



NATIONAL INSTITUTE OF AYURVEDA

Deemed to be University (De Novo)

SUMMER TRAINING CAMP ON Q.C. PARAMETERS OF API DRUGS FOR SCHOLARS & TEACHERS OF DRAVYAGUNA

Brochure

(Camp starts on 31th May to 5th June 2025)

(6 days camp)



IMPORTANT INFORMATION

Register yourself to book your seat.

IMPORTANT DATES & INFORMATION

Brochure available on www.nia.edu.in & www.nia.nic.in from	6 th May 2025
Commencement of Application forms can be filled and submitted only online mode from our website www.nia.edu.in & www.nia.nic.in Along with Admission Fee	10 th May 2025
Last date of submission of application form along with Application Fees	23 th May 2025
Final list of selected candidates will be released on	24 th May 2025
Deposit of Course Fees by selected candidates	Within 5 days (24 th May–28 th May 2025)
Commencement of Classes	31 st May 2025
Application Fee	Rs.500.00 (General/OBC/EWS Candidates) Rs.250.00 (SC/ST/PH Candidates)
Course Fees	Rs.10000.00
Any other information will be updated on institute website www.nia.edu.in & www.nia.nic.in .	
Candidates are advised to visit the website regularly.	

About NIA

The National Institute of Ayurveda (NIA), established in 1976 by the Government of India, serves as the country's apex institution for advancing Ayurvedic education, research, and clinical practices with a scientific approach. NIA Offers UG, PG, and postdoctoral programs alongside specialized short-term courses for Indian and foreign nationals. NIA plays a crucial role in setting Standards, Guidelines, and Policy making of AYUSH sector by its technical inputs. In 2020, it was granted deemed-to-be university status, further strengthening its academic and research contributions to Ayurveda.

About Department of Dravyaguna Vigyan

Dravyaguna Vigyan is a core branch of Ayurveda that explores the Rasa, Guna, Virya, Vipaka and Prabhava (pharmacokinetics and pharmacodynamics) of Dravya, including their Identification, Collection, Storage, and Preservation. The Department engages in Research, Teaching, and Training across all academic levels. The Department facilitates a Regional Repository along with Museum to display authentic raw drug. The Department also operates herbal gardens within and outside the campus. Department is Equipped with a Pharmacognosy and Phytochemical Laboratory, and thus conducts analytical studies using HPLC and Spectrophotometry to ensure Ayurvedic drug quality.

About quality control of drugs mentioned in API

The Ayurvedic Pharmacopeia of India (API) is an official publication by the Government of India that establishes quality standards for Ayurvedic drugs. Quality control parameters are standardized criteria used to ensure the Identity, Purity, and Strength of specific useful parts of Ayurvedic drugs. These parameters help maintain consistent quality and ensure compliance with regulatory standards. These quality parameters are divided in to mandatory, optional and specific.

Mandatory Q.C.- Macroscopic and Microscopic evaluation, Organoleptic and Physicochemical analysis.

Optional Q.C.- Chromatographic and Spectrophotometric analysis.

Specific Q.C.- Adulteration and Substitution, Stability and Shelf life.

About Summer Training Camp

As a premier institution in Ayurvedic research and academia, NIA holds a pivotal role in guiding and supporting scholars, educators, and institutions in advancing and learning of quality control (QC) parameters for API drugs.

NCISM has introduced quality control (QC) parameters into the undergraduate curriculum to familiarize students with Ayurvedic drug standardization. This shift highlights the need for educators to master these QC methodologies themselves. To address this, the National Institute of Ayurveda (NIA) is hosting a 6-day summer training camp, providing teachers and scholars with hands-on expertise in Ayurvedic Drug Authentication and Standardization Techniques.

This Laboratory-based Practical Training Program is designed specifically for Scholars and Teachers of Dravyaguna as a capacity-building initiative.

Beyond Learning- Explore Jaipur

While attending the summer camp you can also explore Jaipur -The Pink City “Where History Whispers Through Palaces” & experiences its grandeur, tradition, and timeless charm. From exploring UNESCO-listed landmarks like Amer Fort and Jantar Mantar to witnessing the breathtaking beauty of Jal Mahal and Hawa Mahal to the historic depth of Nahargarh Fort, Jaipur offers a unique blend of tradition and discovery.

NIA and Jaipur promise an unforgettable experience- a fusion of Ayurveda, culture, and heritage.

Advantage with NIA

Legacy of Excellence- NIA has distinguished history of pioneering research and academic contributions in the field of ayurveda.

Expert Guidance- Learn directly from seasoned faculties, scholars and trainers in the field of ayurveda.

Cutting Edge Technology- Access to sophisticated laboratory equipment and advance research methodologies.

High Quality Research Environment- NIA provides a well-structured, sophisticated research setting and seamless operational efficiency, ensuring excellence in scientific exploration and innovation.

Networking Opportunities: Connect with peers, mentors, and experts, fostering academic and professional collaborations.

Course Scope

This summer training camp covers essential quality control parameters for API drugs, focusing on their Identification, Purity, and Strength. Participants will engage in hands-on laboratory techniques, regulatory compliance practices, and advanced analytical methods tailored for Dravyaguna scholars and teachers.

Course Outcome

By the end of the training, participants will develop expertise in Quality Assessment of API drugs, Mastering Analytical Techniques, Regulatory Guidelines, and Practical Skills necessary for ensuring drug efficacy and safety in Ayurvedic research and applications. Additionally, participants can impart this knowledge by educating and mentoring students thus, further strengthening academic and professional landscape of Dravyaguna.

Course Description

This course provides a structured learning experience, beginning with fundamental training in quality control parameters for API drugs and gradually progressing to advanced techniques.

Participants will explore essential Pharmacognostical tests, including organoleptic, microscopic, and macroscopic analysis, alongside physiochemical assessments such as HPLC, HPTLC, GC-MS, UV-Vis spectrophotometry, and ash value determination.

Through hands-on practice, participants will master these methodologies while gaining a comprehensive understanding of variable analysis in quality testing of medicinal plants.

Course Topics

Lesson	Title
1	Plant collection, preservation and herbarium sheet preparation
2	Microscopy transverse section (Advance tech using Microtome)
3	Powder microscopy
4	Stomata index
5	Stomata number
6	Foreign matter
7	Moisture content
8	pH value
9	Melting point
10	Ash value (Total ash, acid insoluble ash)

11	Extractive value (Alcoholic, aqueous and petroleum ether)
12	Thin layer chromatography
13	Bulk density/ Specific gravity
14	Tapped density
15	Viscosity
16	Phytochemical analysis
17	Sugar estimate (total sugar, reducing sugar, non-reducing sugar)
18	Tannin estimation
19	Total fat content
20	Microbial analysis
Advanced Q.C. Instruments	
21	HPLC(High performance liquid chromatography)
22	HPTLC (High performance thin layer chromatography)
23	GC-MS
24	UV-Vis spectrophotometer
25	DDDU Visit and demonstration (Animal house)

Medium of Instruction: English and Hindi

Seats: 15 Participants

Batch Duration–6 days, 36 hours

Practical classes (Will be held on Dravyaguna Vigyan lab and DDDU NIA) – 31th May

2025 to 5th June 2025, 8:00 AM to 02:00 PM

Trainers:

1. Prof. Sudipta Kumar Rath (HOD)
2. Dr. Sumit Nathani (Associate professor)
3. Dr. Krutika Suhas Chaudhary (Sr. Assistant professor)
4. Dr. Tarun Sharma (Assistant professor)
5. Dr. Vaishali (Assistant professor)
6. Dr. Gaurav Sharma (Pharmacologist)
7. Mr. Surendra Yadav (Museum curator)
8. Mr. Raghunath Prasad Yadav(Phytochemist)
9. Mr. Mehul Choudhary (Phytochemist)
10. Mrs. Sonam Gausaiwal (Taxonomist)
11. Ms. Keerti Khatumaria (Pharmacognosist)
12. Ms. Anisha Madan (Chem.Lab.Tech.)
13. Mr. Asharam Saini (Bot.Lab.Tech.)

Course material: Study material related to the course will be provided to the participants in soft & hard copy.

Eligibility for Admission: Scholars (MD / PhD) & Teachers of Dravyaguna.

Assessment and Certificate: At the end of the training camp, participants will undergo a final assessment to evaluate their understanding of QC Parameters. Upon successful completion, certificates will be rewarded.

General Rules and Regulations: As per the rules and regulations of NIADU.

Application Fee: Applicants have to pay application fee **Rs. 500/** (General/OBC/EWS) and **Rs. 250/** (SC/ST/PH Candidates) through online mode on Right corner option of website www.nia.edu.in & www.nia.nic.in named Fee Payment. After Successful payment keep screenshot of transaction detail for further Application Submission. Application Fee once paid will not be refunded under any circumstances.

Accommodation at NIA Guest House: Accommodation at NIA Guest House maybe availed by the trainees on payment basis, subject to the availability. The tariff of the rooms is Rs.1400/ for double occupancy and Rs. 1000/ for single occupancy.

Online Application Form: Applicants have to fill application form after fee payment through this www.nia.edu.in & www.nia.nic.in

Course Fees: Selected candidates have to deposit Course fee of **Rs.10,000.00 (Ten thousand only)** within given time period through online mode on Top right corner option on website www.nia.edu.in & www.nia.nic.in home page with named as Fee Payment. Course Fee once paid will not be refunded under any circumstances.

How to apply/Last Date for Receipt of Applications:

Candidates are required to apply online through www.nia.edu.in & www.nia.nic.in The Institute will not consider application in any other form or mode. Duly filled application form will all supporting documents must be submitted in our portal www.nia.edu.in & www.nia.nic.in on or before 5 PM, **23th May 2025**. Applications received after the Closing Date will not be accepted. Candidates are advised to apply early to avoid issues of online payment failure, etc.

Invalid Applications:

Candidates are advised to read all instructions carefully before sending their applications otherwise their applications are likely to be rejected on one or more of the following reasons in terms of the notifications.

- Applications received after the closing date.
- Applications not in prescribed format.
- Candidates not having the required qualifications.
- Applications without latest uploaded photo.
- Applications without declaration.
- Application without signature.
- Applications without supporting documents.
- Applications, which are incomplete.
- Applications without the prescribed application Fee.

Selection & Admission Procedure:

Selection of the candidates will be done as per First come first serve basis. The submitted application forms will be screened and the selected candidates will be intimated by phone / email. The candidate has to deposit the Camp fee within 5 days of the intimation to confirm his / her admission. If the camp fee is not deposited by the stipulated time, then the right to admission will be forfeited without any further notice. The Vice Chancellor, NIA reserves all right to reject any application form without assigning any reasons.

Contact: - Monday to Saturday (9:00 AM to 4:00PM)

Website: www.nia.edu.in & www.nia.nic.in

E-mail–dglab@nia.edu.in

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