Govt. of Bihar
KATIHAR ENGINEERING COLLEGE, KATIHAR
KATIHAR (BIHAR)-854109
(Under the department of Science, Technology and Technical Education, Bihar)

Ref. No.: 1154

Date: 11/12/2024

TO,
The Principal§
Govt. Engineering /Polytechnic/I.T.I/Nursing College , Bihar

Subject: Invitation for the participation of the students of your institute in TechFusion'25

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 9th January to 12th January, 2025 (Thursday to Sunday).**

TechFusion'25 will feature a wide range of events, carefully structured to align with the dynamic interests of students. These events include robotics, AutoCAD, mechanical, electrical, civil engineering challenges, hackathons, singing, dancing, drama, painting, and various other activities.
KEC Katihar feels great pleasure to invite the students of your institution in this Technical and Cultural extravaga. The students will have to pay a registration fee to participate in TechFusion'25. All the registered students will be provided a participation Certificate. The registered candidates can participate in upto 10 events, accommodation and meals are available for a fee in the college campus itself. Merit certificates and valuable prizes will be awarded to the top 3 positions in each event, as per the rules outlined in the official rulebook available on the website.

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

For inquiries students may contact:

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09/12/24

Faculty In-Charge
TechFusion: Technical and Cultural Fest

10/12/24

Principal
KEC Katihar

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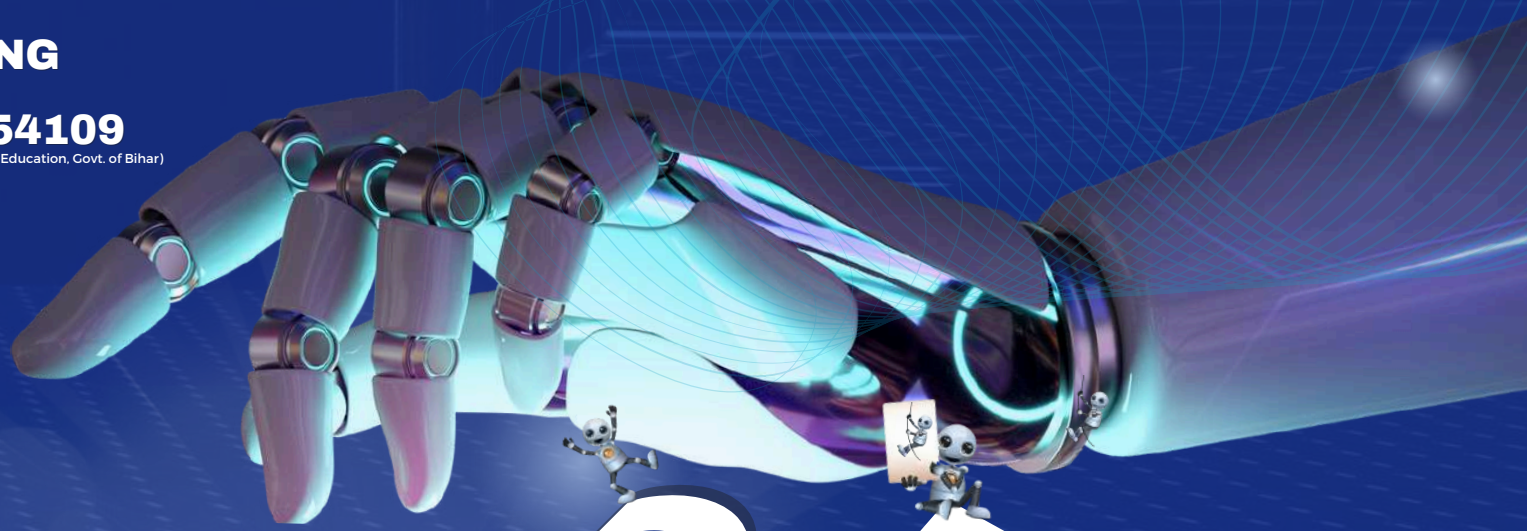
(Dept. of Science, Technology & Technical Education, Govt. of Bihar)



tech फ्यूज़न 25

Annual technical cum cultural fest of KEC Katihar

10th to 13th Jan, 2025

200K + PRIZE POOL

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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'25 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

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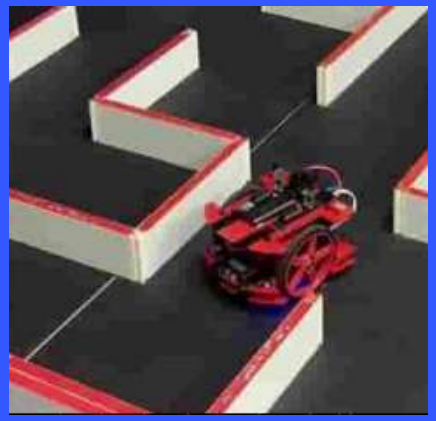
robo race

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

robo war

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

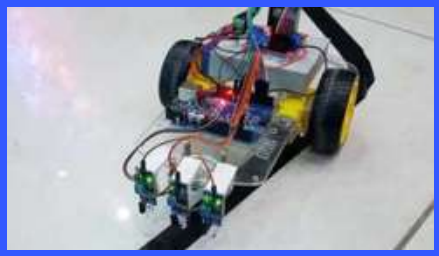
THE PARTICIPANTS OF THIS EVENT ARE REQUIRED TO BRING BOTS WITH/WITHOUT THE HAND MADE CHASSIS AND PRE DEFINED DIMENSIONS



bot-a-maze

robo soccer

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



line following robot

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

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hurdle mania

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

bgmi squad

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 !

SEISMIC DESIGN EVENT IS A COMPETITIVE CHALLENGE WHERE PARTICIPANTS DESIGN AND CONSTRUCT MODELS OF EARTHQUAKE-RESISTANT STRUCTURES. THESE MODELS ARE TESTED ON A SHAKE TABLE TO SIMULATE SEISMIC ACTIVITY, EVALUATING THEIR STABILITY AND DURABILITY.

seismic design

competitive programming

SOLO PARTICIPANTS REPRESENT THEIR COLLEGE WITHOUT EXCHANGES; VIOLATIONS MEAN DISQUALIFICATION. WORKSTATIONS ARE PROVIDED. PROGRAMMING IN C, C++, JAVA, OR PYTHON IS PERMITTED. SHOWCASE YOUR SKILLS!

bgmi solo

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hackathon

A HACKATHON IS AN INNOVATION-DRIVEN EVENT WHERE PARTICIPANTS COLLABORATE INTENSIVELY TO DEVELOP SOLUTIONS TO SPECIFIC CHALLENGES WITHIN A SET TIMEFRAME TYPICALLY 24-48 HOURS. IT FOSTERS CREATIVITY AND TEAMWORK.

sankalp

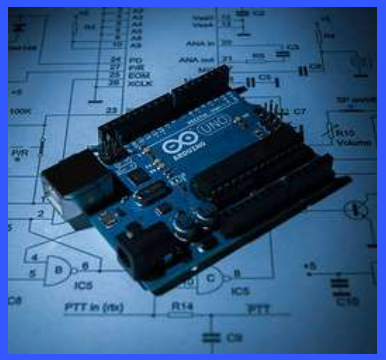
IN SANKALP, THE PARTICIPANTS WILL PRESENT THEIR UNIQUE IDEAS, THESE IDEAS MAY BE STARTUP RELATED, OR ANY OTHER B-PLAN THAT THEY CAN EXECUTE AND IMPLEMENT IF GIVEN AN OPPORTUNITY TO DO SO.

bridge making

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

arduino effect

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



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.

thrust

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

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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

prastuti

IT'S A GREAT OPPORTUNITY FOR BOTH SCHOOL AND COLLEGE STUDENTS TO SHOWCASE THEIR IMAGINATION IN A MODEL. THEY ARE REQUIRED TO PREPARE AND PRESENT THE THEORY AND CONCEPT BEHIND THE PROJECT.

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

quiz

CROSSWORD AND SUDOKU ARE PUZZLES THAT TEST MENTAL SKILLS. CROSSWORDS INVOLVE FILLING A GRID WITH WORDS FROM CLUES, WHILE SUDOKU REQUIRES COMPLETING A 9X9 GRID WITH DIGITS 1-9, ENSURING NO REPETITION.

crossword & suduko

free fire squad

FREE FIRE SQUAD CONSISTS OF FOUR PLAYERS WORKING TOGETHER TO SURVIVE AND ELIMINATE OPPONENTS IN A BATTLE ROYALE SETTING. T

e-chess

ONLINE CHESS WILL BE CONDUCTED ON THE CAMPUS OF KEC KATIHAR. PLAYERS ARE REQUIRED TO BE PRESENT IN OFFLINE MODE ON CAMPUS. ALL FIDE RULES WILL BE APPLIED DURING THE GAME. EACH MATCH WILL BE A KNOCKOUT MATCH, WITH A GAME DURATION OF 10 MINUTES IN THE INITIAL STAGE.

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nritya kala

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

arz kiya hai

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

voice of solo

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

sanskriti

A VIBRANT RAMP WALK EVENT SHOWCASING THE RICH TRADITIONS AND CULTURAL HERITAGE THROUGH THE ELEGANCE OF TRADITIONAL ATTIRE. WITNESS THE ESSENCE OF DIVERSE CUSTOMS AND ARTISTRY AS PARTICIPANTS PRESENT THEIR CULTURE VIA THEIR DRESS.

curtain raiser

STAGE PLAY COMPETITION FEATURING COMPELLING NARRATIVES AND ENGAGING PERFORMANCES.

rap battle

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

instrumental

SHOWCASING MUSICAL PROWESS THROUGH INSTRUMENTAL PERFORMANCES ACROSS VARIOUS GENRES.

treasure hunt

EMBARK ON AN ADVENTUROUS QUEST, SOLVING CLUES AND OVERCOMING CHALLENGES TO DISCOVER HIDDEN TREASURES.

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extempore

EXTEMPORE IS A SPEECH ACTIVITY WHERE PARTICIPANTS SPEAK ON A GIVEN TOPIC WITHOUT PRIOR PREPARATION, SHOWCASING QUICK THINKING AND COMMUNICATION SKILLS

true shades

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

cinematography

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

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

BUG HUNTING IS THE PROCESS OF IDENTIFYING AND FIXING ERRORS OR VULNERABILITIES IN SOFTWARE, ENHANCING DEBUGGING SKILLS AND SECURITY. IN CYBERSECURITY, IT FOCUSES ON FINDING VULNERABILITIES TO IMPROVE SOFTWARE SAFETY.

bug hunting

graphic war

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

blind coding

BLIND CODING IS A PROGRAMMING CHALLENGE WHERE PARTICIPANTS WRITE CODE WITHOUT SEEING THE OUTPUT OR DEBUGGING IN REAL-TIME, RELYING ENTIRELY ON LOGIC, SYNTAX, AND PROBLEM-SOLVING SKILLS.

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glimpse of techfusion'24

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dj night
experience a night like never before!
on last day of the event
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Inviting all students from all colleges of Bihar Where Ideas Converge and Technologies Diverge.

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For More Info:

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Mohit Kumar - 7257827104

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