

# **RULES & REGULATIONS**

## **SPECTRUM-2K24**

### **CODEMIND CLASH**

#### **1: Qualification Round**

Participants will have to debug the given code and remove all the syntax and semantic errors from the code. (Java, C, C++, Python)

#### **2: Final Round- Problem solving Round**

A: New Problem statement will be given to shortlisted participant.

B: One Hour is given to solve statement.

C: Solution must have to pass in all test cases.

#### **Rules: -**

1: Any candidate if not able to present at the contest at given time will not be allowed and entry fee will not refunded.

2: Decision made by our judge will be last and final

3: No book refers or any other materials will be allowed for any round.

4: Also any mobile or electronic device will not be allowed

5: All right will be reserved for organizing committee.

# **UI/UX COMPETITION**

## **1: Qualified Round**

A: Aptitude test will be taken for qualified round

## **2: Designing**

A: Problem statement will be given on paper on the spot

B: 1 hour 30 minutes time are given for each participant

C: Participant can use any Technology for UI Designing

(Note- Depending on Technology Evaluation will be done)

## **Rules:-**

- 1: Any candidate if not able to present at the contest at given time will not be allowed and entry fee will not refunded.
- 2: Decision made by our judge will be last and final
- 3: No book refers or any other materials will be allowed for any round.
- 4: Also any mobile or electronic device will not be allowed
- 5: All right will be reserved for organizing committee.

# **ANDROID WAR**

## **1: Qualified Round**

A: Aptitude test will be taken for qualified round

## **2: Designing**

A: Problem statement will be given on paper on the spot

B: 2 hours' time are given for each participant

C: Participant has to develop Android app within time.

## **Rules:-**

- 1: Any candidate if not able to present at the contest at given time will not be allowed and entry fee will not refunded.
- 2: Decision made by our judge will be last and final
- 3: No book refers or any other materials will be allowed for any round.
- 4: Also any mobile or electronic device will not be allowed
- 5: All right will be reserved for organizing committee.

# **PRODUCT IDEA PRESENTATION**

## **Rules & Regulations:**

- Participant can choose topic on agriculture, healthcare, Educational, Sustainable Technology.
- Participants can compete individually or in teams of up to 2 members.
- Each team must prepare a presentation (PowerPoint, Google Slides, etc.) detailing their product idea.
- The presentation should include an introduction, problem statement, proposed solution, target market, technical details, implementation plan, and potential challenges.
- Each team will have a maximum of 15 minutes to present their idea, followed by a 5-minute Q&A session with the judges.
- Time limits will be strictly enforced.

# **CAD WAR**

1. Time duration for first round will be 15 minutes and time duration for second and third round will be 25 minutes.
2. Participants have to draw the assigned design within less time as possible.
3. Dimensions, accuracy and timely completion of the component are the major factors for marking scheme.
4. Marking scheme is out of 25 marks.
5. AutoCAD 10/12 will be used for the practice.
6. Final decision will be taken by authority.

## **FOUR WHEELER SOAP MODELING**

1. Time duration for soap model of four Wheeler making will be 60 Min.
2. The soap & cutter will be provided at the time of event.
3. Participant has to create model on the given theme.
4. The theme will be given at the time of competition.
5. Only one participant will be allowed per entry.
6. Decision of judge will final.

# **MECH ART**

Competitions under MechArt:

- A. Logo design
- B. Animations of various Mechanisms
- C. Working Model Prototype
- D. Simulation of mechanism.

General Guidelines:

1. Eligibility:
  - Open to students in the field of engineering.
  - Participants may enter individually or as part of a team (maximum of 2 members).
2. Competition Requirements:
  - It should reflect the essence of mechanical engineering, including elements such as gears, machinery, tools, innovation, etc.
  - It must be original and not infringe on any existing copyrights or trademarks.
  - For working model material such as (Wood, Plastic, and Thermocol etc.) can be used.
  - Format: logo submission in JPEG, PNG, Animation or vector format (AI, EPS)
  - Resolution: Minimum of 300 dpi.
  - Dimensions: Must be scalable and look good in various sizes (e.g., 100x100 pixels, 1000x1000 pixels).
  - Color: Provide both color and black-and-white versions.
3. How to Submit:
  - Entries should be submitted via [specific platform or email address].
  - Include a brief description (maximum 150 words) explaining the design and its relevance to mechanical engineering.

These guidelines ensure clarity, fairness, and professionalism in the competition, fostering a creative environment for participants to showcase their skills in logo design within the mechanical engineering context.

# **LATHE WAR**

1. Maximum two students in a team.
2. Entry fee per student Rs 100.(Group of Two Students Rs.200)
3. Raw material provided by college.
4. Tool, Apron and shoes have to bring by participants itself.
5. Marks are given for surface finish and dimensional inspection.
6. Time constraints for completion of job.
7. Decision of judge will be final.



# **INNOVATION IN ELECTRICAL ENGINEERING**

1. Event is open for innovative ideas related to Electrical & Electronics domain.
2. Single participant entry is allowed for competition.
3. Group entry is allowed, maximum participant in a group only two.
4. All participants should bring their college I card & College Uniform.
5. Replacement / Cancelling after registration are not allowed.
6. Those who will attend through the online mode;  
Google Meet joining info: - <https://meet.google.com/rkp-psrs-zkm>
7. Time duration for presentation of Idea will be 10 Min.  
(5-7 Min. for Presentation & 2-3 Min. for Questions-Answer session.)
8. Innovative Idea will be presented with help of PPT. (**Maximum 15 Slides**)
9. Questions-Answer session will be in English only.
10. Audience/ judges shall not give any clue or suggestions.
11. Books, Notes, or any other material is not allowed.
12. Participants must present ideas within less time as possible.

**Note:** - 1) *Entry Fees: - Rs.50/-per Participant.*  
2) *Decision taken by judges will be final.*  
3) *Certificates will be given to each participant.*  
4) *Send yours PPT on Mail ID: [nagnath.khandekar@sknscoe.ac.in](mailto:nagnath.khandekar@sknscoe.ac.in)*

# **ELECTRICAL PUZZLE**

1. Event is open for all Electrical Engineering/Diploma students.
2. All participants should bring their college I card.
3. Replacement / cancelling after registration are not allowed.
4. Questions will be in English only.
5. Audience shall not give any clue or suggestions.
6. Books, Notes, or any other material is not allowed.
7. Total two rounds will be conducted and first round will be elimination round.
8. Time duration for first round will be 25 minutes and time duration for second round will be 10 minutes.
9. Participants must get answers within less time as possible.

## **Round I: Basic Technical Puzzle Type Questions**

Total questions are 25 related to Electrical & Electronic field.

Marking scheme is out of 25 Marks. (25Q=25Min=25M)

## **Round II: Identification of Scientist Picture in Electrical Field**

Total questions are 10

Marking scheme is out of 10 Marks. (10Q=10Min=10M)

Decision taken by judges will be final.

Certificates will be given to each participant.

# **CIRCUIT MASTERS**

## **RULES AND REGULATIONS**

- Event is open for all Electrical and Electronic Engineering/Diploma students.
- All participants should bring their college I card.
- Total three rounds will be conducted and first round will be elimination round.
- Books, Notes or any other material is not allowed
- Mobile phone is not allowed.
- Maximum two students per Group.

### **Round I: Technical HUNT Test**

- (No of Questions : 30 Time allotted : 30 min)
- For students (MCQ PAPER -Questions based on Basic Electronics & Basic Electrical Engineering).
- Group Members must have qualified marks ,otherwise **single participant** will consider for next round

### **Round II: Circuit Designing**

- You will get question or design sheet on registration desk.
- You need to design the circuit in your question sheet in less time.
- You have to submit that back within specified time limit.
- All the components& materials will be given by coordinators
- Power supply & measuring devices will be shared in common.

### **Round III: Circuit Designing (QUESTION /ANSWER) -**

- Oral questioning by judge after designing circuit
- Decision taken by judges will be final.

# ELECTRICAL CAD WAR

## **RULES AND REGULATIONS**

- Event is open for all Electrical and Electronic Engineering/Diploma students.
- All participants should bring their college I card.
- Total two rounds will be conducted and first round will be elimination round.
- Books, Notes or any other material is not allowed
- Mobile phone is not allowed.
- Maximum two students per Group.

## **Round I: Technical Test**

- (No of Questions : 30 Time allotted : 30 min)
- For students (MCQ PAPER -Questions based on Basic Electronics & Basic Electrical Engineering).
- Group Members must have qualified marks ,otherwise **single participant** will consider for next round

## **Round II: Circuit Designing**

- You will get question or design sheet on registration desk.
- You need to design the circuit in your question sheet in less time.
- You have to submit that back within specified time limit.
- All the components& materials will be given by coordinators

# **CIRCUIT SUDOKU**

1. Event is open for all engineering students.
2. Maximum two students per group.
3. All participants should bring their college I-Card.
4. Total two rounds will be conducted and first round will be elimination round.

## **Round 1: Aptitude Test**

(No. of Questions: 30 Time allotted: 30 min.)

-For students (Questions Aptitude based)

## **Round 2: Technical Hunt**

(No. of Questions: 30 Time allotted: 30 min.)

-For students (Questions based on Basic Electronics)

## **Round 3: Circuit Designing**

- You will be given question or design sheet on registration desk.
  - You need to design the circuit in your question sheet in less time.
  - You have to submit that back within specified time limit.
  - All the components & materials will be given by coordinators.
  - Power supply & measuring devices will be shared in common.
5. Decision taken by judges will be final.

# **MICROCODE PRO**

1. Event is open for all engineering students.
2. Single participant entry is allowed for competition. No group entry is allowed.
3. All participants should require their identity proof.
4. Students can use 8051/PIC microcontroller for event programming.
5. Student will give aim of program and complete program execution within 90 minutes.
6. Student can write program in Assembly OR Embedded C Language in any microcontroller software.
7. Decision taken by judges will be final.
8. Entry fees of Rs.50.
9. Certificates will be given to each students.

# **CIRCUIT CRAFT**

1. Entry Should be individual.
2. Entry fee Rs. 50/-
3. Time limit 15 Min. (5 Min. for adding component and 10min. for circuit building)
4. All right will be reserved for organizing committee.
5. Participation Certificates will be provided.

# **ELECTRADESIGN**

1. Time required for design is 12 Minutes.
2. All the required things must be selected in 4 minutes.
3. Remaining 8 minutes utilize for circuit design.
4. Final decisions will be towards organizing members.
5. Fees for the event is Rs.30 per participate.
6. Entry Should be Individual.
7. Participation Certificates will be provided.



# **FLOAT A BOAT**

1. Participants have to build a floating element (boat) of any shape by using materials like ice cream sticks, cardboard, thermocol, foam, wood, threads, and glue and build a boat that can sustain the maximum weight in the water tank.
2. Length to width ratio should be greater than or equal to 2.25. ( $L/W \geq 2.25$ ), subjected to maximum length of 30 cm. The total depth of boat including railings should not exceed 15 cm.
3. The thickness of the material or of any part of boat like base, deck, railing, etc. should not exceed 7mm.
4. The empty boat should stay in water without damage for maximum 45 seconds before weights are placed on boat.
5. The team which have minimum value of the ratio of self-weight of boat to maximum weight carried by boat i.e. (SELF WEIGHT/WEIGHT CARRIED) will be winner. The weight at which the base of the boat just starts sinking would be taken as maximum weight carried.
6. In case of tie final decision will be taken by comparing dimensions of boat.
7. In case of further disputes the decision of organizing committee be final.
8. Each team will have maximum 2 members.

# **CAD WAR**

1. Time duration for first round will be 15 minutes and time duration for second and third round will be 25 minutes.
2. Participants have to draw the assigned design within less time as possible.
3. Dimensions, accuracy and timely completion of the component are the major factors for marking scheme.
4. Marking scheme is out of 25 marks.
5. AutoCAD 10/12 will be used for the practice.
6. Final decision will be taken by authority.

# **TRUSSO (MODEL MAKING)**

## T-SECTION MAKING

Model specification –

- Height of web should be 45cm included flange. (+/-5mm).
- Length of flange should be 60 cm.(+/-5mm).
- Base area of web should be  $100\text{cm}^2(+/-5\text{mm}^2)$  & flange area should be  $100\text{cm}^2(+/-5\text{mm}^2)$  (Structure should be square)
- Weight is applying simultaneously both sides of flange of T-section.
- Entry fees : Rs.50/- per team (max. 2 participant)
- Winner should be decided on the basis of the ratio of weight carried by model to the self weight of model.
- Team size: Max 2 participants per team.

# **SURVEY HUNT**

## **STRUCTURE (ABOUT THE EVENT):**

- Round 1: Multiple Choice Questions. (Basic aptitude & Surveying).
- Round 2: Finding the reduced level & distance of different point on the ground with respect to some assumed benchmark & labelling of components of the dumpy level.
- Round 3: Surprise event (event details will be conveyed on the spot).

## **RULES:**

- The decision of the judges and event heads shall be considered final and binding to all. Any participants found misbehaving will be immediately disqualified.
- All the instruments provided should be handled carefully.
- In case of a tie in second round, the time required for completing the task and marks of the first round will be considered as the criteria for the selection to the third round.
- Participants should be present 30 minutes prior to the commencement of event. Late teams may be disqualified.
- Participants must bring a valid college ID and the registration receipt with them on the day of the event.
- Rules may be changed without prior intimation.
- Team size: Max 2 participants per team.