

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
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HANSRAJ COLLEGE

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Mahatma Hansraj Marg
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NAAC ACCREDITED 'A++' GRADE COLLEGE

2022-2023

Name of the Department/Society: Rasayanatva- Chemical Society

Name of the Event: Synthesis of Novel Azaheterocycles via Flourishing C-H Activation Approach

Date of the Event: 1st April 2023

RASAYANATVA
The Chemical Society of Hansraj College
Presents <<<
Webinar on
**SYNTHESIS OF NOVEL AZAHETEROCYCLES VIA
FLOURISHING C-H ACTIVATION APPROACH**

Date : 1st April 2023
Time : 2:00 PM to 3:30 PM
Platform: Google Meet

>>> Speaker : Dr. Rajeev Sakhujia
Associate Professor
Department of Chemistry
Associate Dean, Alumni Relation
division BITS Pilani

Scan here

Patron Platinum Jubilee Celebration Convener Teacher in charge Chemical Society Convener Webinar Convener
Prof.(Dr.) Rama Dr. Shailu Singh Dr. Manoj kumar Dr. Anjali Saxena Dr. Sunita Gulia

An interactive session was organized by 'Rasayanatva- Department of Chemistry' on 1st April 2023 from 2:00 to 3:30 PM via online Google meet platform. **Dr. Rajeev Sakhujia** – Associate Professor, Department of Chemistry, Associate dean, Alumni relations division BITS Pilani was the respective speaker of the webinar who gave a highly facilitated approach to Novel synthesis in the field of research.

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The session was initiated with a special vote of welcome for the respected speaker in the presence of the convener of the society, Dr. Anjali Saxena. This was followed with a brief introduction of Dr. Rajeev Sakhuja, his field of study and research.

The session was highly informative where the students were taught about *'how actually research work is carried out in the field of organic chemistry!* Concept and difference between conventional and modern chemistry, synthesis of aliphatic and aromatic organic compounds, nickel and cobalt chemistry, use of enzymes as catalyst, modern flourishing chemistry: C-H activation, difference between catalytic and stoichiometric amount. Besides theoretical aspects, he also talked about the practical aspects regarding importance of presentation in research papers and journals along with the vitality of NMR spectra, UV spectra and mass spectra for any organic chemist to characterize organic compound. Many illustrations of his own research work was also shown. This was followed with a doubt session with the students who actively showed their enthusiasm in it through participation. The event was thus concluded with a special vote of thanks to the Dr. Rajeev Sakhuja for sharing a part of his knowledge and time with the students.

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Directing Group-aided C-H Activation". The slide lists limitations of C-H activation strategies and provides a flowchart of various C-H activation methods. The right side of the screen shows a grid of participants, including Harshil Upadhyay, Arpan Parashar, Yash Tuli, FIZA NATHAN, Neha Kumari Meena, Vivek Anand, and 21 others. At the bottom, a "GPS Map Camera" widget displays the location: Delhi, Delhi, India (M6H5+MJX, Hansraj College, Delhi, 110007, India) with coordinates Lat 28.679182° and Long 77.208948°, and the time 01/04/23 02:44 PM GMT +05:30.

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Ubiquitous Diazaheterocycles

Thiazolo[5,4-b]pyridine (Thiazopyridine)
Imidazo[4,5-b]pyridine (Indazole)
Zwitteral (Aldose reductase inhibitor)
Azaestrine (Fluorine antagonist)

PHTHALAZINE ↔ INDAZOLE

Delhi, Delhi, India
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Directing Group-aided C-H Activation

Limitations in C-H Activation strategies can be resolved by

- By the correct choice of the catalyst, additive and fine tuning of the reaction conditions.
- By the steric and electronic effects.
- By the use of "Directing Groups" (most successful approach).

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Attendance list of students present in the webinar:

NAME	Course
1. Anamika saini	Bsc hon's chemistry
2. Ankit kumar	Bsc hon's chemistry
3. Anuj kumar maurya	Bsc hon's chemistry
4. Aryaman parashar	Bsc hon's chemistry
5. Ayush Shrivastava	Bsc hon's chemistry
6. Ayushi kaushik	Bsc hon's chemistry
7. Gagandeep	Bsc hon's chemistry
8. Garv jain	Bsc hon's chemistry
9. Gehna Ratra	Bsc hon's chemistry
10. Harshit Upadhyay	Bsc hon's chemistry
11. Deepak Gupta	Bsc hon's chemistry
12. jaiveer malik	Bsc hon's chemistry
13. janhvi nagar	Bsc hon's chemistry
14. jatin pancherwal	Bsc hon's chemistry
15. kamesh singh	Bsc hon's chemistry
16. KD mba	Bsc hon's chemistry
17. khushi gupta	Bsc hon's chemistry
18. mohammad adnan	Bsc hon's chemistry
19. Monika kumari	Bsc hon's chemistry
20. Nehanth yenneti	Bsc hon's chemistry
21. prateek chaurasia	Bsc hon's chemistry
22. prince kumar sharma	Bsc hon's chemistry

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23.prince malik	Bsc hons chemistry
24.priyanshi rajput	Bsc hons chemistry
25.Rahul arya	Bsc hons chemistry
26.Ritika yadav	Bsc hons chemistry
27.Ritul sharma	Bsc hons chemistry
28.Rohan joshi	Bsc hons chemistry
29.Sahil chaudhary	Bsc hons chemistry
30.shivanch gupta	Bsc hons chemistry
31.Sneha kaur	Bsc hons chemistry
32.Sneha soni	Bsc hons chemistry
33.suraj jaiswal	Bsc hons chemistry
34.ujawal	Bsc hons chemistry
35.vivek anand	Bsc hons chemistry
36.yash Tak	Bsc hons chemistry
37.Yashi singh	Bsc hons chemistry
38.Fiza naithani	Bsc hons chemistry
39.Neha kumari	Bsc hons chemistry
40.sanskriti rajpoot	Bsc hons chemistry
41.Ayush sudan	Bsc hons chemistry
42.Anjali Saxena	
43.Sunita Gulia	
44.Shailendra Singh	