

Ref. No - 17

Date - .....

08/01/2024

The Principal

Govt. Engineering/Polytechnic College, Bihar

Subject: Invitation for the participation of the students of your institute in TechFusion'24

Respected Sir/Madam,

Greetings from Katihar Engineering College (KEC),

Technical and Cultural Fests play a pivotal role in showcasing the latest advancements, innovations and breakthroughs in various tech fields. It is a great opportunity to explore cutting-edge technologies, attend workshops, and connect with like minded individuals, while also providing a platform for individuals to showcase their talent and gain personal growth. Thus, to highlight the idea of artistic thinking and creative mindset, **TechFusion – A Fusion of Technical and Cultural events by the Cultural and Digital Creator's Club of KEC, Katihar** is organizing the **Technical Cum Cultural Fest from January 25 to January 28, 2024 (Thursday to Sunday)**.

TechFusion'24 consists of various events, structured in accordance with the dynamic interests of the students. Events related to robotics, AutoCAD, Mechanical, Electricals, Civil, Hackathon, Singing, Dancing, Drama, Painting and various other events.

KEC Katihar feels great pleasure to invite the students of your institution in this Technical and Cultural extravaganza. The students will have to pay a registration fee to participate in TechFusion'24. All the registered students will be provided a participation Certificate and refreshments. The registered candidates can participate in any number of events, accommodation and meals are available for a fee in the college campus itself. Merit certificates and prizes of high value will be awarded to students securing the top 3 positions in the events.

For Registration Participants can visit : <https://www.techfusion.org.in>

For inquiries students may contact:

Prof. Suman Kumar: 8178001582

Aashish Kumar: 7700889658

Mohit Kumar: 7257827104

Kumar Gaurav: 7004174269

17  
08/01/24

Faculty Coordinator

TechnoFusion: The Technical and Cultural Fest

Ranjan  
08/01/24

Principal

KEC Katihar

कटिहार अविद्यालय महाविद्यालय  
कटिहार



# TECHFUSION

THE INTER COLLEGE TECHNICAL CUM CULTURAL FEST OF KEC,KATIHAR

25 - 28 JAN 2k24



EVENT BROCHURE

PRIZE MONEY  
WORTH 200K\*



# TECHFUSION

25 - 28 JAN 2k24



Katihar Engineering College (KEC), Katihar with the advent of technology and the emergence of notable education in our society, had decided to adapt the prevailing need for light. The college is enriched with a pollyannaish environment and enthusiastic students guided by well-qualified professionals from different prestigious colleges of our country.

**TECHFUSION'24** is a 4-day fest congregation of a group of events. The events are expected to have an average participation of 2000+ students including students arriving from other colleges to participate in it. TECHFUSION is all about students coming together, to experience the beauty of technology merged with fun

# TECHFUSION

25 - 28 JAN 2k24

ROBO WAR

LFR

HURDLE MANIA

HACKATHON

BUG HUNTING

ROBO SOCCER

\*BOAT A MAZE

ROBO RACE

CP

AUTO CAD

EVENTS



# TECHFUSION

25 - 28 JAN 2k24

SURVEYING

SEISMIC DESIGN

BRIDGE MAKING

ARMSTRONG

PHOTOGRAPHY

E-CHESS

BGMI

NUKKAD

THRUST

CROSSWORD

EVENTS



# TECHFUSION

25 - 28 JAN 2k24

QUIZ

TRICKY CIRCUIT

SANKALP

EXTEMPORE

FORENSIC  
HACKATHON

ARDUINO EFFECT

PRASTUTI

BLIND CODING



# TECHFUSION

25 - 28 JAN 2k24

SANSKRITI

INSTRUMENTAL

VOICE OF SOLO

CURTAIN RAISER

NRITYAKALA



# TECHFUSION

25 - 28 JAN 2k24

ARZ KIYA HAI

TRUE SHADES

GRAPHIC WAR

CINEMATOGRAPHY

RAP BATTLE

EVENTS



25 - 28 JAN 2k24



## ROBO WAR

THE CHALLENGE IS TO DESIGN AND BUILD A ROBOT, COMPETENT TO FIGHT OTHER ROBOTS IN THE BATTLE.



## LFR

TEAMS ARE REQUIRED TO ASSEMBLE AND FORM AN AUTONOMOUS BOT THAT CAN FOLLOW A BLACK LINE OVER A CONTRASTING SURFACE.



## ROBO RACE

THE GOAL OF ROBORACE IS TO ADVANCE THE DEVELOPMENT OF AUTONOMOUS VEHICLE TECHNOLOGY BY PROVIDING A PLATFORM FOR TESTING AND COMPETITION



# TECHFUSION

25 - 28 JAN 2k24



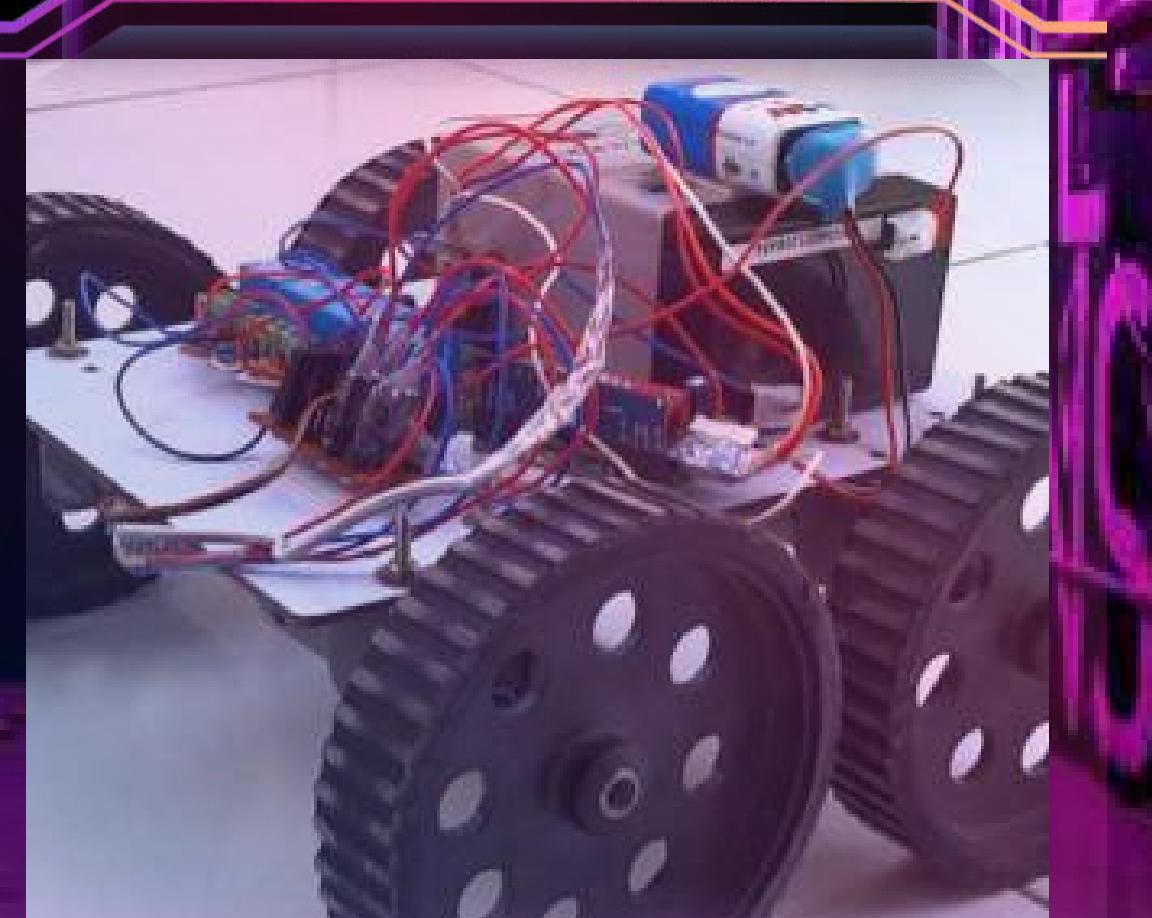
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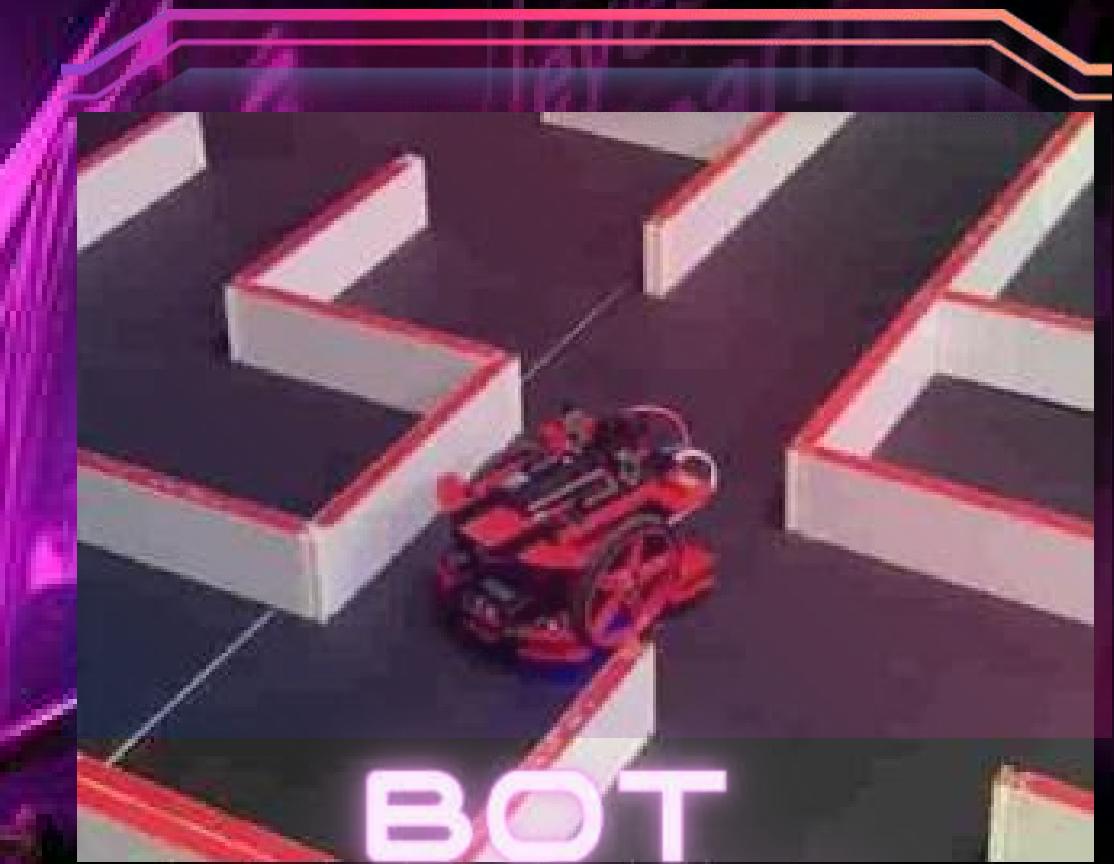
## ROBO SOCCER

ROBOSOCCER IS AN EVENT IN WHICH ROBOTIC MACHINES COMPETE AGAINST EACH OTHER IN SOCCER (FOOTBALL) LIKE GAME

THE MAIN TASK IN THE EVENT IS TO CONSTRUCT A RACING BOT (WIRED OR WIRELESS) THAT CAN COMPETE AGAINST THE OPPONENT BOT WHILE TRAVERSING THROUGH THE ARENA FULL OF SHARP TURNS, ROUGH PATHS, ZIG-ZAG PATHS, WEDGES, ETC



## HURDLE MANIA



## BOT A MAZE

THE PARTICIPANTS OF THIS EVENT ARE REQUIRED TO BRING BOTS WITH/WITHOUT THE HAND MADE CHASSIS AND PRE DEFINED DIMENSIONS

25 - 28 JAN 2k24



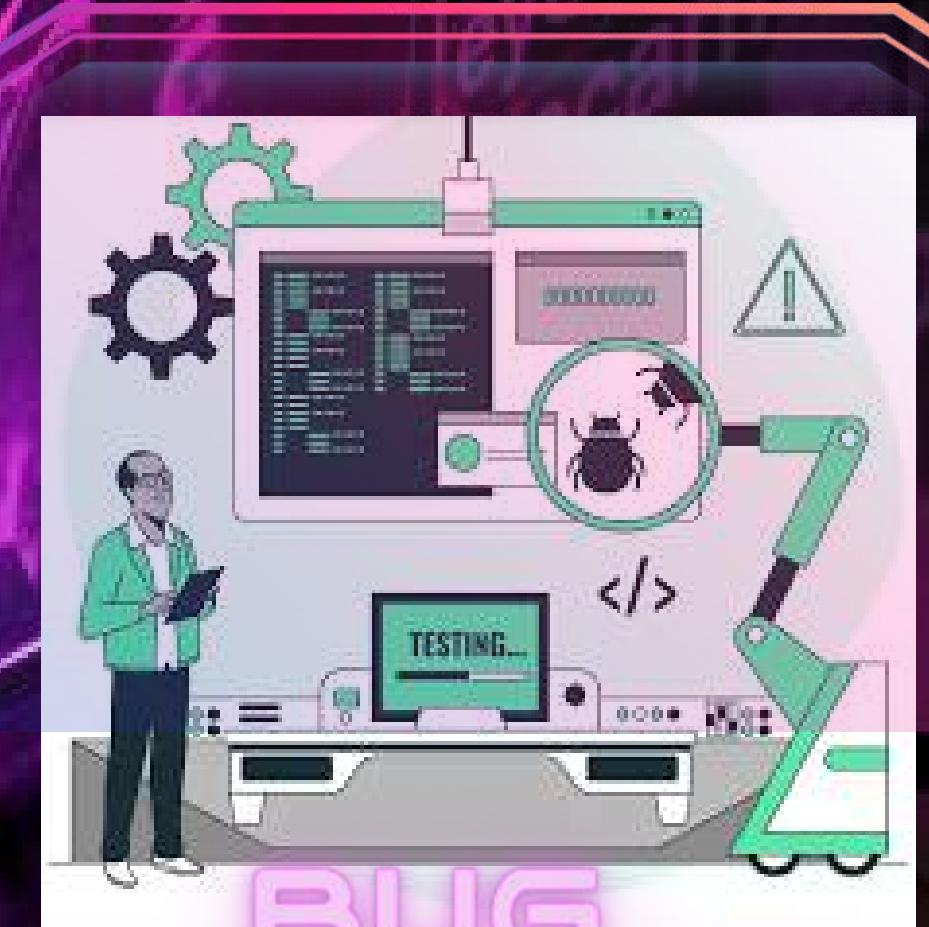
## HACKATHON

HACKATHON IS AN EVENT WHERE PARTICIPANTS COMPETE TO DEVELOP INNOVATIVE SOFTWARE SOLUTIONS TO SOLVE REAL-WORLD PROBLEMS. THIS IS A GREAT OPPORTUNITY FOR DEVELOPERS, DESIGNERS, AND CODERS TO COME TOGETHER AND SHOWCASE THEIR SKILLS, CREATIVITY, AND PASSION FOR TECHNOLOGY.

EACH PARTICIPANT HAS TO WRITE THE CODE FOR GIVEN PROBLEM, WITH MONITOR OFF. PROBLEM STATEMENT WILL BE AVAILABLE IN ENGLISH LANGUAGE. THERE WILL BE A C/C++ COMPILER. THIS EVENT CONSISTS OF 2 ROUNDS.



## BLIND CODING



## BUG HUNTING

DEBUGGING IS THE PROCESS OF FINDING AND FIXING BUGS IN THE SOURCE CODE OF ANY SOFTWARE.



# TECHFUSION

25 - 28 JAN 2k24



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## AUTO CAD

AUTO CAD IS AN EVENT TO SHOWCASE YOUR DESIGNING SKILLS AMONG HUNDREDS OF WELL-VERSED PARTICIPANTS ACROSS BIHAR

PARTICIPANTS WILL HAVE TO BRING THEIR SELF MADE TRUSS BRIDGES ACCORDING TO THE GIVEN CRITERIA/S WHOSE STRENGTH WILL BE TESTED WITH WEIGHTS AND THE ONE WITH THE BEST STRUCTURE SHALL WIN THE PRIZE



## BRIDGE MAKING



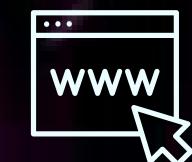
## BGMII

THIS IS AN INVITE TO ALL THE GAMERS OUT THERE, WHOSE ETERNAL PEACE LIE IN A PLACE CALLED ERANGEL. GEAR UP FOR YOUR MUCH BELOVED CHICKEN DINNER !



# TECHFUSION

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## CROSSWORD

SHOW OFF YOUR VOCABULARY & LOGICAL SKILLS AND COMPETE WITH THE BEST IN THE GAME AT CROSSWORD & SUDOKU, JOIN US FOR A FUN-FILLED COMPETITION AND PUT YOUR LINGUISTIC ABILITIES TO THE TEST! WHO WILL BE CROWNED THE ULTIMATE WORDSMITH? JOIN US AND FIND OUT!

THIS EVENT REQUIRES A BASIC KNOWLEDGE OF FABRICATION, MATERIALS AND PHYSICAL CALCULATIONS INVOLVING THRUST, AIR PRESSURE ETC.



## ARMSTRONG

ARMSTRONG IS AN EVENT THAT TESTS THE POWER OF A HYDRAULIC ARM TO LIFT THE OBJECT ALONG WITH THE KNOWLEDGE OF ESSENTIAL HYDRAULIC COMPONENTS LIKE INCOMPRESSIBLE LIQUID, THE CAPACITY OF FLUID TO LIFT THE OBJECT, ETC





# TECHFUSION

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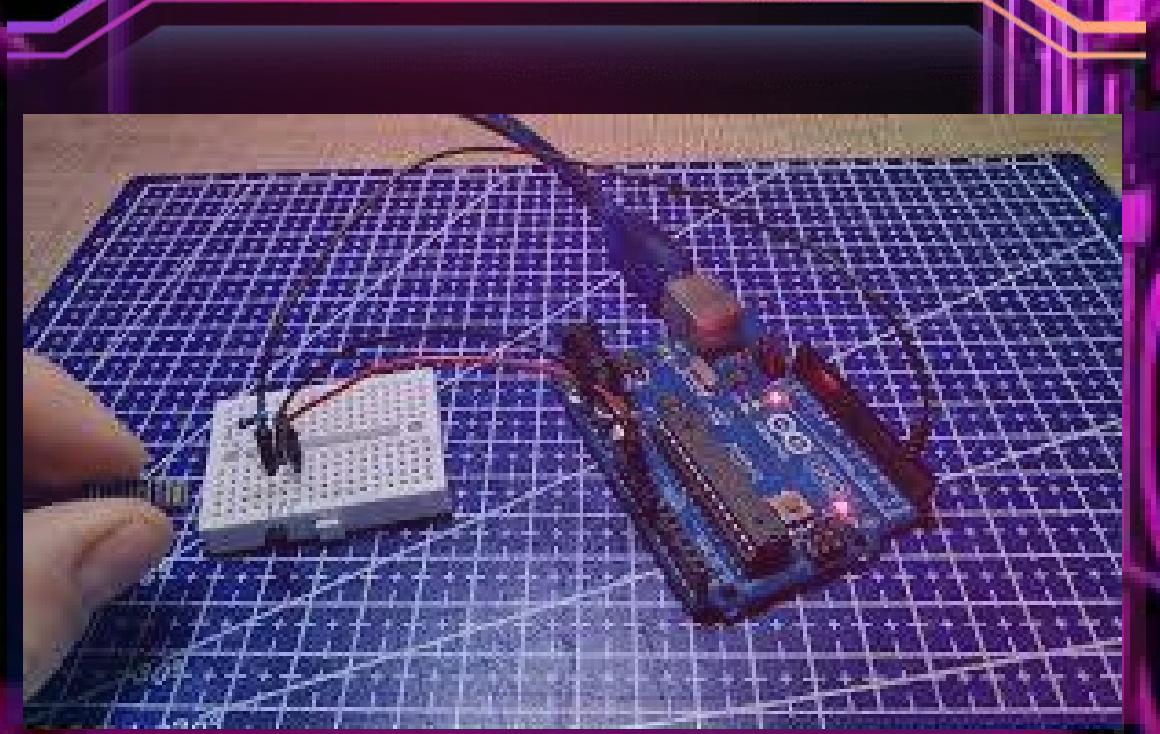


THE EVENT WILL GIVE THE PERFECT THRILLER AND ENTERTAINMENT TO THE PARTICIPANTS AND AUDIENCE BY DIFFERENT ROUNDS OF AUDIO, VIDEO AND PEN-PAPER TEST.

IT CONTAINS TWO CATEGORIES WHICH INCLUDE :

- A.) SCIENCE, TECH AND SPORTS
- B.) GK, GS AND BUSINESS

THE ARDUINO EFFECT COMPETITION 2024, WILL BE CONDUCTED ON 23/01/2024. IT CONSIST BASICALLY A PROJECT BASED ON ARDUINO. EACH TEAM WILL CONSIST OF AT MOST FOUR MEMBERS FROM A PARTICULAR COLLEGE.



## AURDUINO EFFECT



## E-CHESS

ONLINE CHESS WILL BE CONDUCTED ON THE CAMPUS OF KEC KATIAR. PLAYERS SHOULD BE PRESENT IN OFFLINE MODE ON CAMPUS. ALL THE FIDE RULE WILL BE APPLIED DURING THE GAME. EACH MATCH WILL BE THE KNOCKOUT OUT MATCH. THE GAME DURATION WILL BE 10 MIN IN THE INITIAL STAGE.



# TECHFUSION

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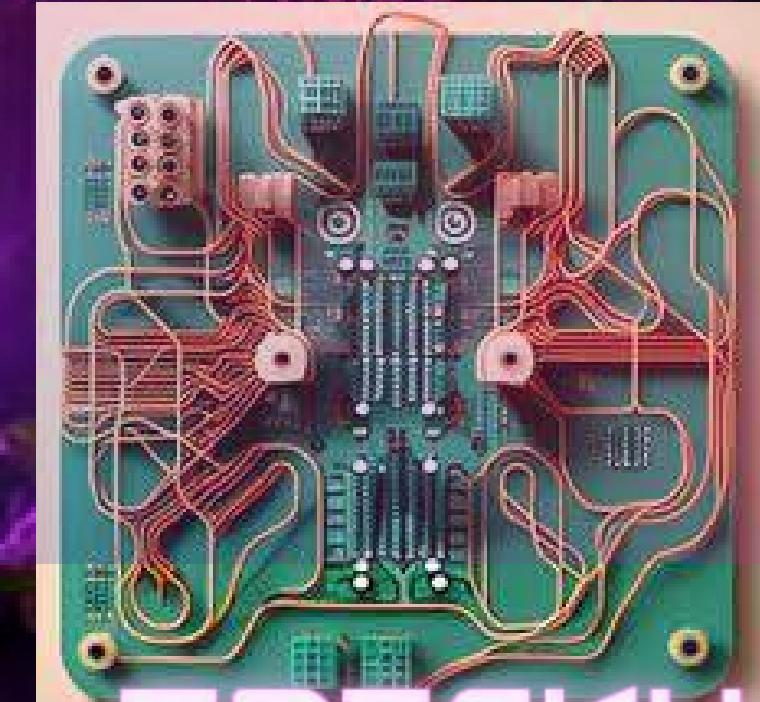
## PHOTOGRAPHY

ALL PARTICIPANTS MUST BE CURRENTLY ENROLLED STUDENTS IN A COLLEGE OR UNIVERSITY. EACH TEAM CAN HAVE A MAXIMUM OF 4 MEMBERS. THE THEME OF THE COMPETITION MUST BE STRICTLY FOLLOWED

EXPLOITING THE POWER OF A STREET GATHERING, NUKKAD OR STREET PLAYS HAVE BEEN THE MEDIUM OF THE VOICE OF THE PEOPLE FROM TIME IMMEMORIAL. NOW BE A PART OF THIS TRADITION AND STRIVE TO BRING ABOUT CHANGE BY TAKING PART IN NUKKAD,



## NUKKAD



## TRICKY CIRCUIT

THERE WILL BE 2 PARTICIPANTS IN EACH TEAM THERE WILL BE A LOTTERY SYSTEM IN WHICH EACH TEAM IS ASKED TO CHOOSE A TOKEN WHICH DECIDES THE CIRCUIT TO BE DRAWN PARTICIPATING TEAMS HAVE TO COMPLETE.



# TECHFUSION

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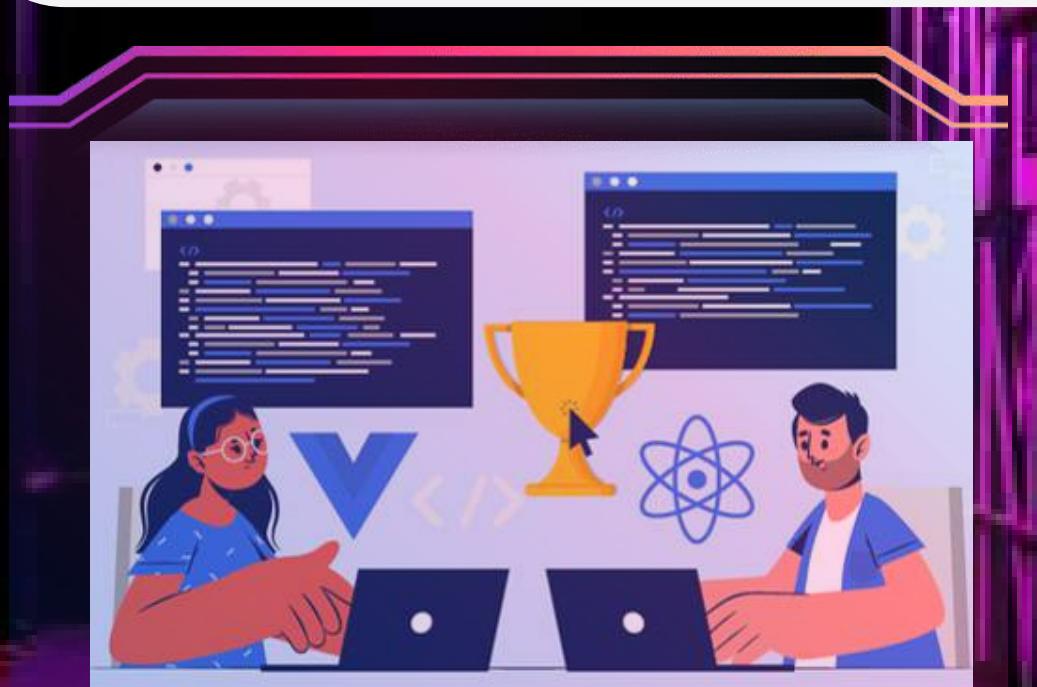


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IN SANKALP, THE PARTICIPANTS WILL PRESENT THEIR UNIQUE IDEAS, THESE IDEAS MAY BE STARTUP RELATED, OR ANY OTHER B-PLAN THAT THEY CAN EXECUTE AND IMPLEMENT IF GIVEN AN OPPORTUNITY TO DO SO.

A TEAM WILL CONSIST OF THREE MEMBER, WHO REPRESENTING THEIR RESPECTIVE COLLEGE. NO EXCHANGE OF STUDENT UNDER ANY CIRCUMSTANCES OTHERWISE IT MAY CAUSE DISQUALIFICATION. EACH TEAM WILL USE A SINGLE WORKSTATION PROVIDED BY THE COLLEGE. PROGRAMMING LANGUAGE INCLUDES (C/C++/JAVA/PYTHON).



## COMPETITIVE PROGRAMMING

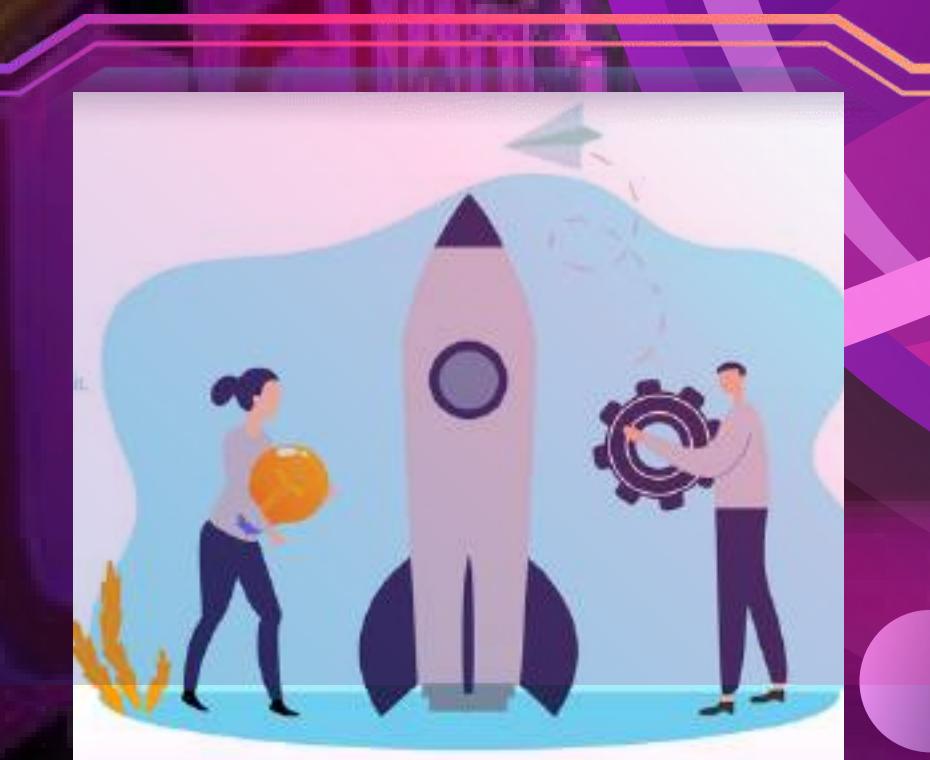


MINIMUM TWO (2) AND MAXIMUM FOUR (4) MEMBERS IN A TEAM. LAPTOP WITH MINIMUM 4GB RAM AND 500 GB HARD DISK. MCQ TEST ROUND - (10 QUESTIONS). QUESTION - ANSWER ROUND - (4 QUESTIONS). FORENSIC TASK CHALLENGE ROUND - (4 QUESTIONS)

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IT'S A GREAT OPPORTUNITY FOR BOTH SCHOOL AND COLLEGE STUDENTS TO SHOWCASE THEIR IMAGINATION IN A MODEL. THE STUDENTS HAVE TO GIVE A BEAUTIFUL AND DETAILED EXPLANATION OF THEIR MODELS TO ALL THE JUDGES. THEY ARE REQUIRED TO PREPARE AND PRESENT THE THEORY AND CONCEPT BEHIND THE PROJECT.



## PRASTUTI



## SURVEYING

THE ABILITY OF AN ENGINEER TO QUICKLY AND ACCURATELY ANALYZE A SITE IS VERY IMPORTANT WHETHER ANALYZING PRE-CONSTRUCTION CONDITIONS OR COMBATING A PROBLEM DURING CONSTRUCTION. THE OBJECTIVE OF THIS EVENT IS TO PROVIDE PARTICIPANTS WITH AN OPPORTUNITY TO WORK IN A TEAM ENVIRONMENT, COLLABORATE WITH LIKE-MINDED INDIVIDUALS,

25 - 28 JAN 2k24



## EXTEMPORE

EXTEMPORE IS A DEBATE COMPETITION EVENT. A FORMAL DEBATE INVOLVES TWO SIDES: ONE SUPPORTING A RESOLUTION AND ONE OPPOSING IT.

GROUP DANCE COMPETITION CELEBRATING DIVERSE ART AND CULTURES THROUGH VIBRANT AND COORDINATED PERFORMANCES.

## NRITYAKALA



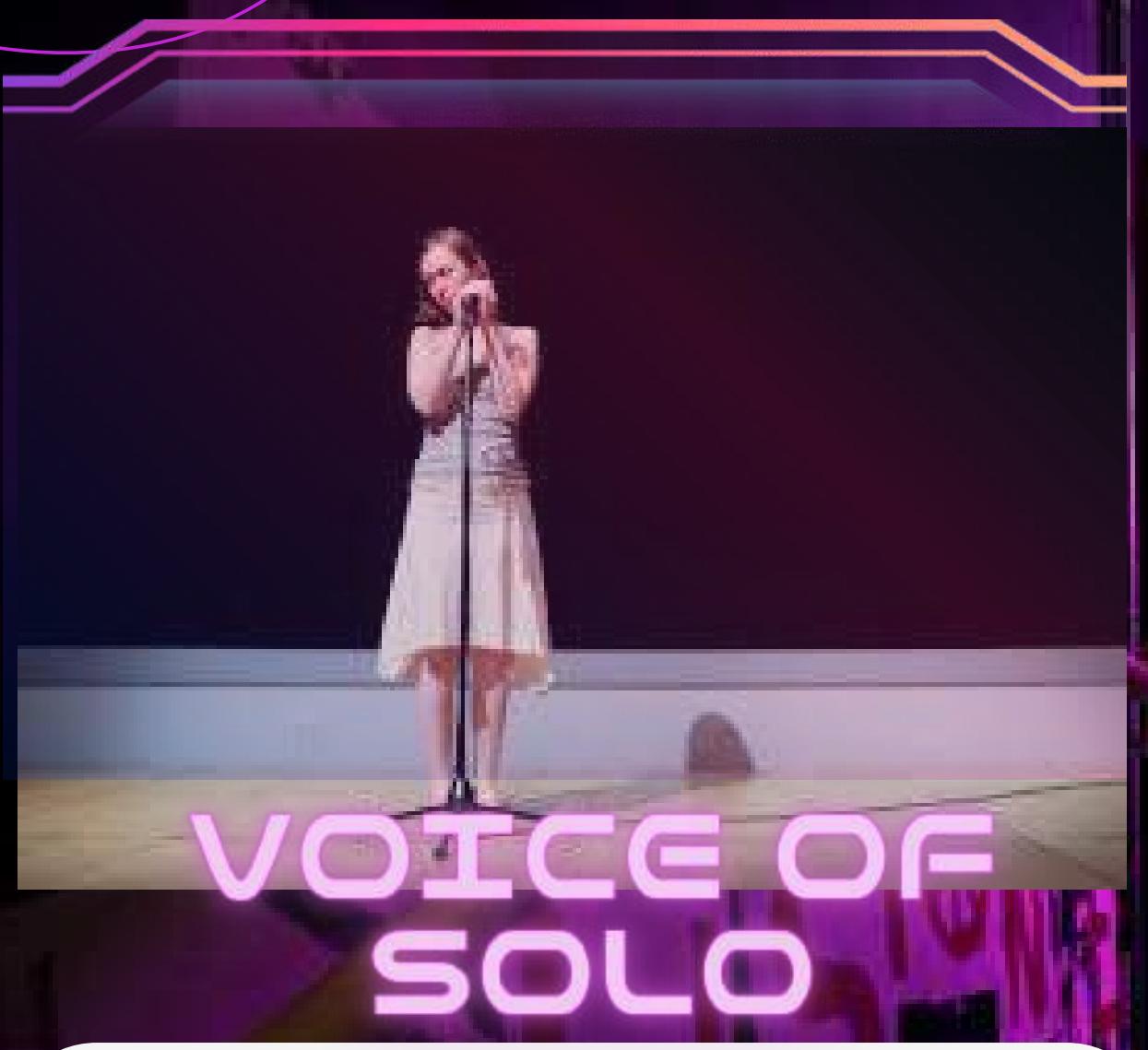
## SANSKRITI

CLASSICAL SOLO DANCE COMPETITION WHERE FUSION OF TRADITION AND INNOVATION, EMBODYING THE ESSENCE OF CULTURAL GRACE THROUGH RHYTHMIC MOVEMENTS.



# TECHFUSION

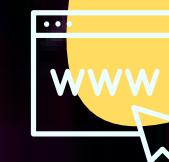
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HINDI SINGING COMPETITION HIGHLIGHTING INDIVIDUAL VOCAL TALENTS IN SOULFUL SOLO PERFORMANCES.

INTENSE COMPETITION WHERE PARTICIPANTS ENGAGE IN RHYTHMIC AND LYRICAL BATTLES SHOWCASING THEIR RAP SKILLS.

## RAP BATTLE



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## INSTRUMENTAL

SHOWCASING MUSICAL PROWESS THROUGH INSTRUMENTAL PERFORMANCES ACROSS VARIOUS GENRES.



# TECHFUSION

25 - 28 JAN 2k24



POETRY COMPETITION  
PROVIDING A PLATFORM  
FOR PARTICIPANTS TO  
EXPRESS THEMSELVES  
THROUGH ELOQUENT  
VERSES.

GRAPHIC DESIGNING  
COMPETITION  
CHALLENGING  
PARTICIPANTS TO  
SHOWCASE THEIR  
DIGITAL CREATIVITY  
AND DESIGN SKILLS.

## GRAPHIC WAR



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## TRUE SHADES

CHARCOAL PAINTING  
COMPETITION  
SHOWCASING ARTISTIC  
EXPRESSIONS AND  
CREATIVITY IN SHADES  
OF BLACK AND WHITE.





# TECHFUSION

25 - 28 JAN 2k24



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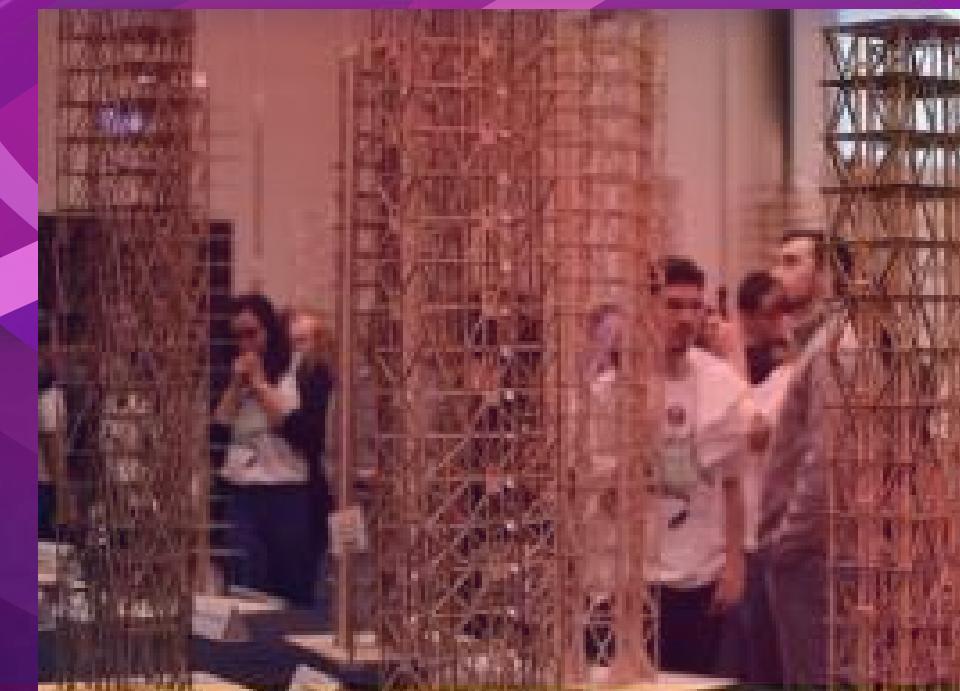


## CURTAIN RAISER

STAGE PLAY  
COMPETITION FEATURING  
COMPELLING NARRATIVES  
AND ENGAGING  
PERFORMANCES.

THE GOAL OF THE COMPETITION IS TO TEST THE TEAMS' KNOWLEDGE OF SEISMIC DESIGN PRINCIPLES, AS WELL AS THEIR ABILITY TO APPLY THOSE PRINCIPLES IN A REAL-WORLD CONTEXT

## SEISMIC DESIGN



## CINEMATOGRAPHY

COMPETITION FOCUSING ON THE ART AND SKILL OF CAPTURING COMPELLING VISUALS AND STORYTELLING THROUGH FILM.



+PRIZE MONEY

WORTH

200K+



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# TECHFUSION

THE INTER COLLEGE TECHNICAL CUM CULTURAL FEST OF KEC,KATIHAR

**25 - 28 JAN 2k24**

**INVITING ALL STUDENTS FROM ALL COLLEGES OF  
BIHAR WHERE IDEAS CONVERGE AND TECHNOLOGIES DIVERGE**



**For mOre Details:**  
+91 9504654584  
+91 72578 27104