

Inter-College Summer Training Program Report

The Inter-College Summer Training Program was organized by the Department of Chemistry, Shivaji College, University of Delhi under the aegis of DBT Sponsored Star College Scheme on "Green Fabrication of Nanostructures and their Characterization" under the supervision of Dr. Rangnath Ravi from 15th June - 30th June 2023. The program convenor was Dr. P.K.Sahu and Co-Convenor Dr. Richa Arora of Department of Chemistry. Total 25 students participated in this program from different colleges of University of Delhi.

The inaugural day of the program was felicitated by Professor Sharif Ahmad and the faculty members of the Department of Chemistry. The inauguration was commenced with auspicious lamp-lighting ceremony, followed by introduction of the workshop by Dr. Bhasha Sharma. This was then followed by an interactive lecture on green fabrication of nanoparticles and a brief discussion on its applications and characterization by Professor Dr. Sharif Ahmad.

About the Speaker

Dr. Sharif Ahmad, as Pro-Vice-Chancellor (Research & Consultancy) SGT University, Gurugram, NCR-Delhi, INDIA, is a Superannuated Professor of Materials Chemistry, did his Masters (1976) and Doctoral (1981) in Chemistry from AMU, Aligarh. In recognition of his work, He was nominated as a member of the prestigious American Chemical Society for three years (2015 - 2018) and had a membership of Royal Chemical Society, UK. Former Dean, Natural Science, Jamia Millia Islamia.

On the 2nd day, a lecture on green chemistry was conducted by Dr. Bhasha Sharma, followed by lecture on evolution of green chemistry and nanoparticles by Dr. Abhijeet Mishra. All the students were then given an assignment on the previous lecture. This was followed by a lecture on research protocols and publishing of articles by Dr. Rangnath Ravi. On Day 3, synthesis of iron oxide nanoparticles was introduced using co-precipitation method of FeSO_4 and FeCl_3 .

In the 2nd week of the Summer Training Program, synthesis of iron oxide, silver oxide, bimetallic nanoparticles and composites was conducted by students divided into 5 groups of 4-5 students each, using plant extract from different sources such as mulberry leaves, champa leaves, bougainvillea petals, etc.. The samples were then collected to be characterized later. Also a guest lecture was organised on the 9th day by Dr. Abhijeet Mishra on the green synthesis of nanoparticles.

In the 3rd week, after collecting samples from synthesis done, a visit was organised to Jamia Millia Islamia on 27th June 2023 for the characterization of the samples for each group such as UV-Visible Spectroscopy, X-Ray Diffraction, Zeta potential analyzer and FT-IR. On 28th June 2023, another visit was organised to IUAC to understand the working of various other characterization techniques like XRD, XRF, SEM and ICPMS.

The Valedictory Ceremony was then organized on 3rd July 2023 to mark the end of the workshop followed by submission of the reports by each student and also felicitation by the then Peincipal Professor Shiv Kumar Sahdev.

The resource person of the program

Dr. Rangnath Ravi, Department of Chemistry, Shivaji College, University of Delhi

Posters



SHIVAJI COLLEGE
NAAC Accredited Grade 'A'
UNIVERSITY OF DELHI
DEPARTMENT OF CHEMISTRY
under the aegis of DBT sponsored Star College Scheme
Organizes
Inter-College Summer Training
on
Green Fabrication of Nanostructures & their Characterization
15th June – 30th June, 2023

Venue: Chemistry Lab, Shivaji College
Resource Person: Dr. Rangnath Ravi

- ❖ Only under-graduate science students can apply.
- ❖ No Registration Fee.
- ❖ Limited seats are available (25).
- ❖ Certificate to all the participants on completion of training.

Convenor Dr. P. K. Sahu	Co-Convenor Dr. Richa Arora	Coordinator Dr. Renu Baweja	Principal Prof. Shiv Kumar Sahdev
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For any query, drop in a mail at starcollegechemshc@gmail.com

Photographs





Shivaji College
Star College Scheme
Department of Chemistry
Inter-College Summer Training
on






“Green Fabrication of Nanostructures and their Characterization”
from 15.06.2023 to 30.06.2023

Convenor: Dr. P. K. Sahu
Co-Convenor: Dr. Richa Arora

Attendance
Time: 10:00 AM to 4:00 PM

Name of the Participant	Name of the College/Institute	Name of the University	Name of the Course	Semester	Signature				
					19.06.2023	20.06.2023	21.06.2023	22.06.2023	23.06.2023
Ankit kumar Ray	Shivaji college	University of Delhi	B.Sc (H) Chemistry	II	<i>Ankit Ray</i>	<i>Ankit Ray</i>	<i>Ankit Ray</i>	<i>Ankit Ray</i>	<i>Ankit Ray</i>
Ashish napit	Shivaji college	Delhi University	B.Sc (H) Chemistry	IV	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>
Vipul mishra	Shivaji College	Delhi University	B.Sc (H) Chemistry	II	<i>Vipul</i>	<i>Vipul</i>	<i>Vipul</i>	<i>Vipul</i>	<i>Vipul</i>

Rohit	Shivaji College	Delhi University	B.Sc (H) Chemistry	II	Rohit	Rohit	Rohit	Rohit	Rohit
Sayena Simron	Shivaji University of Delhi	University of Delhi	B.Sc (H) Biochemistry	IV	Sayena Simron	Sayena Simron	Sayena Simron	Sayena Simron	Sayena Simron
Jashika Sinha	Shivaji college Delhi University	Delhi University	B.Sc (P) Life Science	II					
Priyanshu verma	Deen dayal upadhyaya collage	University of Delhi	B.Sc (P) Physical Science with Chemistry	IV	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu
Mohit	Deen dayal upadhyay college	Delhi University	B.Sc (P) Physical Science with Chemistry	IV	Mohit	Mohit	Mohit	Mohit	Mohit
Tanya Gupta	Deen Dayal Upadhyay a college	University of Delhi	B.Sc (H) Chemistry	VI	Tanya	Tanya	Tanya	Tanya	Tanya
Neha	Deen Dayal Upadhyay a college, University of Delhi	University of Delhi	B.Sc (H) Chemistry	Just completed 6th semester	Neha	Neha	Neha	Neha	Neha

Aayush Munjal	Sri Guru Tegh Bahadur Khalsa College	Delhi University	B.Sc (H) Chemistry	Sixth crossed	<u>Aayush</u>	<u>Aayush</u>	<u>Aayush</u>		<u>Aayush</u>
Harshita	Rajdhani college	Rajdhani college	Bsc applied physical science with industrial chemistry	VI					
Geetanjali Ahuja	Rajdhani College	Delhi University	Bsc Applied Physical Science with Industrial Chemistry	VI					
Utkarsh Singh	SGTB KHALSA COLLEGE	Delhi University	B.Sc (H) Chemistry	VI					
Vandana	Shivaji college	Delhi University	B.Sc (H) Biochemistry	Sem-5	<u>Vandana</u>	<u>Vandana</u>	<u>Vandana</u>	<u>Vandana</u>	<u>Vandana</u>
Jaskirat Kaur	Sri Guru Tegh Bahadur Khalsa College, Delhi University	University of Delhi	B.Sc (H) Chemistry	IV					
Baldeep kaur	SRI GURU TEGH	Delhi University	B.Sc (H) Chemistry	IV					

	BAHADUR KHALSA COLLEGE								
Versha Sharma	Daulat Ram College	University of Delhi	B.Sc (H) Chemistry	VI	<u>Vsharma</u>	<u>Vsharma</u>	<u>Vsharma</u>	<u>Vsharma</u>	<u>Vsharma</u>
Hafsa azmi	Shivaji college	Delhi University	B.Sc (P) Life Science	II					
Kritika Sharma	Shaheed rajguru college of applied science for women	Delhi university	B.Sc (H) Chemistry	VI					
Karishma	Shri Guru Tegh Bahadur Khalsa College	Delhi University	B.Sc (H) Chemistry	5th					
Uditi Singhal	Ramjas College	University of Delhi	B.Sc (H) Chemistry	VI	<u>U Singh</u>	<u>U Singh</u>	<u>U Singh</u>	<u>U Singh</u>	<u>U Singh</u>
Vaishnavi	Deen Dayal Upadhyay a College	Delhi University	B.Sc (H) Chemistry	VI					

Amandeep kaur	Sgtb Khalsa College	Delhi University	B.Sc (H) Chemistry	Completed the college	<u>Amandeep</u>	<u>Amandeep</u>	<u>Amandeep</u>	<u>Amandeep</u>	<u>Amandeep</u>
Shivangi Aggarwal	SHIVAJI COLLEGE	Delhi University	B.Sc (H) Biochemistry	IV	<u>Shivangi</u>	<u>Shivangi</u>	<u>Shivangi</u>	<u>Shivangi</u>	<u>Shivangi</u>
Dharun sahai	Daulat ram	Dlehi university	B.Sc (H) Chemistry	II	<u>Dharun sahai</u>				
Anupama Thakur	Shivaji college	University of Delhi	B.Sc (P) Life Science	II					
Sparsh Aggarwal	Shivaji College	University of Delhi	B.Sc (H) Biochemistry	IV	<u>Sparsh</u>	<u>Sparsh</u>	<u>Sparsh</u>	<u>Sparsh</u>	<u>Sparsh</u>
Ashu	Bhaskar Acharya applied sciences college	Delhi University	B.Sc (H) Botany	II					
Jasleen kaur	SRI GURU TEGH BAHADUR KHALSA COLLEGE DU	DU	B.Sc (H) Chemistry	Appeared in exams for sem 6	<u>Jasleen kaur</u>	<u>Jasleen kaur</u>	<u>Jasleen kaur</u>	<u>Jasleen kaur</u>	<u>Jasleen kaur</u>
KIRTI ARORA	S.G.T.B KHALSA	DELHI UNIVERSITY	B.Sc (H) Chemistry	VI	<u>Kirti Arora</u>	<u>Kirti Arora</u>	<u>Kirti Arora</u>	<u>Kirti Arora</u>	<u>Kirti Arora</u>

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 College EMail: Sachidanand 766 @ gmail . com ; MB: 9818631165

	COLLEG E								
Tanisha Kaur	SGTB Khalsa	Delhi University	Bsc. (H) Chemistry	Under cond	Tanisha Kaur <u>Gkaur</u>	Tanisha Kaur <u>Gkaur</u>	Tanisha Kaur <u>Gkaur</u>	Tanisha Kaur <u>Gkaur</u>	Tanisha Kaur <u>Gkaur</u>
Gracie Kaur	SGTB Khalsa College	Delhi University	BSc (Hons.) Chemistry	VI					