



ROYAL SOCIETY
OF CHEMISTRY

YUSUF HAMIED CHEMISTRY CAMP

Organised by

Department of Chemistry
Kargil Campus
University of Ladakh



In collaboration with
ROYAL SOCIETY OF CHEMISTRY

Introduction

From September 15 to 19, 2023, the Department of Chemistry Kargil Campus University, in collaboration with the Royal Society of Chemistry, organized the Yusuf Hamied Chemistry Camp. This residential program brought together 74 participants from 47 different schools in the Kargil district, comprising 38 female and 36 male students, along with two escort teachers. The camp featured a diverse array of activities and technical sessions aimed at inspiring young minds in the field of chemistry. This report provides a concise overview of the camp's activities, including lectures, experiments, motivational talks, and cultural programs, highlighting the enthusiasm and dedication of all involved in fostering scientific curiosity and education in the region.



Group photo of participants with dignitaries

Day 1: September 15, 2023

Reception and evening activities (03:30 p.m. to 07:30 p.m.)

The students arrived at Goba Guest House Sankoo, and the registration process swiftly took place. A total of 74 participants from 47 different schools in the Kargil district enthusiastically joined the camp, consisting of 38 female and 36 male students, along with two teachers from the education department.



Volunteers ready for the reception and registration process of students

Icebreaking activity and motivational talk (5:30 p.m. and 7:30 p.m.)

After enjoying snacks and tea, the students gathered at GDC Kargil, Sankoo Campus for the evening program activities. The evening commenced with an ice-breaker activity led by Mr. Gh. Ali, followed by the students being divided into Blue, Red, Green, Purple, Orange, and Yellow groups. Subsequently, camp materials including an instruction book, pen, T-shirt, backpack, lab coat, safety goggles, ID cards, and caps in respective group colours were distributed to participants and volunteers.



Icebreaker activity

Between 5:30 pm and 7:30 pm, Mr. Mohammad Ali, Headmaster of Government Middle School Karit, a distinguished recipient of national and state-level awards, delivered a motivational talk. His engaging presentation combined motivational talks with interactive activities. Prof. Deskyong Namgyal and coordinators from various departments of UoL attended the session, showing their support for the event. In recognition of Mr. Mohammad Ali's valuable contribution, he was honoured with traditional Khataks and a memento.



Motivational talk by Mr. Mohammad Ali



Facilitation of Mr. Mohammad Ali

Day 2:
September 16, 2023

Inaugural and technical sessions (10:00 p.m. to 07:30 p.m.)

The inaugural session commenced at 10:00 a.m. with Prof. S. K. Mehta, the Honorable Vice Chancellor of the University of Ladakh, gracing the event as the Chief Guest. Prof. Deskyong Namgyal, Controller of Examinations, UoL, Madam Kaneez Fatima, Rector of Kargil Campus, UoL, Mr. Mohammad Hadi, Deputy CEO, and other esteemed dignitaries, students, and volunteers were also in attendance.



Arrival of Chief Guest

Dr. Mohd Taqi Assistant Professor Geography and Dr. Mohd Issa Assistant Professor Urdu Moderated the inaugural session in a well-organised manner.

The program began with the national anthem followed by a welcome of the dignitaries by Madam Kaneez Fatima with traditional Khataks. Madam Kaneez Fatima, in her welcome speech, thanked all the dignitaries for gracing the occasion and the students from various schools for their participation. She considered this program as part of UoL outreach efforts and an important initiative for the collaboration of higher education with school education as per NEP-2020. She motivated the students with inspiring words of wisdom for their active involvement in the 4-day program and encouraged them to ask questions during their activities.



Singing of National Anthem



Welcome of Guests by Rector Kargil Campus UoL



Welcome Address by Madam Kaneez Fatima, Rector Kargil Campus UoL

Miss. Melissa Mendonza, Program Executive of the Royal Society of India, expressed her sincere gratitude to the Honorable Vice Chancellor of UoL and Rector of Kargil Campus, UoL for organizing the camp.



Miss. Melissa Mendonza Program Executive RSC



Prof. Deskyong Namgyal

Prof. Deskyong Namgyal, Controller of Examinations at UoL, in his keynote address, expressed his gratitude towards the Royal Society of Chemistry (RSC), India, for their collaboration with the University of Ladakh for this residential chemistry camp. He also highlighted the significant contribution of Dr. Yusuf Hamied in conducting such programs in India to inspire young students towards chemistry and its importance. Mr. Mohamad Hadi, Deputy CEO, thanked the university authorities for providing this opportunity and exposure to their students.



Mr. Mohd Hadi Dy, CEO as Special Guest



Chief Guest, Prof. S.K. Mehta, Hon'ble Vice Chancellor UoL

Prof. S.K Mehta, the Honourable Vice Chancellor of UoL and fellow of RSC (FRSC), congratulated the Rector Madam for her extraordinary contribution in making the Kargil Campus the most efficient campus of UoL. He further encouraged the students to actively participate in such programs and aspire to become future researchers and scientists.

Mr. Gh. Ali, Assistant Professor of Chemistry & Camp Coordinator, presented the formal word of thanks for the session. High tea was served for the dignitaries and participants around 11:00 am.



High Tea Time

Technical Session-I (11:30 a.m.-12:30 p.m.): Lab Safety Demonstration

Following the inaugural session, students received essential lab safety instructions by Mr. Gh. Ali, Camp Coordinator. The session was highly interactive, and students actively participated.



Lab safety instructions by Gh. Ali

Technical Session-II (01:45 p.m.-02:45 p.m.): Talk by Prof. S.K Mehta

In the post-lunch session, Prof. S.K Mehta delivered a talk on "Introduction to Chemistry," emphasizing the significance of chemistry in daily life and highlighting its various branches. The session was highly interactive, and students asked many questions about career prospects in chemistry and the provisions of the interdisciplinary education system as per NEP, which were well explained by the speaker.



Talk by Hon'ble Vice Chancellor, Prof. S.K Mehta

Tea Break (02:45 p.m. and 03:00 p.m.)

Technical Session III (03:00 p.m.-04:30 p.m.): Colour Creation and Crystallization Experiment

In the final session of the day, students visited the labs to conduct experiments. Dr. Hadi and his team demonstrated "Colour Creation" experiments like Rainbow formation, Chemical traffic light, and Golden rain experiments to the Orange, Green, and Yellow groups in Lab-C.



Demonstration of Colour Creation Experiments by Dr. Hadi Ali

Simultaneously, Dr. Akbar Ali and his team illustrated crystallization and Chemical Flag formation to the purple, red, and blue groups in Lab B. A tea break followed from 04:30 p.m. to 05:00 p.m.



Crystallization Experiment by Dr. Akbar Ali



Silver Mirror Experiments by Dr. Akbar Ali

Evening Activities (05:30 p.m.-07:30 p.m.): Quiz Competition

The evening's events were held at GDC Sankoo and included a quiz show led by Mr. Gh. Ali and Judged by Dr. Ajaz Ahmad Dar. The Purple Group came in second, the Yellow Group in third, and the Blue Group took first place.



Quiz Competition Session by Gh. Ali

Day 3: September 17, 2023

Technical Session-I (09:00 a.m.-11:00 a.m.): Colour Creation and Crystallization Experiment

In the first session of the day, the remaining group of students from the purple, red, and blue groups visited Lab-C to conduct "Colour Creation" experiments like Rainbow formation, Chemical Traffic light, and Golden Rain experiments, led by Dr. Hadi Ali and his team. Meanwhile, in Lab-B, the orange, green, and yellow groups explored crystallization and Chemical Flag formation with Dr. Akbar Ali and his team.



Golden Rain and Rainbow Formation Experiment

Tea break 11:00 a.m. and 11:30 a.m.



Tea break session

Technical Session II (11:30 a.m.-12:30 p.m.): Hydrogel Investigation and Forensic Challenge

The next experiment of the day was the Hydrogel Experiment and Silver Mirror Experiment, conducted by Dr. Akbar Ali and his team for three different groups in Lab-B. Simultaneously, Mr. Gh. Ali and his team provided a demonstration on the application of chemistry in forensic science. A scene of CID investigation was created to cease black money from a corrupted officer.



Forensic investigation demonstration by Mr. Gh. Ali and his team



Hydrogel Investigation by Dr. Akbar Ali

Lunch break (12:30 p.m. and 01:30 p.m.)



Lunch Break

Technical Session III (01:45 p.m.-03:15 p.m.): Hydrogel Investigation and Forensic Challenge

The two groups exchanged labs to perform the respective activities mentioned above.

Tea Break (03:15 p.m. and 03:30 p.m.)

Campus Tour and Outdoor Activities (03:30 p.m.-05:00 p.m.)

Students visited various departments of the campus and interacted with students and faculty members. Following the visit, outdoor fun activities such as "Chemical Snake," "Chemical Volcano," and "Elephant Toothpaste" were conducted by M. Sc. Students during this session.





Campus Tour and Outdoor Activities

At 05:00 p.m., students had evening snacks and moved to GDC Kargil Sankoo Campus for Evening Activities, which included a Global Coin Battery Experiment.



Global Coin Battery experiment

Day 4: September 18, 2023

Technical Session-I (09:00 a.m.-11:00 a.m.): Clock Reaction, Fun with Lollipop and Slime Formation

The first session began at 9 a.m. Dr. Jawed Aijaz Hussain and his team conducted the "Iodine Clock Reaction" and "Lollipop Experiment" for three groups, while Dr. Hadi Ali and his team engaged the other three groups with the "Slime Experiment" and "Bouncy Ball Experiment."



Clock reaction Experiment



Fun with Lollipop



Slime and bouncy ball experiment

Tea Break (11:00 a.m. and 11:30 a.m.)

Technical Session II (11:30 a.m.-12:30 p.m.): Talk by Dr. Aijaz Ahmad Dar

In this session, Dr. Aijaz Ahmad Dar, Assistant Prof. Department of Chemistry at Kashmir University, delivered a talk on "Applied Sciences: Need and Opportunities." The session was filled with motivational examples in the field of science that have made revolutionary changes in the world. He also inspired female students by citing the example of Madam Marie Curie.



Talk by Dr. Aijaz Ahmad Dar

Lunch Break 12:30 p.m. and 01:30 p.m.



Lunch Break

Technical Session III (01:45 p.m.-03:15 p.m.): Clock Reaction and Slime Formation

The two groups exchanged labs to perform the respective activities mentioned above.

Tea Break (03:15 p.m. and 03:30 p.m.)



Tea Break

Valedictory Session (03:30 p.m.-05:00 p.m.)

The valedictory session commenced at 03:30 p.m. and was attended by Prof. Deskyong Namgyal, Controller of Examinations at UoL, Madam Kaneez Fatima, Rector of Kargil Campus, UoL, Dr. Aijaz Ahmad Dar, Miss Melissa Mendonza, students, volunteers, and other esteemed guests.

The program started with the national anthem followed by a welcome address by Camp Coordinator Mr. Gh. Ali. He also presented a brief summary of the four-day Yusuf Hamied Chemistry camp. Miss. Melissa Mendonza thanked the authorities of the University of Ladakh for the successful completion of the program on behalf of the Royal Society of Chemistry and presented a gift on behalf of RSC to Prof. Deskyong Namgyal, Madam Kaneez Fatima, and Mr. Gh. Ali.

Following this, students from each group shared their views about the whole program. They expressed gratitude on behalf of their school and parents to the university authorities for conducting this wonderful program and providing them with opportunities to participate. The students also appreciated the management,

teacher mentors, and student volunteers for offering good accommodation, a variety of food items, wonderful demonstrations, lab facilities, and fun-filled activities.



Student feedback

Rector Kargil Campus Madam Kaneez Fatima, in her address to the audience, congratulated the whole team for successfully completing the program. She appreciated the unbiased feedback shared by different groups of students and encouraged them to actively participate in such programs for different and innovative learning.

Prof. Deskyong Namgyal, in his valedictory address, thanked the Royal Society of Chemistry for collaborating with the University of Ladakh and congratulated the organizing committee for the smooth and successful completion of the program. He advised the students to become active learners and perform such experiments in their schools to create interest in the field of science.

Certificates were distributed among the student participants and volunteers.



Certificate distribution



Facilitation to Guests

Dr. Hadi Ali presented a formal vote of thanks on behalf of Kargil Campus, University of Ladakh, to Prof. S. K. Mehta, Hon'ble Vice Chancellor UoL, Prof. Deskyong Namgyal, Controller of Examination UoL, Madam Kaneez Fatima, Rector Kargil Campus UoL, Dr. Aijaz Ahmad Dar, Assistant Professor Department of Chemistry University of Kashmir, Miss Milessa Mendonza, Program Executive RSC, Members of the organizing committee, Dr. Jaffar Ali Khan, Dr. Mehboob Ali, Dr. Mohd Taqi, and Dr. Mohd Saleem, students, and volunteers for their constant support and commitment to making the camp successful. He also acknowledged the hard work done by Camp Coordinator Mr. Gh. Ali, all the faculty members of the Chemistry department, Dr. Javed Ijaz Hussain, and Dr. Akbar Ali, as well as all the students of the Department of Chemistry. Special thanks were extended to the Education Department Kargil Union territory Ladakh for their active collaboration and for making the students available for the camp.

Between 05:00 p.m. and 05:30 p.m., there was an evening break, and students moved to GDC Kargil Sankoo Campus for Evening Activities, which included a Cultural Program.

Day 5

Students departed to their respective schools at 9:00 a.m. after having breakfast at the guest house.





Volunteers

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