



Green Club of Thoughts
Kathmandu University
Since 2007

Annual Report

2020/2021



Connect

Inspire

Perform



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MESSAGE FROM PATRON

Prof. Dr. Bivek Baral



It gives me colossal pleasure to be the patron of the 'Green Club of Thoughts' (GCT) and celebrate its annual general function. In this observance, I would like to congratulate and extend my best wishes to GCT and its entire members for reaching a phenomenal milestone by bridging the gap between university and communities and contributing in diversified sectors of the academy and the society.

GCT, the first inter/trans-disciplinary club of the university founded in 2007 that vests common will and aspiration of the educationalists and the students has been playing a significant role to raise awareness on major educational, technical, social, and economic, national as well as international issues engaging students of all seven schools in various activities. Looking back at the year gone, the release of semi-scholarly, trans-disciplinary journal 'acKUaint' which is published every four months aimed to act as a substantial podium of unpoised news avenues in the university accelerated the club to a new achievement. Similarly, revolving around intellectual panel discussions upon national and international issues like the Construction of Nijgadh International Airport, Socio-Economic Impact of COVID-19 and The Future Course of Nepal to the Discussion of Millennium Challenge Corporation have been the greatest landmark of the club. Likewise, through continuous collaboration with the High-Performance Computing, the club has been able to conduct SAARC Regional summer schools and winter schools on Advanced Molecular Dynamics Simulation combined with Artificial Intelligence with foreign academies like International School of Photonics, IISER Pune, CUSAT, INDIA, Scidart Academy, and the Department of Physics, of the university. The club also conducted a workshop to infuse participants on solving Computational Fluid Dynamics problems using High Performance Computing and OpenFOAM.

Moreover, the club gave workshops on supercomputing to high school students to educate about supercomputing to pupils of nooks and corners of the nation. Furthermore, to enhance the community standard as a social responsibility, the club in collaboration with Community Engagement Division (CED) of the university signed a memorandum of understanding with Dhaneshwor School, Panauti to establish a computer lab and basic science lab in the school. I believe, the completion of such meritorious academic cum scientific as well as social projects will support the students both inside and outside the university, the club and shift the technical gear of the nation. Despite the clutch of the COVID-19 pandemic, the smooth running and completion of such marvelous tasks in abundant domains ranging from social, national, economical, academic, technical, and community-based ventures are some of the praiseworthy achievements by the club in a years' time frame.

GCT has manifested its commitment to strengthen further erudite scholarly visions by functioning with major technical enterprises of the nation, engage actively to the intersections of the society conducting awareness and literary programs and make the journal acKUaint sustainable and lively in the upcoming days.

Once again, I would like to congratulate GCT and thank all GCT members, predominantly the executive board and the editorial board for their dedication and their service that has made Kathmandu University transparent and viable in numerous realms of the society. I believe GCT will be able to cope up with the upcoming situations and unforeseen circumstances in the nearing days with better efficiency, robust commitment and mutual kinship with diversified sectors fulfilling its mission to bridge the gap between the university and communities concurrently enhancing their technical and professional skills in the best inclusive way possible

MESSAGE FROM FOUNDING ADVISOR

Dr. Hem Raj Kafle



I have been together with the Green Club of Thoughts since 2007. And yet, it is hard for me to fathom that over a decade has passed! Time moves so quickly. Right from the beginning of my journey with GCT, the vision of this club has been to unite all students from Kathmandu University into a common platform and introduce them to a wide range of domains. Looking at the club's work now, I feel utmost satisfaction to see how fresh and honest the vision still is! It almost seems as if the leadership and accountability taken by the board of 2020/2021 is the only reason why the club that remained silent for 5 years could roar with such intensity.

As a founding advisor of the club, I can say, the board of 2020/2021 has guaranteed the sustainability of the club and uplifted the club's standard to a whole new level. GCT's working mechanism has not only proven its efficiency, but also its potential to reach places. It wouldn't be an understatement to say that GCT has established itself to become one of the best clubs in Kathmandu University. Not only does GCT focus on academic achievements, but it has also been able to bring many ambitious projects under its ambit. To name a few, acKUaint is the only newsletter in Kathmandu University which covers stories not only from all seven schools of KU but all over the world. GCT certainly accomplishes seemingly insurmountable tasks in the pursuit of its vision and tries to make a difference as well. Burning issues that need a voice like MCC, Suicide prevention awareness program in Ilam, MOU with Dhaneshwor, are amplified by GCT. If we look at the various trans-disciplinary journals it has established, the workshops, the MOUs, and the multi-dimensional programs that it has successfully completed, then we will know that the mission of bridging the gap between our students and the community has been seamlessly accomplished.

I've found an ever growing home in GCT. Ever since the idea of establishing this club was conceived, I could imagine GCT being the voice of the students of KU. I am beyond pleased and honored to say that GCT today has lived up to our initial expectations. It has perhaps exceeded them and set newer benchmarks for clubs in KU. The achievements of this club range across a lot of horizons and the best part is that all of them are unparalleled and unprecedented. I have seen the members of this club toil relentlessly to make this happen. Days, if not months of hard work from the people of GCT has made it possible to reach where we are today. I very much hope that it stays this way.

I'd like to say that being the founding advisor for GCT has been an honor. With the successful accomplishments it has always managed to achieve, it makes me elated that I get to be a part of something so impactful. I hope to be a part of this program for more years to come. To be alongside it while it makes significant changes upon the students as well as their area of studies. Thank you GCT, for this latitude

MESSAGE FROM ADVISOR

Mr. Haris Chand Adhikari



It gives me pleasure to write a few words of appreciation for what GCT has been doing by following and excelling the legacy of its predecessors, who, as students at the undergraduate level at Kathmandu University back in 2007, had come up with the idea of the Club as a forum for interdisciplinary ideas to flourish. Initially, the Club was in need of some institutional form. After 15 years of its inception and operation and its revival in 2020, it has not only realized that need, through its continued efforts and increased support from the University, but has also actively involved itself in a wider range of disciplines and activities, both academic and non-academic, scientific and non-scientific.

The Club has shown commendable commitments—to issues that matter both within the University and outside—from local to regional to national to international levels, via *ackUaint*, its quad-monthly publication, and other important means of communication, collaboration, research, and student leadership. As can be seen from its activities, it has expanded its space for collaboration, by reaching out even to international agencies. It has also been playing an instrumental role in helping the University connect classroom to local communities and vice versa. In particular, its activism in bringing crucial issues of the present Nepali society into scholarly dialogues and in transferring new knowledge of science and technology to local communities deserves attention. Such things, on the one hand, help create public awareness, and on the other, help communities solve their problems practically or in more informed ways. Alongside, they help strengthen collaborations, promote local knowledge, and increase mutual empowerment.

The only thing the Club needs to seriously take into consideration at the moment is all about a sustainable model for it to become stronger in the future. Therefore, it should start working toward this area, by looking for reliable sources of funding, by coming up with innovative ideas of research and collaboration.

I wish the Club great success in all of its future endeavors!

MESSAGE FROM TECHNICAL ADVISOR

Dr. Rajendra Adhikari



From the first day since I have worked with this club, the vision of this club has been to unite all students from Kathmandu University, let it be from Engineering, Science, Medical Sciences, Arts, Law, Education, Management, into a common platform, and introduce them to a wide range of domains. To create milestones to reach a larger and diverse audience. I have seen the members of this club toil relentlessly to make this happen. Days, if not months of hard work from the people of GCT has made it possible to reach where we are today. I very much hope that it stays this way.

The club has also been greatly successful in accomplishing its mission to a great extent as well. Initially, the mission had been set to establish a trans-disciplinary approach that would expose the KU students to matters of national and international issues and to bridge the gap between the university and communities simultaneously. To develop a student's professional and technical abilities. Looking at the different trans-disciplinary journals it has founded, the workshops, MOUs, and multi-dimensional programs it has conducted, we can see that it's mission has also been successfully performed.

I'd like to say that being a Technical Advisor of GCT has been an honor. I believe Green Club of Thoughts Kathmandu University is truly interdepartmental and interdisciplinary in its thinking and work practices.

I wish you all the success with my full support.

MESSAGE FROM PRESIDENT

Mr. Ashim Joshi



It has been my absolute pleasure to serve as a president of Green Club of Thoughts working with excellent executive and editorial board. The impact GCT has created within the university is unparalleled and has set a base for a new academic culture. Since its reestablishment it has focused on community work, and in collaboration with different organizations it has been working in different corners of the country. There is no doubt to say that despite many difficulties GCT faced, it has stood up to become the most active club of the university. The objectives, mission and vision club has set forth are unique and align to meet the essence of higher educational institute. GCT focuses more on academic and intellectual activities rather than common-clubs' activities. The debates, discussions, collaborations are the parameters that distinguishes GCT from all the clubs of the university.

'acKUaint' is one of the most important assets of the club. I believe 'acKUaint' has become a 'AankhiJhyal' of KU. acKUaint has helped make the university visible to communities, in its first, second and third publication, it has included 22 KU-related issues whereas it has covered 12 issues of communities, 10 national and 7 international issues. acKUaint has included one issue each of LGBTQ community and differently abled people; and by such means, it has also managed to present a positive image of the university to such communities. A number of social media reviews, email correspondences, and person-to-person feedbacks received by the club have shown the growing visibility of the works and programs of the university.

Similarly, suicide prevention program in Ilam, Dhaneshwor school upliftment program, Constitutional and Economic literacy booklet program, Discussion on MCC and Construction of Nijgadh International Airport are exemplary works club has done.

Through these activities, it is my position that the club has created an environment to collaborate with the students of the different schools of the university fulfilling its vision to sum students from all seven schools of Kathmandu University. The matchless activities GCT has done spotlights its legacy and I am very sure that the coming boards of the club will continue this legacy to 'Connect, Inspire and Perform'.

About Green Club of Thoughts

Green club of Thoughts – GCT is student’s club of Kathmandu University (KU) which has connected all its seven schools that spheres the students from all technical, educational, social, environmental, economic, developmental to national and international concerns.

GCT was initially established within the central schools of Kathmandu University in 2007 as the first inter-departmental club to develop educational, cultural, physical, and mental, and literary skills. However, with the rapid technological transfer witnessed within a decade and surged awareness in national matters, to raise interest of national issues in youngsters blending at a group of like-minded equally maintaining the major field of study, the GCT at 2020 -first of its kind at KU, has formed a community to connect, inspire and perform people fulfilling its objectives.

GCT Vision

To sum all students at Kathmandu University from all seven schools (Engineering, Science, Medical Sciences, Arts, Law, Education, Management) exposing them to a wide range of domains creating milestones to reach a larger and diverse audience.

GCT Objectives

- Coordinating among the students of the seven schools to conduct programs such as debates, interactions, etc. to raise awareness on major educational, technical, social, and economic national issues.
- To work for the educational, social, biological, sports, environmental development in the areas around Kathmandu University and the country in coordination with various organizations.
- To conduct skill enhancement programs for the students at Kathmandu University.
- To conduct other unsought activities which are demands of the coming time.

The Logo of Green Club of Thoughts



The colossal green in the logo symbolizes life. Green connects various spectrums of life. Green inspires and gives birth to various forms of life across, and perhaps beyond the planet. It stands for the existence and performance of life. One’s life is essentially an epigram of light and dark. Not only the rising and setting sun but incandescent thoughts, ideas, and knowledge determine the luminosity of their life. The light bulb in the logo symbolizes the significance of thoughts, moreover, knowledge in the green represents life. When good thoughts are warmly embraced, beams of light transcend to ineffable boundaries. Good ideas hand in hand with knowledge know no limits and travel above and beyond their horizons. So does life. Life is not bound in any languish. When these limitless paramount's unite, wonders take birth. The green rays triumphing against their little circle in the logo depict the same. The GCT logo attempts to intricately weave the essence of thoughts and knowledge via the symbol of light fondled in the symbol of life. To connect, inspire and perform, GCT aims to take necessary treads. Be it by connecting with students across various schools of KU, inspiring them to be better than their reflection, and to perform what is within their might with utmost diligence. GCT is set to expand the universe with all the knowledge and touch lives.

Our Team



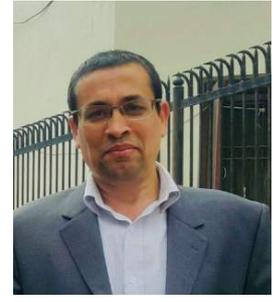
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Dr. Hem Raj Kafle
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Mr. Haris Chand Adhikari
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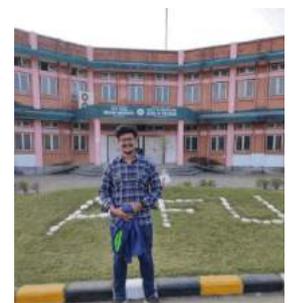
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ACTIVITIES OF 365 DAYS

Expert's View on Construction of Nijgadh International Airport

Green Club of Thoughts organized an online panel discussion on the construction of Nijgadh International Airport on Wednesday, October 14th. Prof. Dr. Bivek Baral, Department of Mechanical Engineering, Kathmandu University shared his remarks regarding the need for Nijgadh International Airport considering international trends on air travel, whereas Mr. Nara Bdr. Thapa, former Executive Director of Nepal Rastra Bank and a renowned researcher in the field of economics expressed his works on the importance of the airport through economic aspects. On the other hand, Dr. Nawaraj Khatiwada presented his research on the alternatives of TIA: Issues, Challenges and Prospects, sharing an equal view on the construction of the airport and its weakness. At last, Mr. Nawaraj Chapagain, one of the noted environmentalists of the nation pointed out the fallacies of the EIA report of Nijgadh International Airport.

Five Days Workshop on Robotics

On February 18th-22nd, 2021, Green Club of Thoughts hosted a five-day workshop entitled "Workshop on Robotics" at Skyrider Higher Secondary School, Chitwan supported by Alpha Beta Institute. The workshop was a part of the annual program of the Club on the theme of "Class to Community". The goal of the workshop was to deliver basic knowledge on Electronic Components and robotics, and the program hosted around 50 students from classes 6-12 with curiosity and creative ideas.

Electrical components and circuits were taught to students in a basic theoretical and practical manner. Students were able to develop an Automatic Lighting System with basic electronic components by the conclusion of the first day of the session. After completing the task, students were introduced to several types of sensors and microcontrollers.

With the help of club members, the students learned how to program microcontrollers rapidly and were able to integrate Arduino into a variety of activities. On the fourth day of the class, the students collaborated to create a Bluetooth controlled automobile. Students understood how cellphones might operate the automobile because they had a comprehensive understanding of how signals were sent via Bluetooth modules. On the final day of the workshop, students had acquired sound knowledge about electronic components and circuits. Under the team's supervision, students assembled their final projects of the workshop. The projects involved Gesture Control Car, Obstacles Avoiding Car, Lane Following Robot, Smart Dustbin with Garbage Level Detection, and Smart Irrigation System. A short Q&A session was also conducted as a survey to find how productive the workshop had been. The results were very promising which concluded the five-day-long workshop with the mini project exhibition at last.

The students learned about electronics components on day one and later they designed the circuits and assembled the circuits on a breadboard. The first project was the Automatic Lighting System. After getting knowledge of electronics components, they were introduced to various types of sensors.

Supercomputer Workshop to High School Students

On 2nd of March, 2021, GCT in collaboration with Kathmandu University Supercomputer Center conducted a two-day workshop on the basics of high-performance computing for high school students.

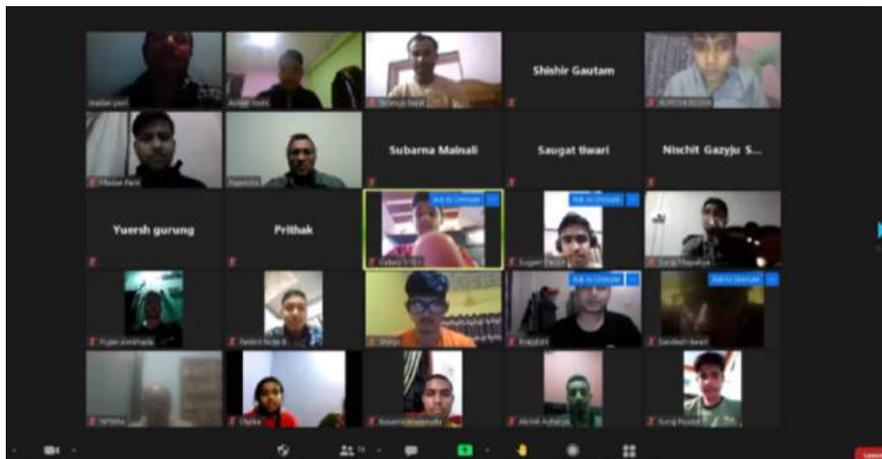


Figure: Students Participation on Supercomputer Workshop

Engineering is Fun - an interaction Program

On 9th of March, GCT at Gyan Jyoti School, Banepa conducted a one-day interaction program entitled 'Engineering is Fun'. The program covered the various aspects of engineering subjects available at Kathmandu University with their scopes and prospects.

Releasing of acKUaint

GCT released its first issue of a semi-scholarly trans-disciplinary journal 'acKUaint', on March 24 in an event organized at CV Raman Auditorium, Kathmandu University. Mr Dipak Tolange, the founding coordinator of the club shared a glimpse of GCT history whereas the founding advisor of the club Dr. Hem Raj Kafle congratulated and wished for the prosperity of the club and students. Similarly, Prof. Bivek Baral enlightened the vision and mission of the club, Mr. Anubhav Ghimire shared his remarks on the objectives of the journal. Mr. Ashim Joshi, President of the club, shared his experiences regarding the need of the club and the works it has been doing.



Figure: Releasing Ceremony of 'acKUaint'

Socio - Economic Impact of Covid-19 and the Future course of Nepal

On June 13, Green Club of Thoughts (GCT) organized a webinar on the socio-economic impact of COVID-19 in Nepal during the second wave of the pandemic. Dr. Sameer Mani Dixit, general secretary of the Nepal Public Health foundation expressed his grave concern about the acute shortage of resources followed by the scaling of the antigen tests done in the nation. He further mentions the persisting mobility even post the wave that is deeply affecting the psychological health stature of the nation and blames the government for its ineffectiveness.

Dr. Prakash Kumar Shrestha, Executive Director, and head of the research department of Nepal Rastra Bank opined economic upshots of the pandemic and says that around 25% of Nepalese lost their living owing to the pandemic and lockdowns lowering the inflation from 6.7% to 3.14%. He articulates that most of the business sectors were completely shut, and digital marketing came to play more vividly attributing to QR based mobile banking. Looking for the policies to be implemented, he opined agriculture and hunger eradication should be given the first and foremost priority since food is a basic instinct for survival along with the 'Vaccination for All' policy to further progress to sustainable development.

Advanced Molecular Dynamics Simulation: A Summer School 2021

Green Club of Thoughts along with the Department of Physics, Kathmandu University and Department of Chemistry, IISER Pune, India had organized a two-week-long summer school on advanced molecular dynamics simulation starting from July 5th to July 16th. The top experts of the field had provided both the concepts and application of molecular dynamics simulation through specialized classes, hands-on tutorial sessions and guest lectures. One hundred and fifty-six early career faculties, Postdoc's, graduate students, and young researchers from 12 different countries and more than 30 different institutions including Kathmandu University Nepal, Indian Institute of Technology India, University of Casablanca Morocco, University of Technology MARA Malaysia, Sogang University South Korea, High Energy Accelerator Research Organization (KEK) Japan and United Arab Emirates University UAE had participated.

Thirteen eminent professors of the field including Prof. Narayan Adhikari from Nepal, Prof. Alexander D. Mackerel Jr. from the USA, Prof. Arnab Mukherjee from India and Prof. Nolan Kane from the University of Colorado, Boulder, USA had provided specialized classes. Similarly, fifteen teaching assistants from Raman Research Institute, IIT Bombay, CUSAT, Kathmandu University, ICTP Italy and other organizations had facilitated hands-on sessions.

Welcoming the participants Prof. Mukherjee enlightened the importance of the school on the field of molecular dynamics and its impacts on early career researchers. The school had offered access to HPC facilities (both CPU and GPU) for the following month to familiarize and train with the concepts taught in the school.

SSDs Donation to KU Supercomputer Center

On July 24, 2021, Green Club of Thoughts donated two 1 TB SSDs worth rupees 30000 to Kathmandu University Supercomputer Center in the presence of Dr. Rajendra Adhikari from the center. Mr. Ashim Joshi, president of the club and Mr. Anup Chhetri, secretary of the club handed the SSDs to the center. Drives will be used in a head node of the supercomputer and is expected to increase the efficiency of the computing.



Figure: SSD donated to KU Supercomputer Center

A Virtual Winter Workshop on Advanced Molecular dynamics Simulation 2021

Green Club of Thoughts co-organized a virtual winter workshop on Advanced Molecular Dynamics Simulation combined with AI/ML- with the International School of Photonics, CUSAT, India, Scidart Academy, and the Department of Physics, Kathmandu University. This workshop aimed at introducing graduate students, young researchers, and early career faculties primarily from Asian countries, to the basic to advanced concepts of MD simulations and an introduction session to the state-of-the-art Machine Learning Techniques. This workshop was divided into two weeks. The first week of the workshop mainly focused on the basics of MD, a variety of computational software and uses of HPC facilities as well as a special session on 3D rendering via "Blender" software, and other necessary training to handle the advanced lectures. The latter focused on MD simulations with the interpretation of results and introduction to some post-processing techniques.

Presentation on CED Webinar

Green Club of Thoughts participated in the webinar Making-University Community Partnership Productive and Visible organized by the Community Engagement Division (CED), Kathmandu University. Mr. Ashim Joshi, President of the club gave a presentation entitled 'Making Kathmandu University visible via acKUaint' on behalf of the club.

Discussion on Millennium Challenge Corporation (MCC)

Green Club of Thoughts organized a virtual talk show on 'नेपालमा एम. सि. सि.: आवश्यकता र चुनौतीहरु'. The Keynote speakers were Dr. Uddhab Pyakurel, Associate Director of Global Engagement Department, Kathmandu University and Mr. Komalnath Atreya, Project Manager, Nepal-China Electricity Transmission Line, Nepal Electricity Authority.

Dr. Pyakurel discussed on the MCC Importance, Diplomacy, and its Geo-Political challenges whereas Mr. Atreya discussed on MCC and the priority of Transmission line in Nepal.

Workshop on OpenFOAM

GCT organized a winter school on OpenFOAM (Open-source Field Operation and Manipulation) with the main motive of familiarizing learners from around the world in the computational fluid dynamics field, however, the school provided knowledge much more than its basics. The school was guided by the two major resource persons Asst. Prof. Dr. Rajendra Adhikari, Department of Physics, and Technical Advisor of GCT and Asst. Prof. Dr. Sailesh Chitrakar, Faculty In-Charge of Turbine Testing Lab, Kathmandu University, and a group of six Teaching Assistants who contributed immensely to the success of the school.

The 26 days long school kick-started on 22nd October 2021 with orientation given by Dr. Adhikari and the President of GCT Mr. Ashim Joshi. Prof. Dr. Manish Pokharel, Dean, School of Engineering (KUSOE), and Prof. Dr. Bivek Baral, both advisors of the school, continued the event by welcoming the participants. Prof. Baral gave an overview of the 'Navier Stokes equations', whereas Dr. Chitrakar had presented on the basics of computational fluid dynamics. The school proceeded with the hands-on sessions, tutorials, and presentations by resource persons and teaching assistants.

The school came to an end on November 18 with final project presentations where two groups presented on 'Simulation of Breaking of a Dam: Multiphase flow using VOF interface method' and 'Simulation of Decompression of a Tank Internally Pressurized with Water' respectively. Prof. Dr. Pokharel, Prof. Dr. Baral, Dr. Chitrakar and Dr. Adhikari gave their remarks congratulating all the participants and finally Mr. Joshi delivered a vote of thanks with closing remarks.



Figure: Final Project Presentation of OpenFOAM

GCT Signed MoU with Dhaneshwor School

On 14th of November, 2021, Green Club of Thoughts(GCT) in collaboration with Community Engagement Division (CED) of Kathmandu University jointly signed a MoU with Shree Dhaneshwor Mahadev Adharvut Vidhyalaya, Panauti on 14th november,2021. Representing GCT, the patron of the club Prof. Dr. Bivek Baral and president of the club Mr. Ashim Joshi signed the memorandum. CED, Office of Vice Chancellor, Kathmandu university was represented by Prof. Dr. Bal Chandra Luitel and Dr. Uddhav Pyakurel, advisor, CED. Representing the School management committee, Mr. Anirudra Thapa expressed his presence in the meeting.

From the meeting, the execution of the program has been planned to be carried out in two phases. All three parties have agreed to establish a computer lab and basic science lab in the school during the first phase of the program which shall last for 6 months. In the second phase educational activities have been planned to be continued at least for a year. GCT will provide teaching assistance during the entire program duration.



'acKUaint'

a semi scholarly, trans-disciplinary Journal



Green Club of Thoughts (GCT), a locus of all students at Kathmandu University from all seven schools namely Arts, Education, Engineering, Law, Management, Medical Science and Science exposing them to a wide range of scopes has created milestones to reach diversified fields in the society. To acquaint such a multifaceted and integrative approach amongst the students to expose them to national and international issues coupling the gap between universities and communities to enhance their technical skills, the club presents 'acKUaint' to reach the common yearning and aspiration.

acKUaint is a semi-scholarly, trans-disciplinary journal released by GCT at the university to showcase innovative research activities, discussion on national issues and projects, and career opportunities for the students at Kathmandu University and other educational institutes both in

hard copy and soft copy hence acting as a medium to unify students from around the university. It is an incorporative journal that aims to act as a solid multidisciplinary collaboration and research in the upcoming days. The journal includes unbiased news avenues both within and outside of the university sphering major social, economic, political, scientific, artistic, national and international happenings. Through this journal, the club has been successful in unifying the students at all schools of the university giving them an ethical platform to fearlessly advocate their views and opinion.

Thoroughly operated and managed by the editorial board and the executive team members, the journal has a chunk of a motivated team of editors, copy editors, designers, and production management team from all schools. The targeted newspaper audience is the officials of the university, students of all seven schools, government institutions like NAST, APEC, other major technical and sustainable institutes of the country like IOE, WRC, ERC and major colleges of journalism followed by different high schools. Major technical, entrepreneurial, and educational firms like Alpha Beta, Energize Nepal, community schools and some business ventures have been sponsoring the journal for its production. To present date, acKUaint has released three issues and has been proclaimed to be a noteworthy activity of the club by major officials and respective heads of the university and even outside by consulting communication institutions like Nepal Institute of Research and Communications.

acKUaint with a vision of a sustainable news journal, in the nearing days, plans to collaborate with national daily newspapers of the nation and uplift its quality and production standards to make Kathmandu University more viable and transparent to diversified communes.



GCT'S PROJECTS

Suicidal Prevention Program at Rong Rural Municipality of Ilam District

According to WHO, 800,000 people die every year due to suicide. Analyzing the data, we can find that in 1 people dies in every 4 seconds. Talking about Nepal, on an average of 16 people die every day due to suicide. According to National Suicidal Statistics, Ilam district has higher suicidal rate. So, Green Club of Thoughts in collaboration with Kathmandu University-Counselling Cell, Rong Rural Municipality-Ilam, Nepal Red Cross Society-Ilam, and Kathmandu University-Community Engagement Department has initiated a suicide Prevention program in Rong Municipality of Ilam District.

This execution of the project has been carried out to be completed in 3 phases and the project will be completed within 2 years. The objectives of the project are:

- 1.To minimize the Suicidal rate of Rong Rural Municipality
- 2.To determine the suicidal rate and statistics related to psychosocial health of different wards of Rong.
- 3.To provide training related to mental health, behavioral study to the health workers of Rong

MoU with Shree Dhaneshwor Mahadev Adharbhut Vidyalaya

Shree Dhaneshwor Mahadev Adharbhut Vidyalaya is situated in the Panauti Municipality ward 5. It was reinstated in 2076 B.S and around 83 students' study there. The school lacks strong physical infrastructures for the education of the students, and it is weak financially too. So, Green Club of Thoughts in collaboration with Kathmandu University – Community Engagement Department has signed MoU with Dhaneshwor School to provide Volunteer Support as Teachers and establish a Science and Computer Lab there. The execution of the program has been planned to be carried out in two phases. All three parties have agreed to establish a computer lab and basic science lab in the school during the first phase of the program which shall last for 6 months. In the second phase educational activities have been planned to be continued at least for a year. GCT will provide teaching assistance during the entire program duration.

Robotics Teaching Assistance to Robotics Club of Deerwalk Sifal School

Green Club of Thoughts has collaborated with Deerwalk Sifal School and will be providing Teaching Assistant to their Robotics Club. The Project will run for a year and after analyzing the progress amendments will be done to the Syllabus.

Booklet on Constitutional and Financial Literacy



Constitution Literacy Booklet

The Constitutional booklet is one of the literacy booklets initiated by Green Club of Thoughts. It is a collection of illustrated and interesting publications to enlighten and educate high school as well as university students.

These booklets will be designed in such a manner that will be accessible to students and teachers ranging from school level to university levels. These booklets are meant to be a guide for better understanding of our constitution.



The booklet will cover:

1. Concept of Constitutionalism, Judicial Review, Rule of Law
2. Core Constitutional Principles
3. Salient features of Constitution of Nepal, 2015.
4. Anatomy of Nepalese Constitution.

Economic Literacy Booklet



The Financial Literacy booklet is an initiative of Green Club of Thoughts. It is a series of illustrated, engaging booklets aiming at informing and educating students from high school to university students. GCT aims to disseminate these booklets among as many students of the target demographic as possible. To ensure we reach wider audience, we are collaborating with multiple organization]s that have the resources to help us in this venture.

This booklet will cover:

1. Theorizing Economics (Market and Market prices, Consumer Theories, Producer Theories)
2. Nepal Economy (Macroeconomics)
3. Economic Policy (Planning, budgeting and capital expenditure)

GCT'S COLLABORATIONS

Kathmandu University - Supercomputer Center

GCT is working very closely with the Kathmandu University – Supercomputer Center. With the collaboration with the Supercomputer Center, GCT has been providing supercomputer workshop to high school students. This Collaboration has helped GCT a lot as, it got opportunity to organize Summer and Winter School in collaboration with Department of Physics Kathmandu University, Department of Chemistry ISSER Pune, India, International School of Photonics, CUSAT, India, Scidart Academy.

Kathmandu University - Community Engagement Department

GCT is working with CED in Suicidal Prevention Program at Rong Rural Municipality of Ilam District and in building Infrastructures in Dhaneshwor School of Panauti Municipality.

Kathmandu University - Counselling Cell, Rong Rural Municipality-Ilam, Nepal Red Cross Society Ilam

Green Club of Thoughts in collaboration with Kathmandu University-Counselling Cell, Rong Rural Municipality-Ilam, Nepal Red Cross Society-Ilam, and Kathmandu University-Community Engagement Department has initiated a suicide Prevention program in Rong Municipality of Ilam District.

Deerwalk Sifal School

GCT has collaborated with Deerwalk Sifal School and provides teaching assistant in Robotics to their students of Robotics Club.

GCT'S GUESTS



Mr. Nara Bahadur Thapa.

Mr. Nara Bahadur Thapa is Former Executive Director of Nepal Rastra Bank. He completed his Masters in Economics from Mumbai and M.Phil in Monetary Economics from University of Glasgow. In his Career, He was the part of Nepal Rastra Bank from year 2046 B.S.

On GCT's event on '*Experts' View on Construction of Nijgadh International Airport*', he was invited as one of the experts and he expressed his works on the importance of the airport through economic aspects



Dr. Nawa Raj Khatiwada

Dr. Nawa Raj Khatiwada is President and Program Co-ordinator at Nepal Development Research Institute (NDRI). He was Post-Doctoral Fellow at Department of Urban Engineering, University of Tokyo, Japan and Associate Professor, Program Coordinator at Department of Environmental Science and Engineering, Kathmandu University, Dhulikhel, Nepal.

Dr. Khatiwada was one of the Speaker on GCT's event on '*Experts' View on Construction of Nijgadh International Airport*'.



Mr. Nawa Raj Chapagain

Mr. Nawa Raj Chapagain is Specialist and Team Leader (Environment) at NEA Engineering Company. Earlier, he was associated with the Department of Environmental Science and Engineering, Kathmandu University as a PhD Research Fellow where he was studying the impact of climate change on forest and water resources in Chure.

Mr. Chapagain was one of the Speaker on GCT's event on '*Experts' View on Construction of Nijgadh International Airport*' and he pointed out the fallacies of EIA report of Nijgadh International Airport.



Dr. Sameer Mani Dixit

Dr. Sameer Mani Dixit is General Secretary at Nepal Public Health Foundation and Director of Research at Center for Molecular Dynamics Nepal. He served as Assistant Professor at Kathmandu University, Dhulikhel, Kavre.

Dr. Dixit was invited on GCT's event on '*Socio-Economic Impact of Covid-19, and The Future course of Nepal*' where he expressed his grave concern about the acute shortage of resources followed by the scaling of the antigen tests done in the nation.

GCT'S GUESTS



Dr. Prakash Kumar Shrestha

Dr. Prakash Kumar Shrestha is Executive Director of Economic Research Department at Nepal Rastra Bank. He was Economic Advisor of Ministry of Finance, Government of Nepal. He completed his Masters in Economics and Finance from Curtin University, Perth, Western Australia. He completed his PhD from The New School, New York, USA.

Dr. Shrestha was invited on GCT's event on '*Socio-Economic Impact of Covid-19, and The Future course of Nepal*' he opined economic upshots of the pandemic agriculture and hunger eradication should be given the first and foremost priority since food is a basic instinct for survival along with the 'Vaccination for All' policy to further progress to sustainable development.



Dr. Uddhab Pyakurel

Dr. Uddhab Pyakurel is Associate Director of Global Engagement Division, Office of the Vice-Chancellor, Kathmandu University. He is also Assistant Professor of School of Arts, Kathmandu University.

Dr. Pyakurel was invited on GCT's event on ' नेपालमा एम. सि. सि.: आवश्यकता र चुनौतीहरु ' where he discussed on the MCC Importance, Diplomacy, and its Geo-Political challenges.



Mr. Komal Nath Atreya

Mr. Komal Nath Atreya is Project Manager of Nepal-China Electricity Transmission Line, Nepal Electricity Authority. He is one of the Electrical and Electronics Engineering graduates from Kathmandu University

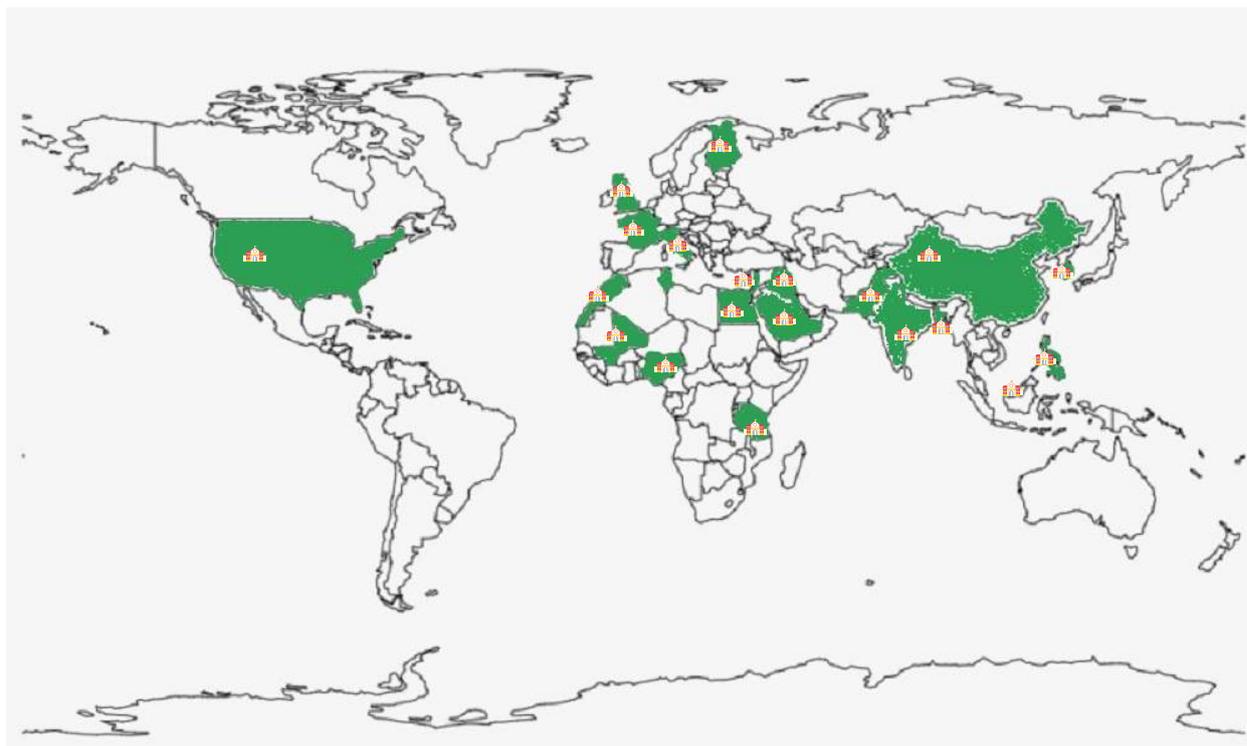
Mr. Atreya was invited on GCT's event on ' नेपालमा एम. सि. सि.: आवश्यकता र चुनौतीहरु ' where he discussed on priority of transmission line.



Mr. Dev Mani Dahal

Mr. Dev Mani Dahal is Former Deputy Secretary at National Planning Commission. He was invited as guest on GCT's event on '*Socio-Economic Impact of Covid-19, and The Future course of Nepal*'

GCT'S PARTICIPANTS



INDIAN INSTITUTE OF TECHNOLOGY - PALLAKAD, MADRAS, BHUBANESWAR, PATNA, DELHI, HYDERABAD, BOMBAY
UNIVERSITY OF DHAKA
BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY
NORTH SOUTH UNIVERSITY
CAIRO UNIVERSITY
ABO AKADEMIA UNIVERSITY
UNIVERSITY OF LORRAINE
SOUTH-WEST UNIVERSITY OF SCIENCE AND TECHNOLOGY- CHINA
KOYA UNIVERSITY
HEBREW UNIVERSITY OF JERUSALEM
UNIVERSITY OF PARMA
KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KAUST)
KOREA UNIVERSITY
UNIVERSITI PUTRA MALAYSIA
AFRICAN CENTER OF EXCELLENCE IN BIOINFORMATICS
UCD EL JADIDA
UNIVERSITY OF SARGODHA
UNIVERSITY OF LAGOS
MINDANAO STATE UNIVERSITY - ILIGAN INSTITUTE OF TECHNOLOGY, PHILIPPINES
DEPARTMENT OF PHYSICS, THE UNIVERSITY OF DODOMA
INSTITUTE PASTEUR OF TUNIS
TEESIDE UNIVERSITY MIDDLEBROUGH
UNIVERSITY OF MARYLAND BALTIMORE
UNIVERSITY OF RAJSHAHI

During GCT's summer and winter virtual workshop on Advanced Molecular Dynamics Simulation (AMDS), students not only from the nation but also from the foreign university participated on this school. GCT along with Department of Physics, Kathmandu University, Department of Chemistry, IISER Pune, International School of Photonics, CUSAT, India, Scidart Academy.

The top experts of the field had provided both the concepts and application of molecular dynamics simulation through specialized classes, hands-on tutorial sessions and guest lectures. These workshops aimed at introducing graduate students, young researchers, and early career faculties primarily from Asian countries, to the basic to advanced concepts of MD simulations and an introduction session to the state-of-the-art Machine Learning Techniques.

PHOTO GLIMPSE



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Green Club of Thoughts Kathmandu University