



Khalsa College of Engineering & Technology

ਖਾਲਸਾ ਕਾਲਜ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ

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RULES FOR TECH URJA 2K26

Rules for Paper Presentation

- A team should have a minimum of 2 and a maximum of 3 participants.
- The duration of the presentation should be between 4 and 6 minutes.
- The number of 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:

- Robotics & Automation
- Automatic Innovations
- Neural Network
- Artificial Intelligence
- Generative AI
- Explainable deep learning models for high-risk decision-making.
- ECG & ECHO
- Introduction to Histotechnology & Its Core Techniques.
- AI for Climate Change Prediction

Topics of UrjaXPO (Project Display)

Paramedical

- Brain Computer Interface
- Deep-fake detection software
- Radiological Clinical Positioning



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S. No.	Name of Event	Rules
1	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 300 mm long and have an overall width of at least 100 mm.• 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.• The 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 sticks, gum, and construction paper.
2	Solid PRO Test	<ul style="list-style-type: none">• Maximum one participant per college is allowed.• The topic will be announced on the spot.
3	Object Scaling Drawing	<ul style="list-style-type: none">• Maximum one participant per college is allowed.• A problem to test the logic will be given on the spot.• Participants must bring their own required items
4	CATAPULT	<ul style="list-style-type: none">• 2 members make a team.• Items used: Popsicle sticks, gum, construction paper, cardboard, and any waste material.• Total time allotted for the event is 60 minutes after 2 hours of making CATAPULT.• Testing will be done by calculating the distance of the object through it.
5	AUTOCAD 2D PLAN	<ul style="list-style-type: none">• A drawing will be given to participants, & they will have to draw it in AUTOCAD.• The drawing should be made with proper dimensioning.• Any discrepancy leads to the disqualification of the 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.• The shortlisted candidate will appear in round 2.• The same rules must be followed in round 2

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6	SURVEY HUNT	<ul style="list-style-type: none">• A team shall be of 3 members only.• In the first round, a screening test shall be conducted, and the top 4 teams will be selected for the second round based on the accuracy of the work.• Time allotted for the task is 1 hour.
	Tech Whiz	<ul style="list-style-type: none">• One participant per team is allowed.• Logos and computer parts will be shown on the spot.• A total of 2 wrong answers out of 5 will result in disqualification.
7	Logic X (Programming in C & C++)	<ul style="list-style-type: none">• A maximum of two participants per team is allowed.• A problem to test the logic will be given on the spot.• C/C++ language will be used to solve the given problem• Judgment of this event will be based on solution strategy and time consumption used to solve the problem, correctness, and completeness of the program.
9	Logic Gates	<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
10	Short Movie (6-8 Minutes)	<ul style="list-style-type: none">• Max. 8 teams• 10 students in each team• The movie should be on the topic given.• The title of the movie is "Visa Lag Gaya" and you must create a movie on this topic.• No abusiveness or vulgarity will be allowed; otherwise, they will be disqualified.• The movie will be submitted to the coordinators on the said date.• The short movie must be submitted by 7th April.• We will add you to a WhatsApp group after registration, in which you will have to submit a short movie.



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11.	On the Spot Poster Making	<ul style="list-style-type: none">● The theme for the poster should be related to AI, marketing & business.● 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 a black pen/marker.● A poster can be made using pencil, crayon, watercolor, oil paint, etc.● Photographs, wires, other 3D objects, and printouts won't be acceptable. It should be original and hand-made.● The topic of the poster and the theme should be clearly mentioned at the top margin of the poster.● The decision of the judges will be final
12.	Calligraphy	<ul style="list-style-type: none">● Only cursive calligraphy is allowed. Mixing print and cursive styles is not permitted.● Writing must be done using blue or black ink only.● Participants must use the paper provided by the organizers.● The content/theme given by the organizers must be strictly followed.● Thin upstrokes and thick downstrokes should be clearly visible.● Letters must follow a straight baseline with a consistent slant.● Uniform spacing should be maintained between letters, words, and lines.● Capital letters must be neat and proportional to lowercase letters.● Minimal flourishes are allowed; excessive decoration will lead to marks deduction.● Overwriting, erasing, cutting, or using correction fluid is not allowed.● The sheet must be clean and free from ink spills or smudges.● Participants must complete the work within the allotted time.● The judges' decision will be final and binding.
13	Code Sprint (coding Challenge in JAVA & Python)	<ul style="list-style-type: none">● Max 2 Participants● A problem to test logic will be given on the spot.● No built-ins to be used● Use of Internet is strictly prohibited
14	Bug Hunters (Debugging Contest)	<ul style="list-style-type: none">● Only 1 Participant is allowed● Use of Internet is strictly prohibited● Pre-written code will be given● Only error correction is allowed



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15	Mapping Semester-Based Learning CSE Model	<ul style="list-style-type: none">● Max 2 Participants● Group subjects by core computing concepts such as data computation, systems, intelligence, and security.
16	Circuit Design Challenge	<ul style="list-style-type: none">● Participants design simple PCBs (e.g., LED flashers).● Judged on design time, optimization, and creativity.● LED Blink Challenge Task: Make an LED blink using given components.● Skills: Basic electronics● Time: 5–10 minutes● Twist: Blink in a given pattern (slow–fast–slow)● Each team will consist of two members.
17	E-puzzle	<ul style="list-style-type: none">● Answer as many basic ECE questions as possible in 60 seconds.● Only 1 participant in a team is allowed.
18	Robo War	<ul style="list-style-type: none">● Students design the robot and try to push it out from the marked area.● Each team will consist of two members.
19	Towel Art	<ul style="list-style-type: none">● Entry per institution will be one.● A team of 2 students can participate at a time.● The 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.
20	No Flame Cooking	<ul style="list-style-type: none">● Entry per institution will be one.● A team of 2 students can participate at a time.● The time duration for this event is 30 mins.● Ingredients should be brought by participants themselves.● Mobile phones are not allowed.● Event judges' decisions will be final and binding.● Preparation should be done in front of the judges.



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21	Preparation of Mocktails	<ul style="list-style-type: none">• Entry per institution will be one.• Each team will consist of 2 members.• The 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.
22	Rangoli	<ul style="list-style-type: none">• One Participant per team is allowed.• Size: 2'x2' to 4'x4' (5% permissible variation)• Only one medium may be used: poster colors, flower petals, sawdust, pulses, or rice (without pasting).• The art form may be freehand, pictorial, or descriptive (e.g., mandna, alpna, alekhan, Kollam, and Rangoli).• Participants must prepare the Rangoli within the space provided by the organizers.• Topic/theme will be given on the spot by the judges.• Accessories (e.g., sieve, spoon, scale) are allowed.
23	Mehndi	<ul style="list-style-type: none">• The event will be conducted on a subject/idea given on the spot.• Additional instructions will be announced on the spot.• Participants must bring their own materials; only traditional Indian motifs are allowed (no Arabian Mehndi or glitter).• Credit will be given for originality, creativity, and aesthetic sense.• No handprints, molds, or decorative materials are permitted.• Mehndi must extend to the palmar side of the forearm (minimum 6 inches).
24	Best out of waste	<ul style="list-style-type: none">• Only waste or discarded materials must be used; new decorative items are not allowed.• The item must be made on the spot within the given time limit; pre-made items are prohibited.• Two members per team is allowed.• Creativity and originality are mandatory; copied designs may lead to disqualification.• Use of hazardous or unsafe materials is strictly prohibited.• The judges' decision will be final and binding.



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25	Solo Singing	<ul style="list-style-type: none">• Time for Stage/Instrument Setting: Up to 1 minute• A minimum of 3 minutes and a maximum of 4 minutes will be given to each participant.• Maximum accompanists: 02• Instrumental Music Is allowed for support.• Professional accompanists must sit/stand separately, not lead, and wear different attire from participants.• Language: English, Hindi, or Punjabi• Judgment based on singing quality, composition, rhythm, coordination, and general impression.
26	Duet/Group Singing	<ul style="list-style-type: none">• Time for Stage/Instrument Setting: Up to 1 minute• A minimum of 3 minutes and a maximum of 5 minutes will be given to each participant.• Maximum accompanists: 02• Instrumental Music Is allowed for support.• Professional accompanists must sit/stand separately, not lead, and wear different attire from participants.• Language: English, Hindi, or Punjabi• Judgment based on singing quality, composition, rhythm, coordination, and general impression.

27	Solo Dance (Boys & Girls)	<ul style="list-style-type: none">• Time for Stage/Instrument Setting: Up to 2 minutes• A minimum of 3 minutes and a maximum of 5 minutes will be given to each participant.• Time starts with the first beat of the music.• Acrobatic actions are not allowed; double/triple standing is permitted.• Participants must remove their sets and properties immediately after the performance.• Judgment based on rhythm, formation, expression, costumes, makeup, overall effect, symmetry, composition, and general impression (e.g., grace and expressions)
28	Duet/Group Dance (Boys & Girls)	<ul style="list-style-type: none">• Time for Stage/Instrument Setting: Up to 2 minutes• A minimum of 4 minutes and a maximum of 6 minutes will be given to each participant.• Time starts with the first beat of the music.• Acrobatic actions are not allowed; double/triple standing is permitted.• Teams must remove their sets and properties immediately after the performance.• Judgment based on rhythm, formation, expression, costumes, makeup, overall effect, symmetry, composition, and general impression (e.g., grace and expressions)



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29	DSLR Photography	<ul style="list-style-type: none"> The team has a maximum of one participant The student who clicks the BEST 10 photographs of the coverage of the tech fest will be the winner. 																
29	eSports Competition	<ul style="list-style-type: none"> Cheating, hacks, emulators, stream sniping, or teaming = instant disqualification. Only mobile devices allowed—no PC/emulators; bring your own charged phone + ID proof. Abusive chat, harassment, or damaging any setup = penalty or disqualification. Arrive on time for room joining & setup; late teams forfeit the match. <p>BGMI - Rules</p> <p>1. General Rules</p> <ul style="list-style-type: none"> Each team must consist of 4 players (squad). Players must use their own mobile devices (phones only). An internet/data connection is the responsibility of the players. Players must join the custom room lobby on time. Late entries will not be allowed. <p>2. Match Format</p> <ul style="list-style-type: none"> Mode: Squad (TPP) Maps: Erangel + Miramar (Mandatory) Total Rounds: 3 (2 Matches – Erangel, 1 Match – Miramar) The final ranking will be based on total kills + placement points. <p>3. Scoring System</p> <table border="1" data-bbox="406 1429 933 1982"> <thead> <tr> <th>Placement</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>10</td> </tr> <tr> <td>2nd</td> <td>6</td> </tr> <tr> <td>3rd</td> <td>5</td> </tr> <tr> <td>4th</td> <td>4</td> </tr> <tr> <td>5th – 6th</td> <td>3</td> </tr> <tr> <td>7th – 8th</td> <td>2</td> </tr> <tr> <td>9th – 10th</td> <td>1</td> </tr> </tbody> </table>	Placement	Points	1st	10	2nd	6	3rd	5	4th	4	5th – 6th	3	7th – 8th	2	9th – 10th	1
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2nd	6																	
3rd	5																	
4th	4																	
5th – 6th	3																	
7th – 8th	2																	
9th – 10th	1																	



	<p>Per Kill 1</p> <p>4. Fair Play Rules</p> <ul style="list-style-type: none">● No cheating, hacking, or third-party applications allowed (immediate disqualification).● No teaming with other squads outside your own team.● No abusive language in the lobby or in-game chat. <p>5. Technical / Disconnection Rules</p> <ul style="list-style-type: none">● If a player disconnects during the match, the game will continue.● No rematch will be provided due to device, network, or power issues. <p>6. Additional Tournament Rules</p> <ul style="list-style-type: none">● Tie-Breaker: If two teams have the same total points, the team with more total kills will rank higher.● Teams may be asked to submit match result screenshots if required by the organizers.● Players must follow all instructions given by the tournament officials during the event.● The decision of the tournament organizers will be final in case of any dispute. <p>7. Prizes & Recognition</p> <ul style="list-style-type: none">● Winner Team: Cash Prize● MVP (Most Kills Overall): Cash Prize <p style="text-align: center;">Free Fire Max - Rules</p> <p>1. General Rules</p> <ul style="list-style-type: none">● Each team must consist of 4 players (squad).● Minimum player level requirement: 30+.● Players must have played at least 30 matches in the current BR season.● Players must use their own mobile devices (phones only).● An internet/data connection is the responsibility of the players.● Players must join the custom room lobby on time. Late entries will not be allowed. <p>2. Match Format</p> <ul style="list-style-type: none">● Mode: Squad (Battle Royale).● Maps: Bermuda, Kalahari, Purgatory, Nexterra.● Total Rounds: 4 (One match on each map).
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- The final ranking will be based on total kills + placement points.

3. Scoring System

Placement	Points
1st	10
2nd	6
3rd	5
4th	4
5th – 6th	3
7th	2
Per Kill	1

4. Fair Play Rules

- No cheating, hacking, or third-party applications allowed (immediate disqualification).
- No teaming with other squads outside your own team.
- No abusive language in the lobby or in-game chat.
- Gun skins must be turned OFF.

5. Technical / Equipment Rules

- Participants must bring their own equipment, including a mobile phone, internet access, and headset/earphones.
- Charging boards will not be provided, so keep your device fully charged before matches.
- Recording of gameplay must be saved.
- All maps must be completely downloaded before the event starts.

6. Additional Tournament Rules

- After completion of each match, screenshot submission is compulsory.
- All squad members must be present during the match.
- If two teams have the same total points, the team with more total kills will rank higher.
- The decision of the tournament organizers will be final in case of any dispute.



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30	UrjaXPO	<ul style="list-style-type: none">• Every team has a maximum of 4 members.• The project should be related to science & technology based on either hardware or software.• The project must be working or be a demo model.• Copied projects from the internet without modification are not allowed.• Each team will bring their own poster prepared for the project idea.• Set-up time will be given to you before the exhibition starts.• Every team member must have ID proof.• Any damage to other projects will lead to disqualification.
31	Tech Reels	<ul style="list-style-type: none">• Team has maximum two participants.• Theme/ Topic will be given on the spot• Time allowed 60 mins• Duration of each reel should be 45–60 seconds.• No abusiveness, vulgarity or copyrighted material; otherwise, disqualification.• Judgment will be based on creativity, content relevance, editing quality, engagement and technical aspects.• The decision of the Judges will be final and binding.
32	QuizPedia	<ul style="list-style-type: none">• Each team shall have three members only.• The quiz will be conducted in two rounds. <p>a) Screening Round :</p> <ul style="list-style-type: none">• 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.• The 4 teams selected will be from different college/institute. <p>b) Final Rounds: Final Round will consist of following sections</p> <ul style="list-style-type: none">• i) First timers• ii) Subject Round• iii) Rapid fire round (Each team has to answer max. questions in 30 seconds.)• 10 marks for right answer and -5 for wrong answer.• The extra question will be asked in case there is tie between the teams.



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		<ul style="list-style-type: none">● NOTE: if a college/institute has more than one team in the top 4, the The team having the top ranking will be selected for the final round.
33	One Minute JAM	<ul style="list-style-type: none">● The number of participants is one.● An on-the-spot topic will be given.● Each participant will be given one minute to speak on a topic.● Participants will be disqualified after exceeding the time limit.● A participant has to speak for exactly one minute on the given topic without hesitation, repetition, or deviation.● Judgment will be based on fluency, content, confidence, vocabulary, and time management.● The decision of the judges will be final.
34	Youth Parliament	<ul style="list-style-type: none">● Pacifism Vs. Realism : The idea that all war is wrong versus the need to fight for the rights of a country. Is war justified?● The number of participants per team is 1.● A motion or bill will be given prior to the event.● Participants will be assigned specific roles (speaker, ministers, opposition, etc.).● Time limits for each speaker will be announced on the spot.● Proper parliamentary etiquette, language, and decorum must be maintained.● Judgment based on knowledge of the subject, oratory skills, logical arguments, body language, and adherence to rules.● Use of abusive language will lead to disqualification.● The decision of the judges will be final and binding.
35	Ad-Mad Show	<ul style="list-style-type: none">● Each team should have 4-6 members only.● The theme for the show will be imaginary product which is yet to be Launched.● The 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.● Caution should be taken to refrain from displaying obscenity, violence, prejudice, defamation, etc. in advertisements.● Decisions of the judges will be final and binding.



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36	Treasure Hunt	<ul style="list-style-type: none">• A team shall be of 3–4 members only.• Clues will be provided sequentially (tech-themed or related to the fest/college).• Total time allotted for the hunt will be announced at the beginning (approximately 60–90 minutes).• First team to solve all clues and reach the final destination will be the winner.• Use of unfair means, damaging property or misbehaviour will lead to disqualification.• Participants must follow all instructions of the coordinators strictly.• The decision of the organizers/judges will be final and binding.
37	OPTO (color blindness testup model)	<ul style="list-style-type: none">• An apron & ID cards are a must.• Max. 5 members in one team.• Proper Explanation Should be within the time limit• Equipment will be provided on the spot.
38	Vital Monitoring	<ul style="list-style-type: none">• An apron & ID cards are a must.• Max. 5 members in one team.• Proper Explanation Should be within the time limit• Equipment will be provided on the spot.
39	Cardiac Monitor	<ul style="list-style-type: none">• An apron & ID cards are a must.• Max. 5 members in one team.• Proper Explanation Should be within the time limit• Equipment will be provided on the spot.
40	Hb Estimation & Introduction to different types of anemia	<ul style="list-style-type: none">• An apron & ID cards are a must.• Max. 5 in one team.• Proper Explanation Should be within the time limit• Equipment will be provided on the spot.



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