

Department of Botany
St. Anthony's college, Shillong

A report on World Environment Day celebration on 5th June, 2022

Department of Botany, in collaboration with Botany club of the college, celebrated the World Environment Day, 2022 on 5th June, Sunday, at the college Botanical Garden. Due to ongoing NEHU undergraduate final examinations, most of the students of the department and the college could not attend the programme. However, faculty members of the department and staff from various departments of the college attended the programme. Additional Principal Chief Conservator of Forest (APCCF) of Government of Meghalaya, Shri B. K. Reddy was the chief guest for the programme. The programme began at 11.30 am in the college Botanical Garden with a brief welcome address by Dr. C.S. Rao, Head, department of Botany, St. Anthony's college. This was followed by presentation of saplings to the chief guest by students of the department. After this, Shri Reddy delivered a brief and informative speech. In his speech, Shri Reddy highlighted the importance of plants and forests in maintaining a balanced and healthy ecosystem. He also thanked the department for the small but significant initiative and encouraged to have more programme like that which would have a great impact on the environment in the long run. After this, Shri Reddy and other faculty members together with students present in the event planted a few saplings in the college botanical garden. The saplings planted were *Toona ciliata*, *Exbucklandia populnea*, *Alnus nepalensis* and *Pinus wallichiana*. After the plantation programme, light refreshment was provided to the guests. The programme ended with vote of thanks form the organizers.



Prof. D. Bokolial

Dr. W. Langtang

Programme Coordinators







REPORT ON INDIGENOUS DELICACIES FOOD FEST PRESENTED BY THE CYBER CLUB, ST. ANTHONY'S COLLEGE, SHILLONG

CELEBRATING 50 YEARS OF STATEHOOD CUM 25th ANNIVERSARY CELEBRATION OF THE CYBER CLUB


MINUTES OF THE MEETING FOR INDIGENOUS DELICACIES FOOD FEST

Dated: 7th April 2022

Time: 9:20 AM

Venue: Hall 46

Members Present:

Sl. No	Name	Signature
Teachers in Charge		
1	Prof. Kesterlee. L. Syiemiong	
2	Prof. Aiusha V Hujon	
3	Prof. Toba Lamare	
4	Prof. Probidita Roychoudhury	
5	Prof. Ibanroilin Nongrum	
6	Prof. Lemuel Rapsuk	
Students in Charge		
7	Kundan Jha	
8	Vicky Vaiphei	
9	Danville C Lyngdoh	
10	Larry Mark Lamin	
11	Kh Bansikha Singha	

Agenda: To decide on the preparation and organizing of the Indigenous Delicacies Food Fest

1. It was decided that the Event will be held on **22nd April 2022 at 12: 00 Noon at Hall 45 and the Basket Ball Courts.**
2. Hall 45 will be used by for the display of the Food Items by the participants who are competing in the Event.
3. The Basket Ball Courts will be utilized by the participants who are selling the Food Items and for the Games.
4. Publicity of the Event: Designing and printing of the Poster for the event will be handled by the Student-in-charge and to be forwarded to the Principal's Office for approval. Certificates also will be designed and sent for printing by the Student-in-charge.
5. It was decided that the last date for accepting registration by participants to be **12th April 2022.**
6. It was decided that :
 - a. There will be four categories for Food Display: **Platter, Snack, Beverages and Fusion.**
 - b. All participants can participate either as a team or individual. Each Team/Individual can compete in only one category.
 - c. Participants can choose to either compete/sell or to compete and sell.
 - d. Participants who are competing can only present a local item i.e. (Khasi/Jaintia/Garo) or a fusion of any Dish with a Local Item.



INDIGENOUS DELICACIES FOOD FEST

PRESENTED BY

"THE CYBER CLUB"

ST ANTHONY'S COLLEGE, SHILLONG



Indigenous Delicacies

EXPLORE OUR TRADITIONAL CUISINE
AND INDULGE YOUR TASTE BUDS
TO A WIDE RANGE OF LOCAL DELICACIES



22 APRIL 2022

CELEBRATING 50 YEARS OF STATEHOOD CUM 25TH ANNIVERSARY
CELEBRATION OF THE CYBER CLUB

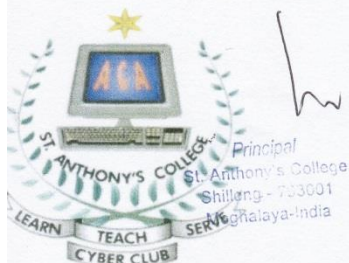
Indigenous Delicacies

EXPLORE OUR TRADITIONAL CUISINE
AND INDULGE YOUR TASTE BUDS
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INSTRUCTIONS

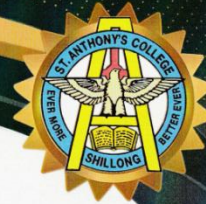
- × ALL STUDENTS CAN PARTICIPATE EITHER AS A TEAM OR INDIVIDUAL.
- × MAXIMUM OF 4 STUDENTS IS ALLOWED IN ONE TEAM.
- × PARTICIPANTS CAN CHOOSE TO EITHER COMPETE/SELL OR TO COMPETE AND SELL.
- × PARTICIPANTS WHO ARE COMPETING CAN ONLY PRESENT A LOCAL ITEM i. e (KHASI, JAINTIA, GARO) OR A FUSION OF ANY DISH WITH A LOCAL ITEM.
- × THERE WILL BE FOUR CATEGORIES "PLATTER, SNACKS, BEVERAGES AND FUSION".
- × EACH TEAM /INDIVIDUAL CAN COMPETE IN ONLY ONE CATEGORY.
- × THERE IS NO RESTRICTION OF ITEMS / CATEGORIES FOR THE SELLERS.
- × PRIZES WILL BE GIVEN TO THE WINNERS AS WELL AS PARTICIPATION CERTIFICATE.
- × PARTICIPANTS HAVE TO BRING THEIR OWN MATERIALS FOR THEIR NEEDS.
- × NO REGISTRATION FEE NEEDED.
- × DONATIONS OF A PART OF PROFITS BY TEAMS MADE TO THE CYBER CLUB WILL BE APPRECIATED.
- × REGISTRATION IS BASED ON "FIRST COME FIRST SERVE" BASIS.
- × LAST DATE OF REGISTRATION IS 12 APRIL 2022
- × PARTICIPANTS SHOULD REGISTER ON THE LINK OR SCAN THE QR CODE GIVEN BELOW. <https://forms.gle/hJbMtzshq2B7GHax7>



FOR MORE INFORMATION CONTACT/WHATSAPP : 6033096626 / 6009396026



ST. ANTHONY'S COLLEGE, SHILLONG



AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Khangupou Ngaomei (Team : Wasabi)

DEPARTMENT OF

Biochemistry

FOR

securing 3rd Prize .

In the "*Indigenous Delicacies Food Fest*" organised by "*Cyber Club*" on 22nd April 2022 to mark the celebration of 50 years of statehood and 25th anniversary of Cyber Club

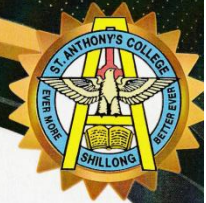
Dr. P. Roychoudhury
lead, Dept of Computer Science

Principal
St. Anthony's College
Shillong - 793001
Meghalaya-India

Rev. Br. Dr. Albert. L. Dkhar
Principal



ST. ANTHONY'S COLLEGE, SHILLONG



AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Josiah T. Panmei (Team : Wasabi)

DEPARTMENT OF

Biochemistry

FOR

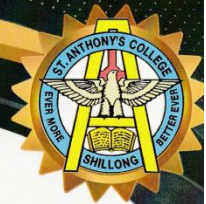
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AWARDS THIS

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Elizabeth Sohbar (Team: Wasabi)

DEPARTMENT OF

Biochemistry

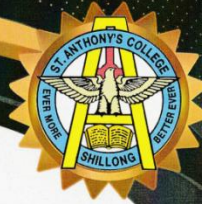
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Diya A. Sangma (Team: Wasabi)

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ST. ANTHONY'S COLLEGE, SHILLONG



AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Mebaker Nongspung (Team : Ki Mynnor)

DEPARTMENT OF

Philosophy

FOR

securing 2nd Prize

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ST. ANTHONY'S COLLEGE, SHILLONG



AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Jaikyrsoi Shisha Pathaw (Team : Ki Mynnor)

DEPARTMENT OF

Philosophy

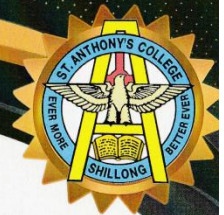
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ST. ANTHONY'S COLLEGE, SHILLONG

AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO


Daphishisha Lyngdoh (Team : Ki Mynnor)


DEPARTMENT OF

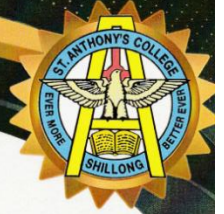
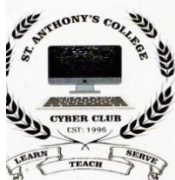
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AWARDS THIS

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OF ACHIEVEMENT TO


Lordilia Marboh (Team : Ki Mynnor)


DEPARTMENT OF

Philosophy
FOR

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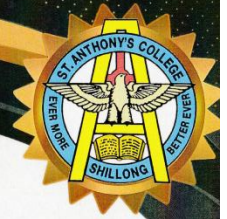
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AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Worshomi Kashung (Team: Khasiana)

DEPARTMENT OF

Biochemistry

FOR

securing 1st Prize

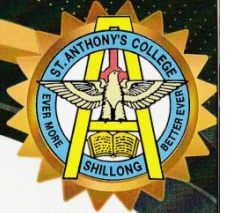
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AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

Wadaki Suchiang (Team: Khasiana)

DEPARTMENT OF

Biochemistry

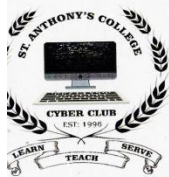
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AWARDS THIS

C E R T I F I C A T E

OF ACHIEVEMENT TO

TH Kim Zouzam Haokip (Team: Khasiana)

DEPARTMENT OF

Biochemistry

FOR

securing 1st Prize

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Head, Dept of Computer Science

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St. Anthony's College
Shillong - 793001
Rev. Br. Dr. Albert L. Dkhar
Principal

List of Participants who registered for the Event:

Indigineous Delicacies Food Fest Participants Information

Sl. No	Name Of Team	Name Of Members	Semes ter	Cou rse	Honours Subject	Compet e/Sell/C ompete and Sell	Categor y
1	Oh food!	Eddy Ripnar	4th	BSc	Mathematics	Compete and Sell	Fusion
		Selina Lana H. Blah	4th	BSc	Mathematics		
		Ambrozian L. Syiem	4th	BSc	Mathematics		
		Shimtilyne Wanswett	4th	BSc	Fishery Science		
2	Khasiana	Wadaki Suchiang	6th	BSc	Biochemistry	Compete and Sell	Fusion
		Worshomi Kashung	6th	BSc	Biochemistry		
		TH Kim Zouzam Haokip	6th	BSc	Biochemistry		
3	Wasabi	Josiah T. Panmei	6th	BSc	Biochemistry	Compete and Sell	Fusion

		Diya A. Sangma	6th	BSc	Biochemistry		
		Elizabeth Sohbar	6th	BSc	Biochemistry		
		Khangupou Ngaomei	6th	BSc	Biochemistry		
4	Arunachal ee foods	Taring Yanya	2nd	BA	Political Science	Compete and Sell	Fusion
		Techi Yasum	2nd	BA	History		
		Dikbi Raksap	2nd	BA	History		
		Nabam Jinam	2nd	BA	History		
5	MomoMia	Sneha Deb	2nd	BA	History	Sell	Snacks
		Bedisha	2nd	BA	History		
		Swaranika Ghosh	2nd	BSc	Zoology		
		Indraj Modak	4th	BA	Philoshophy		
6	CRA WINGS	Marina Hasan	4th	BA	English	Sell	Snacks
		Shayna Raza	4th	BA	English		
		Ailin Gogoi	4th	BA	English		
		Uma Sonar	4th	BA	English		
7	Akash Singh and Team	Akash Chand Singh	4th	BSc	Statistics	Sell	Platter
		Ayush Singh	4th	BSc	Computer Science		
		Anurag Thakur	4th	BSc	Statistics		
		Chandrashaker Rai	2nd	BSc	Statistics		
8	SUPERN OVA	Changsang Jakim	6th	BSc	Geology	Sell	Beverages
		Mau Mausum Bezbaruah	6th	BSc	Geology		
		Debeena Nongmaithem	6th	BSc	Geology		
9	Ghetto street food.	Russel Marbaniang	6th	BA	Philoshophy	Sell	Snacks
		Roimanstad Thabah	2nd	BA	History		
10	Ki Mynnor	Mebaker Nongspung	6th	BA	Philoshophy	Compete and Sell	Fusion
		laikyrsoi Shisha Pathaw	6th	BA	Philoshophy		
		Daphishisha Lyngdoh	6th	BA	Philoshophy		
		Cordilia Marboh	6th	BA	Philoshophy		
11	Quad	Deeksha Mishra	2nd	MSc	Biotechnology	Sell	Fusion
		Nikita Sharma	2nd	MSc	Biotechnology		
		Uma Bharti	2nd	MSc	Biotechnology		
		Aushinar Dastidar	2nd	MSc	Biotechnology		
12	MoCho Stall	Elamon Nongsiej	6th	BSc	Biochemistry	Sell	Snacks
		Dipika Boro	6th	BSc	Biochemistry		
		Banrisa Warjri	6th	BSc	Biochemistry		
13	Momochan weds Chowchan	Shabnam Begum	2nd	MCA	Computer Science	Sell	Snacks
		Ashmita Kanwar	2nd	MCA	Computer Science		

		Priyanka Daimary	2nd	MCA	Computer Science		
		Kushal Das	2nd	MCA	Computer Science		
14	Snack O Pedia	Aman Kumar Sing	2nd	MCA	Computer Science	Sell	Snacks and Beverages
		Dilip Kumar Sunar	2nd	MCA	Computer Science		
		Gaurav Bora	2nd	MCA	Computer Science		
		Gunjan Kumar Ray	2nd	MCA	Computer Science		

Judges Scoresheet:

INDIGENOUS DELICACIES FOOD FEST

Dated: 22nd April 2022

Celebrating 50 years of Statehood Cum 25th Anniversary Celebration of the
Cyber Club

JUDGES SCORE SHEET

Sl. No	Name Of Team	Theme (10)	Presentation (5)	Management/ Cleanliness (5)	Taste (10)	Total (30)
1	Oh food!					21.6
2	Khasiana			1 st Prize		24.6
3	Wasabi			3 rd Prize		22.3
4	Arunachalee Foods					21

5 Ki Mynmae 2nd Prize 23.6

Judges for the Event:

1. Prof. M.Brahma, Department of Physics
2. Prof. B. Syiem, Department of Statistics
3. Mr. Rudeen Kharlukhi , Chef, Wild Nectar Café, SAC





HVCQ+CV3, Bomfyle Road, Lachumiere, Shillong, Meghalaya 793001

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Long 91.88971889996454

22/04/2022 12:16 PM



HVCQ+CV3, Bomfyle Road, Lachumiere, Shillong, Meghalaya 793001

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INDIGENOUS DELICACIES
FOOD FEST
PRESENTED BY
THE CYBER CLUB
ST ANTHONY'S COLLEGE, SHILLONG

Indigenous Delicacies
EXPLORE AND INNOVATE TO A NEW CUISINE
22/04/2022

Khasiana

Jems:

- JEMBAH
- DAH SYAR NEI JONG!
- DAH JEM SYAR!
- POTHARO!
- SHINJU!

TROPICAL SUBTROPICAL PLANT OF THE GREAT MEGHALAYA WITH ITS MANY DELICIOUS SPICES MAKES IT A MUST TRY

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HVCQ+CV3, Bomfyle Road, Lachumiere, Shillong, Meghalaya 793001

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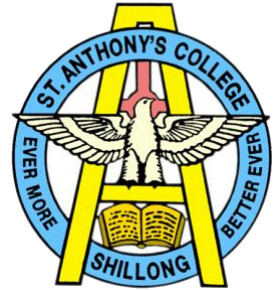
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CYBER CLUB

St Anthony's College, Shillong



Report

The students of B.Sc. Computer Science , 4th Semester also Members of the Cyber Club took IT classes for the students of Catholic Women's Evening School, starting from the 21st of March 2022 to the 26th of March 2022.

COURSE NAME: INTRODUCTION TO IT

NO OF STUDENTS: 22

TIMINGS: 4:15 PM to 6:00 PM

VENUE: Lab 3, Computer Science Dept., St. Anthony's College, Shillong

TOPICS COVERED AND STUDENTS (TEACHERS) CONCERNED:

1. Typing Master – Danville C. Lyngdoh
2. Paint – Nakiwansaka Lyndem
3. MS Word – Priyanka Paul, Lovish Rana, Alok Kumar, Saidul Islam Laskar
4. PowerPoint – Rohan K. Neog, Rituraj Borah, Lamsonglal Albert Chongloi
5. Internet – Vivek Kumar

The students of evening school were taught about the above cited topics both theoretically and were given time to perform it practically. All the 4th Semester Computer Science students were present to help them during the practice.

DAY WISE SCHEDULE:

MONDAY: Basics of a computer system followed by *Typing Master*. They were also given time to practice typing.

TUESDAY: The students were taught how to use *Paint*. How to draw , colour, and make shapes and use the basic tools.

WEDNESDAY: *MS Word*, create and save files, basic text editing , changing fonts and colours, and using the other tools.

THURSDAY: *PowerPoint*, create and save files, creating a presentation, changing themes, and using the other tools.

FRIDAY: Practicals for *MS Word* and *PowerPoint*.

SATURDAY: *Internet*

A presentation about *Cyber Club* was also presented to the students by Vivek Kumar, 4th Semester, Computer Science Department.

On successful completion of the course the students were awarded with their *Course Certificates* by Fr. Joby Joseph Sdb, Phd.



ATTENDANCE OF THE STUDENTS:

SI No.	NAMES	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	Shemlang Shadap Manor	P	P	P	P	P	A
2	Threegirl Dkhar	P	P	P	P	P	P
3	Kyntiewlin lawren	P	P	P	P	P	P
4	Darniki Mery Diengdoh	P	P	P	P	P	P
5	Medalin Lyngkhoi	P	P	P	P	P	P
6	Jenita Majaw	P	P	P	P	P	P
7	Barina Marwein	P	P	P	P	P	P
8	Julina Khongkhlad	P	P	P	A	P	P
9	Jesmin Shadap	P	P	P	P	P	P
10	Jannaika Kharmalki	P	P	P	P	P	P
11	Anthony Banteilang Umsong	A	P	P	A	A	A
12	Ibakordor	P	P	P	P	P	P
13	Witiful	P	P	P	P	P	P
14	Embah Shylla	P	P	P	P	P	P
15	Ribika Dkhar	P	P	P	P	P	P
16	Badabianghun Thongni	P	P	P	P	P	P
17	Wandarihun Shisha Rani	P	P	P	P	P	P
18	Saphilabiang Shisha Kynta	P	P	P	P	P	P
19	Ridai Sayoo	P	P	P	P	P	P
20	Janti Khongsdam	A	A	A	P	P	A
21	Beautiful Mysong	P	A	P	P	P	P
22	Shanti Mary Dkhar	P	A	P	P	P	P











REPORT ON INTERNATIONAL DAY OF YOGA ST. ANTHONY'S COLLEGE, SHILLONG

In consonance with the International Day of Yoga (IDY) 2022-Reg. which was intimated vide Letter D.O.No.1-16/ 2021(website) dated 14th June, 2022, University Grants Commission (Ministry of Education, Govt. of India), the students and the teaching faculty of St. Anthony's College, Shillong, Meghalaya, celebrated International Day of Yoga, (IDY), in the Conference hall of the College, with great enthusiasm and active participation.

Prior to the observation of this Great Health Day, the students were briefed about the significance of Yoga in daily life. The students were also mentally enriched through classroom Sessions pertaining to meaning of Yoga, history of Yoga, types of yoga, role and functions of Yoga, the advantages of yoga et cetera.

Though initially, the event was planned to be held in the large basketball court, which lies



within the campus of the College, but the decision was differed and the event was held in the conference hall of the College, due to heavy downpour and incessant tempest, over the last few days.

The entire International Day of Yoga Celebration was taken up with the initiative of the Principal of the College, Dr. Bro. Albert Dkhar, with the participation of students and teachers from the Department of Education. And many could not be part of this Day of Celebration owing to ongoing End Semester University Examination. The

event was conducted from 8.30am to 10.30am.

The Resource person for this day was Mr. Dhananjay Chakraborti, one of the renowned young and dynamic Yoga Guru, with an experience of 25 years. He also teaches Yoga in various Yoga Centres in the pine city of Shillong. He also is a Yoga Instructor in Post Graduate Teacher Training College in Shillong. He has a Centre in Ramakrishna Mission and also other centres for yogic exercise in and around the city of Shillong. He also conducts Yoga Workshop for the welfare of Government Officials and he even extends his services in far flung villages of Khasi and Jaintia Hills, in Meghalaya. He even



reaches to Garo Hills once a year.

On this day, the Resource person Mr. Dhananjoy Chakraborti, was warmly welcomed by HOD and the Faculty of Education Department. The HOD, spoke on behalf of all present in welcoming him to be the Resource Person for this day. He also introduced the Resource person by citing his vast experience, his childhood love for yoga and his years of service to people, especially in Shillong.



Thereafter, Mr. Dhananjoy Chakraborti, took over the platform; and he briefed all present, about the usefulness and value of this ancient yoga practice, which our ancestors in India practiced to stay fit and healthy and young.

He began by inviting all of us to do warm up exercise, to relax our bodies and to continue other yogic exercises step by step. He led us all to do the breathing exercise. Prior to that he demonstrated to all of us. Then, he initiated to demonstrate the various poses of Yoga Asanas and citing their human health benefits:

The various yoga steps which were being held are:

- i) Yama
- ii) Niyama
- iii) Asana
- iv) Pranayama
- v) Pratyahara
- vi) Dharana
- vii) Dhyana
- viii) Samadhi
- ix) Adho Mukha Svanasana
- x) Tadasana
- xi) Virabhadrasana
- xii) Utthita Parvakonasana
- xiii) Utthita Trikonasana
- xiv) Uttanasana and scores of posture



In the process of demonstration, the resource person spoke about the health benefits of the various poses.



The participants performed Yoga poses like: breathing, Trikonasana, Kumbhakasana, Virabhadrasana, pose, Setu Bandha Sarvangasana(Bridge pose), Dolphin pose, Utkatasana pose, Badha Konasana, Paschimottanasana, savasanapose, etc.

He, towards the end also taught us to do meditation and for which he exhorted all to close all door of distractions, and source of worry and concern and told us to focus on just on one's breathing, feeling the fresh air coming in and being let out. Towards the end all were directed to lie down flat on one's back, with closed eyes, and were told to relax, which lasted around ten minutes and more.



Waking from this posture all looked though tired but relaxed, and fulfilled and happy.

Both the Teachers as well as the Student community cooperated in participating to observe the International Day of Yoga. The students greatly benefitted from this Celebration. In their interaction, aftermath the celebration, they expressed that we need to have Yoga at regular basis. They looked elated, though bit exhausted after the event, but they felt energized, and mentally happy.

At the end of the Celebration we felicitated the Resource person with an *Assamese Gamosa*, and a bouquet of fresh hill flowers. After which two of the faculties spoke in appreciation. One of the students also spoke appreciating the service of the Yoga Guru.

Seeing the jubilation, appreciation, and positive vibes emanating from the student community, the Department of Education have chalked out a Workshop for the entire community of Faculty and Students of the College in the new Semester to come.



The Department observed World Poetry Day on 21st March 2022, in the Conference Hall of the College. Prof. Vancouver Shullai took charge of the event in which as many as twenty eight young poets from different departments of the College read out their compositions.

Objective: To commemorate important literary events and to provide a viable platform for budding poets.

Outcome: The enthusiastic participation of aspiring poets was a testament to the popularity of poetry as an important genre in literature.



The Poets of the evening ✨ ...Like a poet, you've



THE DEPARTMENT OF ENGLISH
ST. ANTHONY'S COLLEGE

celebrating
World English Day

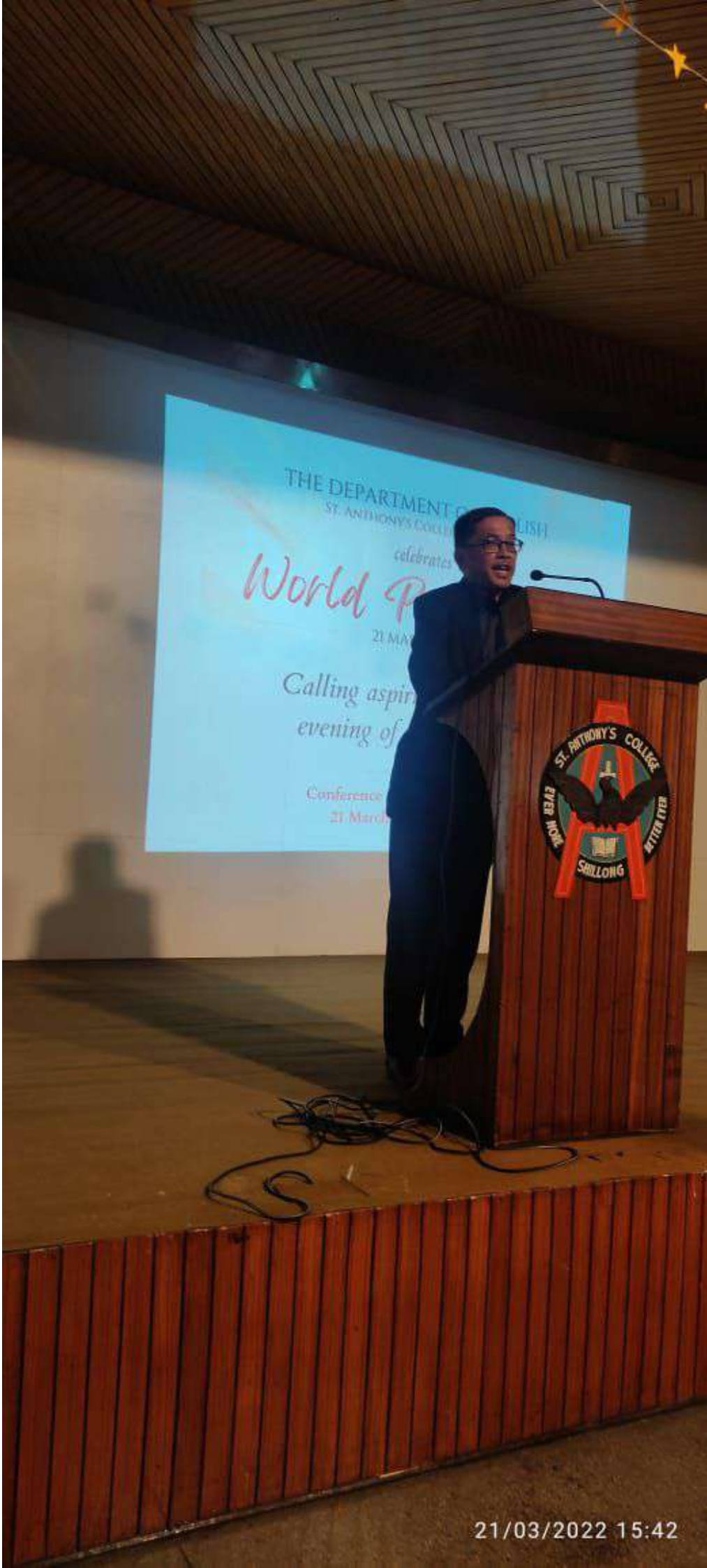
21 March 2022

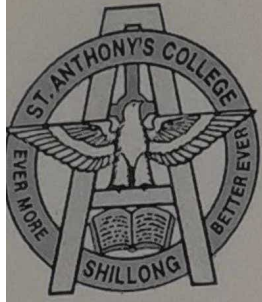
Calling aspirants for an evening of...

Conference Hall
21 March 2022







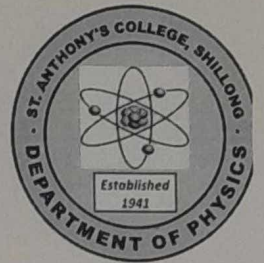


NATIONAL SCIENCE DAY

CELEBRATION - 2022

28th FEBRUARY, 2022

Organised by Department of Physics
St. Anthony's College, Shillong



This is to certify that Shri/Smti Paarkles J. L.
Lyngkhei, student of 2nd/4th/6th Semester,
Department of Physics, is judged as the
runner up in the online essay competition on Impact
of science in a pandemic world organised by the
Department of Physics, as a part of the celebration
of the National Science Day, 2022 held on the 28th of
February, 2022.

Simanta

Head
Deptt. of Physics
St. Anthony's College
Shillong.

Dr Simanta Chutia,
Head of the Department,
Department of Physics,
St. Anthony's College



NATIONAL SCIENCE DAY
CELEBRATION - 2022
28th FEBRUARY, 2022
Organised by Department of Physics
St. Anthony's College, Shillong



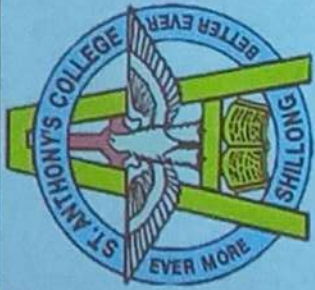
This is to certify that Shri/Smti Shatabdi Krishi
Bergochain, student of 2nd/4th/6th Semester,

Department of Biototechnology, St. Anthony's College, Shillong,
participated in Quiz competition organised by the Department of
Physics, as a part of the celebration of the National Science Day, 2022
on the 28th of February, 2022.

Simanta

Head
Deptt. of Physics
St. Anthony's College
Shillong.

Dr Simanta Chutia,
Head of the Department,
Department of Physics,
St. Anthony's College



CELEBRATION
NATIONAL SCIENCE DAY
28th February 2022



*Organized by the Department of Physics,
St. Anthony's College, Shillong.*

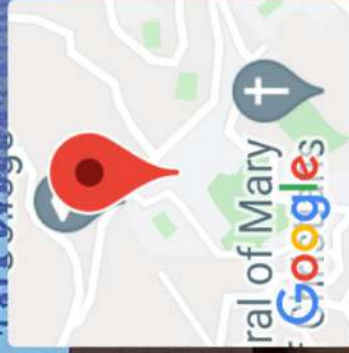
EVENTS

- ONLINE ESSAY WRITING COMPETITION
- VIDEO - PRESENTATION COMPETITION
- QUIZ COMPETITION
- TALK PRESENTATION
- TALE PROGRAM

Venue- Hall 9
Time- 9:30 am



GPS Map Camera



Shillong, Meghalaya, India

HVCQ+6XQ, Lachumiere, Shillong, Meghalaya 793001, India

Lat 25.570397°

Long 91.890075°

28/02/22 09:49 AM





GPS Map Camera

Shillong, Meghalaya, India

HVCQ+6XQ, Lachumiere, Shillong, Meghalaya 793001, India

Lat 25.570397°

Long 91.890075°

28/02/22 10:14 AM

The Impact of Science In a Pandemic World

- Pyntanampa K. Khonglah

“The Covid-19 pandemic has really **highlighted the value of science to society** and the potential of scientists to not only ‘discover things’ but to actually have **profound impacts** on our life.” – Professor Andrew Brooks, Deputy Director of the Peter Doherty Institute for Infection and Immunity.

With regards to infections, particularly viruses, there is a valid justification to stress over novelty. Throughout its history, humanity has had to grapple with diverse new diseases springing up seemingly out of the blue, fanning out like wildfire, and leaving scores of dead in their wake, for instance, such as the Bubonic plague and the Spanish flu among others. The present-day Coronavirus Pandemic is amongst the most challenging public health crises faced by the scientific and research community. A rapidly mutating, profoundly infectious virus spreading across international borders, bringing about global shutdowns. It required a period and asset delicate system analysis based on exact logical scientific research and advancement. However, even now there is a great deal we don't know about the novel coronavirus, currently called SARS-CoV-2, and its corresponding infection, COVID-19. Confronted with more crowded urban communities, and more international travels, scientists and researchers must respond to the danger of the pandemic quicker than any time in recent memory.

Fortunately, researchers today have considerably more proficient instruments at their disposal. Structural biology – the study of the structure and function of biological macromolecules – has made considerable progress since it was first utilized 30 years ago as the premise of a judicious (rather than experimentation) drug design. Current procedures, like automation and cryo-electron microscopy, imply that viral structures can be identified almost immediately in many cases.

Physics-based methods play a huge part in the field of structural biology. Thus far, most natural macromolecule structures are acquired by X-ray crystallography, dating back to 1934 when Bernal and Hodgkin recorded the first X-ray diffraction pattern of a crystallized protein, the digestive enzyme pepsin. Crystallization, utilized for pepsin, is helpful because it brings about the repetition of large quantities of particles in an ordered, 3D grid so that the entirety of their tiny signals reinforce one another and become discernible - by active pixel detectors. These signals are not images of the particles, rather, the signals are the mere total of the contributions of X-rays diffracted from various parts of the particle. To dissect these contributions, structural biologists depend on a numerical device - the Fourier transform. The determined contributions are then equated with conceivable atomic structures by a great deal of cautious (and now largely computer-driven) interpretation. Technological advancements such as these have prompted the early adoption of smart treatment plans, where researchers study the structure and function of molecules in order to devise the kind of drugs that might bind to them – and in the case of viruses, prevent them from replicating. The investigation of SARS-CoV-2 is a perfect representation of this sort of pipeline in real life.

India itself has not been trailing behind when it comes to scientific contributions to the pandemic. India is one of the largest producers of vaccines today, and even before the pandemic. Two of India's eminent vaccine manufacturers - Serum Institute of India and Bharat Biotech - are also two of the earliest producers of Covid-19 vaccines, Covishield and Covaxin respectively. These Indian vaccines have been jointly approved in over 60 countries.

A multitude of vaccine candidates are currently in various stages of clinical trials. The list reveals that more than half of the candidates are looking to generate immunity using the new coronavirus's spike protein, so it's important to study its structure correctly. The work of G.N. Ramachandran in the 1960s and his contribution to structural biology is noteworthy in this regard. His work has guided the design of protein-based vaccines and therapeutics for everyday life. Ramachandran used X-ray crystallography to study the biological structure of proteins. Based on his research on collagen proteins, Ramachandran, along with two other of his colleagues formulated the **Ramachandran plot**, a tool that would forever change the way biochemists studied molecules of interest and shed new light on complex biological processes. The Ramachandran plot, used to measure angles in proteins, provides a simple two-dimensional graphical representation of all possible protein structures in terms of torsion angles. The polypeptide conformations are determined by the values of phi (φ) and psi (ψ). Most regions of the Ramachandran plot represent sterically forbidden conformations of polypeptide chains due to steric collisions between the main and side chains. Thus, biochemists, can fast recognize feasible and unfeasible structures and use his work to intuitively compare known and unknown structures.

The Indian government has also enthusiastically promoted the "Make in India" program to encourage scientific organizations and business start-ups to develop the Covid-19 tests, masks, sanitizers, PPEs and ventilators. The accessibility of locally made testing kits has enabled the government to purchase these kits for as little as Rs. 50/piece when buying in bulk from manufacturers. Public authorities can now offer free RT-PCR tests to those who cannot afford them, and place a low-price cap on paid tests in private labs. The increase in the accessibility of COVID-19 tests enabled the country to carry out vigorous testing strategies that assisted public health professionals with concocting more effective policies to deal with the infection flare-up. This government and private sector coalition is thus a perfect recipe.

Every 100 years, the world is plagued with epidemics. Thus, it is inevitable that we will be hit by another deadly epidemic, and while epidemiologists don't know what sort of infection it will be, they truly do realize that it will not be the same as anything witnessed previously. It is, therefore, imperative to build connections in the scientific community and emphasize that fundamental research is the only best way to combat future epidemics. During this pandemic, we have seen how fast we can move by working together, the challenge is to keep that spirit up and better prepare for the next pandemic.

Impact of Science in a pandemic world

Parash Konjengbam

4th Semester, Department of Physics

It was the last week of February 2020 when everyone of us were busy giving the CBSE AISSCE and only three days were left to give the last subject. A deadly virus called Corona also known as Covid-19 was reported in China and it has started spreading all over the World. Schools, Colleges and other Educational Institutes were ask to closed by the government and everyone of us were send back to our homes for safety.

Science plays a very important role during this pandemic. The Covid-19 pandemic has demonstrated the value of digital technologies in an emergency. Filling up of application form for our colleges and even taking admissions were done through online mode from the comfort of our own homes. When there is science, pandemic cannot stop students from gaining knowledge. Classes are conducted online and the learning processes where totally depend on Technologies. Computers,

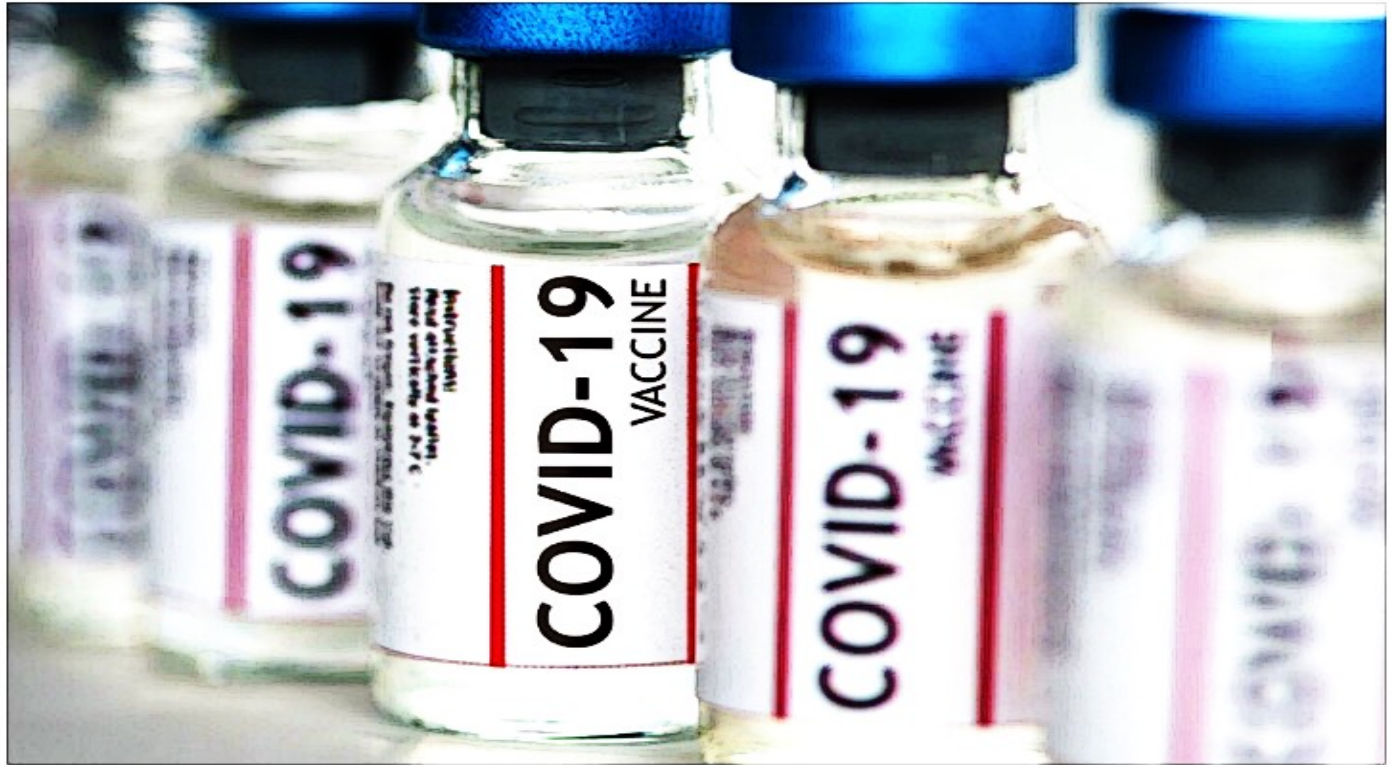
tablets, and smartphones have allowed students to remain connected to the classroom, albeit virtually. Many students have appreciated the less structured nature of remote learning and ability to work at their own pace and on their own terms.



These not only save students from the virus by going to crowded school/college but also didn't stop them from gaining knowledge.

The application of advanced information technology made epidemiological investigation much more efficient by rapidly identifying new and suspected cases and close contacts, ensured the safety and mobility of healthy people via digital tracking and increased the reliability of epidemic trend prediction through big data.

Doctors have studied about the virus and mentioned that this virus transmission from one individual to another can be suppress by wearing mask and saves life. Covid-19 patients are cared properly by the health



workers and save their lives.

Scientists have invented vaccines which can prevent us from COVID-19. Getting vaccinated against COVID-19 can lower our risk of getting and spreading the virus that causes COVID-19. Vaccines can also help prevent serious illness and death. The trust in science has increases from this pandemic by many people.

Through the COVID-19 epidemic, we have become more aware of the urgency of strengthening popular science and promoting

scientific culture throughout society. The epidemic has provided a focal point for in-depth nationwide popular science and health-care education. With the epidemic raging and lives at risk, the general public is more concerned about public health than ever before.

Sanitiser which is used to sanitise hand from microorganisms and germs is also made by multiple components of chemicals.

The tremendous power shown by science in our efforts to fight the pandemic reminds us that, in promoting scientific culture, we must believe in science, respect science, love science and hold science in high regard.

The COVID-19 pandemic has encouraged scientific innovations in areas of medicine and public health. Science and technology have played important roles in COVID-19 prevention and control.

Some benefits for patients of other diseases during of this pandemic, patients do not need to stand in a long queue in hospital anymore. They have to appoint with doctor ahead through ONLINE and they have to visit in the allotted timing without standing in the long queue and avoiding crowd in the hospital. Patients can now talk with the doctors from

their comfort of their own homes ONLINE through Video Conference and tell about their problems without visiting the hospital which is a good impact of technology during this pandemic.



Scientific professionals are enhancing their sense of responsibility, taking the lead in promoting the scientific spirit and be the practitioners, promoters and leaders in the construction of scientific culture. In the face of the rapid development of information

technology and social media, scientists should shoulder the responsibility of public science communication by abiding by scientific norms, speaking on the basis of solid knowledge and proven facts rather than half-baked ideas, spreading scientific knowledge, guiding public opinion and preventing the spread of pseudoscience while advancing epidemic prevention and control.

Without Science life during this pandemic would be really hard and everyone might have face a huge problem. By now the world might have extinct due to the Covid-19 Pandemic if there were no science in the world. We can't imagine our life without the doctors and technology who investigated, studied, research to save our lives from Pandemic. The number of dead due to covid might be uncountable if we do not have the idea of wearing mask and getting ourselves vaccinated. Doctors and Scientists are the real heroes during the pandemic and Science and Technology played a very big role during the pandemic.
