



GOA COLLEGE OF ENGINEERING

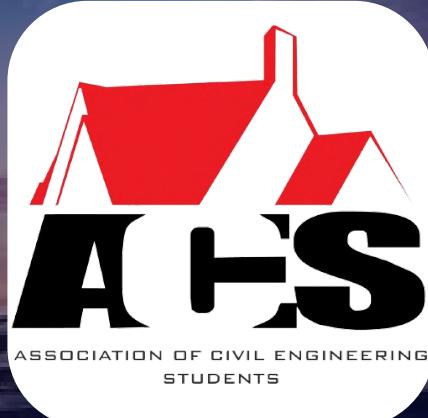
Students council 2023-2024

Presents

Spectrum
024

3rd and 4th April 2024

— In association with —



ABOUT

The students under the guidance of the faculty are bringing back GEC's technical festival after 6 long years to celebrate the spirit of technology.

After the very successful 3 editions 2014, 2016 and 2018, we are very happy to announce

“SPECTRUM-2024” national level technical festival. We hope to stoke the flames of curiosity in the minds of students by providing them a platform to showcase and test their skills in the various technical competitions and also to bring them face to face with the latest technical trends by organising various workshops and lectures during the event.

GENERAL RULES

Eligibility

The event is open to students pursuing any Higher Secondary Course, Bachelors and Masters Degree from recognized universities across India.

Event Duration

Spectrum 2024 will be a 2-day event held on 3rd -4th April

Accommodation

Out-of-state participants will be provided with complimentary accommodation (if applied for during registrations) for the duration of the event. Specific details regarding check-in, check-out timings, and room allocation will be communicated to registered participants.

Registration

Online registration will open on 18th March 2024 and close on 1st April 2024. Accommodation registration will close on 25th March 2024. A registration fee will be charged per participant subjective to events. Participants are required to submit a soft copy of their student ID card during registration and carry it at all times during their event.

Disclaimer

The organizers shall not be held liable for any loss, damage, or injury sustained by participants during the event.

GENERAL RULES

Amendments

The organizers reserve the right to amend these rules and regulations with prior notice to the participants.

Code of Conduct

All participants are expected to maintain a professional and respectful demeanor throughout the event. Any form of discrimination, harassment, or bullying will not be tolerated. Damaging college property or disrupting the event proceedings will lead to disqualification and potential legal action.

PLANETS

(CATEGORIES)



TECHNIX



TORQUE



RESONANCE



TECHFLUENCE



PRATIKRIYA



SPARX



TECHNIX

COMPUTER ENGINEERING DEPARTMENT





SPECTRATHON

(HACKATHON)



Prize Pool: Rs. 50,000



General Rules

- A team should have a minimum of 2 and a maximum of 4 members.
- Event Duration will be 24 hours.
- Teams need to report at the venue latest by 10:00 AM on 3rd April 2024 for the final Round of Hackathon.
- Each participant must sign a declaration that will be sent to the participants through the Mail and ensure that they abide by all the rules.
- Registration, Screening round and Result Declaration will be conducted on Unstop.
- Food and coffee will be provided to the participants

[**Detailed Rules**](#)[**Register**](#)

Entry fee: Rs. 300 per team

Coordinator

Kaustubh Athalekar (+91 78753 59910)
Azvern Dias (+91 82620 82881)



SPECTRUMCTF

(CAPTURE THE FLAG)



Prize Pool: Rs. 25,000



General Rules

- The team size is from 1-3 members.
- The event duration will be 14 hours.
- The event will be offline.
- Attempting to attack the host system in any unintended way by the challenger will lead to disqualification.
- Participants will have to bring their own system

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 150 per team

Coordinator

Saiesh Khanolkar (+91 93259900664)

Rahul Kolwalkar (+91 9579007998)



COSMO CODE

(CODING IN CHAOS)



Prize Pool: Rs. 16,000



General Rules

- The team size is 2 members.
- The event will be offline.
- Any Attempt to cheat will lead to disqualification of the entire team.
- The allowed Languages are C/C++.

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 100 per team

Coordinator

Atharva Ayir (+91 7666234691)
Kasim Khan : (+91 9067299580)



SPECTRAQUEST

(CODE MAZE)



Prize Pool: Rs. 16,000



General Rules

- The team size is 3 members.
- The event will be offline.
- Knowledge of programming languages like C, C++, HTML/CSS/JS(Basics) are preferred.
- Any attempt to cheat will lead to disqualification of the entire team

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 150 per team

Coordinator

Saish Shirodkar (+91 9145532896)

Deeptej Dhauskar (+91 8767249490)

RESONANCE

ELECTRONIC AND TELECOMMUNICATION DEPARTMENT

RI

STAR SPEED

(ROBO RACE)



Prize Pool: Rs. 25,000



General Rules

- Timely arrival is mandatory for all teams. Failure to comply will result in elimination, with the option to rejoin upon payment of a designated fee
- A team can have a maximum of 4 members.
- One team member is elected as the robot handler.
- Only that team member is permitted to control the robot during the game.
- All other team members must remain outside the game zone. - Participants who misbehave may be asked to leave the competition area and risk being disqualified from the contest. - Robots or participants that cause deliberate interference with other robots or damage to the arena will be disqualified.
- Teams should completely respect their vote and decisions. “At any point judges’ decision is the final decision”

[**Detailed Rules**](#)[**Register**](#)

Entry fee: Rs. 330 per team

Coordinator

Aryan Naik (+91 76663 70194)

Prathamesh Naik(+91 8805606189)

Himanshu (+91 7887478456)

ASTROPATH

(LINE FOLLOWING ROBOT)



Prize Pool: Rs. 20,000



General Rules

- Competition and testing fields are made of the same materials.
- Robots must be registered before the competition, including technical inspection and marking with a number sticker.
- Technical inspection must be completed by the specified time.
- All questions and problems addressed by the referee.
- Final decisions regarding appeals made by the referee and/or organizers. Complaints must be reported promptly after the match.

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 330 per team

Coordinator

Rohan (+91 7020012634)

Omkar(+91 9146170366)

TECHFLUENCE

INFORMATION TECHNOLOGY DEPARTMENT

CELESTIAL CANVAS

UI / UX DESIGN COMPETITION



Prize Pool: Rs. 40,000



General Rules:

- Team Size: 1-2 participants per team.
- Nature of Competition: This is a design-based competition and does not require coding skills.
- Participant Equipment: Participants should bring their own system for designing.
- Allowed Software: Participants are allowed to use Figma, Adobe XD and Sketch for the competition..

Entry Fees: 250Rs

Coordinators:

Jonathan Dalton Rebello
+91 70578 00448

Akash Sanjeev
+91 84216 52843

[Detailed Rules](#)

[Register](#)

BINARY NEBULA

COMPETITIVE CODING



Prize Pool: Rs. 30,000



General Rules:

- Teams must adhere to the specified timelines and formats for each round.
- Any form of cheating or plagiarism will result in immediate disqualification.
- Participants must bring their identification cards for verification purposes.
- Electronic devices, except during authorized rounds, are strictly prohibited.
- Respect the invigilators and fellow participants throughout the competition.
- Decisions of the judges and organizing committee are final and binding.

Entry Fees: 150Rs

Coordinators:

Edgar Camelo
+91 93590 90587

Aniket Mandrekar
+91 91688 27960

[Detailed Rules](#)

[Register](#)

COSMIC INNOVATORS

SHARK TANK



Prize Pool: Rs. 16,000



General Rules:

- Team size: 1 - 3 members.
- Presentation time per team: 10 mins, Followed by QnA session.

Theme:

Any business idea related to technology.

Judging Criteria:

- Originality of Idea.
- Presentation skills.
- Product/Service Feasibility.
- Future scope.
- Market potential.

Entry Fees: 100Rs

Coordinators:

Samrudh Dhaimodkar
+91 77988 89355

Jovi D'silva
+91 84598 39467

[Detailed Rules](#)

[Register](#)

GALACTIC EXPEDITION

TECHNICAL TREASURE HUNT



Prize Pool: Rs. 16,000



General rules:

- Only 3 Participants per team are allowed.
- Teams are required to be physically present in the GEC campus.
- Each team should bring their own laptop with charger. Only one laptop allowed per team.
- The event will happen in IT department of the GEC campus. Some of the hints will be spread in the department so be ready to get up from your comfortable seats.
- Participants will be allowed to use online software and tools in the later stages of the Treasure Hunt. The coordinators will inform them when to do so.

Entry Fees: Rs.100

Coordinators:

Sreyash Tari
+91 76667 04344

Shantaksh Kamat
+91 98220 13498

[Detailed Rules](#)

[Register](#)



SparkX

ELECTRICAL AND ELECTRONICS DEPARTMENT

Nebulanaut

(RC BOAT CHALLENGE)



Prize Pool: Rs. 30,000



General Rules

- Students must carry a valid college student ID card which needs to be produced at the time of registration.
- A team may comprise of a maximum of 2 participants. Students from different institutions are permitted to form a team.
- Teams may obtain a time slot for practice before the first round of the game. The number of practice slots will be limited and will be given on a first come first serve basis. The team will be allowed to use the track only during their practice slot.
- Any requests for using the track at any other time will not be entertained.
- If any team is not ready at the specified time, they will be eliminated from the competition automatically.
- We will try and ensure that there is no interference between the two competing vehicles.
- Teams must bring their own accessories. No materials will be provided by the organizers.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 250 per team

Coordinator

Shubham Gaonkar (+91 7057237802)

Mangrish Mantri (+91 95453 68164)

AstroKicks

(ROBO SOCCER)



Prize Pool: Rs. 30,000



General rules

- Timely arrival is mandatory for all teams. Failure to comply will result in elimination, with the option to rejoin upon payment of a designated fee.
- A team can have a maximum of 4 members.
- One team member will be elected as the robot handler & only that team member is permitted to control the robot during the game.
- All the other team members must remain outside the game zone.
- The matches will be held in a knock-out format.
- Participants who misbehave will be asked to leave the competition area and risk being disqualified from the contest.
- Robots or participants that cause deliberate interference with other robots or damage the arena will be disqualified.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 300 per team

Coordinator

Lakshdeep Fatarpekar (+91 9373404780)
Nehal Sinari (+91 9689778470)

Electron Explorer

(Circuit Detective)



Prize Pool: Rs. 20,000



General rules

- A team may comprise of a maximum of 3 members.
- Participants should arrive and report to the registration desk 30 minutes prior to their scheduled event.
- The organizing committee holds the right to adjust the event timings with prior notice.
- The decision of the coordinators will be final and binding in the case of any tie breakers.
- Only the coordinators are authorized to address the participant's doubts.
- Scoresheets may be provided upon request by the team leader only after the round is over.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 150 per team

Coordinator

Pratham Kinjavadekar (+91 7719060385)
Swapnil Gawas (+91 9762233006)

TORQUE



MECHANICAL ENGINEERING DEPARTMENT



GALACTIC GRAND PRIX

(FPV Drone Race)



Prize Pool: Rs. 40,000



General Rules

- All Participants must bring their respective Gov Photo ID cards.
- There is no bound to the number of teams per college.
- All participants should be above 12 years.
- Teams must designate a Team Leader during the registration process on the designated platform (Website).
- All significant communications between DroneRace event organizers and registered teams will be conducted through their designated Team Representatives.
- Team Representatives must submit accurate and up-to-date contact details at the time of registration.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 400 per team

Coordinator

Atharv Parkhe (+91 8007609672)

Marlon Vaz (+91 77749 38363)

Ryan Pereira (+91 91680 25808)

CosmoClash

(Robo Sumo)



Prize Pool: Rs. 25,000



General Rules

- Each round consists of 2 halves. Each half of 1.5 min.
- The robots inside the ring should push each other of the ring and to score a point.
- Robot dimensions shouldn't exceed 350mm, 350mm, 300m and it's weight shouldn't exceed 5kg.
- If the robot falls outside the ring 4 points will be awarded. if both robots fall out, 2 points awarded to both teams.
- A team can have a maximum of 4 members.
- In case of damage, the team can claim their technical time of 2 mins which claimed only once in the whole round.

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 320 per team

Coordinator

Sahil Bandodkar (+91 9922246171)

Yashil Vasta (+91 9561890696)



Dream Team

(FIFA)



Prize Pool: Rs. 10,000



General Rules

- Participants must carry their valid and original College ID cards.
- If a player doesn't show up for his/her match at the given time, he/she will be disqualified from the game.
- Player will be solely responsible for any damage done to the console or any other college property.
- 1v1 format fifa with default Fifa23 teams. Games will be played on Playstation console and laptop using ps4 controllers.
- 4 minute half game with 2 minutes pre-game for team instructions.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 200 per team

Coordinator

Caleb Alvares (+91 7499497685)

Jayden Almeida (+91 8975374390)

AstroConstruct

(3D CAD Modelling)



Prize Pool: Rs. 5,000



General Rules

- The event will be held offline at CAD Lab.
- Participants have to build a 3D CAD model and must be prepared in SOLIDWORKS only. The model to be built will be given on spot.
- Time limit for the completion of the solid models will be 2 hours only. Exceeding the time limit will result in a reduction of points.
- Each participant will have to complete 2 designs up to the specifications required.
- The model will be checked for dimensional accuracy and finishing.
- The judging criteria and decision shall be final, and no argument will be entertained.

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Free

Coordinator

Vernon D'Sa (+91 7709180407)
Sahil Nayak (+91 8408810584)

SpectRum
o24

PRATIKRIYA

Civil Engineering Department



ASSOCIATION OF CIVIL ENGINEERING STUDENTS

Astro Design

(AutoCAD Design Challenge)



Prize Pool: Rs. 15,000



GENERAL RULES

- 2 participants per team.
- Max 2 teams allowed from the same institute.
- Condition for FAR coverage , plot area, building specification etc will be given on spot.
- The design/plan topic will be allowed on spot
- Project must be student work
- A complete drawing is required
- No external devices can be attached to the system
- No paper plan or blueprint allowed

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 350 per team

Coordinator

Judith Fernandes (+91 7972677796)
Meghasyam Dessai (+91 7218439055)

StellarQuest

(Treasure Hunt)



Prize Pool: Rs. 15,000



GENERAL RULES

- 2 participants per team.
- Max 2 teams allowed from the same institute.
- Clues will be exclusively civil related
- colluding with other teams will lead to disqualification
- other rules will be explained on spot
- no electronic gadgets including smart watches shall be allowed

[**Detailed Rules**](#)

[**Register**](#)

Entry fee: Rs. 350 per team

Coordinator

Fausto Gama (+91 9404452779)

Glenn Vaz (+91 9405662585)

Lynn Rodrigues (+91 8830957140)

StarStructure

(Truss Building)



Prize Pool: Rs. 8,000



GENERAL RULES

- 2 participants per team.
- Max 2 teams allowed from the same institute.
- Proper truss building is necessary
- Length of truss should not be less than 30cm
- Max no of sticks - 50
- points will deducted if no. of sticks at join exceed 4
- materials will be provided

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 250 per team

Coordinator

Anisha Naik Shirodkar (+91 8010358004)
Arsh Vora (+91 9423319391)

Lunar Art

(Concrete Cube Painting)



Prize Pool: Rs. 8,000



GENERAL RULES

- Concrete cube will be provided
- Dimensions (15cm X 15cm x 15cm)
- participants are not allowed to carve or use sticker on cube.
- colours will not be provided
- use of phones or other references are not allowed
- 5 sides of cube must be painted

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 250 per team

Coordinator

Vidhi Shet (+91 9975404883)

Tejas Dessai (+91 8237252696)

Brain Bridge

(Technical Quiz)



Prize Pool: Rs. 8,000



GENERAL RULES

- Team should consist of 2 participants.
- The event shall consists of total three rounds within which:
 - Round 1 : Preliminary test (Written Test)
Participants shall answer in their respective team
Best 5 shall make it to the next rounds
 - Round 2 : Toss up round
Team vs Team
 - Round 3 : Final Round
Rapid fire questions shall be included
- No electronic gadgets including smart watches shall be allowed in preliminary test
- imposition of penalty for incorrect answers shall begin from 'Round 2' onwards

[Detailed Rules](#)

[Register](#)

Entry fee: Rs. 250 per team

Coordinator

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