
2. Team must be of 2 members.
### MODEL DESIGNING

#### Introduction:
Usual criterion for the strength of concrete in the building industry is the compressive strength, which is considered as a measure of quality concrete. However, in pavement constructions, such as highway and airport runway, the flexural strength of concrete is considered more important, as the stresses induced in concrete pavements are mainly flexural. Therefore, flexural strength is more often specified than compressive strength in the design of concrete mixes for pavement construction. It is not perfectly reliable to predict flexural strength from compressive strength. Further, various codes of the world specified that the paving concrete mixes should preferably be designed in the laboratory and controlled in the field on the basis of its flexural strength. Therefore, there is a need to design concrete mixes based on flexural strength.

**Game Play:** Convert the given 2D model into 3D using the given infantry like match-box, match-stick, cardboard, thermocol etc.

**Eligibility:**
1. Participant must be from same college.
2. Team must be of 2 members.
Paper Presentation

Introduction
“Even small creative ideas of individuals have the potential of being the foundation stones of tomorrow’s massive technologies.” Are you waiting for a platform to showcase your innovations? Here is a great opportunity for budding engineers to unleash their innovative technical ideas. Yes………The paper presentation event at INFERNO is all set to give you a golden platform to put forward your solutions to the ever-challenging technological problems faced by the society. The event consists of two successive stages, namely, Online Abstract Submission and On-Stage Presentation during TechFest’12.

Gameplay
There are two rounds of this event:
Round 1: There will be online abstract submission.
Round 2: The shortlisted participants will give a power-point presentation on the topics of their abstract, which would judged by panel of experts.

BUNKYARD ZONE

Counter Strike 1.6
Counter-Strike is a first-person shooter in which players join either the terrorist or counter-terrorist team. Each team attempts to eliminate the opposing team. Various LAN tournaments are held throughout the world to compete in the extreme environment of Counter Strike.

Need For Speed - Most Wanted
Wanna know what it feels like when the adrenaline rushes up one's veins when one speeds through dirty city streets in a sleek highly customized machine of pure power built solely for the purpose of breaking speed limits. Test your skills against other racers as you race through breathtaking realistic urban settings.
QUIZBEKISTAN

Techno Quiz

Quiz will be related to all the 4 core branches i.e. CSE, ECE, CE, ME.

Eligibility:
1. Not more than 4 teams from a college.
2. Team must be of 4 members.

General Quiz

Quiz will be related to current affairs, general knowledge, etc.

Eligibility:
1. Not more than 4 teams from a school.
2. Team must be of 4 members.
3. Only for 10+2 students.

GENERAL PARTICIPATION RULES

- Entry only on valid college ID or college fee receipt with valid photo ID.
- Any kind of obscenity, vulgarity, misbehavior will lead to immediate disqualification.
- Judge’s decision is final and binding.
- Registration counters of events open 1hr 30 mins before the event and close 30 mins before the event unless specified otherwise.
- All sharp objects, batteries, inflammable objects will not be allowed. Only technical personnel will handle all equipments.
- Participants have to follow general audience flow once the event gets over.
REGISTRATION FEES

Single Participation: Rs. 150
A team of two: Rs. 250
A team of three or four: Rs. 350
CONTACT

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