



# SJU NEWSBITES

A monthly newsletter of St. Joseph University, Nagaland

Volume IV | Issue No. 10 | April 2023

**THEME: "HEALTH FOR ALL"**

## World HEALTH DAY



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# EDITORIAL

Health in all its dimensions, entail not just the physical but also mental and social well-being, which we deem to be equally important and so it's a fundamental right to ensure that every citizen of the country should have access to comprehensive quality healthcare. It is a precious resource that must be protected and nurtured, and not taken for granted, and so, we must all aspire to champion this cause through collective efforts.

As we celebrate the World Health Day on 7th of April with the theme of "Health for All." Let us appreciate our bodies and minds and commit to making positive changes that will benefit us for years to come. As been rightly put by Sujata Pawar "A healthy lifestyle is a journey, not a destination" our concern should be pivoted towards health equity and drive change so as to build healthier and more equitable societies; cultivating a thriving and sustainable environment to address the issue of mental well-being which is an integral part of health; working together across sectors and borders addressing the underlying inequalities and systemic barriers that prevent many people from accessing essential health services. All these requires consistent effort, but the rewards are priceless.

So, on this world health day, we urge all to heed the clarion call for health equity and embark on a journey towards a healthier and more resilient world for everyone by fostering a culture of openness and support.

Also thanking all the readers and contributors for continuously supporting and encouraging the team in coming up with such beautiful monthly issues. Keep reading!

With love,  
Editorial Team  
Newsbites, SJU

Deoxyribonucleic acid (DNA) is a molecule that contains the genetic instructions used in the development and functioning of all known living organisms and some viruses. The main role of DNA molecules is to store the long-term information that is needed to construct and use the cells. Each cell contains a complete set of DNA, packaged into chromosomes. The DNA sequences that carry the genetic information are called genes, but other DNA sequences have regulatory purposes or are involved in supporting the use of the genetic information.

Chemically, DNA consists of repeating patterns of simple units called nucleotides. Each nucleotide is composed of a phosphate group, a deoxyribose sugar, and a nitrogenous base. The two strands of DNA are held together by hydrogen bonds between the nitrogenous bases. The sequence of these bases along the length of the DNA molecule encodes the genetic information. This information is read using the genetic code, which specifies the sequence of the amino acids within proteins. The code is read by copying stretches of DNA into the related molecule called mRNA, in a process called transcription.

Within cells, DNA is organized into long structures called chromosomes. These chromosomes are duplicated before cells divide, in a process called DNA replication. Eukaryotic organisms (animals, plants, fungi, and protists) store most of their DNA inside the cell nucleus and some of their DNA in organelles such as mitochondria or chloroplasts. In contrast, prokaryotes (bacteria and archaea) store their DNA only in the cytoplasm. Within the chromosomes, structural proteins such as histones compact and organize DNA. These compact structures, called nucleosomes, are the basic units of DNA packaging that can be seen when a portion of the DNA is transcribed.



## MESSAGE FROM DEPUTY REGISTRAR

*Dear Readers,*

Greetings to all on the occasion of the World Health Day.

Through this SJNEWSBITES, I like to reach you all with a sense of confidence that all consider health as important. It is good to recall that it was in 1948, countries of the world came together and founded World Health Organization (WHO) to promote health, keep the world safe and serve the vulnerable – so everyone, everywhere can attain the highest level of health and well-being. On 7 April 2023 – World Health Day – the World Health Organization observes its 75th anniversary. WHO's 75th anniversary year is an opportunity to look back at public health successes that have improved quality of life during the last seven decades. It is also an opportunity to motivate action to tackle the health challenges of today –and tomorrow.

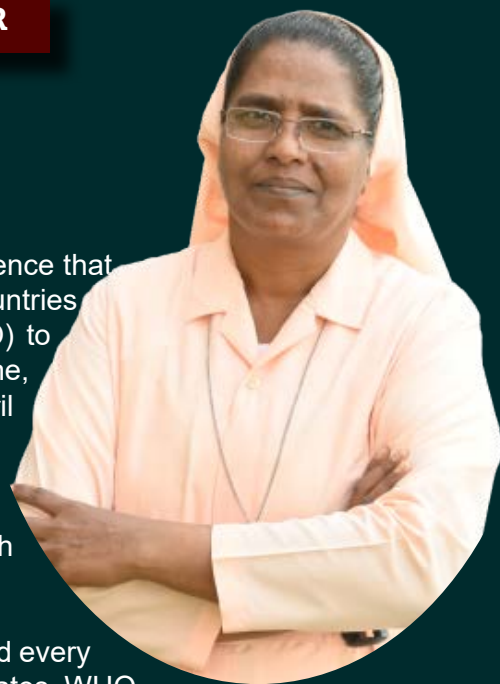
WHO's Constitution came into force on 7 April – a date now celebrated every year as World Health Day. Following the mandate established by Member States, WHO began its first two decades with a strong focus on mass campaigns against tuberculosis, malaria, yaws, syphilis, smallpox and leprosy. The achievements of WHO stand acclaimed. The recent pandemic experience was the sign of the strength of the international commitment to health lead by WHO.

The Status of India's Health Response can be described as firstly unprepared. The influenza A (H1N1) outbreaks since 2009 in Rajasthan, Maharashtra, Tamil Nadu and other States have acutely underscored the need for better detection, awareness of symptoms and quarantining. Covid-19 pandemic has also shaken the foundations of India's healthcare system. Secondly it is considered one of Low Expenditure. Health expenditure by the government in India is less than 1.35% of Gross Domestic Product, which is low for a middle-income country.

Thirdly it is the lack of availability of Health Professionals for service. There is one doctor for every 1,445 Indians as per the country's current population estimate of 135crore, which is lower than the World Health Organization (WHO) prescribed norm of one doctor for 1,000 people. Fourthly, the impact of Climate Change in India's health status is being worsened by climate shocks. According to the Climate Vulnerability Index, more than 80% of Indians live in climate vulnerable districts.

Besides this, it is to be noted that India stands at 66th position in the Global Multi-dimensional Poverty Index. It consists of the parameters like Health, Education and living standards. Coming to the multi-dimensional Poverty Index of Nagaland, it is evident that Nagaland has emerged as the 10th poorest state in India with 25.23% of its population classified as "multi-dimensionally poor", as per the Niti Aayog's first Multidimensional Poverty Index (MPI) report released on November 24, 2021.

All these indicate that the health for all remains still a dream. It is the responsibility of the present generation to make conscientious efforts in order to actualize the dream of making every society a progressive one with good health, education and well being for all. I wish you all every grace of God in your efforts for the health of the other.



Yours gratefully,  
Rev. Sr. Thianes Mary  
Deputy Registrar

## DEPARTMENT MEETINGS

<i>Chemistry:</i>	<i>12th April 2023</i>
<i>Commerce:</i>	<i>11th April 2023</i>
<i>English:</i>	<i>11th and 18th April 2023</i>
<i>History:</i>	<i>1st and 13th April 2023</i>
<i>JMC:</i>	<i>11th April 2023</i>
<i>Sociology:</i>	<i>18th April 2023</i>
<i>Political science:</i>	<i>17th and 28th April 2023</i>
<i>Psychology and Counselling:</i>	<i>5th, 11th and 19th April</i>
<i>Zoology:</i>	<i>11th and 18th April 2023</i>

## DEPARTMENTAL ACTIVITIES

### CIVIL ENGINEERING

The Department of Civil Engineering St. Joseph University organized the Second National Level Technical Symposium on 5th April, 2023. The programme started with invocation by Rev. Sr. Dr. Arockia Mary. The presidential address was delivered by Dr. D. Gnanadurai, Vice Chancellor, SJU addressing the journey of engineering, and civil engineering in particular, so far. Er. Imliwati Jamir, Honorary Secretary, IEI Nagaland State Centre enlightened the students about the privileges of being a part of IEI (Institute of Engineers) in conducting many technical activities. The Guest of honour, Er. Beto T Jimo encouraged the students to enjoy college life by effectively managing life and mentioned that ultimate goal is the quest for knowledge.

#### Parent's Teacher Meeting

The Department of Civil Engineering conducted Parents-Teachers Meeting for the First, Second and Third Year Students on 28th April 2023.



### DEPARTMENT OF CHEMISTRY

An instrumentation visit to NIT Nagaland was organized by the department of chemistry, St. Joseph university, on 05.04 2023. 49 students and 2 faculty members visited the Labs. The purpose of this visit was to increase their knowledge, facilitate the learning process and provide special experience for students. The students learned about the processing analysis of XRD, FTIR and UV instrumentation. The instrumentation Lab visit trip was arranged by Dr.K.Raja, Associate professor and also coordinated by Dr. U. Salethprabhakar, Assistant Professor of Chemistry.





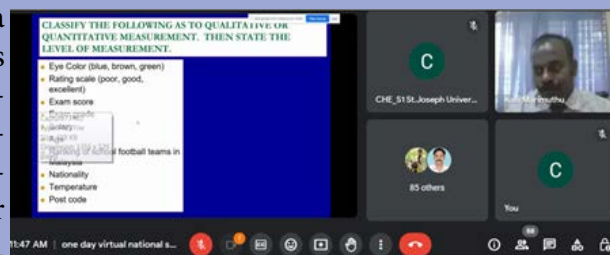
### One Day State Level Seminar

The Department of Chemistry in collaboration with Institutions Innovation Council, St. Joseph University conducted one day state level seminar on “1D Coordination polymer and its composites for catalytic applications towards organic transformations and dye degradation” on 17 April 2023. The programme resource person Dr. MERANMENLA Assistant Professor of Chemistry, Patkai Christian college (Autonomous) Chumoukedima. Nagaland, India, explained basic concepts of coordination with polymer compounds and she pointed out that the 1D material of coordination compounds and copper mental, triazole compounds using applications of photo degradation and analysis of FTIR and XPS data. The program was organized by Dr.K.Raja, Associate Professor of Chemistry, more than 80 participants attended the programme.



### Virtual One Day National Seminar

The Department of Chemistry of St. Joseph University conducted a One day Virtual National level seminar on “Application of Statistics in Research” on April 21th, 2023. The Resource person was Dr.K.Mari-muthu, Professor, Department of Environmental Science, Tezpur Central University, Tezpur, Assam, India. He explained the research statistics important terms used in statistics. The session began with a prayer by Sr. Arulmary, followed by a welcome address delivered by Dr. K. Raja, Associate Professor of Chemistry. The program was inaugurated by Dr. M. Arcokia doss, Associate Professor and Head, and Felicitation address was given by Dr. Kinitoli H Yeptho, Dean of Academics, St. Joseph University. The session concluded with a vote of thanks delivered by Dr. D. Rajaraman, Associate Professor of chemistry. Dr. K. Raja, Associate Professor of Chemistry, organized the event. Overall, 92 students and faculty were attended from national level.



### DEPARTMENT OF COMMERCE

**Skill Development Training and Career Guidance:** On 12th of April 2023 one day workshop on Skill Development Training & Career Guidance was organized by the Department of Commerce for the students and faculties of St. Joseph University and the resource person was Mr. Shamshad Alam, the Edunachal Pvt. Ltd., based in Arunachal. the key concepts of Shill development and career (how to crack government exams and preparation ideas regarding subjects) as well as current limitations of the theme.



### Field Visit to State Bank of India, Dimapur

A field visit to State Bank of India, Dimapur was made on 15th of April 2023, with UG- II Semester students. The objective of the visit was to educate and to know about the financial services provided by the banks, how to open the bank account, types of Bank account, knowledge regarding cheque and banking with the era of digitalization.

### EDUCATION

**Training on Economic/Earning skills at 'Wondering Minds Institute of Fine Arts':** As part of the Skill Enhancement Course, PG 2nd semester students of the Department of Education, St Joseph University along with Fr. Dr. Sunny, Professor and Ms. Aorenla M. Jamir, Asst. Professor, visited Wondering Minds Institute of Fine Arts at Midland Dimapur, Nagaland on 28-04-2023. The objectives of the programmed were to learn the economic and earning skills in life. The students were divided into two groups i.e, Sculpture and Calligraphy group. On the arrival at the venue, the students were welcomed by the Head In Charge of the institution Sir Lanu Longkumer and his student Mr. Yemli. Sir Lanu Longkumer instructed and guided the student in sculpture and Sir Yanger guided the calligraphy group.





**Outreach Programme:** As part of Outreach Programmed, PG 2nd Semester of the Department of Education, St Joseph University, Chumoukedima visited the children home run by the "International Neighborhood Service Society" on 29 April 2023 with a view of developing empathetic skills looking beyond the needy children and to encourage them to come up with their new way of life. Mr Victor the Administrator of the Campus briefed the team on the general behavioural guidelines. Rev Daniel, the founder of the Ministry invited all to confirm with the call of God. Fr Sunny, Professor Department of Education invited all through a story to invest in life with ideas. The Neighborhood children home was started in 1995 lead by Rev Daniel Shayan. There are 36 children under his guidance. The Outreach programme was organized by Miss Aorenla M Jamir, Assistant Professor, Department of Education.



## DEPARTMENT OF ENGLISH

**Outreach Programme:** As a part of the outreach Program, The MA II Sem Students of Department of English alongwith Dr. Sunanda, HOD and Dr. Alemmenla, Assistant Professor Department of English, St. Joseph University visited The Angel Home: Centre for Person with Disabilities, Signal Basti on 25th of April, 2023. The main motive behind this outreach program was to spend quality time with the children and understand them more through the interactive sessions which included songs, group dance and games. The Children of the home also showcased their talents through their songs and group dance. MA students of English Department also gifted the children various gifts as a token of love and gratitude. The Sekhose family and the Rutasa family donated few amounts for the cause and later handed over to Sr. Aruna of the Children Home. Thus, altogether it was a productive day, breaking the barriers to integrate, to love and be loved.



**One-Day Seminar:** The English Department of St. Joseph University in Collaboration with Institution's Innovation Council organised a one day seminar on "Fully-Alive Future Lectures : Create A Brave New World" on May 2nd, 2023 in SJU Auditorium Hall. The seminar focused on different scopes of various professions. The program started at 10:00 am with the welcome address by Assistant Professor and Coordinator of IIC Betina Vashi. The guest speakers of the Seminar were Ajit Kumar(Content Entrepreneur, Batch of 2018), Kekhriesenuo Kiewhuo ( Reporter, Hornbill TV, Batch of 2017) and Kheito Assumi (Artist, K-drama and C-drama OST, Batch of 2017).



**Parents Teacher Meeting:** The Department of English conducted the Parents-Teacher Meeting for MA 2nd Semester on 20th April, 2023 at 9:30am in room no. 1316. Dr Selvin gave an introduction on the importance of the meeting and how regularly this meeting is conducted to highlight student's progress with the parents. Dr Sunanda highlighted on the how exams are conducted and on the leave policy of the university. Mr Vikholu made the parents aware of the importance of discipline and how actions are being taken if students are found not abiding by the rules.





## DEPARTMENT OF HISTORY



**Aoleang and Monyu Festival :** The Department of History, SJU has celebrated the Aoleang and Monyu festivals of both the Konyak and Phom Naga tribes respectively on 3rd of April 2023 at 12:25 pm (Lunch break) where the students of PG IV semester took the initiative in arranging the feast with traditional cuisine. These festivals, Aoleang of the Konyak tribe and Monyu of the Phom tribe is celebrated by the people to indicate the arrival of spring and to invoke God's blessing to have a bountiful harvest. The teaching faculty along with 55 students participated in the feast.

### Paper presentation:

The Research Forum, Department of History, St Joseph University, conducted a two -day paper presentation on 10th and 11th of April 2023 for both PG and UG Final Year students, where some students were given the opportunity to present their research works. The best presenter awards were given to Mr.Hutuzo Lohe (PG) and Mr. Te-yeang (UG).The two day event was successfully conducted by the department.



### Poster Competition:

To commemorate Earth Day, Depart-

ment of History, in collaboration with Institution's Innovation Council, St. Joseph University, Nagaland, organized a poster competition on the theme, "Invest in our Planet". Dr. Lanuchila Changkiri emphasized the significance of Earth Day and the reasons why it is observed worldwide. The first, second, and third places were awarded to Ms. Alovi H. Chophy UG II, Mr. Itsato Aye UG IV, and Ms. Keneiseu Zumvu PG II respectively. The judges were Dr. Maria Lalmuankimi (Asst.Professor, Department of JMC), Mr. Hokato Awomi and Ms. Shinatoli Shohe(Asst.Professors, Department of History). Along with the faculty, 50 students attended the program.



### 2nd Dynamic Fusion

The Department of History, St. Joseph University had conducted its 2nd Dynamic Fusion on 4th of April, 2023 at SJU Auditorium, on the theme 'Ameliorating skills and personality'. Mareya Marak (PG II) hosted the formal session. Dr. Avinuo Chupuo, HoD, Dept. of History gave the welcome address and shared that the objective of the event is to recognize the talents of the students and to develop their skills and personality. The students participated in debate, singing, dancing, and various indoor games. The coordinator was Mr. Hokato Sumi, Assistant professor, Dept. of History, SJU. The Informal session was hosted by Tolu (UG IV) and Illo Jimomi (PG II), vote of thanks was said by Rachel Odyuo (PG IV). Around 260 students attended the event.

### Field Trip:

The Department of History, St. Joseph University, Nagaland, conducted a field trip on 28th April 2023 to Guwahati in order to fulfill the requirements of its PG II semester course. The places visited were Assam State Museum, Guwahati War Memorial, Gandhi Mandap, Kamakhya temple, and Jagannath Temple. The aim of the department is to encourage students to learn and share their life experiences in order to preserve traditions and spread knowledge. Dr. Lanuchila Changkiri, Mrs. Mhonlumi L. Tungoe, and Mr. Hokato Sumi, Assistant Professors in the Department of History at SJU, oversaw its execution.

## DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

**Training on SPSS:** The Research Forum of Journalism and Mass Communication Department conducted an Interaction cum Hands-on training programme on the usage of SPSS (Statistical Package for the Social Sciences) on April 21, 2023, Friday at JMC Electronic Lab. Associate Professor Dr. S .Stalin Panneer Selvam of Commerce Department, St. Joseph University, Nagaland attended the programme as a resource person. The 2 session programme started at 10.30 am and after a break continued till 12.30 pm. In the first session, Dr. Selvam explained the concept, importance and issues related to SPSS software, while in the second session he demonstrated the actual application(hands-on) of the software.



## DEPARTMENT OF MANAGEMENT

**Seminar:** On 25th April, 2023, the Department of Management, St. Joseph University and Institution's Innovation Council (IIC) has jointly conducted the seminar on Start-Up Finance. The speaker for the seminar was Miss Vikeduonuo Zumvu. The purpose of the seminar was to equip the students how to finance in their initial start-up. The students learnt about the sources of finance for funding new business such as equity funds, debt finance and angel investors and various government schemes available for the potential start-up. The speaker taught the students the detailed requirements for new start-ups and the methods of how to approach a pitch presentation to the potential investors. The program was chaired by Miss Livikali Yeptho.

**International Seminar:** On 26th April, 2023, the Department of Management, St. Joseph University and Institution's Innovation Council (IIC) has conducted a combined International Seminar on Prospect of Creative Economy in Thailand and Nagaland. The speaker for the seminar was Dr. Wipawee Panjinda, Faculty of Fine Arts, Chiang Mai University Thailand. Dr. Elangbam Haridev Singh, Head of Department of Management elaborated on the prospect of creative 30 economy. He emphasized on the abundant availability of natural resources, the skills and talents the Naga people have. He mentioned that the scope of creative economy is very high and encouraged the students to participate in it.

## DEPARTMENT OF PHYSICS



**Two-Day National Workshop:** The Department of Physics at St. Joseph University, in collaboration with the National Institute of Technology, organized a Material Characterization and Techniques Workshop on 20th-21st April 2023. The workshop witnessed 70 participants. The workshop began with the presence of Sr. Dr. I. Arockia Mary, followed by Dr. R. Amaravel, Convenor of MCT-2023 and Head of the Department of Physics, who welcomed the delegates and gave the welcome address. The inaugural function was graced by the Chief Guest, Dr. D. Gnanadurai, Vice-Chancellor, who shared a deep insight into the role of characterization techniques in his inaugural address. The keynote address was given by Dr. K. Sethupathy, Registrar. The inau-

gural session was concluded with a benediction from Fr. L. Anish PRO. The first talk was a lecture by Dr. Paul Ravindran, Chief Medical Physicist, CIHSR, on Instrumentation in Radiation Dosimetry. The second session was a lecture by Dr. Jyoti Prasad Borah, Associate Professor at NIT, on Magnetic Nanoparticles for biomedical applications. The second day of the workshop, 21st April 2023, was held at NIT.

## DEPARTMENT OF POLITICAL SCIENCE



### POL-FIESTA, 2023:

The first Pol-Fiesta, organised by the Political Science Association of the Department of Political Science, St. Joseph University, Chumoukedima was held on the 11th and 12th of April, 2023. The festival, based on the theme "Youth and Politics", comprised of competitions in literary and non-literary activities in consonance with the main theme. The objective of Pol-Fiesta was to encourage and enhance the talents of the students in the department. The Fiesta commenced with a formal programme with G.B. KahutoChishi Sumi (Social activist, Convenor, Concerned People of Nagaland and Gaonbura of Hevishe Village), as the Guest of Honour who spoke on the theme. More than 500 students participated in the event. Competitions were held on the following events in the two days: Quiz, Debate, Dance, Chess, Ludo, Scavenger Hunt, Runway etc.

### Human Security Talk:



Political Science Department, St. Joseph University, Chumoukedima, with the intention of emphasising and thereby enhancing the seven dimensions of human security in Nagaland setting, hosted the first edition of the Human Security Talk under the co-ordination of Dr. Somingam Mawon and Mr. K Tohuto, on April 19, 2023. Dr. Sedevi Angami, Director of the Christian Institute of Health Sciences and Research (CIHSR), was the invited speaker. He emphasised the significance of "mind-mapping" health, which involves prioritising numerous factors like sleep, stress, food, and exercise. The speaker also emphasised on what results in ideal health in this regard.



## G20 University Connect, “Engaging Young Minds”

On April 18 and 20, 2023, St. Joseph University, Chumoukedima, hosted the G20 University Connect Lecture Series on “Engaging Young Minds,” coordinated by Dr. Moameren Pongen through the Department of Political Science. As part of India's Presidency of G20, the international body that unites 19 nations and the European Union, the G20 University Connect Lecture Series was brought to Nagaland. Interacting with students from 75 institutions located in 56 various locations across India is the event's main objective, stated Dr. Pankaj Vashisht, from RIS, New Delhi. The Ministry of External Affairs, the Government of India, Research and Information System for Developing Countries (RIS), and NETRA, collaborated on the event. The event's objective is to inform the nation's young people about issues that might have both domestic and global implications. Declamation and quiz competitions that were attended by 17 departments were established as literary activities to support the event's goals of addressing issues pertaining to the global economy, preventing climate change, and promoting sustainable development.

भारत 2023 INDIA

## DEPARTMENT OF PSYCHOLOGY AND COUNSELLING

### Visit to Precious Gem School, CIHSR:



On 12th April, Department of Psychology and Counselling visited Precious Gem School, CIHSR on account for observing World Autism Awareness Month. Following a brief presentation on Autism Spectrum Disorder by Dr. Y. Simpson Head of the Department of Developmental Pediatrics at CIHSR, the students were given a quick tour of the facilities to gauge its layout and operation. A total of 26 BA 4th Semester students and one faculty member, Miss Rebecca, visited the location.

## DEPARTMENT OF SOCIAL WORK

**Hands-on-Training on SPSS:** The Department of Social Work, St. Joseph University held 2-day Hands-on-training on Statistical Packages for Social Sciences (SPSS) for the final year students of the Department on 13th and 17th April, 2023 from 9:00am till 3:30pm. Sixty-four MA Rural Development, Semester IV students and 12 BSW Semester VI students were trained on using SPSS. Mr. Kevitsalie Jerome, Asst. Professor and HOD (Acting) was the resource person for the workshop.

**Parent-Teacher Meeting:** The Department of Social Work, St. Joseph University held the Parent-Teacher Meeting for the BSW II Semester on the 11th April, 2023 at the University premise from 9:00 am onwards. Twenty-two parents/guardians attended the meeting.

### Social Work Fest at Don Bosco College Maram, Manipur:



On 27th & 28th April 2023, 14 students and 1 faculty from St. Joseph University Chumoukedim attended the Social Work Fest at Don Bosco College Maram Manipur. It was Organized by the Department of Social Work with the theme “Inclusive: Leaving no one Behind” Ms. Hovala Raoh, Assistant professor, accompanied the students for the fest. The two days fest was a great learning for all with loads of inputs from various resource persons like Capt. Azmeera Bobby the first tribal lady commercial pilot, Mr. Moses Gopen and many more. The participants also took part in various competitions and won in five competitions namely;

*1st prize in Solo- Ms. Kezevinuo Nguzhu*  
*1st prize in Debate- Ms. Kuvelu Nyekha*  
*2nd prize in Cultural show- Ms. Imjulla Longkumer;*  
*3rd prize in Extempore*

*speech- Mr. Limlisai;*  
*3rd Prize in Spot painting- Ms. Yansarhoni Y Ezung.*

## DEPARTMENT OF ZOOLOGY



**Guest Lecture:** A Guest lecture conducted by the Department of Zoology, 17th April 2023. Chief guest Dr. Amar deep Soren, Assistant Professor, PG and Research Department Zoology, B. Borooah College, Guwahati, Assam, took a lecture on the “Anthelmintic Drug Research” The purpose of the Guest Lecture was to enhance the student knowledge in the field of antiphrostatic drug research. A total of 90 students, from the Zoology departments, attended the lecture program. The occasion was chaired by Ms Khrieletuonouo and Hokavi Swu, (M.sc. Zoology, SJU), and the invocation was given by Rev. Fr. Anish, PRO.

### Department Farewell:

The Department of Zoology organized a department farewell for the PG and UG final year on the 28th of April. It was a grand event where both the current students and the outgoing students took part actively.





### 1<sup>st</sup> ALUMNI REUNION-2023

The 1<sup>st</sup> Alumni Reunion was held at St. Joseph University Auditorium, with the theme “To build on the rich history of our University and create a vibrant future”. Around two hundreds alumni attended the event. The programmed of the day was started with the University anthem by university Choir team which was followed by invocation of God’s blessing by Rev. Sr. M Thaines, the Deputy Registrar.

A word of welcome to the alumni was pronounced by Dr. Kinitoli H Yeptho, Dean of Academics which was followed by video presentation of the university journey by Fr. L Anish, PRO. Prof. Charles Mhonthung Ezung, Dean of Student Affairs, took the initiative to introduce the office bearers of alumni.

After which Rev. Sr. I Arokia Mary, Dean of Administration addressed the alumni on the memory of Alma Mater.

The alumni were also given time to share their experiences on which eight alumni shared their experienced life in the university and their present life. The alumni who have achieved in their life and who have cleared some certain competitive exams (14 students) were honoured with honouring gifts from the university. After which Dr. D Gnanadurai, Vice Chancellor facilitate the alumni and enlightened them to be more focused on life and be part of the university in the days to come.



### WORLD BOOK DAY

With an objective of promoting and spreading awareness on reading, copy-right issues and publishing, the Newsbites team of St. Joseph University, Nagaland observed ‘World Book Day’ at the University library on Thursday, 20th April 2023 under the theme “Retelling Traditions through Books”. Speaking at the occasion, Dr Moalemba Jamir, Associate Editor, The Morung Express, who attended the programme as special invitee, highlighted the importance of Oral Memory Harvesting, especially in the context of Naga society. During the programme, a book titled “Sustainable Environment, Manifestation and Augmentation” was jointly released by Dr. Moalemba Jamir and Professor Fr.

Sunny Joseph, Department of Education, SJU Nagaland. In the second session, around 25 students took part in the costume and art-work competitions. Altogether, 100 people attended the programme.



### CULTURAL CLUB

Cultural Club Study Tour The Cultural Club undertook a study trip to Kisama on 17th April 2023 based on the theme: “Rediscovering our culture”. A total of 39 students have participated in the study tour under the supervision of Dr. Elonbeni Ngullie, Associate Professor and Miss Narsen Ngully, Assistant Professor, Department of Sociology. The participants embarked their journey from the University Campus at 7:30 a.m. The objective is to observed and studies the Morungs of different community and tribes of the state. The significant aspect of Kisama is the attraction of many tourists and visitors from across the globe and witnessing the cultural diversity of the state.



## DST SEED PROJECT

### State Level Two Days Training Program on Silkworm rearing for Farmers

The State Level Two Day Training Program on Silkworm Rearing for Farmers was held on 20th and 21st April 2023 at St. Joseph University, Nagaland. The program aimed to educate farmers on the basics of sericulture, silkworm rearing, and silk cultivation. The program started with an invocation by Sr. J Arul Mary, followed by a welcome address by Dr. Patrick Parveen Dukpa, Asst. Prof, Dept. Of Economic, The Chief Guest, Fr. Dr. Michael Arochiam, Professor & Rector of SJU, felicitated the program, and Mejamongla, ASO Incharge, talked about the topic "Reeling and Twisting Unit". The Vote of Thanks was delivered by Mr. Kevitsalie Jerome, Asst. Prof. & Head Dept of Social Work. In the first session, Petekhrietuo Medom, Supervisor District Sericulture Office, Chumukedima Nagaland, delivered a lecture on "Sericulture: Introduction to silkworm rearing and Silk Cultivation". The second session involved a field visit at Dhansaripar (District Sericulture Farm). On the second day, the program started with an invocation by Ms. Magdalene Kiewhou, Assistant professor of Zoology, SJU. Ms. Ngoiang Ongh, Extension Officer, District, Sericulture Office, Chumukedima Nagaland, delivered a lecture on "Potential Scope of Sericulture in Sustainability". The second session involved hands-on training and an interaction session. The program concluded with felicitation by Prof. Dr. D. Gnanadurai, Vice Chancellor, SJU. The feedback about the training program was given by the farmers, a Vote of Thanks given by Dr. Jeyaparvathi, Prof and Head of Zoology, and Benediction by Fr. L. Anish.



## ARTICLES

# Chemistry Education and its Role in Health and Sustainable Development: A Systems Thinking Approach



*Written By: Parimal Chandra Bhomick, Assistant Professor,  
Department of Chemistry, SJU Nagaland*

**“Investment in fundamental chemistry/chemical science research and chemistry education is critical to ensuring that healthcare keeps up with our society's growing health difficulties and other issues that connects it.”**

is overly broad and not particularly useful. While chemistry is certainly involved in the study of matter, it is not the only scientific field concerned with matter's composition and transformations.

For instance, nutrition focus on matter in the form of food, which is transformed by digestion and other physiological processes into muscle, fat, and energy. Chemists, however, possess a unique understanding of matter at the molecular level, enabling them to explain and comprehend any subject in terms of the properties of atoms and molecules. Chemistry is uniquely positioned to apply its knowledge to a wide variety of subjects since all matter is composed of different kinds of atoms, and an enormous range of molecules can be formed by creating and breaking bonds between those atoms. Thus, chemistry is defined not by its subject matter, but rather by its approach. By examining the properties of atoms and molecules, chemistry could elucidate and clarify a vast array of phenomena.

The relationship between health and chemistry has long been productive. Through a synergy between the chemistry and biological sciences, life expectancy and quality of life have dramatically improved in the last two centuries. This is due to the advances in our understanding of the composition of the human body and the development of drugs to treat a wide range of illnesses and diseases. From antibiotics to cancer treatments, chemistry has provided the tools to understand and treat the human body. Chemistry's contribution to health is not limited to its medical roles. They also include helping to meet the UN Sustainable Development Goals (SDGs), many of which directly or indirectly affect health. This includes providing clean water and sanitation, ensuring access to energy and sustainable infrastructure, providing *Contd...*

Chemistry is a branch of science that deals with the study of matter's composition, properties, and structure, as well as the ways substances transform from one form to another i.e., how they react. However, this definition

high-quality education, and promoting economic growth and sustainable consumption.

Health and sustainable development challenges require knowledge of chemistry to maintain and expand their ability to contribute to solutions. As chemistry has achieved notable success in the past, it is expected to fall short of its potential in the future. This is if knowledge regarding the integration of relevant scientific fields, the economy, and the environment remains lacking. This is due to the fact that chemistry is a rapidly developing field that requires the integration of various disciplines such as biology, economics, and environmental sciences. Without a comprehensive understanding of these disciplines and how they interact, it will be difficult to effectively address health and sustainability challenges.

As an educator, a way ahead is to reorient chemistry education by considering all disciplines. A movement has emerged in recent years to reorient chemistry education by adopting a system thinking approach, which transcends the confines of isolated contexts and chemical systems to offer a more comprehensive perspective of the discipline and its interconnections with personal, societal, and environmental systems. Generally, “systems thinking” refers to the holistic approach of examining complex problems and systems from the perspective of how system components interact and the patterns that arise from these interactions. This is like viewing a jigsaw puzzle with all the pieces scattered about and having to arrange them to create a complete picture of the system. The importance of systems thinking to chemistry education was aptly described by Mahaffy and group in their article titled “Reorienting Chemistry Education Through Systems Thinking.” They stated that—

***“Incorporation of systems thinking into chemistry education offers opportunities to extend the students’ comprehension of chemistry far beyond what is achievable through rote learning. Such a change would enhance understanding of chemistry concepts and principles through their study in rich contexts. These include developing an appreciation of the place of chemistry in the wider world through analyzing the linkages between chemical systems and physical, biological, ecological, and human systems (the latter include legal and regulatory systems, social and behavioral systems, and economic and political systems.”***

It’s particularly effective for teaching chemistry to non-science majors, whose motivations to learn chemistry are likely to be motivated by its “big picture” applications. By connecting the principles of chemistry to the wider world, these students can gain a better appreciation of the subject.

Thus, applying system thinking in chemistry education at an early stage will allow students to connect all the dots regarding the field of chemistry climate change, sustainable development, economy, and governance is linked to health, and this will provide an idea about the overall picture regarding the synergy effects of chemistry.

Modern medicine, in particular, is significantly reliant on chemical advances. Investment in fundamental chemistry/chemical science research and chemistry education is critical to ensuring that healthcare keeps up with our society’s growing health difficulties and other issues that connects it. As a result, it is critical that governments, universities, and private businesses prioritise financing for this sector in order to train students and support researchers.

## MOOCS as a means to create a knowledge society

By: Ngausilule Khate,  
MA 4th Sem Education

**M**OOCS can be said as free Web-based distance learning programmes that is designed for large numbers of geographically dispersed students. MOOCs may be patterned on a college or university course they do not always offer academic credit these courses may offer a certification, enhance employment opportunities or further studies.

The following are some of the major



roles MOOCs play:

1. The main aim of MOOCs is to provide new opportunity to many learners

to attend free online courses from any-

where around the world. MOOCs are of recent origin where the professionals and students can play the role of learners, connectors, and collaborator.

2. Using web format. It is the commonly accessed platform. It is the way to find the connectivity with the world of knowledge. In an ordinary way all can learn more.

3. Collaborative learning. It is in this that the entire society gets involved in learning inspite of the size of the society

4. Assessing knowledge : It changes the life style and increasing functional efficiency. Eventually it leads to greater knowledge capacity of the society.



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