



DECYPHERS

PRESENTS



**BEYOND THE STARS: ELEVATING SPACE
EXPLORATION USING AI**



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ABOUT US

DECYPHERS IS THE DYNAMIC IT CLUB OF ASTER PUBLIC SCHOOL, GREATER NOIDA, WHERE INNOVATION MEETS CREATIVITY.

FOUNDED WITH THE VISION TO EMPOWER STUDENTS WITH CUTTING-EDGE TECHNOLOGICAL SKILLS, **DECYPHERS** PROVIDES A PLATFORM FOR BUDDING TECH ENTHUSIASTS TO EXPLORE, LEARN, AND EXCEL IN THE EVER-EVOLVING WORLD OF INFORMATION TECHNOLOGY.

AT **DECYPHERS**, WE BELIEVE IN THE TRANSFORMATIVE POWER OF TECHNOLOGY. OUR CLUB IS A HUB FOR STUDENTS PASSIONATE ABOUT CODING, DIGITAL DESIGN, ROBOTICS, AND ALL THINGS TECH. THROUGH A VARIETY OF WORKSHOPS, COMPETITIONS, AND COLLABORATIVE PROJECTS, WE ENCOURAGE OUR MEMBERS TO PUSH THE BOUNDARIES OF THEIR KNOWLEDGE AND CREATIVITY.

OUR CLUB'S ACTIVITIES RANGE FROM CODING BOOTCAMPS AND HACKATHONS TO TECH-TALKS AND SEMINARS WITH INDUSTRY EXPERTS. WE ALSO PARTICIPATE IN INTER-SCHOOL AND NATIONAL-LEVEL IT CHALLENGES, CONSISTENTLY ACHIEVING REMARKABLE RESULTS. WITH A STRONG EMPHASIS ON TEAMWORK AND PROBLEM-SOLVING, **DECYPHERS** FOSTERS A COMMUNITY WHERE IDEAS FLOURISH AND STUDENTS ARE INSPIRED TO THINK CRITICALLY AND INNOVATIVELY.

WHETHER YOU'RE A SEASONED CODER OR JUST STARTING YOUR TECH JOURNEY, **DECYPHERS** WELCOMES ALL STUDENTS EAGER TO EXPLORE THE WORLD OF IT. JOIN US, AND BE PART OF A COMMUNITY THAT'S SHAPING THE FUTURE, ONE LINE OF CODE AT A TIME.

NOTE FROM OUR PRESIDENT



WELCOME TO CELESTRA!

DEAR TECH ENTHUSIAST COMMUNITY,

IT IS WITH GREAT EXCITEMENT THAT WE INTRODUCE CELESTRA, OUR INAUGURAL ONLINE COMPETITION AND EVENT OF THE YEAR! AS PRESIDENT OF DECYPHERS, I AM THRILLED TO INVITE YOU TO THIS LANDMARK OCCASION THAT MARKS OUR VERY FIRST VENTURE INTO HOSTING SUCH A DIVERSE AND DYNAMIC EVENT.

CELESTRA WILL TAKE PLACE FROM OCTOBER 1ST TO OCTOBER 7TH, AND WE'RE BRINGING THE EXCITEMENT DIRECTLY TO YOU ONLINE. THIS EVENT WILL FEATURE A RANGE OF EXHILARATING ACTIVITIES ACROSS VARIOUS DOMAINS:

- **CODING**: DIVE INTO THE BINARY BREAKDOWN CHALLENGE, WHERE YOUR PROGRAMMING SKILLS WILL BE PUT TO THE TEST.
- **VIDEO**: SHOWCASE YOUR CREATIVITY IN DRAMA IN DASH, A PLATFORM FOR CAPTIVATING VIDEO ADVERTISING.
- **DESIGNING**: PARTICIPATE IN THE PALETTE COMPETITION, WHERE DESIGN INNOVATION TAKES CENTER STAGE.
- **CODM**: JOIN THE WARZONE WARRIORS FOR INTENSE BATTLES AND STRATEGIC GAMEPLAY.
- **BGMI**: COMPETE IN THE ARENA SHOWDOWN, WHERE TEAMWORK AND TACTICS LEAD TO VICTORY.
- **VALORANT**: AIM FOR THE TOP IN THE ACE LEAGUE, TESTING YOUR SKILLS AND STRATEGIES.
- **CRYPTIC HUNT**: SOLVE ENIGMATIC PUZZLES IN THE MYSTERIA CHALLENGE, AND UNRAVEL THE SECRETS.

WE ARE INCREDIBLY EXCITED TO LAUNCH CELESTRA AND INVITE ALL MEMBERS TO JOIN US IN MAKING THIS EVENT A MEMORABLE CELEBRATION OF TALENT AND INNOVATION. STAY TUNED FOR FURTHER DETAILS AND REGISTRATION INFORMATION.

LET'S MAKE OUR DEBUT EVENT A SPECTACULAR SUCCESS!

WARM REGARDS,

VISHRUT KESHARI
PRESIDENT, DECYPHERS



ORGANISING COMMITTEE



VISHRUT KESARI
PRESIDENT



KASHVI GUPTA
VICE PRESIDENT



KASHIKA
DESIGNING
DEPARTMENT HEAD



RISHI
GAMING
DEPARTMENT HEAD



TIMELINE

28 AUG - 13 SEP

REGISTRATION PERIOD

28 SEP

SUBMISSION OF 1ST ROUND

1ST OCT

RESULTS OF PRELIMS

5TH OCT

SUBMISSION OF 2ND ROUND

7TH OCT

FINAL RESULTS



WHY YOU SHOULD PARTICIPATE?

PARTICIPATE IN CELESTTRA TO GAIN UNIQUE BENEFITS AND OPPORTUNITIES:

- 1. OFFICIAL CERTIFICATION: RECEIVE A PRESTIGIOUS CERTIFICATE FEATURING THE G20 AND Y20 LOGOS, VALIDATING YOUR PARTICIPATION AND ACHIEVEMENTS.**
- 2. NETWORKING OPPORTUNITIES: CONNECT WITH INDUSTRY LEADERS, EXPERTS, AND LIKE-MINDED PEERS IN A DYNAMIC AND INTERACTIVE ENVIRONMENT.**
- 3. SKILL DEVELOPMENT: ENHANCE YOUR SKILLS THROUGH ENGAGING SESSIONS AND HANDS-ON ACTIVITIES TAILORED TO CURRENT INDUSTRY TRENDS.**
- 4. RECOGNITION: STAND OUT WITH RECOGNITION FROM A RENOWNED EVENT THAT HIGHLIGHTS YOUR COMMITMENT AND EXPERTISE.**
- 5. EXCLUSIVE INSIGHTS: ACCESS VALUABLE INSIGHTS AND KNOWLEDGE SHARED BY DISTINGUISHED SPEAKERS AND PROFESSIONALS.**

JOIN US AT CELESTTRA AND ELEVATE YOUR PROFESSIONAL JOURNEY WITH THESE EXCEPTIONAL ADVANTAGES.



GENERAL GUIDELINES

WELCOME TO CELESTTRA, HOSTED BY DECRYPTERS. TO ENSURE A SEAMLESS AND FAIR EXPERIENCE, PLEASE ADHERE TO THE FOLLOWING DIRECTIVES:

1. **COMPLETE REGISTRATION:** ENSURE YOUR REGISTRATION IS FINALIZED BY THE DEADLINE TO SECURE YOUR PARTICIPATION.
2. **MEET ACCOUNT REQUIREMENTS:** PLEASE MAKE SURE THAT YOU FULFILL ALL PREREQUISITE ACCOUNT REQUIREMENTS AS OUTLINED IN OUR COMMUNICATIONS.
3. **TECHNICAL PREPARATION:** PLEASE MAKE SURE TO CONFIRM YOUR INTERNET CONNECTION AND SOFTWARE SETUP BEFORE THE EVENT TO AVOID DISRUPTIONS.
4. **PUNCTUALITY:** JOIN THE EVENT PROMPTLY TO PARTICIPATE IN ALL SCHEDULED ACTIVITIES.
5. **PROFESSIONAL CONDUCT:** DISPLAY PROFESSIONALISM AND RESPECT TOWARDS ALL PARTICIPANTS THROUGHOUT THE EVENT.
6. **ACTIVE ENGAGEMENT:** PARTICIPATE ACTIVELY IN DISCUSSIONS, ACTIVITIES, AND NETWORKING OPPORTUNITIES.
7. **MINIMAL AI USE:** LIMIT AI ASSISTANCE IN DESIGNING COMPETITIONS TO ENSURE FAIRNESS.
8. **INTEGRITY ENFORCEMENT:** ANY FORM OF CHEATING OR THE USE OF UNAUTHORIZED HACKS OR FILES WILL RESULT IN IMMEDIATE DISQUALIFICATION AND A BAN FROM FUTURE EVENTS.
9. **STAY INFORMED:** KEEP AN EYE ON YOUR EMAIL FOR ANY UPDATES OR CHANGES RELATED TO THE EVENT.

THANK YOU FOR YOUR COOPERATION. WE LOOK FORWARD TO YOUR ACTIVE AND FAIR PARTICIPATION.



BINARY BYTES

EVENT NAME: CELESTRA: BINARY BREAKDOWN

PLATFORM: HACKERRANK

DATE: OCTOBER 3, 2024

DURATION: 1.5 HOURS

LANGUAGE: PYTHON

GUIDELINES:

- ENSURE YOU HAVE A VALID HACKERRANK ID TO PARTICIPATE.
- READ EACH PROBLEM CAREFULLY AND ADHERE TO THE GIVEN INSTRUCTIONS.
- COMPLETE AS MANY PROBLEMS AS POSSIBLE WITHIN THE 1.5-HOUR DURATION.
- SUBMIT YOUR CODE VIA THE HACKERRANK PLATFORM AND ENSURE IT'S FREE OF ERRORS.
- ALL SOLUTIONS MUST BE ORIGINAL; PLAGIARISM WILL RESULT IN DISQUALIFICATION.
- REPORT ANY ISSUES TO THE SUPPORT TEAM PROMPTLY.
- VIOLATIONS OF RULES OR DISHONEST BEHAVIOR WILL LEAD TO DISQUALIFICATION.

JUDGING CRITERIA:

- ACCURACY OF SOLUTIONS FOR ALL PROVIDED TEST CASES.
- OPTIMAL USE OF TIME AND SPACE COMPLEXITY.
- READABILITY AND MAINTAINABILITY OF THE CODE.
- NOVELTY AND CREATIVITY IN PROBLEM-SOLVING APPROACHES.
- FOLLOWING COMPETITION RULES AND GUIDELINES.



PALETTE

EVENT: COUTURE DESIGNING
ELIGIBILITY: CLASS 9TH TO 12TH

EVENT FORMAT:

- THE EVENT WILL BE CONDUCTED IN TWO ROUNDS.
- WINNERS FROM THE FIRST ROUND WILL BE PARTICIPATING IN THE SECOND ROUND.
- THE REGISTRATIONS FOR THE FIRST ROUND ARE TO BE SUBMITTED BY 28TH SEPTEMBER.
- THE REGISTRATIONS OF THE SECOND ROUND ARE TO BE SUBMITTED BY 5TH OCTOBER.
- ALL THE REGISTRATIONS ARE TO BE SUBMITTED VIA THE OFFICIAL EMAIL ID PROVIDED AT THE END OF THIS DOCUMENT.
- YOU ARE ONLY ALLOWED TO SUBMIT ONCE, IF THERE ARE MULTIPLE SUBMISSIONS BY THE SAME PERSON THEN ONLY THE FIRST SUBMISSION WILL BE TAKEN INTO CONSIDERATION.
- ALL THE REGISTRATIONS ARE TO BE SUBMITTED IN A PDF FILE.

THEME FOR FIRST ROUND:

- DESIGN AN OUTFIT ON THE THEME OF THE EVENT, “WHAT IF ALIENS WERE STYLISH”.

THE TOPIC FOR THE 2ND ROUND WILL BE PROVIDED VIA EMAIL TO THE RESPECTIVE QUALIFIERS



WARZONE WARRIOR

EVENT NAME – WARZONE WARRIOR
GAME – CALL OF DUTY MOBILE

EVENT FORMAT: SQUAD (4 PLAYERS AND 1 SUBSTITUTE)

ELIGIBILITY: LEVEL 70+ AND RANK GOLD III +

GAME MODE: BATTLE ROYALE AND MULTIPLAYER

GUIDELINES :

- USE OF ANY HACKS/MOD IS STRICTLY PROHIBITED.
IF FOUND, THE TEAM WILL BE DISQUALIFIED IMMEDIATELY.
- THE USE OF ANY TOXIC LANGUAGE/IN-GAME ACTIONS WILL LEAD TO DISQUALIFICATION.
- THE MATCHES WILL BE BASED ON A POINTS SYSTEM.
- FURTHER DETAILS WILL BE ANNOUNCED ON THE DISCORD SERVER BEFORE THE STARTING OF THE EVENT



ARENA SHOWDOWN

EVENT NAME - ARENA SHOWDOWN

GAME – BATTLE GROUND MOBILE INDIA

SQUAD COMPOSITION:

TEAM SIZE: 5 PLAYERS PER SQUAD (4 PLAYERS & 1 SUBSTITUTE)

ELIGIBILITY PER TEAM – LEVEL <=25 AND RANK <= GOLD IV

GUIDELINES :

- **THERE WILL BE A TOTAL OF 3 ROUNDS.**
- **USE OF ANY HACKS/MODS IS STRICTLY PROHIBITED. IF FOUND, THE TEAM WILL BE DISQUALIFIED IMMEDIATELY.**
- **THE USE OF ANY TOXIC LANGUAGE/IN-GAME ACTIONS WILL LEAD TO DISQUALIFICATION.**
- **THE MATCHES WILL BE BASED ON A POINTS SYSTEM.**
- **FURTHER DETAILS WILL BE ANNOUNCED ON DISCORD SERVER PRIOR TO THE EVENT .**



ACE LEAGUE

EVENT - ACE LEAGUE
GAME - VALORANT

SQUAD COMPOSITION :

1. TEAMS WILL CONSIST OF FIVE PLAYERS, ONE OF WHOM WILL BE DESIGNATED CAPTAIN AND THE MAIN POINT OF CONTACT WITH THE TOURNAMENT ORGANIZERS IF CONTACT WITH TOURNAMENT ORGANIZERS IS REQUIRED.
2. ALL TEAMS CAN AND ARE SUGGESTED TO BE READY WITH AT LEAST 1 PLAYER SUBSTITUTE. THE SUBSTITUTE CAN BE BROUGHT IN AT ANY TIME AND CAN BE REPLACED AT ANY STAGE ACCORDING TO THE TEAM'S DECISIONS.
3. THE EVENT ORGANIZER WILL NOT BE RESPONSIBLE OR PROVIDE ANY SPECIAL AID TO THE TEAM HAVING A MISSING PLAYER OR AN AFK PLAYER FOR ANY REASON.



GAME STRUCTURE:

- ALL THE TEAMS WILL BE DIVIDED INTO 2 BRACKETS (THAT IS EITHER GROUP A OR GROUP B).
- FOR THE INITIAL ROUNDS, A PAIR OF TEAMS SELECTED FROM THE SAME GROUP WILL BE FACING OFF IN TDM (TEAM DEATH MATCH). THERE WILL BE NO SECOND MATCHUPS, DEFEAT WOULD MEAN DIRECT ELIMINATION.
- THE TOP 4 TEAMS FROM EACH BRACKET WILL BE SELECTED ON KILL TO DEATH RATIO.
- THE TOP 4 TEAMS FROM EACH BRACKET WILL PLAY IN A SWIFT PLAY AND THAT WILL LEFT US WITH 2 TEAMS IN EACH BRACKET.
- THE TOP 2 TEAMS WILL PLAY IN SEMI-FINALS IN UNRATED MATCH FORMAT.
- THE WINNING TEAMS WOULD FACE OFF EACH OTHER IN FINALS IN A 13 ROUND UNRATED MATCH.

A MATCH FOR THIRD POSITION WILL BE ORGANISED FOR THE LOSING TEAM IN SEMI-FINALS. THE MATCH FORMAT WOULD BE TEAM DEATH MATCH.

MYSTERIA CHALLENGE



CRYPTIC HUNT

DOMAIN: IX-XII

NUMBER OF PARTICIPANTS PER TEAM: INDIVIDUAL

GAME: QUIZ

MODE: ONLINE

GENERAL RULES:

- PARTICIPANTS: INDIVIDUAL ENTRIES ONLY.
- REGISTRATION: MUST USE REAL NAMES FOR CERTIFICATE ISSUANCE.
- PLATFORM: CONDUCTED ON HACKERRANK; A HACKERRANK ACCOUNT IS REQUIRED.
- LANGUAGE: ANY PROGRAMMING LANGUAGE SUPPORTED BY HACKERRANK.

*CHALLENGE FORMAT AND SCORING:

- TYPES: INCLUDES PROGRAMMING CHALLENGES, CRYPTIC CLUES, AND SURPRISE QUESTIONS.
- SCORING:
 - PROGRAMMING CHALLENGES: POINTS BASED ON SUCCESSFUL TEST CASES. ONLY THE HIGHEST SCORE PER CHALLENGE COUNTS.
 - CRYPTIC CLUES: SOLVING CLUES MAY EARN EXTRA POINTS OR HINTS.
 - SURPRISE QUESTIONS: TEST ADAPTABILITY AND PROBLEM-SOLVING SKILLS.
- MULTIPLE SUBMISSIONS: ONLY THE HIGHEST SCORE FOR EACH CHALLENGE WILL BE COUNTED.

NOTE: ALL CHALLENGES AND CLUES MUST BE COMPLETED WITHIN THE CONTEST TIMEFRAME.



REGISTRATIONS

PLEASE FIND THE LINKS TO THE DIFFERENT EVENTS AND SESSIONS LISTED BELOW.
EACH LINK WILL GUIDE YOU TO THE REGISTRATION DETAILS FOR THAT SPECIFIC EVENT.

WE LOOK FORWARD TO SEEING YOU THERE AND MAKING THIS EVENT A MEMORABLE EXPERIENCE TOGETHER!

Coding-Binary bytes

https://docs.google.com/forms/d/e/1FAIpQLScYUETRQZ3DBFLHVTEHGNVNAMM2JRL_EQBI_KLCF8ZWOL9FLA/viewform?usp=sf_link

Designing -Pallette

https://docs.google.com/forms/d/e/1FAIpQLSEQXBCJV19JVJK4IKXEKLJSKCJMPD8SZ9PCD0VvVHZEGUTXRG/viewform?usp=sf_link

Codm-Warzone warriors

https://docs.google.com/forms/d/e/1FAIpQLSCERP_I2CUNHALYI8W2XHD0RWMLYIFHX0EVTM7UVJJBMXELRQ/viewform?usp=sf_link

Bgmi-Arena Showdown

https://docs.google.com/forms/d/e/1FAIpQLSDCHO7GNLLR4UQ8BWHDAxPF_XUKTCDVBMRH4AATEQ8W0MF7ZG/viewform?usp=sf_link

Valo-Ace League

https://docs.google.com/forms/d/e/1FAIpQLSDX2GADXTLITXS4NH6-4L_4VBQQXFGs_NNVCK2EJY6FVH4RQ/viewform?usp=sf_link

Cryptic -Mysteria challenge

https://docs.google.com/forms/d/e/1FAIpQLSe6OUNMHY7ACBDC_IUUUXSLQE6FQGKC89-TT-1C60NCCGPZFW/viewform?usp=sf_link



CONTACT US

OUR EMAIL-

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INSTAGRAM-

@official_decyphers

DISCORD-

<https://discord.gg/WwMCfxSHng>

YOUTUBE-

**[https://youtube.com/@officialdecyphers?
si=2D4hVdDk3kqm1sip](https://youtube.com/@officialdecyphers?si=2D4hVdDk3kqm1sip)**

THANK YOU !