



December 29, 2024
Serampore, Hooghly, West Bengal

Annual Summit-2024

&

Panel Discussion

By

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Book of Abstract & Events: A collection of abstracts from the project work and events of session'24-'25
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(MAIDEN EDITION) ANNUAL SUMMIT-'24 BOOK OF ABSTRACT & EVENTS

Published by Computronics, A Gateway to Computer World, Serampore, Hooghly, West Bengal

2024-25



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BOOK OF ABSTRACT & EVENTS

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Book of Abstract & Events

A collection of abstracts from the project work book of session '24- '25 and events of 2024-25 session

In the occasion of

Annual Summit-2024 & Panel Discussion

December 29th, 2024

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In collaboration and Association with
ISOEH, KOLKATA
And
DreamTech Solutions Pvt. Ltd., Kolkata
And



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Hooghly, West Bengal

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Serampore, Hooghly

2024-25

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Welcome Message

On behalf of organizing committee of Annual Summit-2024, we are pleased to welcome you to join us at 2024 Annual Summit-2024 and Panel-discussion on 29th of December.

With the aim of achieving a quality improvement and standard the Summit organizing committee has put an enormous effort. Today find the computer application expanded its presence in many sectors and emerging trends and cover both theory and practice in different fields. This is reflected in this program as projects on various application topics by USE (Codex-club) and UG students.

Only satisfied and reviewed by the reviewers and expert's the projects are selected and included in the proceedings. Thanks to the hard work of our reviewers and external referee. We thank all participants of CODEX-club, DCA batches and Faculty members for their interest and contribution. We are also grateful for the help of the members of technical committee and advisory committee.

We are also indebted to Indian School of Ethical Hacking (ISOEH, Kolkata), DreamTech Solutions Pvt. Ltd., Kolkata for their support for the event. Together we can help to grow and build the awareness and contribute to the society.

We wish all summit attendees a fruitful meeting with participants, friends and enthusiastic people. We hope you enjoy your presence in the summit and panel-discussion.



PINAKI CHAKRABORTY
Organizing Secretary (Summit'24)



Annual Summit- '24

Functional-Team Details *

Venue: "NabaDipti Sangha-Auditorium"; 5 No Serampore Colony, Rajyadharpore(S),
Serampore, Hooghly

Date: 29/12/2024 (Sunday)

Organizing team:

Organizing Secretary	→ Mr. P. Chakraborty
Convener	→ Mr. A. Majumder
Coordinator	→ Ms. P. Dey*
Assistant coordinator	→ Ms. R. Nath Ms. B. Gupta
Event controller	→ Mr. S. Malik Ms. A. Chakraborty
Event management	→ Mr. A. Das Mrs. M. Chakraborty Mrs. T. Majumder
Media/ photography	→ Ms. N. Saha; Mr. S. Sanyal
Members	→ Mr. L. Das, Ms. P. Dey, Ms. P. Ghosh

Technical team:

Organizing Secretary	→ Mr. A. Majumder
Convener	→ Mr. P. Chakraborty
Coordinator	→ Mr. S. Malik
Assistant coordinator	→ Ms. P. Dey*; Ms. R. Nath*; Mr. S. Sanyal*; Ms. B. Gupta*

Event-participating-Team	→ A) Code-Fiesta	(CODEX club & CODET'24 short listed)
	→ B) Green-team	(Green club & Awareness club)

Program Schedule of Summit 2024

	Time	Event (tentative*)	By
Date : 29/12/2024 Day : SUNDAY	1.30pm	Reporting	Org. Committee
	2.00pm	**Registration(COMPLETE)	Org. Committee
	3.00pm	Official Welcome	Convener
		Inauguration of Summit'24	Guests (Vedic chants and pradip lighting)
		Welcome speech:Tune the String	Org. Secretary
		Felicitation of the guests	Org. Secretary, Convener
		Views of guests	Guests
	3.30pm	Proceedings opening by Guests*	
	3.35pm	CERTIFICATION and Prize distribution	a) DCA-B1('22-'24)-CONVOCATION b) CODEX-Club-AWARD →(Code-fiesta)* c) Green-Club-AWARD →(Green-team)*
	3.50pm	Mandatory technical break	
	4.00pm	Panel Discussion	Topic : Digital Age and Privacy Host : Mr. P. Chakraborty On chair : (Panelists)** Confirmed panelist on-chair will be elaborate very shortly
	4.50pm	Vote of Thanks	By Org. Secretary
	5.00pm	Photo session	
	5.15pm	High Tea Session	

VENUE: Nabadipti Sangha Auditorium, 5 No. Serampore Colony, Rajyadharpore (S), Serampore

In association →



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COD_ID:2401J	Geometrical Parametric Calculator Sanhita Majumder, Souptik Saha, Bidisha Gupta	
COD_ID:2402J	Lunar Tide monitoring Rakesh Pal, Sourav Sanyal, Arnab Majumder	
COD_ID:2403S	Blood-Bank Service Availability Management Asif Ali, Sagar Das, Pritha Dey	
COD_ID:2404J	Unit Conversion Development Using VB Dhiraj Kayal, Rai Nath, Arnab Majumder	
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EVENTS THROUGHOUT THE SESSION 2024-25		
Club Activities	Green-Club; CODEX-club; CSAC-club (Cyber Security Awareness)	
Other Activities	Seminar, Workshops, Training , Saraswati Puja, Educational Tour	

Panel-discussion

Digital Age and Privacy



Mr. Sandip Sengupta *CEO, ISOEH (Kolkata)*

Dr. Anindya Santra, *Sarisha R.K. Mission Sikshamandir (H.S.)*

Dr. Anirban Ash, *Department of Zoology, University of Burdawan*

Mr. Goutam Ghosh, *Sergeant (Ex), IAF; Serviced for MIG, SUKHOI-MKI, A.T.C.*

Mr. Sujay Banerjee *Station Officer, HQFS, WBFES, W.B.*

Mr. Arindam Ghosal *CEO, Dreamtech Solutions Pvt. Ltd, Kolkata*

Topic Abstract

This is the era of tech. living and leading life, which is a reality. Again the security in all square format of our daily life is essential and somehow may be compromised or on the edge. In this context, in socio-personal level, professional level, national-security aspect, literature, educational and soft-power improvement level, privacy and assurance of that same is in under scanner.

SUMMIT-2024 is dedicated to catalyzing the exploration of cutting-edge discussion and view exchange with exploration of sustainable solutions on communication, data handling and multi-vernal security. It serves as a platform for scholars, practitioners, professionals and visionaries to share their latest theories, innovations, technologies, applications, and tools at the intersection of this issue.

The primary aim of SUMMIT-2024 is to foster strong collaboration between academia and industry by providing a platform for exploring exciting findings and unlocking transformative possibilities and awareness build up for the future.

CODEX-CLUB PROJECTS (JUNIOR AND SENIOR CATEGORY)

Abstracts

COD_ID:2401J

Geometrical Parametric Calculator

Sanhita Majumder, Souptik Saha, Bidisha Gupta,
Computronics, A Gateway to Computer World, CODEX-club

Abstract

Geometry is one of the most significant section of mathematic which is a very handy tool for mathematical analysis of 2D and 3D objects and shapes. It deals with different formulae as well as different way of approaches to resolve it . in this context those shapes have some parametric guides which helps to resolve the geometrical analysis and construction proper and scientific. To have those values or results we need to go through mathematical approaches. In this project to make a ‘geometrical calculator” among the different shapes only 2D (two dimensional) shapes are taken under considerations.

To make it feasible we have used Visual basic (VB) programming platform to find out the area, perimeter, radius, diameter of the 2D geometrical shapes. It is obvious we are working on the 3D shapes for our next work.

Keywords: 2D-shapes, Mathematical modeling, Visual Basic language (interfacing)

COD_ID:2402J

Lunar Tide monitoring

Rakesh Pal, Sourav Sanyal, Arnab Majumder

Abstract

Lunar-tide cyclic process is a natural phenomenon. We , specially the fishermen, water-traffic (ferry-sailors) are very much depends upon the details of the same for their professional requirements. In this project it has been tried to make an algorithm based approach to forecast river tide, ocean tide (S-E global part) which is driven by Moon’s gravitational force (most significant one of those influencing forces). To forecast the nearest future tide and details, we need to have an ample amount of supportive data (as database) on basis of which the outcomes of the algorithm we get from our approach; we can able to analyses the results and then forecast.

The complex process ensures and efficient operations of the naval personnel for their safe navigation. Through this project we can able to forecast upcoming 2-3 days tide time, fall time and its duration as well. We have used for this process Visual Basic (VB-6.0) as an interfacing platform. We are still working on it to improve/ future of the algorithm for further less-error forecasting on naval (Tidal) related issues.

Keywords: Lunar Tide, Tide fore casting, VB-6.0, Fore casting calendar

COD_ID:2403S

Blood-Bank Service Availability Management

Asif Ali, Sagar Das, Pritha Dey

Abstract

Applying optimization methods to healthcare management and logistics in a developing manner is very important as the population of the world is multiplying with each coming year. In present days blood bank storage is file based. The current blood bank management system relies on spread sheets, papers and files that are arranged in alphabetical or numerical order to store data and information related to the donors and recipients.

An online blood bank system can be useful to every person in need as the best way to get information about the availability of different blood group stocks. The goal of this project is to propose a frame work to nullify the frenzy made during crisis due to inaccessibility of blood and track down the required measure of blood from nearest blood banks. We have used to process the algorithm by PHP,

Keywords: Blood bank database, data management, availability matrix, PHP, HTML-CSS

COD_ID:2404J

Unit Conversion Development Using VB

Dhiraj Kayal, Rai Nath, Arnab Majumder

Abstract

Every physical parameter is needed to be measured and that purpose, dimensions are available. In physical science and scientific calculations, dimensions are to be measured by means of CGS, SI and FPS procedure. Distance (L), Mass (M) and Time (T) has been measured in terms of meter, Kg and second respectively by SI unit system.

In this project approach we have formed such an algorithm which will not only convert the inter dimensional unit changes also capable to develop further compound units on the basis of those unit(s). By means, we can easily calculate and show what will be the changes after giving any value and corresponding conversions of that data in to that parametric-dimension. Using this algorithm and application interface developed by Visual Basic (VB-6.0) it enables accurate conversion from Km to m. and mm. ; again kg to gram to mg ; from seconds to ms and micro sec.

For future development, we are working on to make the compound dimension conversions of parameters like velocity, acceleration, weight, torque, tension etc.

Keywords: Unit conversion, linear step, single platform, VB

COD_ID:2405S

Location Detail-info System

Bhumi Das, Pritha Dey, Arnab Majumder

Abstract

The location monitoring (here means availing the related information on the navigated/given name of the area looking for) helps to have a glimpse about the location (latitude, longitude), its nearest city, population, average weather, nearest significant spots list etc. It is obvious that our algorithm is based on predefined database and not on the basis of GPS navigation (dynamic) system.

In this approach, we are trying to have a glimpse or pre-visit note book of given name of the area (note: that database is in a continuous updating) to navigate the information we take the PHP as back-end database development and HTML-CSS for the front end user portal. Our algorithm is based on interactive type and end of navigation/filtering criterion it will provide whole-sum information on the search/navigated location. We are working on the comparative details among two or three locations to develop a route-map among them to manifest its expansion of coverage of information in a nutshell.

Keywords: location coordinate, database, standard time, local time, PHP, HTML-CSS

DCA-B2-G1

Plant Growth Monitoring System Algorithm

Anyatama Chakraborty, Arnab Majumder

Abstract

This project is focused on monitoring the growth conditions of a sapling/ plant under different factors of influencing as manure utilization, watering, weather effects (humidity and sunlight) by use of IoT interfacing data through an algorithm. This algorithm has been designed on such context that it can predict/ assume to growth rate in different data inputs. To monitoring the data variation reveals the 'plant growth'. The data's being monitored / collected from other means of available from standard-IoT module and different weather condition throughout the seasons. Finally plotted in graphical analysis technique by which it can be predicted the health of the under observation plant(s).

This project deals with authenticated data base from reputed open source(s) and put into developed algorithm to get the analyzed data and then discusses how to use plant monitoring algorithm for growth in different conditions. To develop this we used an interfacing platform with the SQL, Python.

Keywords: Growth Monitoring, IoT interfacing database, SQL, Python, analysis

DCA-B2-G2

Wire- House Keeping System

Gourav Malik, Sourov Malik

Abstract

Housekeeping is an important part of equipment, goods, material handling in professional process. in this context we have considered such a model which is capable to not only handling the different types of goods it also capable to distinguish the material or goods in the very initial stage of receiving.

In this approach of material handling or wire-house keeping system we have considered not only the type or name of the item also considered the weight and dimension and Fragility-index (breakable: most, medium and hard). Those wire-house algorithms also have the provision of spot-allotment facilities for well-keeping and easily locating features. This whole process can be done specified and logic based controller and authenticating capabilities in terms of security and avoidance of vulnerability.

To shape this project we have used SQL, PHP and HTML-CSS.

Keywords: Material handling, logic buildup, process line up and matrix, Queries-array

DCA-B2-G3

Historical e-dictionary

Neha Das, Bidisha Gupta, Sourov Malik

Abstract

This project aims to develop a comprehensive historical e-dictionary that documents and contextualizes significant terms, phrases from various historical periods. By providing definitions, etymological insights and contextual examples, the dictionary will serve as a vital resource for students, researchers, and history enthusiasts.

The project will cover a broad spectrum of time, from ancient civilizations to modern times, ensuring an inclusive representation of language evolution.

The e-dictionary will feature user-friendly navigation, robust search capabilities and cross-referencing of related terms to enhance the learning experience. Visual elements, such as historical images and artifacts, will complement text entries, offering users a richer understanding of the cultural and societal contexts in which these words were used.

The proposed scheme for a 'Historical e-dictionary' project that outlines with the interfacing tools like PHP, HTML-CSS

Keywords: Lexicography, Digital Archiving, PHP, HTML-CSS

DCA-B2-G4

Student Database Portal (Academia)

Sayani Paul, Sourov Malik

Abstract

Student database is and its handling related to different issues and queries are common features of it. In this project we are headed to counter the problem by using HTML-CSS based interactive portal to make the SDP (Student Database Portal) more convenient to the user prospective.

Different types of data related to their “Personal info”, “Academic info” and “At a glance/ over view” are been classified in the very initial part of the portal. Again, the user can only be able to reach/fetch the academia-information by using their allotted and specific user-ID and Password for validating the authentication and data security.

In this project, the user can able to find out his/her progress profile in data-table form / can be through any other available spread-sheet software (eg. MS-EXCEL etc.). Through our project algorithm and approach we have tried to develop such an interactive portal which can not only give the answer to quires but also can able to have the analyzed features to the user. We are also tried to add the user’s photo-ID and corresponding bio-ID (without using any hardware/ IoT).

Keywords: Academia-Management, MY-SQL, HTML, PHP, CSS

DCA-B1-G1

Weather Analyzing and Prediction (WAP) by Dynamic Portal

Pritha Dey, Sourov Malik, Arnab Majumder

Abstract

Climate change is a consequential phenomenon of local weather changes again which are depends upon changes of different climatic and geographical control-parameters. Those parameters are needed to be analyzed, monitored and carefully observed to fulfill the purpose of future prediction, forecasting and related issues.

In this project, we have gathered the different concerned data from public and govt. domain (open sources) and proposed a XML-PHP based scheme to generate a comparative study on the basis of user-chosen parametric options. Near future we are going to develop and upgrade our scheme of “Proposed-Model” and area of function on the basis of data handling and reliable manifestation.

Keywords—Weather analysis, Optimal tendency forecast, HTML, PHP, SQL predictive measure

EVENTS THROUGHOUT THE SESSION 2024-25

Club activities:::

CODEX-club activities



CODET'24-aspirants



Plant-distribution (Green-club activities)



Organizing-team



The gifts (responsibilities)

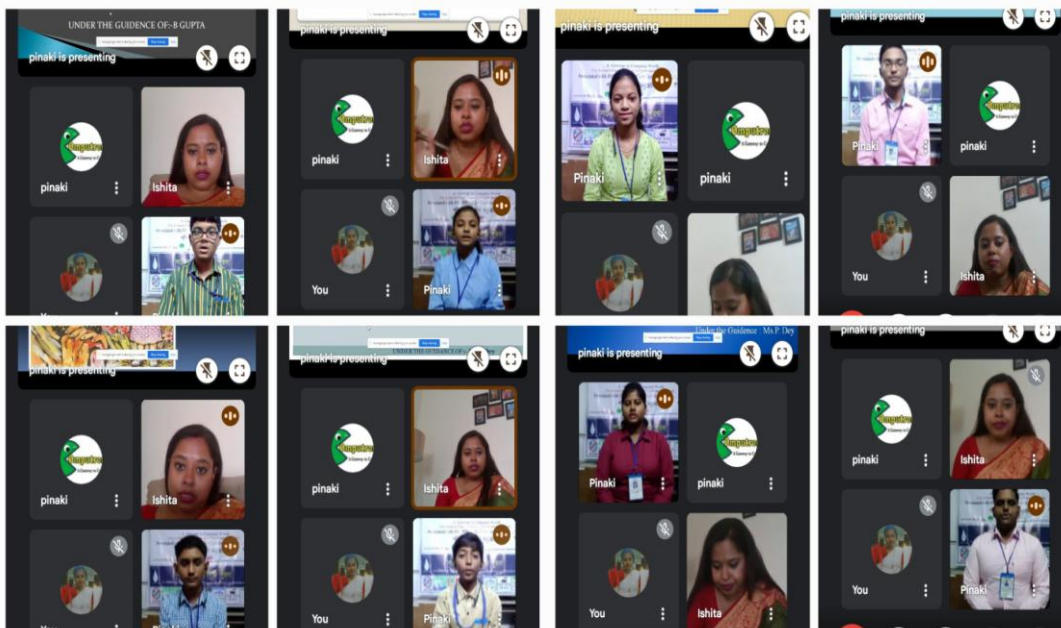
Draw and Design Competition 2024 (Green-Club activities)



←Participants



Organizing Team →



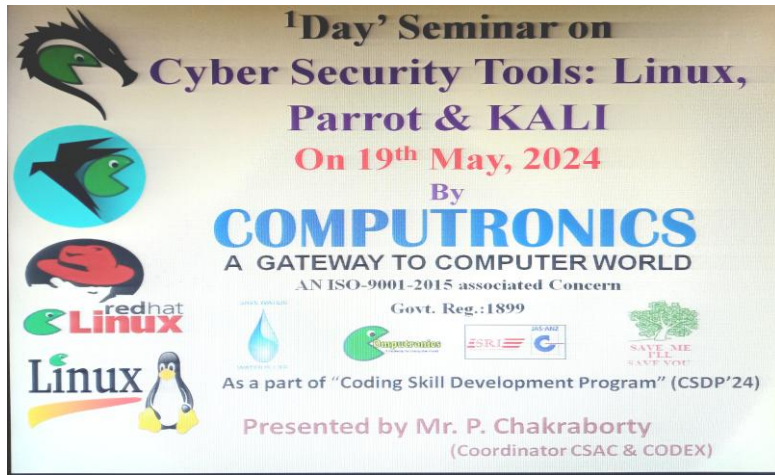
←Skill development program (PSDP25*)
[*Pre-final]



Awareness Development Club (Social & Self) →



Seminar, Workshops



← Seminar co organized by Cyber Security Awareness Club (CSAC) and CODEX-club, 19th May '24



← Data Protection and Privacy: Challenges and Solutions, Panel Discussion, Org. by ISACA, Kolkata chapter, 09th March, 2024



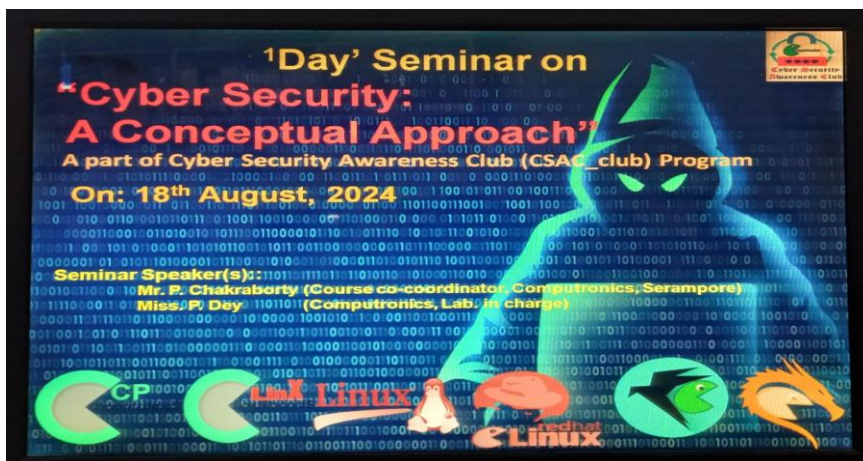
Training



←QIP- '24



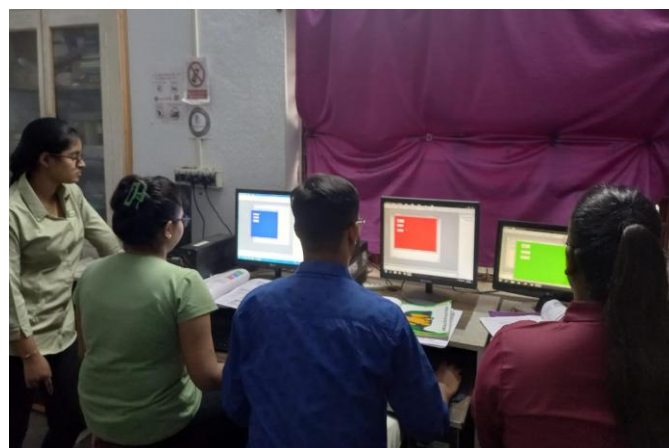
TRAINING on Cyber Security module from ISOEH, Kolkata), 08th June to 06th July, 2024



←Seminar, Organized by Cyber Security Awareness Club (CSAC-Club)



'1Day' Hand on Work Shop: "VB 6.0 and Operational Approach"; 21th July, 2024 ↓



← *'1Day Hands on Work Shop on "PYTHON & Operational Approach"; 12th May, 2024*



Bi-Annual Convocation (BEACON'24)



← Website Launching By
Hon. Mr. S. Sengupta, CEO,
ISOEH, Kolkata

Publication of Bi-Annual News-Bulletin
by dignitaries on BEACON'24 →



← Felicitation of Especially able
child-dancing group



The Beacon –Team ↓

Saraswati Puja-2024



Educational Tour-24 (ECO-Park & Alipore Jail Museum, Kolkata), December '24



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