



Goa University

School of Chemical Sciences

Report on: How to Teach Organic Chemistry in 21st Century (A new approach for improved teaching and research)

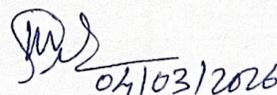
Title of the Event/Activity/program	“How to teach Organic chemistry in 21st century” A new approach for improved teaching and research.
Date and Time	27 th February 2026, 3:30 PM
Mode of conduct	Physical
School/ Directorate	School of Chemical Sciences
Collaborating Agency	Chemistry Department Faculty and Alumni Association (CDFAA)
Detail of the Resource Person (Brief biodata)	Prof. P. S. Kalsi, Professor (retd.), Punjab Agricultural University Academic Author, The Lifetime Achievement Awardee in Chemical Education and Research.
Number of Faculty attended	52
Number of Student attended	73
The objectives of the Program/activity/ event	The primary objective of the guest lecture was to expose faculty members and postgraduate students to contemporary and concept-driven approaches for teaching Organic chemistry in the 21st century. The session aimed to emphasize the need for conceptual understanding over rote learning, strengthen the linkage between classroom teaching, laboratory training, and research, and encourage the adoption of innovative pedagogical strategies. Another key objective was to sensitize participants to emerging interdisciplinary areas such as green chemistry and molecular science, thereby motivating curriculum enrichment aligned with global academic trends.
Description of the Program/activity/	On occasion of National Science Day, the School of Chemical Sciences in association with CDFAA organized the Guest lecture “ <i>How to Teach Organic Chemistry in the 21st Century</i> ” delivered by eminent organic chemist Prof. P. S.

<p>event</p>	<p>Kalsi. In his insightful presentation, Prof. Kalsi critically examined the existing gaps in the Indian higher education system, particularly the weak integration between theory, laboratory work, and research. He strongly encouraged a shift from rote learning to concept-based and story-based teaching, stressing that teachers should “uncover rather than merely cover” the syllabus. Through several classical and contemporary examples—including Marker’s work on steroid hormones, stereo chemical effects in organic reactions, enzyme mechanisms, and green chemistry approaches—he demonstrated how fundamental concepts can be taught in an engaging and application-oriented manner.</p> <p>Prof. Kalsi highlighted the importance of strengthening laboratory training by incorporating experiments that directly reinforce theoretical concepts such as stereochemistry, elimination reactions, neighboring group participation, and nucleophilic substitutions. He also emphasized interdisciplinary integration, the role of green chemistry, and the need to redesign evaluation systems to improve students’ analytical and writing skills.</p> <p>The lecture was highly interactive and intellectually stimulating, providing participants with practical guidelines to improve both teaching and research orientation in Organic Chemistry.</p>
<p>Benefit/Key outcomes of the Program/activity/event</p>	<p>The lecture proved highly enriching for faculty members and students alike. Participants gained valuable insights into modern pedagogical practices, particularly the importance of conceptual clarity, research-linked teaching, and meaningful laboratory integration. Faculty members were encouraged to redesign their teaching strategies to make chemistry more engaging, interdisciplinary, and application-driven.</p> <p>The session also heightened awareness about curriculum modernization, green chemistry inclusion, and outcome-based assessment methods. Students benefited from exposure to deeper conceptual thinking and the relevance of fundamental organic chemistry in real-world applications.</p> <p>Overall, the program significantly contributed to enhancing teaching effectiveness, promoting research-oriented learning, and strengthening the academic ecosystem at the School of Chemical Sciences.</p>



Dr. Diptesh G. Naik

Convener, SCS



Prof. V.M.S. Verenkar

Dean, SCS





Goa University
School of Chemical Sciences
in association with
Chemistry Department Faculty & Alumni Association
(CDFAA)



Organises

Guest Lecture by

Prof. P. S. Kalsi

On the topic

*“How to teach Organic Chemistry
in 21st Century”*



Speaker: Prof. P. S. Kalsi,

*Professor (retd.), Punjab Agricultural
University, Ludhiana; Academic Author*

*The Lifetime Achievement Awardee in
Chemical Education and Research.*



27th February, 2026
at 3.30 pm

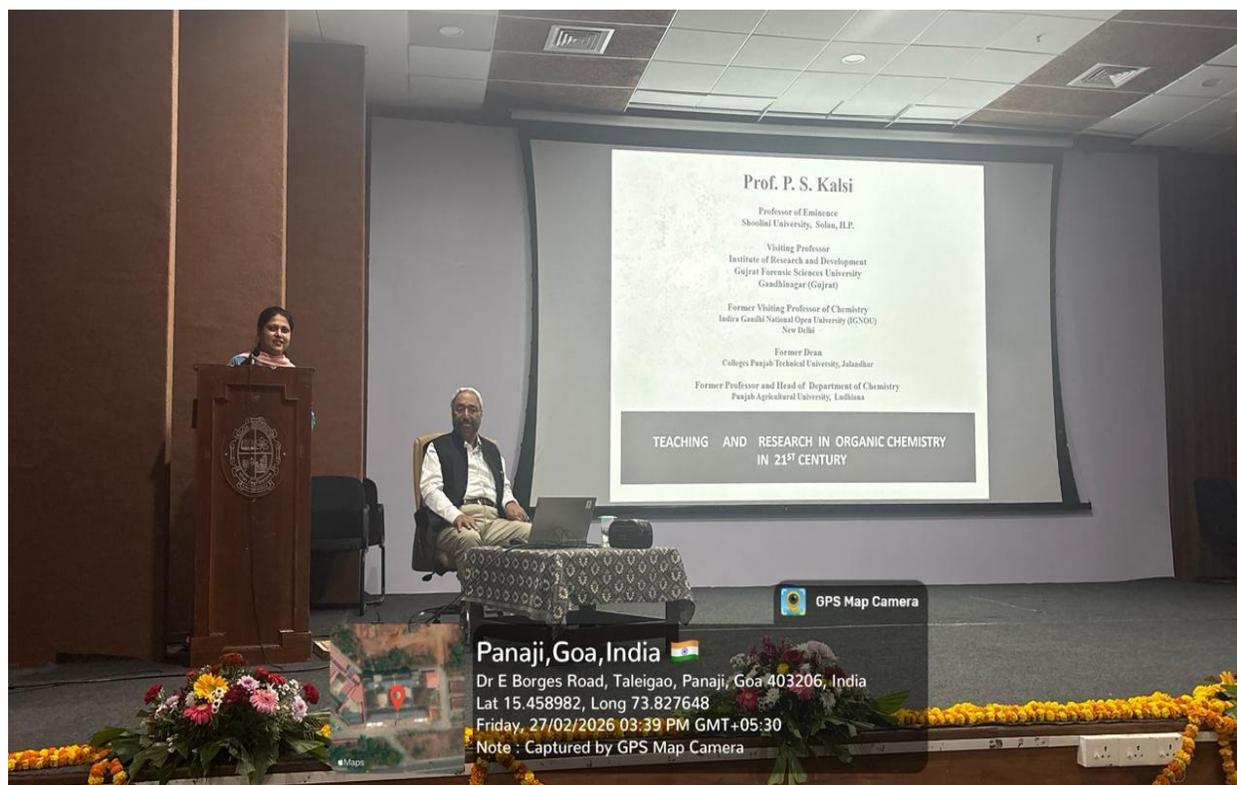
Auditorium, SCS, GU.

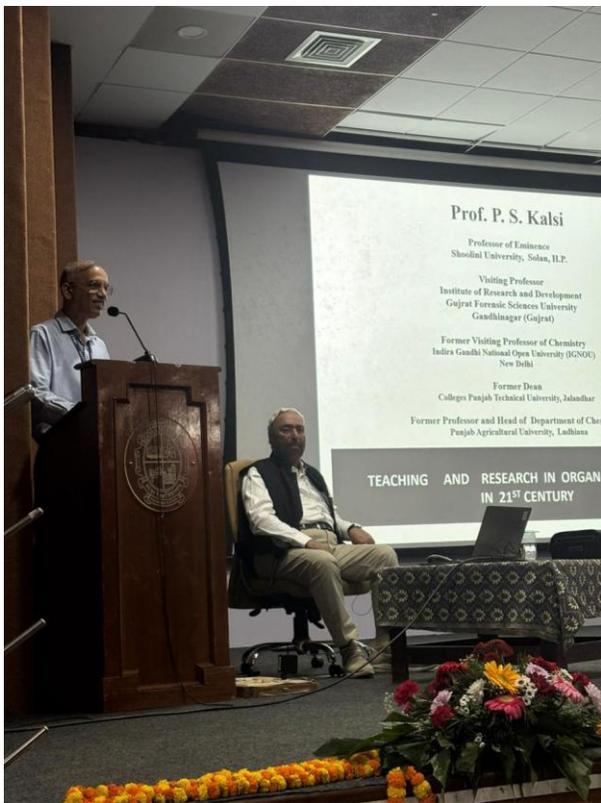
All are Cordially Invited!!

Dr. Diptesh G. Naik
SCS Coordinator

Prof. Vishnu S. Nadkarni
President, CDFAA

Prof. V. M. S. Verenkar
Dean, SCS







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Science Day Talk on "How to Teach Organic Chemistry in the 21st Century"
by Prof P. S. Kalsi

Registration for SCS students MSc/PhD

Venue- SCS Auditorium

Date: 27/02/2026 at 3.30 pm

Sr. No.	Name of students	Discipline/ MSc I/II/PhD	Sign
1.	Vanita Kunkalkar	Research student	
2.	Ria Colaco	"	
3.	Deepthi K. Velip	Research scholar	
4.	Manusha M. Gaonkar	Research scholar	
5.	Asonita Naik Gaonkar	Research scholar	
6.	Shefali S. Ainkar	Research scholar	
7.	Creora Oliveira	Research Scholar	
8.	Amisha Shirvoikar	MSc- part II	
9.	Samidha Nazvekar	Research Scholar	
10.	Shradha R. Thanekar	Research scholar	
11.	Manasi Ugvekar	Research scholar	
12.	Sonam Kumari	Research scholar	
13.	Upma Gaonkar	Research scholar	
14.	Ayesh Dsouza	MSc part II Organic	
15.	Saniya Korkankar	MSc part II Organic	
16.	Madhusri Gaikwad.	Research scholar	
17.	Anuja Nankar	"	
18.	Apatsba H. Moil	Research scholar	
19.	Pritesh P. Khobsekar	Research scholar	
20.	Manjita Gauns Dessai	MSc part II organic	
21.	Akanksha Betodkar	MSc part II organic	

22	Sonali S. Gaonkar.	Research Scholar	<i>[Signature]</i>
23	Ranjet R. Gawade	Research scholar	<i>[Signature]</i>
24	Priyanka S. Modak	Research Scholar	<i>[Signature]</i>
25	Saloni S. Mandrekar	Student	<i>[Signature]</i>
26	Smil Naik	Student	<i>[Signature]</i>
27	Tanura Mendonca	Student	<i>[Signature]</i>
28	Debahuti Nath.	Student	<i>[Signature]</i>
29	Ritusha Palyekar	Student	<i>[Signature]</i>
30	Sanika Patil	"	<i>[Signature]</i>
31	Tamanna Sheikh	"	<i>[Signature]</i>
32	Nomdev Patil	"	<i>[Signature]</i>
33	Shivani Pagui	"	<i>[Signature]</i>
34	Prasiddhi Narvekar	"	<i>[Signature]</i>
35	Tanishka Kerekar	"	<i>[Signature]</i>
36	Prajakta Chari	"	<i>[Signature]</i>
37	Kantik Sawant	"	<i>[Signature]</i>
38	Kalyani Sangalkar	"	<i>[Signature]</i>
39	Adity Dias	"	<i>[Signature]</i>
40	Kuldeep Lotulkar	"	<i>[Signature]</i>
41	Charvi Lotlikar	"	<i>[Signature]</i>
42	Siddhi K. Salgaonkar	"	<i>[Signature]</i>
43	Pavan Patil	"	<i>[Signature]</i>
50	Shirani Sarj	"	<i>[Signature]</i>
51	Kajal Salgaonkar	"	<i>[Signature]</i>
52	Medha Gaude	"	<i>[Signature]</i>
53	Nikshita Naik	"	<i>[Signature]</i>
54	Vaishnavi V. Modkari	"	<i>[Signature]</i>
55	Sonam Subhash Gihadi	"	<i>[Signature]</i>
56	Apeksha Nayak.	"	<i>[Signature]</i>
57	Sanika Kudaple	"	<i>[Signature]</i>
58	Vaishnavi Naik	"	<i>[Signature]</i>
59	Pranjal M. Gaude	"	<i>[Signature]</i>
60	Riddhi Naik	"	<i>[Signature]</i>
61	Jaivith Raj	"	<i>[Signature]</i>
62	Pratik A. Naik	"	<i>[Signature]</i>
63	Shrutika Fadte	"	<i>[Signature]</i>
64	Siya Tari	"	<i>[Signature]</i>

Sr.No.	Name of Students	Discipline	Sign
65	Mestali Korgankar	Biochemistry Part II	<u>Mestali</u>
66	Ashral Fernandes	Biochemistry Part II	<u>Ashral</u>
67	Suvidha S. Naik	MSC-Part I	<u>Suvidha</u>
68	Saloni R. Sail	"	<u>Saloni</u>
69	Chiquita de Oliveira	"	<u>Chiquita</u>
70	Kalpita U. Gaude	"	<u>Kalpita</u>
71	Shubhkhumi Naik	Research scholar	<u>Shubhkhumi</u>
72	Asmita Naik (asdr)	Research Scholar	<u>Asmita</u>
73	Kathleen C. Putri	Research Scholar Teacher	<u>Kathleen</u>

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Science Day Talk on "How to Teach Organic Chemistry in the 21st Century"

by Prof P. S. Kalsi

Registration for Faculties

Venue- SCS Auditorium

Date: 27/02/2026 at 3.30 pm

Sr. No.	Name of Faculty	College/Institute	Sign
1	Dr. Vinod Khandekar	SCS, Goa Univ.	[Signature]
2	Dr. Gayatri Kulkarni	Ganpat Parshkar College SCS, U of Education	[Signature]
3	Mr. Saurav Kulkarni	SCS, Goa University	[Signature]
4	Dr. Shashank Mahale	Dhemp College, Muvattur	[Signature]
5	Dr. Sulochana Sher	SCS, GU	[Signature]
6	Dr. Krishan Singh	CSIR-NIO	[Signature]
7	Kashinatti Dharmakar	Goa University SCS	[Signature]
8	Dr. Souia B. Parshkar	Dhemp College of Arts & Science	[Signature]
9	Savita A. Khandekar	SCS, GU	[Signature]
10	Pranav Mohanikar	SCS, GU	[Signature]
11	Hilaryna Dsouza	SCS, GU	[Signature]
12	Dr. Deepika Karmalkar	SCS, GU	[Signature]
13	Dr. Amrita N. Vekrekar	SCS, GU	[Signature]
14	Dr. Kedar V. Namrekar	SCS, GU	[Signature]
15	Dr. Hari K. Kadam	SCS GU	[Signature]
16	Mavis J. Menzies	Grand College, Quezpen	[Signature]
17	Dr. Mayuri Gankar	Parvatibai Chougale College	[Signature]
18	SIDDHALI Y. GIRKAR	SCS GOA UNIV	[Signature]
19	Dr. Smita Gupta	P.E.S RSN College, Ponda	[Signature]
20	Ms. Priyanka Kavalekar	P.E.S RSN College, Ponda	[Signature]
21	Dr. Rajesh Parvatta	Govt. College, Khandola	[Signature]

22	Dr. Shrikant R. Naik	S.C.S	Sumit
23.	S. P. Kamat	Retd. Prof. of Org Chem.	Banaji
24.	Dr. Bhanudas Naik	Dhunge College	Banaji
25.	Dr. Luann R. D.	SCS	D.
26.	Dr. Prajesh S. W. Naik	SCS	Naik
27	V. S. Nadkarni	SCS	Medical
28	Bidhan A. Naik	SCS	Naik
29	V. M. S. Venkatesh	SCS	Naik
30	Jaydeep Bhattacharjee	—	Naik
31	Jivra Bhattacharjee	—	Naik
32	S. Krishnan	SBSB	Naik
33.	Dr. Diptesh Naik	SCS	Naik
34.	Dr. Sandesh T. Bunde	SCS	Naik
35.	Dr. Keishan S. Bils	CSIR-M10	Naik
36	Rohan K. Kunkalekar	SCS	Naik
37	Vinod Mandekar	SCS	Naik
38	Leo D'Souza	SCS	Naik
39	Aditya Dias	SCS	Naik
40	Kantik Sawant	SCS	Naik
41	Prasiddhi P. Naik	SCS	Naik
42.	Shivani Pagui	SCS	Naik
43.	Prayakta Chai	SCS	Naik
44.	Panwika Kerekar	SCS	Naik
45	Nitesh Vengle	SCS	Naik
46	Aniket S. Mandekar	SCS	Naik
47	Saurav Sattarke	SCS	Naik
48	Vignesh P. Naik	SCS	Naik
49.	Raneet R. Kawade	SCS	Naik
50	Sumel S. Naik	SCS	Naik
51.	Apeksha H. Naik	SCS	Naik
52	Madhuri Gaitwad	SCS	Naik