Algo Club is responsible for conducting programming events for the students of PSIT, Kanpur. The club organises regular events focusing on various activities related to programming, latest IT trends and problem-solving solutions. Also, regular Hackathons are being conducted to promote competitive programming culture in the institute.

Objectives of Algo Club

- Gain technical and collaborative skills to develop real-life projects.
- Learn steps of the engineering design cycle and how it works as a functional problem-solving procedure.
- Be a knowledge sharing platform among students at the institute about current IT trends.

Session 2021-22
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1) **QUIZ on "C Programming & Latest IT Trends"** is organised on Engineer's Day i.e. Wednesday, **15th September 2021**.
Questions related to C Programming Language, Trending Technologies and IT Industry's Current Affairs are asked from the participants. Total 285 Students participated in the quiz.

Winners of Quiz are:

- **First:**   **Mohd Harish** CS2A   **Rahul Awasthi** CS3C
- **Second:**   **Abhinav Yadav** CS2A   **Aviral Tiwari** CS3D
- **Third:**   **Devyansh Shukla** CS2DS   **Utkarsh Gupta** CS3C

PSIT Kanpur

CSE

Computer Science Student's Association

Department of Computer Science & Engineering, PSIT, Kanpur

in association with

Computer Society of India (CSI)

presents

QUIZ on "C Programming & Latest IT Trends"

(For B.Tech. CSE 2nd and 3rd Year Students)

on the occasion of **Engineer's Day**

Wednesday, 15th September 2021
Time: 10:50 AM

VENUE: COMPUTER LAB D21 - D24
Department of Computer Science & Engineering, PSIT, Kanpur

RULES & GUIDELINES:

✓ **Quiz** shall be a **50-minute** test with **50 multiple-choice questions** carrying **1 mark** each.
✓ There shall be negative marking of 0.25 marks for every wrong answer
✓ **Quiz** consists of **Q**uestions as per following sections:
   ○ **Section A: C Programming**   (*20 Questions*)
   ○ **Section B: Trending Technologies for IT Professionals** (*20 Questions*)
   ○ **Section C: IT Industry Current Affairs**   (*10 Questions*)

- Top 3 Winners from 2nd Year and 3rd Year each will get prizes.
- E- certificate will be provided to all the participants   - **No Registration Fee**

Register Now! https://forms.gle/L17yhkis4BiXA2qn7

For Queries, Contact: **Dr. Prashant Kumar Mishra**, Associate Professor – CSE   Mobile: 9889088646

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2) **IDEATH💡N** is organised by Algo Club, PSIT in association with Computer Society of India. No idea is too small, and all ideas have the potential to change the world. Participants are required to present sustainable Idea as a problem solution with focus on social elements. Present a brilliant idea that will make the world better.

Ideathon is organised in two rounds. In the Preliminary round, 23 teams have submitted their Ideas. 8 out of 23 Teams are shortlisted for Final Round.

Final round of Ideation is organised on FRIDAY, **19th November, 2021**. In the Final Round, teams have presented their ideas based on parameters like Problem Statement, Market Evaluation, Execution Plan etc.

PSIT *Kanpur*

ALGO Club

IDEATH N

Imagine. Ideate. Innovate.

This is a **pre-startup idea competition**, meaning no product needs to be developed or a company incorporated - it's all down to coming up with and presenting the most creative (but feasible) start-up idea.

✓ **ROUND 1:** (iDEA SUBMISSION via e-mail csi@psit.ac.in)

[**LAST DATE** – Wednesday, 10ᵗʰ November 2021]

We encourage you to explain your idea using following presentation structure (in .pdf format):

○ **Business concept**
- What is the problem you want to solve? Also, explain its solution in detail.
- How your solution translates to a business idea (value proposition)?

○ **Market evaluation**
- Who are your customers (customer segments and targeted market size)?
- Who are your key competitors (and how do you differentiate)?

○ **Business Plan**
- What is your go-to-market strategy (steps necessary to succeed with your business concept)?
- What is your business case (investment needed, revenues and expenditures over the next ~3-5 years)?

○ **Team and capabilities**
- What key roles would be needed in your team to pursue your business idea?
- What capabilities you already have and see as important to develop further?

✓ **ROUND 2: FINAL** (PRESENTATION OF SHORTLISTED iDEAS) - [Friday, 19ᵗʰ November 2021]

- **Participants can either apply as a team** (up to 3 students) **or individually**
- **No Registration Fee**

- **Top 3 Winners will get prizes**
- **E- certificate will be provided to all the participants**

Dates to Remember

ROUND 1 – Last date to submit detailed Idea (in .pdf format) via e-mail to csi@psit.ac.in		Wednesday, 10ᵗʰ November 2021
Notification to Shortlisted Students/ Teams for Final Round		Friday, 12ᵗʰ November 2021
ROUND 2 (Final) - Idea Presentation		Friday, 19ᵗʰ November 2021

For Queries, Contact: **Dr. Prashant Kumar Mishra**, Associate Professor – CSE Department   Mobile: 9889088646
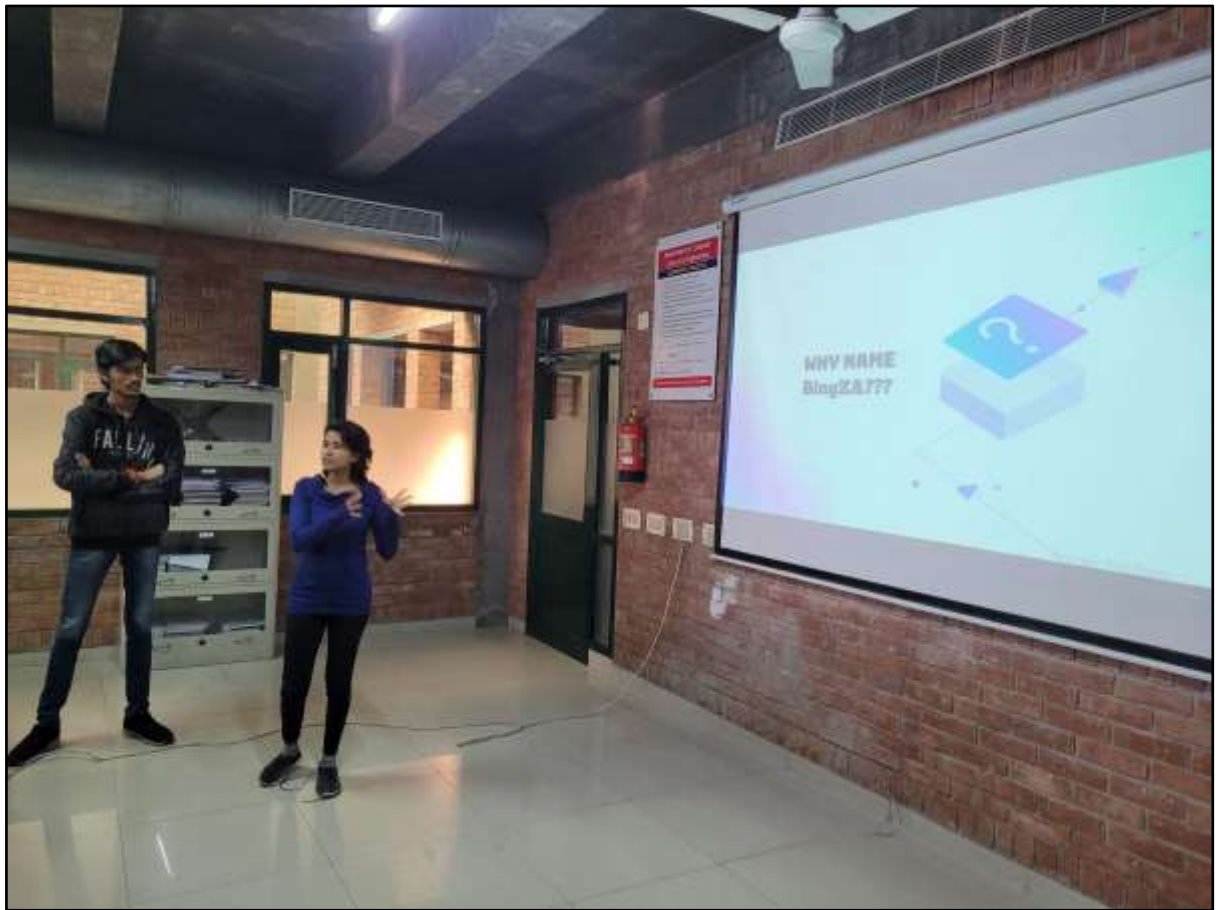
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3) **PROBLEM SOLVING INTELLIGENCE TEST 1.0** (an ONLINE HACKATHON) is organised in association with Computer Society of India to identify PROBLEM SOLVING STARS. 3 Problems are given to code as solution within 100 minutes. Winners are declared based on successful test cases followed by submission time. Participants have coded the solution in the programming language of their choice.

Top three participants have won cash prize of ₹ 8K, ₹ 5K and ₹ 2K respectively with DIRECT ENTRY to Elite Batch of Special Training.

Winners are –

FIRST	**Sumit Kumar Gupta** PSIT-CS2B	₹ **8,000**	
SECOND	**Girdhar Shukla** PSIT-CS-AI2	₹ **5,000**	**DIRECT ENTRY** to **Elite Batch** (Special Training)
	Anmol Shukla PSITcoe-IT2	₹ **5,000**	
THIRD	**Anushka Gupta** PSIT-CS2A	₹ **2,000**	

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4) **QuizGeekX1.0** *(A Quiz on 'C Programming & Latest IT Trends')* is conducted by Algo Club, PSIT in association with 'Computer Society of India' and sponsored by 'AICTE - SPICES' on **18th April 2022**. Total 229 students from B.Tech. 2nd Year and 3rd Year have participated in the event.

Winners are :

	FIRST		SECOND		THIRD	
$\Big($	**Dipankar Singh** PSIT- CS1A	$\Big)\Big($	**Sanat Kumar Mishra** PSIT- CS1A	$\Big)\Big($	**Satyam Shukla** PSIT- CS1C	$\Big)$
	Pranjal Pratap Singh PSITcoe- CS2A		**Sudhir Kumar Yadav** PSIT- CS2A		**Sudhir Kumar** PSIT- CS2A	

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5) <mark>Udyamita</mark> is a pre-startup idea competition, meaning no product needs to be developed or a company incorporated - it's all down to coming up with and presenting the most creative (but feasible) start-up idea.

12 Teams have presented their business Idea in the final round organized on 17th June 2022.

Winners are :

FIRST	SECOND	THIRD
Ishika Gupta	Shashi Priya Rai	Anushka Prakash
Akanksha Kushwaha	CS 2C	CS2 AI
Shubhi Jaiswal		Varshika Gangwar
MBA 1A	Sneha Yadav	CS 2A (PSITcoe)
	CS 2B	

PSIT Kanpur | **ALGO Club** | **SRAJANCLUB** | Computer Society of India

presents

UDYAMITA
Let's Start ...

This is a **pre-startup idea competition**, meaning no product needs to be developed or a company incorporated - it's all down to coming up with and presenting the most creative (but feasible) start-up idea.

✓ **ROUND 1:** (iDEA SUBMISSION via e-mail csi@psit.ac.in)

[**LAST DATE** – Wednesday, 25th May 2022]

We encourage you to explain your idea using following presentation structure (in .pdf format):

○ **Business concept**
- What is the problem you want to solve? Also, explain its solution in detail.
- How your solution translates to a business idea (value proposition)?

○ **Market evaluation**
- Who are your customers (customer segments and targeted market size)?
- Who are your key competitors (and how do you differentiate)?

○ **Business Plan**
- What is your go-to-market strategy (steps necessary to succeed with your business concept)?
- What is your business case (investment needed, revenues and expenditures over the next ~3-5 years)?

○ **Team and capabilities**
- What key roles would be needed in your team to pursue your business idea?
- What capabilities you already have and see as important to develop further?

✓ **ROUND 2: FINAL** (PRESENTATION OF SHORTLISTED iDEAS) - [Friday, 17th June 2022]

- Participants can either apply as a team (up to 3 students) **or individually**
- **No Registration Fee**
- Top 3 Winners will get prizes
- E- certificate will be provided to all the participants

Dates to Remember

ROUND 1 – Last date to submit detailed Idea (in .pdf format) via e-mail to **csi@psit.ac.in**	Wednesday, 25th May 2022
Notification to Shortlisted Students/ Teams for Final Round	Thursday, 26th May 2022
ROUND 2 (Final) - Idea Presentation	Friday, 17th June 2022

For Queries, Contact:

Dr. Raghuraj Singh Suryavanshi, Professor – CSE Department   Mobile: 9956096623
Dr. Prashant Kumar Mishra, Associate Professor – CSE Department   Mobile: 9889088646

PSIT Kanpur · ALGO Club · SRAJANCLUB · Computer Society of India

presents

UDYAMiTA
Let's Start ...
FINAL ROUND

Students / Teams shortlisted for FINAL ROUND

Varsha Singh Parihar EN 2	Shrishti Pandey MBA 1C	Shreyash Tripathi CS 2B
Saloni Dwivedi Shreyash Tripathi CS 2B	Apurba Patra CS2 AIML	Shashi Priya Rai CS 2C Sneha Yadav CS 2B
Anjali Mishra Archana Singh MBA 1A Akanksha Singh MBA 1B	Deepanshu Shukla CS2 AIML	Anushka Prakash CS2 AI
	Vaibhav Kumar EN 2	Varshika Gangwar CS 2A (PSITcoe)
	Ishika Gupta Akanksha Kushwaha, Shubhi Jaiswal (MBA)	Anuraaj Malik Ishita Singh Bisht Chetan Khatri Gauri Gupta (MBA)

FRIDAY
17th June 2022
13:30 onwards...

A-24, PSIT

Important

All Students / Teams shortlisted for FINAL ROUND are required to present their Business Plan in detail using *Power Point Presentation.*

ALL THE BEST

For Queries, Contact:
Dr. Raghuraj Singh Suryavanshi, Professor – CSE Department   Mobile: 9956096623
Dr. Prashant Kumar Mishra, Associate Professor – CSE Department   Mobile: 9889088646

6) **QuizGeekX2.0** *(A Quiz on 'C Programming & Latest IT Trends')* is conducted by Algo Club, PSIT in association with 'Computer Society of India' and sponsored by 'AICTE - SPICES' on 12th September 2022. Total 188 students from B.Tech. 2nd Year and 3rd Year have participated in the event.

Winners are :

	FIRST	SECOND	THIRD
	Anushka Bajpai CS-AIML-2A	Krishna Singh CS-2C	Keshav Sharma CS-2C
	Sudhir Kumar Yadav CS-3B	Shubham Katiyar CS-3B	Priyanshu Mishra CS-AIML-3

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7) **Faculty Development Programme on 'Data Structures & Algorithms'** is conducted by Algo Club, PSIT on 10th December 2022 in association with 'Computer Society of India'. Resource Person Mr. Channa Bankapur, Eminent Professor, PES University, Bengaluru has shared useful knowledge about DSA. Total 26 Faculty Members have participated in FDP.

Pranveer Singh Institute of Technology, Kanpur organizes FACULTY DEVELOPMENT PROGRAMME on 'DATA STRUCTURES & ALGORITHMS'. Resource Person: MR. CHANNA BANKAPUR, Eminent Professor, PES University, Bengaluru. Date: 10th December 2022. Venue: Computer Lab (K-33), PSIT.

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8) **Buggify** (Debugging Competition)

EVENT DATE: 24th February 2023

This is an group event to be conducted in languages : C++,java, C.

This event consists of 2 rounds.

- **Round-1** contains 1 program (to be written in "C, C++, Java" language), Difficulty Level : Easy
  It included basic problem where participants need to correct the code of insertion sort and binary search.

- **Round-2** contains 1 program (to be written in "C, C++, Java" language), Difficulty Level : Medium

  It included a medium level problem of linked list (REORDER LIST).

Event was conducted on **Hackerrank** platform.

Rules:

- Each team has to find the bugs in a code and **debug** them. It included 5 errors of types :- declaration error, syntax error and logical error.
- Participants whose code gets executed will be given higher preference.
- The second preference will be given to code with max no. of errors solved.
- In case of tie in number of errors, Time of Submission will be considered.
- TOP-5 teams of Round-1 will be eligible for Round-2 in which same rules will be applicable.
- **Team Size** :- 1-3 members.

❖ **Event Head:**   Nidhi Sharma (CS-AIML-2A)

❖ **Event Co-Head:**   Arnav Asthana (CS-AIML-2A)

Number of Participants: **100**

<u>**Winner:**</u>   **Tanmay Gupta** (CSE 2B) and **Vaishnavi Saxena** (CSE 2A)

CASH PRIZE: INR 2000 + Trophy + Certificate

<u>**Runner-up:**</u>   **Arpit Krishna** (CSE-AI-2A)

CASH PRIZE: INR 1000 + Trophy + Certificate

9) Blind Code

EVENT DATE: 25th February 2023

This event will be focused on testing the photographic memory, focus, and typing skills of participants by making them code the logic of a basic problem with the screen (code editor) being off.

Event Model: -

The time duration of the event will be about 45-50 min (In total) comprising 2 rounds, the first round will be 25 min and will be divided into 3-time slots: 0-5 min, 5-10 min, and 10-15 min and additional 10 min. During this, the students will be planning the solution to the given problem without the use of Pen 'N' Paper and will code it in C language (common for all), without looking at the monitor, keeping in mind all the syntax and variables. The student who solves the problem within the first time slot (0-5 mins) will be given an advantage in the form of certain hints for the next round i.e., the Buzzer round. Similarly, the student who solves the problem within the second time slot (5-10 min) will also be given an advantage but with a lesser number of hints as compared to the first slot. The same shall go for the third. The student failing to complete the code within 25 min will be disqualified automatically. The second buzzer round will be consisting of some open coding technical questions with the qualified students. Thus, the student who answers the maximum number of questions will be the winner.

Rules and Regulations: -

1) While coding, the mouse shall be disconnected from the systems.
2) Proper time laps will be maintained to ensure unbiased results.
3) In case of any unruly behaviors of the participant(s) he/she shall be disqualified.
4) All the coordinators will be strictly monitoring the problems of participants for any technical issues.

Event Head: Rajan Verma (CSE-2A)

Event Co-Head: Arya Pratap Singh (CSE-2A)

Number of Participants: **37**

Winner: Akash Kumar Srivastav (CS 2A)

                CASH PRIZE: INR 1500 + Trophy + Certificate

Runner-up: Adit Srivastav (CS 2A)

                CASH PRIZE: INR 1000 + Trophy + Certificate

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10). Problem Solving Intelligence Test 2.0

Event Date:- First Round 26/05/2023   **Final Round** 09/06/2023

About the Event:-

      This event is to found students with coding skills and test them under examination conditions. The motive of this event is to enhance students programming skills and finding

optimize solution with in limited time frame. Student allowed to participate individually, preferred language for coding are C, C++, Java, Python. Platform used for conducting PSIT 2.0 is HackerRank and Test duration is 90 minutes. Event having 3 coding problems and evaluation criteria is based on successful test case followed by submission time.

Event Co-ordinators
1. Ritik Gangwar- CS-AIML-2A
2. Rajan Verma- CS-2A
3. Aradhya Trivedi- CS-DS-2B

Number of participants:- 25

Winners from First Year

1. Abhishek Srivastava – 2201640140011- MCA-1A
2. Anurag Yadav – 2201641530040-CS-AIML-1A
3. Ashish Verma – 2201640100092-CS-1B

Winners from Second Year

1. Rubham Soni – 2101641530125-CS-AIML-2A
2. Ayushhi Sethiya- 2101640100088-CS-2A
3. Anuradha – 2101641530033-CS-AIML-2A

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