

# HINDU COLLEGE

Under the aegis of DBT Star College Scheme and IQAC

In Collaboration with

## Royal Society of Chemistry

Brings

## TEACHER'S TRAINING PROGRAM

### RSC PROFESSIONAL DEVELOPMENT PROGRAM FOR SCIENCE TEACHERS AT SCHOOL LEVEL

#### TRAINING OBJECTIVES

- Equip teachers with effective science teaching tools
- Introduce active learning techniques for science teaching
- Explore science topics, misconceptions, and practical experiments

#### TRAINING METHODOLOGY

- Learn and explore active learning techniques as a teacher
- Use an active, hands-on approach with group activities and discussions
- Spaced-out workshops allow for practical implementation and clarification.

#### TRAINING MODULES

- **Workshop 1 (4 hours):** Introduction to active learning and lesson planning
- **Workshop 2 (3 hours):** Hands-on experiments, games, and use of technology in active learning
- **Workshop 3 (3 hours):** Addressing difficult science concepts, overcoming misconceptions, and introducing new active learning techniques

#### TRAINING OUTCOMES

- Expand teaching techniques with active learning strategies and evaluate science definitions
- Plan and execute active learning lessons using resources from the Royal Society of Chemistry website
- Use group work and diagnostic questions to challenge misconceptions and teach abstract ideas in science.

**WHO CAN ATTEND?** The Training is aimed at High School Science Teachers.

**NUMBER OF TEACHERS:** 25 to 45 teachers in one batch.

**DURATION:** Total 10-12 hours on both the days combined.

**LOGISTICS AND TEACHING RESOURCES:** The workshop will be conducted at Hindu College Campus. **RSC will provide useful resource materials to all the teachers who are attending.**

**DATE:** 6-7 June, 2023

**TIME:** 10:00 AM - 5:00 PM

**VENUE:** Hindu College,  
University of Delhi  
(Entry through gate no. 4)

#### Resource persons

*Jaya P. Swaminathan  
Teacher Developer, RSC*

*Bhakti A. Dhamdhare  
Programme Coordinator, RSC*

## About RSC

**Royal Society of Chemistry (RSC)** world's leading chemistry community, advancing excellence in the chemical sciences. A **not-for-profit organization** based in UK with a heritage that spans **175 years**, we undertake many education projects across the globe including India,, where-in we do a largescale science empowerment project in India under the banner of **Yusuf Hamied Inspirational Science Programme**, envisioning to enhance the skills and knowledge of Indian science teachers as well as inspire school students to study chemistry at university.

## About Hindu College

Poised at the threshold of **125 years** of its existence, Hindu College, which started with thirteen students and six teachers in **1899**, has now grown into one of the most coveted higher education institutions in the country with **more than 4,000 students and 200 teachers**, offering undergraduate courses in 19 disciplines and post-graduate programmes in **15 disciplines in humanities, science, and commerce**.

The college holds an exemplary position amongst the various educational institutions in our country and secures **top rankings in India Today College Rankings** and is placed **2nd in NIRF**, and it has also received an **A+ Grade** from NAAC in Cycle I.

## Success Numbers

- **23,000 science teachers** trained - almost triple the initial.
- **9,000 schools** in 26 states.
- **1,000 workshops** were conducted.
- **40 Teacher developers** received master training.
- **1,600 students attended chemistry camps** at the leading universities (50% of them are female students).
- Camps conducted in **10 regional languages**.
- Over **150 Indian partners**.

## Training Schedule

Allocated time	Programme
<b>Day 1</b>	
10.00am – 5.00pm	Workshop 1 - Moving towards active learning (4 hours) + Workshop 2 (1 hour)
<b>Day 2</b>	
10.00am – 5.00pm	Workshop 2 - Hands on science experiments (2 hours) + Developing Active Learning Techniques in Science (1 hour) + Use of games
	Workshop 3 - Taking Active Learning Techniques further in Science (2 hours)
5.00pm – 5.30pm	Evaluation/Feedback/Certificate

## Organizing Committee

Prof. R. K. Sharma  
Honorary Secretary, RSC  
North India Section

Prof. Anju Srivastava  
Principal, Hindu College  
Member, RSC

Prof. Reena Jain  
Vice Principal, Hindu College  
DBT Star Coordinator

Dr. Sriparna Dutta  
Member, RSC

Dr. Rajesh Kumar  
DBT Coordinator,  
Department of Botany

Dr. Devanshi Magoo  
DBT Coordinator,  
Department of Chemistry

Prof. Pragati Ashdhir  
DBT Coordinator,  
Department of Physics

Dr. Anupam Varshney Sharma  
DBT Coordinator,  
Department of Zoology

Dr. Divya Mohanty  
Department of Botany

Dr. Dinesh Kumar  
Department of Chemistry

Dr. Reema Gupta  
Department of Physics

Dr. Amit Tanwar  
Department of Physics