**Cognizance Club**

**Hackathons:**

1. **Repair The Page**:

**(3hr) (Nehal Khan, Rohit Prasanna) (CSE Lab 1) (10:00 - 29/1/2025)**

**(OS Event) (Team size – 2)**

Participants will be provided with a webpage containing multiple functionalities but riddled with errors and incomplete features. The challenge is to:

1. Debug the code to fix existing issues.
2. Enhance the website by adding new, innovative features.

Participants must rely exclusively on the customized GPT platform provided by the event organizers for guidance and assistance. Cost criteria is applied for the usage of the GPT assist. Initial budget for the participants will be 500 points depending of the query list the cost varies and will be spent.

1. **Campus Pal:**

**(24hr) (Jeba Rachel Nesica , Shalini) (AB 206 – 1hr needed offline, later online) (13:30 - 29/1/2025)**

**(AI Event) (Team size – 2)**

Participants will fine-tune or integrate a pre-trained language model (e.g., GPT, BERT) to create a Q&A system specifically tailored to answer questions about our institute (Amrita Vishwa Vidyapeetham). There'll be 3 levels to check the performance of the participant's efficiency of prompting and the accuracy of their model in providing answers for the queries provided. On clearing each level, the participant moves to the next level.

1. **Cybersecurity Escape Room Challenge:**

**(3hr) (Sreeram Rohith, Keerthi Rohan) (CSE Lab 2) (13:00 - 30/1/2025)**

**(CYS Event) (Team size – 2-3 )**

Problem Statement:

Participants must navigate a virtual escape room, solving cybersecurity-related challenges to unlock each stage. These challenges will test their knowledge of encryption, ethical hacking, network security, and cryptography.

Expected Result:

Participants will complete the escape room by solving all challenges within the allotted time. Each participant's time, number of hints used, and accuracy will contribute to their final score.

Judging Criteria:

Completion Time: The quicker a participant completes the escape room, the higher their score.

* Hints Used: Points will be deducted for each hint taken. Lesser hints increase the final score.
* Dynamic Point System: Points will be awarded for each successfully solved challenge. The earlier the challenge is solved, the higher the points. Bonus points for solving the final stage without hints.
* Accuracy: Mistakes or incorrect answers reduce the score.

1. **Code of Duty: A Fun Coding Challenge**

**(3hr) (Shyam, Kaushik) (AB 205) (10:00 30/1/2025)**

**(CP Event) (Team size – 4)**

In **Code of Duty**, your team solves coding questions while managing in-game currency. Each question is locked and can be bought using currency. Invigilators will guide the event and keep track of time and currency.

**Round 1: Earn and Spend**

* **Starting Money:** $500
* **Goal:** Solve questions, earn more money, and unlock useful abilities.

**How It Works:**

1. Use your starting $500 to buy 3 coding questions.
2. Solve questions to earn more money and spend it on abilities.

**Special Abilities You Can Buy:**

* **Peek (Recon):** Look at other questions, but you can’t solve them.
* **Hint:** Get a small clue for solving a question.
* **30-Second GPT Access:** Use GPT for a short time (but no copy-pasting!).
* **Hidden Test Cases:** Unlock test cases to debug better.
* **Extra Time (Freeze):** Add 5 to 10 minutes to your time.

**Extra Bonus Features (Timed Multipliers):**

* Solve quickly to earn **1.5x more money**.
* Use abilities during special times, and they’ll last **twice as long**.

Top teams with most questions solved within the initial 2 hours will advance to Round 2.

**Round 2: Team Faceoff**

* **Top Teams:** The best 4 or 8 teams move to this round.
* **Format:** Teams compete directly to solve the same set of questions. The losing team gets eliminated each time until **one winner remains.**

**New Abilities in Round 2:**

* **Freeze Opponents:** Stop the other team from coding for 60 seconds.
* **Disable Compiler:** Block the opponent’s code from running for a short time.
* **Shield:** Defend against attacks from other teams.

Teams eliminated in the semi-final round will compete in a **third-place playoff** by solving a new set of questions in a limited time. The team solving more questions accurately and efficiently in this round will secure the **3rd prize**.

1. **Code Hunt:**

**(2hr) (Adithiyan, Shalini, Jeba Rachel Nesica) (AB 206) (13:30 - 30/1/2025)**

**(Mix - Tech + Non tech Event) (Team size – 2-3)**

The game will consist of 3 badges of the Cognizance logo. To reach any one of the badges, each team will be given a lucky draw to choose a route that may lead to any of the badges. The route for the badges will have many tasks written in any kind of form (Piece of paper, Camouflaged poster, message from a person). Upon completing the task (DBMS query, Debugging, AI Knowledge, CYS, etc.) the result will hint at the next location of the question.

* 1. Team Size: 2 – 3
  2. Usage of Phone ✅
  3. Usage of Laptop ❌
  4. Time limit: 2hr

Example:

There are 30 participants = 10 teams

Each team will get a luck draw from 10 slots containing numbers 1, 2, 3. If a team got 1 then they have to choose the route for badge 1. And we will give them the 1st clue which will lead to badge 1. Only after all the teams have completed the lucky draw, we will ask them to open the clue (Time starts now).

1. **Algocrack** (No Coding Just Cracking) 29th 11:00

Description: -

It is a unique and exciting competition where teams of two work together to solve challenging problems by showcasing their creativity, logical thinking, and mathematical reasoning. The judging criteria emphasize the variety of algorithms proposed and the perfection of their logical flow. This competition is perfect for individuals passionate about exploring innovative solutions, enhancing their problem-solving abilities, and pushing the boundaries of algorithmic design in a stimulating and collaborative environment.

Rules and Regulations: -

* Date: 29th Jan 2025
* Venue: Academic Block
* Team Size: 1 or 2 members
* No. of rounds: 2 (qualifier - 1 hour, final - 45 mins)
* Total Time: 2 hours
* Requirements: pen, no electronics allowed
* Coordinators: Dharmadhaashan P (6380316883), Ketha Aakash (9491787436)

**Workshops:**

1. **Ethical Hacking:**

**(2hr) (**Subramanian, Rohan**) (AB 207) (13:30 - 29/1/2025)**