



**RPS DEGREE COLLEGE**



Under the aegis of RPS Education Society, M/Garh



# National Workshop on Methods for Assessing Soil Properties

**30-31 January, 2025**

*organized by:*

**DEPARTMENT OF BOTANY**

**RAO PAHLAD SINGH DEGREE COLLEGE, MAHENDERGARH**

*in collaboration with*

**GOVERNMENT PG COLLEGE, NARNAUL**



[www.rpsdegreecollege.edu.in](http://www.rpsdegreecollege.edu.in)

### Introduction:

Soil is a critical component of ecosystems, influencing both plant and animal life. As botany and zoology students, understanding soil properties and their impact on the environment is essential for studying ecological dynamics, plant growth, and animal habitats. The workshop, "Methods for Assessing Soil Properties" offers an in-depth exploration of soil science from the perspectives of both plant and animal life, emphasizing the interrelationship between soil health, plant development, and ecosystem sustainability.

### Objective:

The primary objective of this workshop is to provide botany and zoology students with hands-on training in soil analysis and an understanding of its impact on plant growth, animal habitats, and overall ecosystem health. By examining essential soil properties, participants will gain insights into how soil management affects both plant vitality and the organisms that depend on them, from insects to larger wildlife.

### About the RPS Degree College:

RPS Degree College, established in 2012 under the RPS Education Society, has rapidly gained recognition in Haryana for its academic excellence, sports achievements, and extracurricular activities. Nestled in the picturesque Aravalli Hills, the college offers a diverse range of programs, including B.A., B.Sc. (Pass Course), B.Sc. Honors (Physics, Chemistry, Mathematics, Zoology & Botany), B. Com, M.Sc. (Physics, Mathematics, Chemistry, Botany, Zoology, Geography), and M.Com.

With a highly qualified faculty, modern laboratories, and a commitment to holistic student development, RPS Degree College prepares students to excel both in India and abroad. The college is dedicated to providing quality education and nurturing talent, ensuring students are ready to contribute effectively to society and their chosen professions.

### About the Department of Botany, RPS Degree College:

The Department of Botany at RPS Degree College, established in 2012, offers a comprehensive three-year B.Sc. program focused on plant sciences. With a dedicated faculty, the department ensures high-quality education, preparing students for careers in research, education, and the biotech industry. It features state-of-the-art laboratory facilities in areas like Plant Biochemistry and Molecular Biology, where students gain hands-on experience in techniques such as Chromatography, Electrophoresis, and Spectrometry. The department's extensive library supports academic growth with a vast collection of books and research materials. Additionally, specialized coaching for NET, IIT JAM, and guidance for other competitive exams like BARC and TIFR is provided, helping students pursue further academic and professional achievements in the field of botany.

### Target Audience:

This workshop is suitable for PG students of Botany, Zoology & Geography. No prior experience is required.

**Registration Process:** Registrations for the workshop are open through the provided link. There is no fee for participation, making it accessible to all interested individuals.

**Registration Link:** <https://forms.gle/VRdPkTai31C3WVud8>

**Deadline for Registration:** 29<sup>th</sup> January, 2025



**Selection and Notification:** After registration, selected candidates will be informed via email. Due to limited availability, please ensure that you complete the registration process at the earliest.

### PROGRAM SCHEDULE

Days	Events	Timings	Venue
Day-1 (30/01/2025)	Inaugural Function	09:30 AM- 10:30AM	
	Tea Break (10:30 AM -11:00 AM)		
	I Soil pH	11:00 AM- 12:00 PM	Room No 407, Botany Lab, PG Building, RPSDC
	II Soil Texture		
	III Specific Gravity Measure	12:00 PM –01:00 PM	
	IV Soil Volume Expansion		
	Lunch Break (01:00 pm – 01:30 pm)		
Hands-on-Session	01:30 PM-04:00 PM		
Day-2 (31/01/2025)	I Soil Moisture	09:30 AM –11:00 AM	Room No 407, Botany Lab, PG Building, RPSDC
	II Water Holding Capacity		
	III Apparent Density	11:30 AM –01:00 PM	
	IV Porosity Measurement		
	Lunch Break (01:00 PM – 01:30 PM)		
	Hands-on-Session & Assignment Submission	01:30 PM-03:30 PM	Room No 407, Botany Lab, PG Building, RPSDC
	Valedictory Function	03:30 PM – 04:05 PM	

## Chief Patrons



**Dr. Pavitra Rao**  
Chairperson, RPS GOI



**Er. Manish Rao**  
CEO, RPS GOI



**Dr. Mahesh K. Yadav**  
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**Dr. Devender Singh**  
Registrar, RPS GOI



**Prof. (Dr.) Puran Prabha**  
Principal, Govt. PG College, NNL

## Patrons

## Workshop Director



**Dr. Davender Singh**  
Principal, RPSDC

## Coordinator



**Dr. Hemant Kumar**  
Dean Academic, RPSDC

## Conveners



**Dr. D.R. Bharadwaj**  
Head, Department of Botany  
R.P.S. Degree College, Balana, Mahendergarh



**Dr. Satypal Sulodia**  
Head Department of Life Science  
Government PG College, Narnaul

## Organizing Secretaries

**Ms. Yogita Yadav**  
Head, Department of Zoology  
R.P.S.Degree College, Mahendergarh (HR)

**Dr. Sangeeta Gahalawat**  
Department of Botany  
R.P.S.Degree College, Mahendergarh (HR)

## Organizing Committee Members

### Dr. Vikas Gupta

Head, Department of Zoology  
Government PG College, M/Garh

### Mr. Jitender Kumar

Head, Department of Botany  
Government PG College, M/Garh

### Dr. Priyanka Sharma

Asst. Prof. Department of Zoology  
Government PG College, NNL

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Head PG Program, RPSDC

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Convener, Research & Development Cell, RPSDC

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### Mr. Anil Kumar

Head- Department of Geography, RPSDC