

Two-Day Workshop on "The Hidden Life of Spices"

- The Department of Chemistry, Kumari Vidyavati Anand D.A.V. College for Women, Karnal, organised a **two-day workshop** on the theme "*The Hidden Life of Spices*" on **October 17-18, 2025**, to mark the celebration of **National Chemistry Week (October 19-25, 2025)**. The workshop aimed to inspiring B.Sc. Students to explore the fascinating world of chemistry through the science behind everyday spices. The workshop commenced with a virtual expert lecture by **Prof. Neera Raghav, Professor, Department of Chemistry, Kurukshetra University, Kurukshetra**. Her talk focused on the chemical composition, therapeutic properties, and industrial significance of spices, offering valuable insights into their hidden scientific dimensions. Further, the workshop featured **hands-on practical demonstrations** in the Chemistry Lab for the **preparation of herbal products such as shampoo, talcum powder, nail polish, nail polish remover, and soaps**, during which participants actively explored the extraction and analysis of spice-derived components. The interactive sessions encouraged curiosity, creativity, and analytical thinking among the students.



**Kumari Vidyavati Anand
D.A.V. College for Women, Karnal**
Directly Managed by DAV College Managing Committee, New Delhi
 Affiliated to Kurukshetra University, Kurukshetra
 Affiliated with UGC 12(B) 2(i); ISO 9001, 14001 & 9001 Certified

Department of Chemistry
 organizes
Two-Day Workshop
 On account of
National Chemistry Week
 (Oct 19-25, 2025)
 Under the theme
The Hidden Life of Spices
 For Inspiring Young Scientists
October 17-18, 2025

Registration: 8th October-15th October, 2025
[Registration link: https://forms.gle/YT9Ch6iayoo1vuse8](https://forms.gle/YT9Ch6iayoo1vuse8)

PROGRAM SCHEDULE
 Time: 12:00 p.m. -2:00 p.m.

DAY 1: October 17, 2025
 Inaugural Session
 # Expert Lecture (Virtual)
 Venue: Room no. 16 B, Science Block

DAY 2: October 18, 2025
 Chemistry Lab 1
 # Practical Demonstration and Hands-on Practice

INVITED GUEST



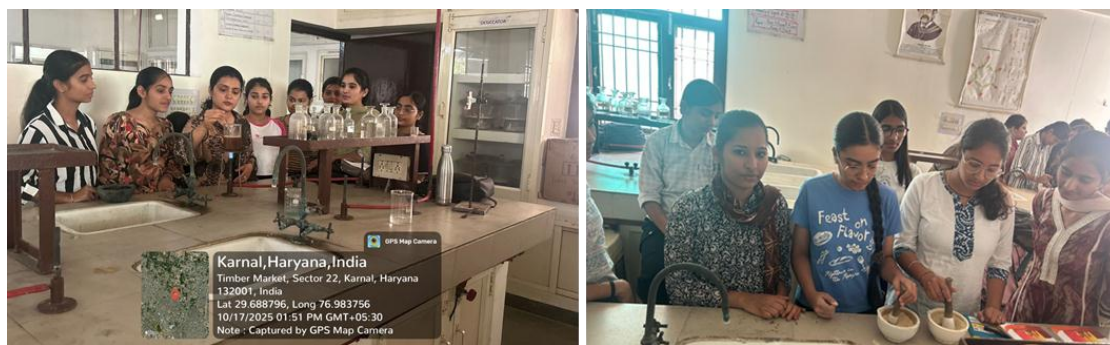
Prof. Neera Raghav
 Ex. Chairperson, Dept. of Chemistry
 Kurukshetra University, Kurukshetra

ORGANIZING COMMITTEE

Patron Ms. Meenu Sharma Principal (Off.)	Convener Dr. Manju Singh HoD, Department of Chemistry	Organizing Secretaries Ms. Swati, Dr. Priyanka, Dr. Rimi, Ms. Ritu
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Day 1 of workshop on "Hidden life of Spices": Prof. Neera Raghav, Department of Chemistry, Kurukshetra University, Kurukshetra presented an insightful virtual talk exploring the chemical composition, medicinal properties, and industrial significance of spices.



Chemistry students actively participating in hands-on training session for the preparation of herbal shampoo, soaps and talcum powder during two day workshop.



Day 2 of workshop on "Hidden life of Spices": Principal Ms. Meenu Sharma, Dr. Manju Singh (HoD, Chemistry Department) along with the faculty members of Chemistry Department (Left), Students holding their participation certificates with the faculty members of department (Right).



Day 2 of workshop on "Hidden life of Spices": Bridging knowledge and experience- students in conversation with the Principal Madam (Left), Students holding their participation certificates with the faculty members of department (Right).

COVID-19 Crisis

NOVEL CORONAVIRUS (COVID-19)

Protect yourself and others! Follow these Do's and Don'ts

Do's:

- Wash your hands frequently with soap and water for at least 20 seconds.
- Wear a face mask in public places.
- Avoid close contact with people who are sick.
- Stay home if you are sick.
- Use hand sanitizer if soap and water are not available.
- Avoid touching your face, especially your eyes, nose, and mouth.
- Cover your mouth and nose with a tissue when you cough or sneeze.
- Dispose of used tissues in the trash.
- Clean and disinfect frequently touched objects and surfaces.
- Avoid sharing personal items like cups, utensils, and towels.
- Get a flu shot every year.
- Stay up to date on your COVID-19 vaccine.

Don'ts:

- Don't go to work or school if you are sick.
- Don't visit nursing homes or long-term care facilities.
- Don't travel internationally if you are sick.
- Don't attend large gatherings or events.
- Don't ignore your symptoms.
- Don't panic.
- Don't run.
- Don't overstock.

Immunization Measures for Self-Care

There is enough of everything, everybody for everyone. Don't Panic. Don't Run. Don't Overstock.

Together we can fight COVID-19

For further information, Call at Ministry of Health, Govt. of India: 1800-11-2222 (toll-free) or visit: www.moh.gov.in

Chemistry: rimi, Marju, swati, Ritu, dr. n

Curcumin

Anti-inflammatory

- Inhibits RACE1 up-regulation⁽³⁸⁻⁴¹⁾
- Salt bridge disruption⁽⁴²⁾
- CapS APP height⁽⁴³⁾
- Inhibits GSK-3 β , activates Wnt signalling^(44,45)
- Inhibits inflammation^(46,47,48,49)

Antioxidant

- Enhances A β phagocytosis by microglia/macrophages^(50,51)

Diagnostic marker

Curcumin: reported mechanisms of action. BACE1, β -APP-cleaving enzyme-1; A β , β amyloid; APP, amyloid precursor protein.

Neuroprotection

- Binds A β ⁽⁵²⁻⁵⁴⁾
- Inhibits A β aggregation and deposition^(55,56,57,58,59,60)
- Reduces oxidative stress^(61,62,63,64,65,66,67,68,69,70)
- Promotes neuroplasticity and cell growth^(71,72)
- Lowest cholesterol levels^(73,74)
- Inhibits acetylcholinesterase activities^(75,76)
- Cognition

Fluorochrome ⁽⁷⁷⁻⁷⁹⁾

N. Bagban, Department of Chemistry, K.U.E.

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UTI-Turmeric + Amla

Weight Reduction-Turmeric+Cinnamon + Ginger

Anti-inflammatory-Turmeric + Milk + Fat

Topical applications- Cosmetics (Batna) + Injury(Band-Aid)

Etc. etc. etc.

Chemistry: rimi, Marju, Priyanka, Ritu, dr. n

The Countries With the Highest COVID-19 Death Toll

Countries with the highest number of COVID-19 deaths (as of Jun. 20, 2021)

Country	Deaths	Deaths per 100k population
United States	601,824	183
Brazil	501,825	238
India	388,135	28
Mexico	231,187	181
Peru	190,202	585
United Kingdom	127,976	191
Italy	127,270	211
Russia	127,206	88
France	109,844	164
Colombia	99,934	199

Sources: Johns Hopkins University, World Bank

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