



# NATIONAL INSTITUTE OF AYURVEDA

(Ministry of AYUSH, Govt. of India)

Jorawar Singh Gate, Amer Road, Jaipur, Rajasthan, India – 302002.

[www.nia.nic.in](http://www.nia.nic.in)

**P.G. DEPARTMENT OF DRAVYAGUNA**

**BROCHURE**

## **CERTIFICATE COURSE ON STANDARDIZATION OF AYURVEDIC MEDICINAL PLANT MATERIAL**



## IMPORTANT DATES

<b>Commencement of Sale of Application Forms</b>	<b>13.02.2018, 10 am</b>
<b>Commencement of Deposit of Filled in Application Forms, Admission and Deposit of Course Fees</b>	<b>13.02.2018, 10 am</b>
<b>Last date of Submission of Application Form and Admission and Deposit of Course Fees</b>	<b>22.02.2018, 5 pm</b>
<b>Commencement of Class</b>	<b>26.02.2018, 5 pm</b>

## IMPORTANT DATES & INFORMATION

<b>Application Fee</b>	<b>Rs. 500.00</b>
<b>Course Fees</b>	<b>Rs. 15000.00</b>

## ADDRESS FOR COMMUNICATION

**Certificate Course on Medicinal Plant,  
C/o The Director,  
National Institute of Ayurveda,  
Jorawar Singh Gate, Amer Road,  
JAIPUR - 302002 (RAJASTHAN) INDIA.**



**Certificate  
Course on  
Standardizat  
ion of  
Ayurvedic  
Medicinal  
Plant  
Material.**

**NIA, Jaipur  
2018**

## **About NIA**

National Institute of Ayurveda was established in 1976 by the Government of India as an apex Institute of Ayurveda in the country to develop high standards of teaching, training, clinical services and research in all aspects of Ayurveda with a scientific approach. NIA offers UG, PG and Post Doctoral courses on all branches of Ayurveda along with short term course on various important areas of Ayurveda to both Indian and Foreign nationals. NIA plays a very important role in formulating standards, guidelines and policy making of the AYUSH sector by its technical inputs.

## **About Dravyaguna Department**

Dravyaguna is the most important branch of Ayurveda which deals with the dravya (medicinal substances used in Ayurveda – mainly sourced from medicinal plants) and guna (their properties). P. G. Department of Dravyaguna in engaged in various educational, research and clinical care activity involving herbal drug. Department is having a well equipped Pharmacognosy Laboratory to train the students and to do QC/QA of medicinal plants samples as per API guidelines from the last 30 years. Department has a National Repository and Herbarium of authentic crude drugs used in Ayurveda with more than 250 samples. The Departmental Medicinal Plant Museum contains more than 500 drugs samples from different part of the country. A well maintained herbal garden containing more than 300 plant species is present inside the campus. This department has completed APC projects on developing SOP of Single Drug Standardization for Govt. of India.

## **About the Course –**

The **Certificate Course on Standardization of Ayurvedic Medicinal Plant Material** is a course designed to give hands on training on quality control and standardization methods used for Ayurvedic Medicinal Plants. The course is designed for people who are working or looking to work in Ayurvedic pharma industry which is growing @ 20% per annum.

## **Advantage with NIA**

The candidate gets to learn from the qualified, experienced and best in class faculties in the country in the most premier infrastructure in the country. Every candidate undergoing the course will be confident and trained a class apart from the rest. After successful completion of the course, the candidate will be awarded the certificate from NIA, an institute having best reputation and acceptance at national and international platforms.

## **Course Scope**

This Course will help one to learn, get practically trained on updated standardization methods required for Ayurvedic medicinal plant materials. The candidate will become confident in this subject along with a deeper insight into pharmaceutical and its principles. After completing the course, following Scope for the technical assistants/Experts:

1. Better Opportunities for placements in Ayurvedic Manufacturing units and pharmaceuticals test laboratories etc.
2. Entrepreneurship in Ayurveda Medicines & Standardization.
3. Technical Consultancy in Ayurveda Medicines & Standardization
4. Intellectual Property Rights (Technology Transfer) in Ayurveda Medicines & Standardization.
5. Value Addition in Analytical Research work.

## Course Description

This course will cover Introduction to Ayurvedic Medicines and Medicinal plants used in them, Identification tool for herb identification, Methodologies used for standardization of Ayurvedic medicinal plants as per API and WHO guidelines, Regulatory guidelines, Quality control, Quality assurance, Methodologies for SOP & STP Preparation, Laboratory documents control, Demonstration of general laboratory glasswares, Analytical calculation and Testing parameters for standardization of medicinal plant materials will be discussed. Particular attention will be given to principle, procedure & applications of particular testing parameter.

## Course Topics

Lesson	Title	Duration
1	Introduction about Ayurveda Drugs & Medicinal Plants	2 hour
2	Regulatory Guidelines for Manufacturing and testing of Ayurvedic Medicines.	1 hour
3	Importance Quality Control & Quality Assurance	1 hour
4	Demonstration of Common Laboratory Glassware and Equipment's	1 hour
5	Method of preparation of STP and SOP	1 hour
6	Analytical Calculation	1 hour
7	Principle and Technique for Herbs Identification	2 hour
8	Macroscopy	1 hour
9	Microscopy	1 hour
10	Foreign Matter	1 hour
11	Moisture Content	1 hour
12	pH	1 hour
13	Extractive Values: Water soluble extractive Alcohol soluble extractive Hexane soluble extractive	6 hour

	Ether soluble extractive Chloroform soluble extractive	
14	Ash values: Total ash Acid insoluble ash Water soluble ash Sulphated ash	5 hour
15	Determination of volatile oils	3 hour
16	Determination of fixed oils	3 hour
17	Refractive index and Brix value	1 hour
18	Specific gravity	1 hour
19	Tap density and bulk density	1 hour
20	Thin layer chromatography	2 hour
21	Qualitative analysis of plant Metabolites- Carbohydrate, Proteins, Amino acids, Fat, Alkaloids, Glycosides, Tannins, Saponins, Flavonoids, Phenolic Compounds etc.	4 hour
22	Total sugar Reducing sugar Non reducing sugar	3 hour
23	Alkaloids Contents	3 hour
24	Saponin Contents & Saponification Value	2 hour
25	Foaming index	1 hour
26	Acid value	1 hour
27	Peroxide value	1 hour
28	UV - Vis spectroscopy	1 hour
29	Rancidity	1 hour
30	Mineral oil test	1 hour
31	Unsaponifiable matter & Total Fatty matter	4 hour
32	Iodine value	2 hour
<b>Total</b>		<b>60 hours</b>

**Medium of Instruction:** English and Hindi

**Seats:** 15 Students Per Batch

**Course Duration and Timings** – 1 month, 5 – 7pm (2 hrs) on every working day of NIA. Classes will not take place on Sundays and other holidays of NIA.

**Eligibility for Admission:** B.Sc, B.A.M.S., D. Pharma, B. Pharma and any Science Graduate

**Selection Procedure:** First come First Serve Basis of the eligible candidates.

**Certificate:** Theory and Practical Examinations will be conducted after completion of the course. Minimum Passing Marks in Theory as well in Practical will be 50%. Certificates will be awarded to the qualified students by the Institute.

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

**Hostel facility:** No hostel facility shall be provided by NIA for the students enrolling for this certificate course.

**Application Fee (by Bank Demand Draft (DD)/NEFT):** Applicants have to pay application fee **Rs.500** (General & OBC) and **Rs. 250** (SC & ST Candidates) in form of DD in favor of “Director, National Institute of Ayurveda” payable at Jaipur / NEFT as per account detail given below. The DD or NEFT receipt should be enclosed along with the duly filled Application Form. Application Fee once paid will not be refunded under any circumstances.

**Course Fees :** Selected candidates have to deposit Course fee of **Rs. 15000.00** (**Fifteen thousand only**) by Demand Draft in favor of “Director, National Institute of

Ayurveda” payable at Jaipur / NEFT as per account detail given below before the stipulated date. Course Fee once paid will not be refunded under any circumstances.

### **Account Detail**

Name of Account: Director, National Institute of Ayurveda, Jaipur

Account no: 3124200215

Name of Bank and Branch: Central bank of India, NIA, Jaipur

IFSC Code: CBIN0283634

### **How to apply/Last Date for Receipt of Applications:**

Candidates are required to apply in the prescribed Format given herewith. The Format should be neatly typed on A4 size paper on one side and should be signed by the Candidate at the specified space with Date. The Institute will not consider any another format or application proforma. Duly filled application form enclosing self-attested copies of all certificates, mark sheets, testimonials in support of age, educational qualifications, caste/community in prescribed format by Govt. of India should be sent by Registered/Speed Post / deposited by hand in an envelope Superscripted “**CERTIFICATE COURSE ON STANDARDIZATION OF AYURVEDIC MEDICINAL PLANT MATERIAL**” and should reach the following Address on or before 5pm, 22-2-2018. Applications received after the Closing Date will not be accepted.

**The Director**

**National Institute of Ayurveda**

**Jorawar Singh Gate,**

**Amer Road JAIPUR - 302002 (RAJASTHAN) INDIA**

### **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 photo pasted in the space provided.
- Applications without declaration.
- Application without signature.
- Applications without supporting documents.
- Applications, which are incomplete/illegible in any manner.
- Applications without the prescribed Application Fee.
- Application on another format not prescribed by NIA

#### **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 Course fee within 3 days of this intimation or till last date of deposit of fees , whichever is earlier to confirm his / her admission. If the course fee is not deposited by the stipulated time, then the right to admission will be forfeited without any further notice. The Director, NIA reserves all right to reject any application form without assigning any reasons.

#### **Contact :-**

**Website:** [www.nia.nic.in](http://www.nia.nic.in)

**E-mail –** [dravyaguna.nia@gmail.com](mailto:dravyaguna.nia@gmail.com)

**Dr. Sudipt Kumar Rath - 9828376668**

**Mr. Gaurav Sharma - 8094202000**

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# NATIONAL INSTITUTE OF AYURVEDA

(Ministry of AYUSH, Govt. of India)

Jorawar Singh Gate, Amer Road, Jaipur, Rajasthan, India – 302002.

Certificate Course on Standardization of Ayurvedic Medicinal Plant Material

## REGISTRATION FORM

Application Fee (Rs.500/250) –

DD/NEFT Number & Date –

Drawn on Bank –

Affix your recent self attested (on front side) Passport Size Colour Photograph here.

**Full Name** Mr./Ms. (In Capitals) -----

**Fathers/ Husband Name** -----

**Date of Birth** ----- **Gender** -----

**Corresponding address** -----

**Mobile** -----

**E mail id** - -----

**Aadhar Number** -----

**Academic Qualification** (Graduation & Onwards, Enclose self certified copies of the degrees)

Examinations Passed	University/Board/Institution	Year of Passing	Subjects	Marks Obtained/ Division/Percentage

**Experience:**

### DECLARATION

I hereby declare that the information mentioned in this Application is correct and true to the best of my knowledge and belief and I understand that furnishing false/improper information will lead to rejection and cancellation of my candidature and also that I am liable for legal and/or disciplinary action as may be initiated by the National Institute of Ayurveda.

**Date:**

**Signature of the Candidate**