TECNIA INSTITUTE OF ADVANCED STUDIES

NAAC GRADE "A" INSTITUTE (CYCLE-2)
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INSTITUTIONAL AREA, MADHUBAN CHOWK, ROHINI, DELHI-110085

CYBER SECURITY CLUB

Report (HANDS-ON FLAG CHALLENGE)

Event	Hands-on flag Challenge
Type of Activity:	Problem solving practical challenge competition
OBE Values	Problem solving
Mulya Pravah	Excellence
Global Impact-UNSDG No.	SDG 9 – Industry, Innovation, and Infrastructure
Objectives	1. Develop cybersecurity skills by giving students hands-on experience with practical security. 2. Improve problem-solving and logical thinking through puzzles involving cryptography, encoding, decoding and security concepts. 3. Encourage teamwork and collaboration by allowing participants to solve challenges in teams. 4. Strengthen knowledge of cryptography through challenges involving encryption, decryption, ciphers, hashes and encode messages. 5. Familiarize students with cybersecurity tools and techniques commonly used for security testing and analysis.
Course Mapping	BCA 216P, BCA 220P, BCA 307P, MCA 253P
Course Outcome (CO)	Students will be able to analyze clues, encrypted data, files and hidden information to identify possible solutions.(CO3)
BT Level	BTL 4 - Analyse
Expected Outcomes	1. Students will develop logical and analytical thinking for identifying clues and solving complex problems. 2. Students will practically understand the cybersecurity concepts through hands-on challenges. 3. Students will develop practical security assessment skills. 4. Students will apply basic vulnerability assessment techniques in a controlled environment.
In collaboration/association with	Domain Club: Cyber Security Club (DICT)
Name & Designation details of Resource Person- Internal Expert (LinkedIn Profile Link)	Dr. Sonal Jain, Assistant Professor (TIAS)
Name & Designation details of Resource Person- External Expert Trained counseling expert(LinkedIn Profile Link)/	NA
Duration (Date & Time)	October 3, 2026
Mode (Offline/Hybrid)	Offline
Venue	ML LAB-1, PG BUILDING, 2ND FLOOR, TIAS
No. of Internal Participants	21

No. of External Participants *[write NA if not applicable]*	0
No. of Institutions Participated	01
University Representation	NA
Awards/Recognition (if any) (Attach e-copy of Awards/Certificates)	E-Certificate

Innovation / Best Practice

The activity adopted a hands-on, CTF based learning approach by establishing a best practice of learning cybersecurity through practical, challenge-based competition.

Key innovative features include:

- Integration of cryptography, decoding, vulnerability identification, digital forensics and problem solving within a single event.
- Hands-on experiential learning through practical cybersecurity challenges.
- Real world security assessment scenarios presented in a safe and controlled environment.
- Ethical cybersecurity practices emphasized throughout the competition.
- Alignment of the activity with OBE – Technical Competence, Mulya Pravah – Dedication, and UNSDG 9 – Industry, Innovation and Infrastructure.

Feedback:

Mode of feedback collection (form / oral / reflection / survey)	**Evidence to be maintained by the Event Coordinator:** • Attendance sheet • Event poster/flyer • Screenshots/photographs of the competition • Feedback form and responses
Key feedback highlights	**Participants appreciated the real world nature of the challenges which helped them connect theoretical concepts with practical applications. Participants enjoyed working under time constraints, which helped improve their decision-making and time management. Many students expressed interest in participating in more CTFs, cybersecurity competitions, workshops and technical events.**
Suggestions for improvement (if any)	**NA**

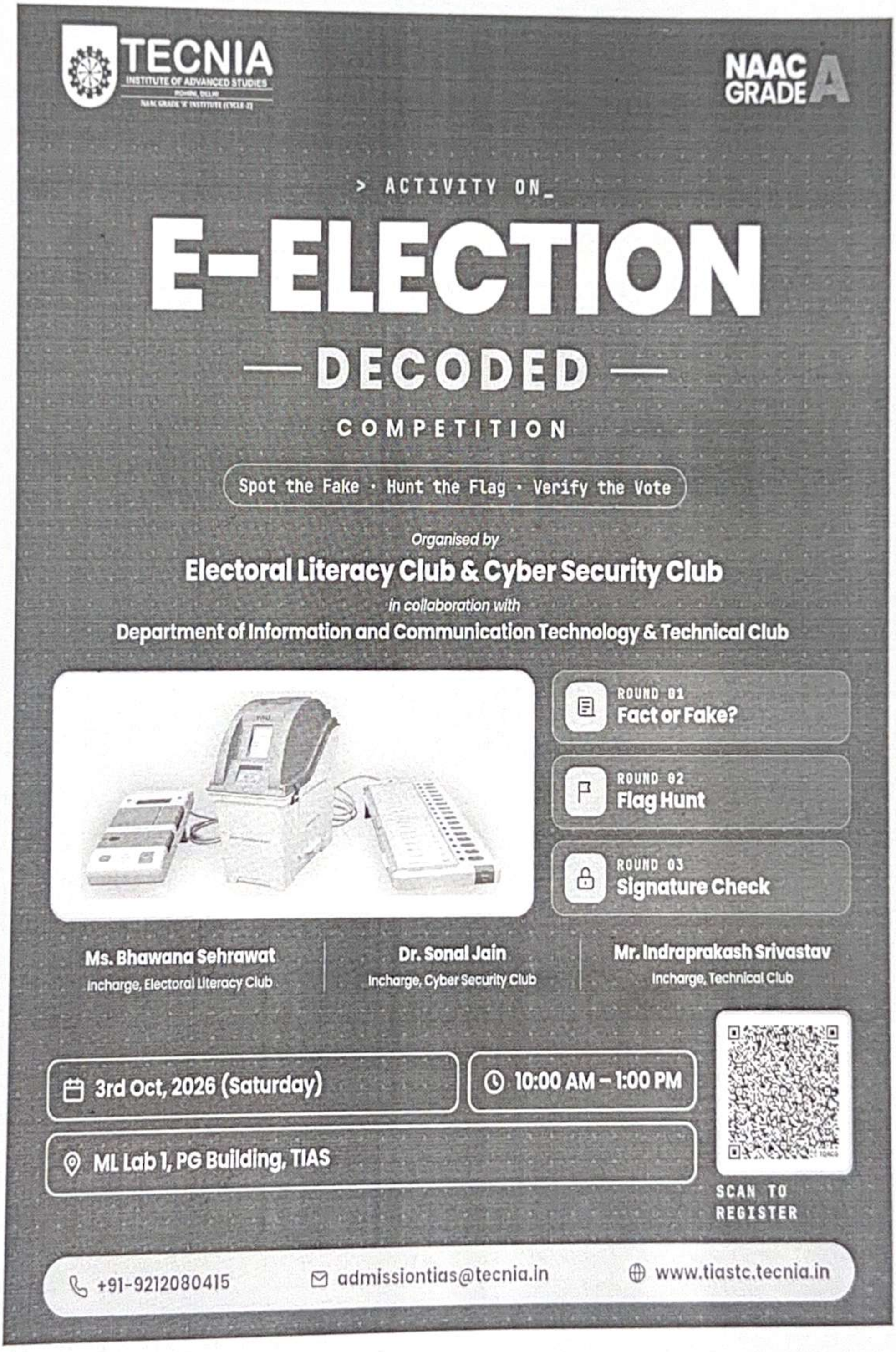
Conclusion :

The Flag challenge and decode competition provided an engaging platform for students to apply cybersecurity concepts in a practical environment. The event enhanced participant's security assessment, cryptography, problem-solving, analytical and teamwork skills. It also promoted awareness of ethical cybersecurity practices and encouraged students to explore emerging areas of information security. The active participation and positive feedback reflected the effectiveness of challenge-based learning. Overall, the event contributed to strengthening the cybersecurity culture and technical capabilities of students within the college.

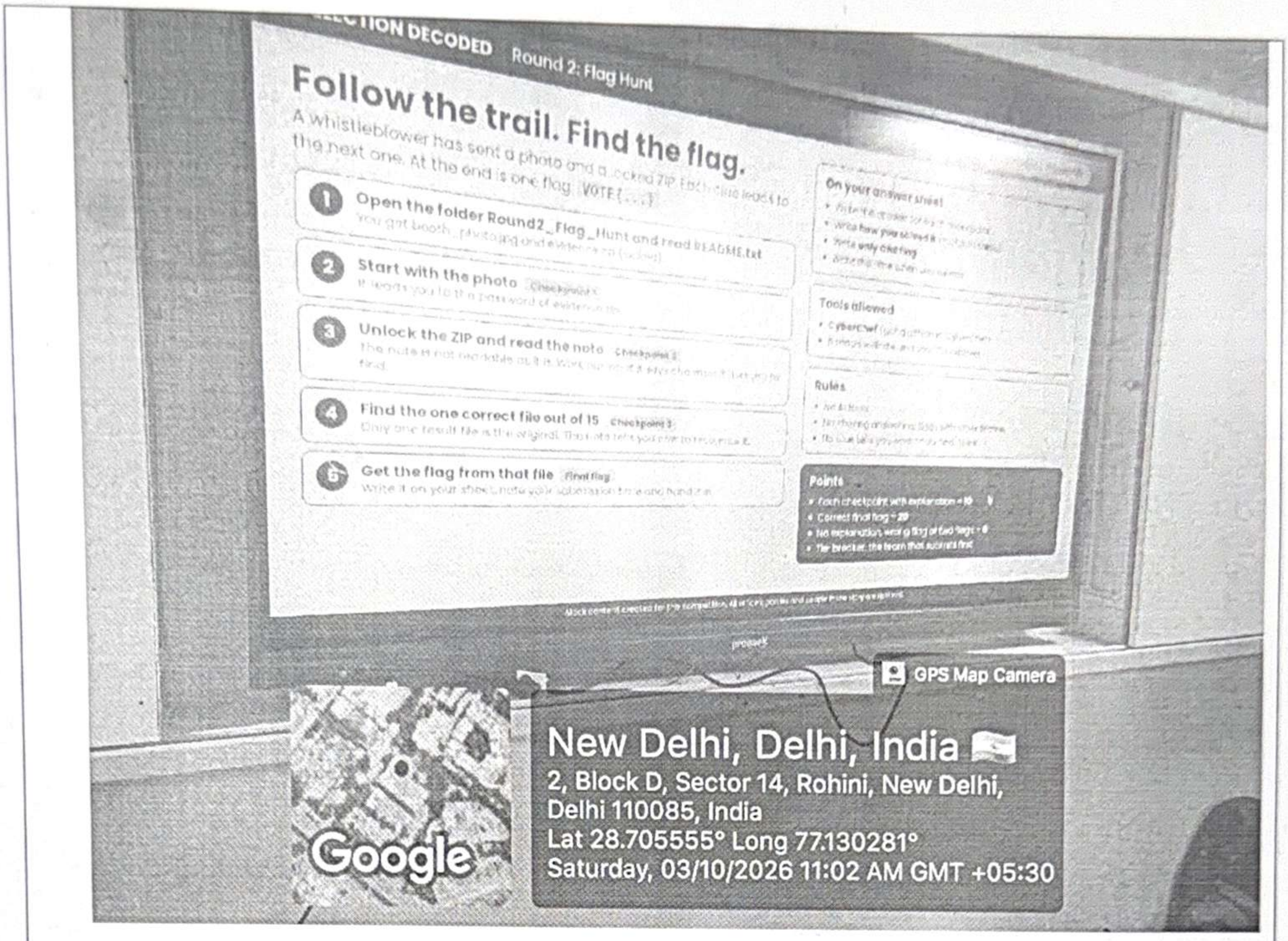
Media Coverage:

Social media link(s) (Mandatory)	**https://www.instagram.com/tecniainstitute.ig/,** **https://in.linkedin.com/company/tecniainstitute,** **https://www.facebook.com/Tecniaofficial/**
Print Media evidence (If any)	

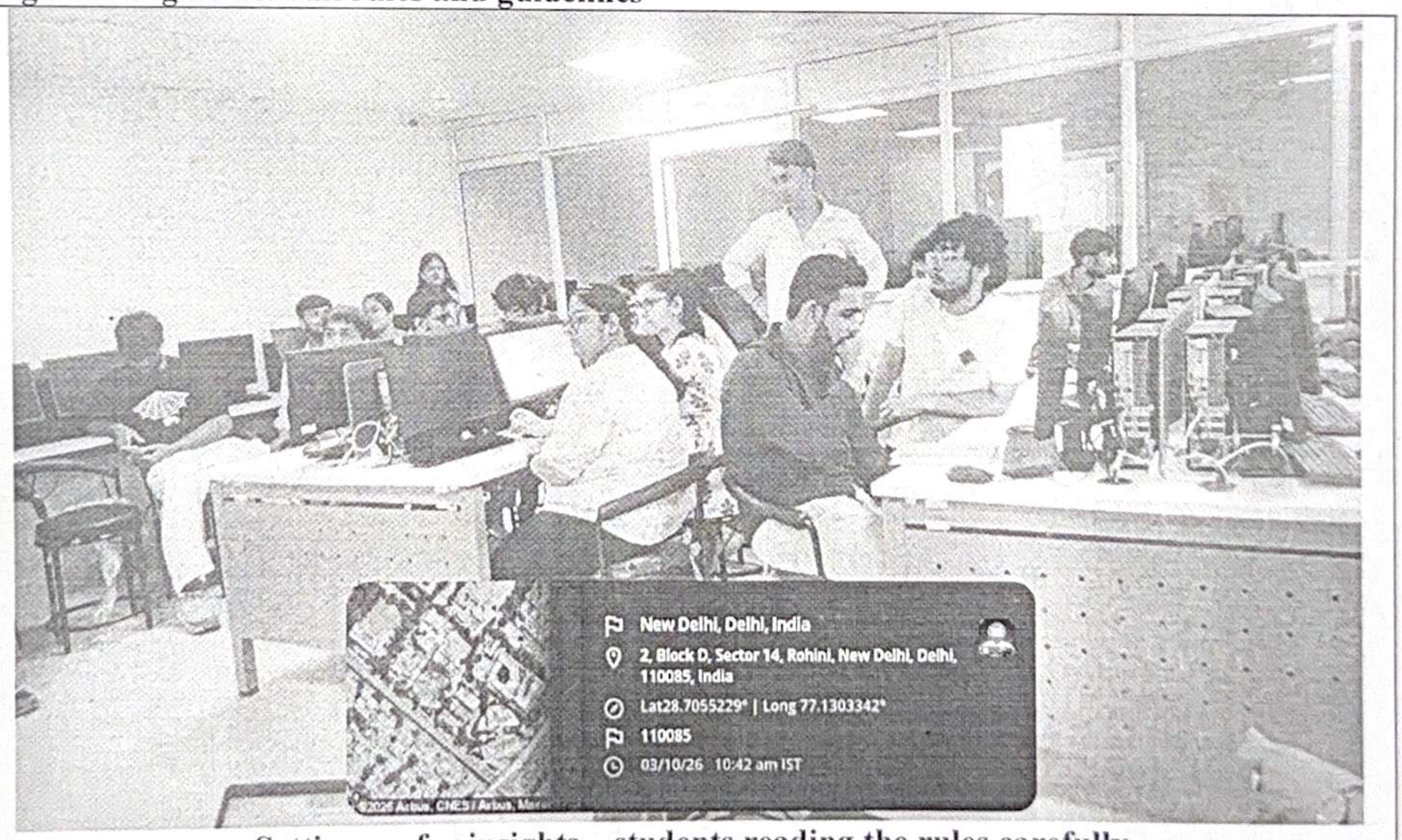
Poster/Flyer



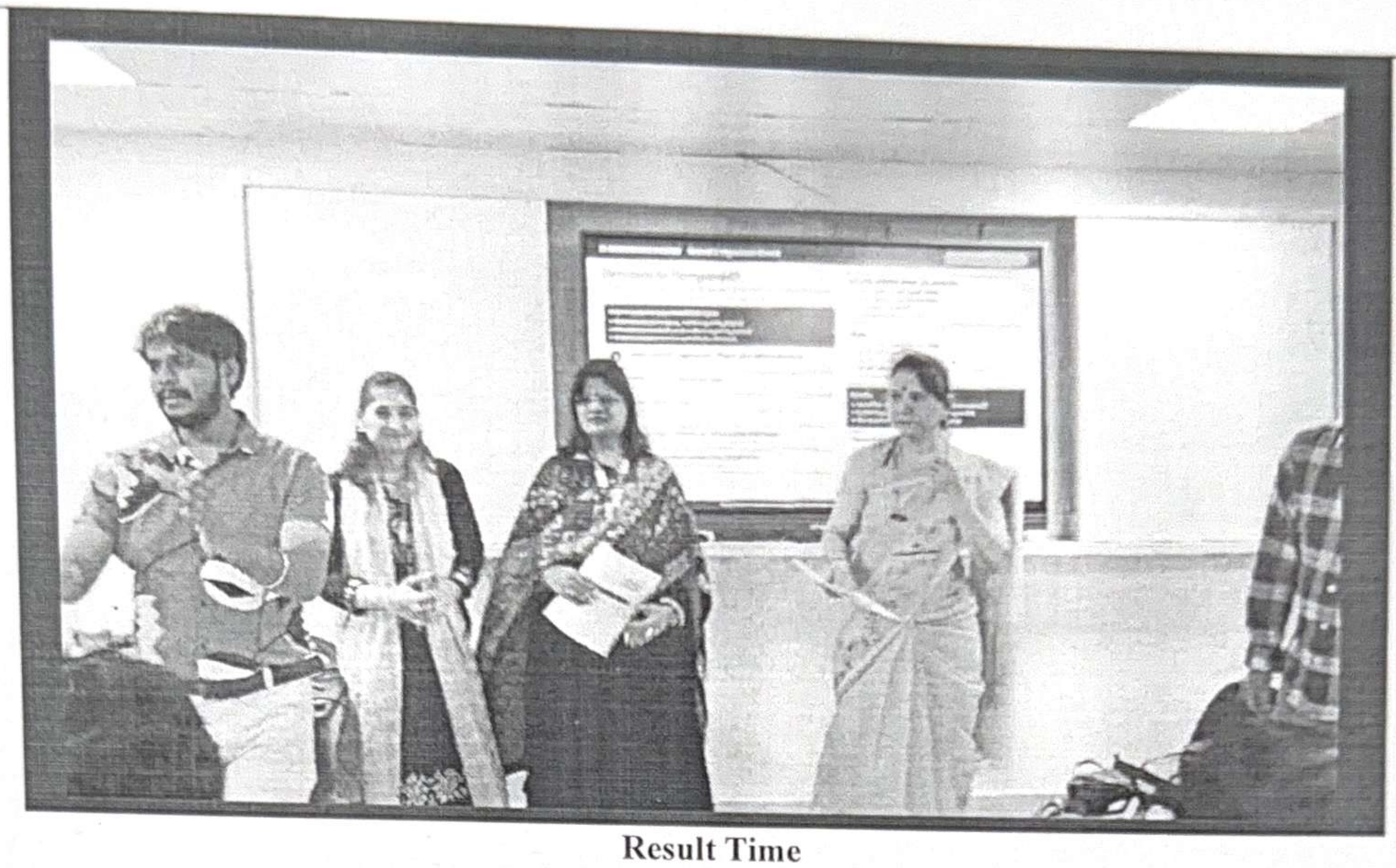
Geotag photos (with Caption):



Flag hunt begins with all rules and guidelines



Setting up for insights—students reading the rules carefully



Result Time

Tecnia Institute of Advanced Studies

Department of ICT

E-lection Decoded

Result Sheet

Date: 3 October 2026

S.NO.	Team Name	Team Leader	Total Points
1	CyberFuria	Anagh Khandelwal	$R_1=28, R_2=30 R_3=$ 146
2	Code Warrior	Lakshay Kumar	124 = $R_1=24, 30+70$
3	White Hat Union	Nishita Sharma	100 = $R_1=30+0+70$
4	Error 404: Team Not Found	Rifisha	67 = $R_1=22, 10+35$
5	VEXORA – 2	Himansh	122 = $R_1=22, 30+70$
6	Decoders	Mayank Kumar Jha	114 = $R_1=26+20+68$
7	Vote_Hunters	Kshitij Bhardwaj	ABSENT
8	TriCore	Vanshita Sharma	118 = $R_1=28, +30+70$
9	TechTales	Kriti Seth	ABSENT
10	Cyber Duo	Abhinav Pandey	104 = $R_1=24+10+70$

Dr. Sonal Jain
Ms. Bhawna
Judge

Ms. Ketna
Ms. HEENA
Coordinator

Winner Team – Cyber-Furia

List of Participants (Attendance Sheet)

Activity: Hands-on Flag Challenge **Date: 3 Oct. 2026**

S.No.	Enrolment No.	Name of the Student	Prog & Year	Sign.
1	03717002025	Vanshita Sharma	BCA, Sem 5	
2	06017002025	Dishita Mangal	BCA, Sem 3	
3	00721302025	Shreyas Pathak	BCA, Sem 3	
4	01517002024	Tanishka [surname unclear]	BCA, Sem 5	
5	00521302024	Mayank Kumar Jha	BCA, Sem 5	
6	00621302024	Himanshu	BCA, Sem 5	
7	08917002024	Ansh	BCA, Sem 5	
8	00917002024	Divyansh	BCA, Sem 5	
9	10321302025	Lakshay Kumar	BCA, Sem 3	
10	06421302025	Rudra	BCA, Sem 3	
11	10621302025	Vansh Sharma	BCA, Sem 3	
12	03521302024	Himansh Bhagi	BCA, Sem 5	
13	09821302024	Mayank Sharma	BCA, Sem 5	
14	02017002024	Anagh	BCA, Sem 5	
15	00321302245	Rishi	MCA, Sem 3	
16	04117002026	Kartik	BCA, Sem 1	
17	08517002024	Yuvaan	BCA, Sem 5	
18	35417002024	Abhinav	BCA, Sem 5	
19	03917002026	Shreya	BCA, Sem 1	
20	00217002026	Nishita	BCA, Sem 1	

Event Coordinator/Club Incharge

Dr. Sonal Jain
Cyber Security Club Incharge

Dr. Ratandeep Kaur
Domain Club Head

Dr. Sushma Bahuguna
Asso. Dean, DICT
Asso. Dean, Dept. of Info. Comm. & Tech.
Tecnia Institute of Advanced Studies