



Khalsa College of Engineering & Technology

ਖ਼ਾਲਸਾ ਕਾਲਜ ਆਫ਼ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ

Governed by Khalsa College Charitable Society, Amritsar, Estd. 1892

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Rule Book Tech Urja 2K25

Project Exhibition (All innovative ideas are welcome)

- Participants can represent their innovative idea based on latest technologies
- The Team should display their project throughout the event schedule.
- Brief explanation and proper presentation is expected.
- The decision of the judges will be considered final and binding.

Quiz Competition

1. Each team shall have three members only.
2. The quiz will be conducted in two rounds.

a) Screening Round :

- i) All the participants can participate in the screening round, from which 4 teams will be selected and those 4 teams will participate in the final rounds of the quiz.
- ii) The 4 teams selected will be from different college/institute.

NOTE: if a college /institute has more than one team in the top 4, the team having top ranking will be selected for final round.

b) Final Rounds: Final Round will consist of following sections

- i) First timers
 - ii) Subject Round
 - iii) Rapid fire round (Each team has to answer max. questions in 30 seconds.)
3. 10 marks for right answer and -5 for wrong answer.
 4. The extra question will be asked in case there is tie between the teams.

Extempore

- Individual entries shall be allowed in this competition.
- A random topic shall be given to the student on the spot
- The student shall be given a time of 2 minutes to prepare the topic
- A time of 3 minutes shall be given to speak.

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- A bell will ring at 2 minutes and final warning bell will ring at 3 minutes.
- A student speaking below 1 and a half minutes and above 3 minutes shall be disqualified.
- Decision of the judges shall be final and binding

Situation Reaction Test:

- Team has one participant.
- 30 situations will be provided and student has to answer in 20 mins.

Tech Reels:

- Team has maximum two participants.
- Theme/ Topic will be given on the spot
- Time allowed 60 mins
- Reel should be up to 1 min

DSLR Photography:

- Team has maximum one participant
- The student who clicks the **BEST 10** photographs of the coverage of tech fest will be winner

Group Discussion:

- There will be 7-8 participants at a time.
- GD will be based on certain topics which are practical and real.
- Always raise hand before speaking.
- Avoid false starts, do not present wrong data or facts or deviate from topic.
- Do not get too emotional
- Do maintain etiquettes
- Oppose to the points raised by other member(s) by pointing issues rather than launching a personal attack on any of the members

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Rules for Paper Presentation:

- Team should have minimum 2 and maximum 3 participants.
- Duration of presentation should be between 4 to 6 minutes.
- Slides to be prepared should not be less than 8 and not more than 12.
- Each team will be asked two questions by judges related to presentation.
- The presentation will be judged by judges on the basis of : **Content of presentation, Confidence and verbal Skills, Use of graphics, Sound, video and question Round.**

Topics of Paper Presentation:

- Quantum Computing Explainable AI and its Applications
- Deep Foundation Ground improved techniques
- Information Security Artificial Intelligence
- Sustainable machine
- Electrical/ Hybrid Vehicle Engineering
- Flexible Electronics Electrical Vehicles
- Role of AI in Radiology Imaging
- Role of Paramedics in Severe Emergency Response
- Business Idea's
- Trends in Marketing

S. No.	Name of Event	Rules
1	Code warrior (Programming in JAVA & Python)	<ul style="list-style-type: none">• Maximum two participants per team per college is allowed.• Problem to test the logic will be given on the spot.• Python/Java language will be used to solve the given problem• Judgement of this event will be based on solution strategy used to solve the problem, correctness, completeness, time/space requirements and user interface of the program
2	Web war (HTML)	<ul style="list-style-type: none">• Maximum two participants per team per college is allowed.• Topic will be announced on the spot.• HTML will be used.

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3	IT Collage/ IT Chart	<ul style="list-style-type: none">• One participant per team per college is allowed.• Sheet size must be 2*3 feet.• Charts/Collage are to be submitted at time of registration.• On backside of chart, it must include name of participant, fathers name, class and college name.• Chart/Collage theme should be based on IT.
4	Bridge Engineering - Popsicle Stick Bridge	<ul style="list-style-type: none">• 3 members make a team.• Only wooden popsicle sticks and white glue can be used to make your bridge.• You may use no more than 120 popsicle sticks.• The bridge must be at least 300mm long and has an overall width of at least 100mm.• Please remember that load testing may result in the destruction of the bridge.• Total time allotted for the event is 60 minutes and after 2 hour of making load testing will be done in front of judges.• Load will be applied in the center of the span on the "roadbed" surface.• A bridge may be considered to have "failed" under the test load if the bridge components break, crack, or separate, causing the collapse.• Be creative and have fun!
5	AUTO CAD 2D PLAN	<ul style="list-style-type: none">• A drawing will give to participants & they will have to draw it in AUTOCAD.• They drawing should be made with proper dimensioning.• Any discrepancy leads to disqualification of candidate.• Total time allotted for the event is 25 minutes and 5 minutes to think over the matter.• Candidates who finish the task first will win the first round.• Shortlisted candidate will appear in round 2.• Same rules must be followed in round 2
6	SURVEY HUNT	<ul style="list-style-type: none">• A team shall be of 3 members only.• In first round screening test shall be conducted and top 4 teams will be selected for second round based on the accuracy of the work.• Time allotted for task is 1 hour.
7	Logic Gate Hunt	<ul style="list-style-type: none">• Select a truth table slip from a jar, identify the correct logic gate, and stand in the corresponding circle
8	One Minute JAM	<ul style="list-style-type: none">• Where you can pick a topic about electronics and talk about it.• No Language Barrier.
9	Electronic Component Puzzle	<ul style="list-style-type: none">• Correctly Identify and organize electronic components.
10	Machine Drawing	<ul style="list-style-type: none">• Maximum One participant per college is allowed.• Problem to test the logic will be given on the spot.• Participants must bring their own all require items
11	Solid Modelling	<ul style="list-style-type: none">• Maximum One participant per college is allowed.• Topic will be announced on the spot.

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12	Bridge Building	<ul style="list-style-type: none">• 3 members make a team.• Only wooden popsicle sticks and white glue can be used to make your bridge.• You may use no more than 120 popsicle sticks.• The bridge must be at least 300mm long and has an overall width of at least 100mm.• Please remember that load testing may result in the destruction of the bridge.• Total time allotted for the event is 60 minutes and after 2 hours of making load testing will be done in front of judges.• Load will be applied in the center of the span on the “roadbed” surface.• A bridge may be considered to have “failed” under the test load if the bridge components break, crack, or separate, causing the collapse.• Items used :- Popsicle, gums and construction paper.
13	Anatomy Painting	<ul style="list-style-type: none">• Participants will choose an anatomical structure/system (e.g., skeletal system, cardiovascular system, neuroanatomy, etc.).• The painting will be scientifically accurate and visually creative.• Only handmade paintings (using watercolors, acrylics, or pastels) are allowed.• No digital artwork will be displayed.• Reference images can be used, but direct tracing is not allowed.• 2–3 hours will be provided to complete the artwork. Followed by 10 min explanation.• Participants will bring their own art supplies.
14	Radiology Inter - Medical Device Explanation	<ul style="list-style-type: none">• Each participant/team must select a radiology-related device (e.g., X-ray machine, CT scanner, MRI, ultrasound, etc.).• The explanation should cover:-Principle & Working Mechanism, Clinical Applications, Advantages & Limitations, Future Developments (if any)• A live demo (if feasible) or a 3D model/video will be demonstrated.• Each presentation should not exceed 8–10 minutes.
15	Live OT Demonstration	<ul style="list-style-type: none">• Ensuring clarity while explaining the operation theatre setup.• Keeping the demonstration interactive and engaging.• Following a structured approach: introduction, equipment explanation, procedure, and conclusion.
16	No Flame Cooking	<ul style="list-style-type: none">• Entry per institution will be one.• Team of 2 students can participate at a time.• Time Duration for this event is 30 mins.• Ingredients should be brought by participants themselves.• Mobile phones are not allowed.• Event judges will be final and binding.• Preparation should be done in front of the judges.
17	Preparation of Mocktails	<ul style="list-style-type: none">• Entry per institution will be one.• Each Team will consist of 2 members.• Time Duration for this event is 30 mins.• Each team will bring their own ingredients for the event.• Mobile phones are not allowed.• Preparation should be done in front of the judges.



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18	Towel Art	<ul style="list-style-type: none">• Entry per institution will be one.• Team of 2 students can participate at a time.• Time Duration for this event is 15 mins.• Each team will bring their own towels for the event.• Mobile phones are not allowed.• It should be done in front of the judges.
19	Logic Builder (Programming in C & C++)	<ul style="list-style-type: none">• Maximum two participants per team is allowed.• Problem to test the logic will be given on the spot.• C/C++ language will be used to solve the given problem• Judgement of this event will be based on solution strategy and time consumption used to solve the problem, correctness and completeness of the program.
20	Computer Geek	<ul style="list-style-type: none">• One participant per team is allowed.• Logos and Computer parts will be shown on the spot.• Total of 2 wrong answers out of 5 will result in disqualification.
21	Logic Constructor	<ul style="list-style-type: none">• One participant per team is allowed.• The statement problem will be provided on the spot.• The logic will have to be built on the basis of proper examination of the given result provided with the Logic Gates to be used.
22	Ad-Mad Show	<ul style="list-style-type: none">• Each team should have 4 members only.• The theme for the show will be imaginary product which is yet to be Launched.• Time limit for performing the advertisement is 90-180 seconds.• Participants shall be judged on the basis of spontaneity, content, adherence to the topic, presentation, coordination and overall appeal of the advertisement.• The caution should be taken to refrain from displaying obscenity, violence, prejudice, defamation etc. in Advertisement.• Decisions of the judges will be final and binding.
23	On the spot Poster Making	<ul style="list-style-type: none">• Theme for the poster should be related to information technology only.• Each Participant can post only one Poster• The poster must be made on the A3 size (11.7 * 16.5 inches) sheet with margins (0.5 inches) drawn with black pen/marker.• Poster can be made using pencil, crayon, watercolor, oil paint, etc.• Photographs, wires, other 3D objects, print-outs won't be acceptable. It should be original and hand made.• The Topic of poster and theme should be clearly mentioned at the Top Margin of the Poster.• The decision of the judges will be final.
24	Treasure Hunt	<ul style="list-style-type: none">• This game consist of 7 clues, each one leading to the next.• There are 5 players in each team.• The clues are to be found in a particular order.• A team cannot skip a clue.• Skipping a clue leads to the disqualification of the team.• Each team gets different clues.• The 7th clue which is the last clue it consist a prize for the winner team.

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25	Discussion and Panel Linkage with Innovation Ambassadors	<ul style="list-style-type: none">• This is a individual event• Team of 5 students will comprise panel• They will discuss on a given theme• Max time limit is 10 min
26	Solo Singing	<ul style="list-style-type: none">• No of Participants:01• Time Duration: Minimum:03mins and Maximun:05mins• The pre-recorded music is allowed
27	Duet Singing	<ul style="list-style-type: none">• Team of 2 people• Time Duration: Minimum:03mins and Maximun:05mins• The pre-recorded music is allowed
28	Best out of Waste	<ul style="list-style-type: none">• Team shall consist of two members only.• Participants will be given 1 hour and 30 min. to show their creativity and 2 minutes to talk about the same.• The required waste material and stationery like scissor, thread, etc. should be brought by the participants.• Waste material could be anything like tetra packs, bottles, newspapers, old utensils, jute material or any second hand items that otherwise would be thrown away.• The material would be rejected if not found to be a waste product or second hand item.• No ready or semi-finished model or matter would be accepted from participant in competition.• Participants will be judged on Creativity, Utilization of Resources, Artistic composition & design, Eco-friendly rating, Utility of the Product and Overall Presentation• No mobile or Internet means would be allowed to use at the time of Competition.• The decision of the judges will be considered final and abiding
29	Pitcher Painting/ Decoration	<ul style="list-style-type: none">• Team should be of two members• Standard size Pitcher (clay pot) is to be used• Decoration can be done with any item like, colors, glitters, threads, mirrors, beads, buttons, etc.• Decision of judges will be final
30	Stone Painting	<ul style="list-style-type: none">• Team has 1 member only• Size of stone 7-8 inches• Decoration can be done with any item like, colors, glitters, threads, mirrors, beads, buttons, etc.• Decision of judges will be final
31	eSports Competition	<ul style="list-style-type: none">• Participants must provide their own equipment, including Mobile Phones, Internet and Headset/ earphones• I-pads are not allowed for this event.
32	Rangoli	<ul style="list-style-type: none">• Only two team from each college is allowed.• Maximum two participant per team.• Time allowed 2 hours.• Dimensions 2.5 ft X 2.5 ft maximum and minimum 2ft X 2ft.• Bring your own eco-friendly materials .

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	<ul style="list-style-type: none">• Utensils or other reference materials not allowed.• Don't use toxic colors or toxic materials.• Bring your own scales for measurement.• Theme will be announced on the spot.
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