

NATIONAL INSTITUTE OF AYURVEDA

Deemed to be University
(Ministry of AYUSH, Government of India)
Jorawar Singh Gate, Amer Road, Jaipur (302002) Rajasthan

Brochure of Information (BOI)

Admission to PhD (Ayurveda) Programme [JOINT PhD DEGREE & SINGLE CENTRE PhD DEGREE PROGRAMMES] Academic Session: 2024-25

Applications are invited from eligible interested candidates for admission into PhD (Ayurveda) programme of the Institute in the prescribed format before due date.

Joint Degree Programme (JDP) or Dual Degree Programme:“Joint PhD Degree Programme (JDP), means a cotutelle programme of research and training carried out by a PhD candidate who is concurrently enrolled in and jointly supervised by a supervisor, at both institutions. On the successful completion of the degree, two separate degree certificates (testamurs) may be issued by the institutions as per their respective form and format of the degree certificate title, description, signatories etc., including a grade or mark (if that is the practice at either institution) but it must carry a clear statement that the degree is awarded under the JDP between the participating institutes. Academic records/transcripts will reflect enrolment in the joint programme.

NIA and AcSIR have entered into an MoU for a joint PhD degree programme. Joint degree or Dual degree programme is a unique programme through which the scholar will obtain two PhD degrees in same duration. He will be entitled for the stipend as per the NIA rules. AcSIR means the Academy of Scientific and Innovative Research. The student is subject to the relevant rules and policies at both institutions throughout the duration of candidature.

Students given admission in the PhD Programme at National Institute of Ayurveda (NIA) will have the option to join the Joint PhD Degree Programme (JDP) from NIA and AcSIR (Academy of Scientific and Innovative Research). Preference will be given to the candidates who will opt for Joint PhD Degree Programme.

Home institute and Host Institute: For candidates getting admitted under JDP, NIA will be the Home institute and concerned CSIR Institute will be the Host institute.

National Institute of Ayurveda, Deemed to be University, Jaipur, (NIA), Amer Road, Jaipur Rajasthan: An apex Institute under the Ministry of AYUSH, Government of India for promoting

the growth and development of Ayurveda and serve as a model Institute for evolving high standards of teaching, training, research, patient care and also to invoke scientific outlook to the knowledge of Ayurveda System of Healthcare. Institute has attained status of Deemed to be University (De novo Category) which has been granted by the University Grants Commission (UGC) on 9th of November, 2020. Institute was accredited with NAAC 'A' grade on 8.4.2021. The National Institute of Ayurveda was established on 7th February 1976 by the Ministry of Health and Family Welfare, Government of India. Since its inception, it has continuously been engaged in promoting reforms and developments in Ayurveda System of Health care at National and International level. The Institute is not only a premier Institute under the Central Government but also amongst apex institutions in the field of Ayurveda education and training in the country.

Academy of Scientific & Innovative Research (AcSIR) - has been established as an 'Institution of National Importance' with a view to maximize the number of qualified researchers and professionals of impeccable quality in the domain of science & engineering; and to equip them with the skills to innovate and conduct seamless interdisciplinary research. AcSIR was established by an Act of Parliament, viz. the Academy of Scientific Innovative Research Act, 2011, notified by the Central Government vide The Gazette of India notification No.15 dated February 7, 2012. Enactment of the Academy of Scientific and Innovative Act, 2011 was notified by Govt. of India vide The Gazette of India notification No. 622 on April 03, 2012. AcSIR is one of the premier institutions, involved in interdisciplinary research through its doctoral research students. AcSIR occupies a predominant academic position among institutions of higher education in India, particularly in the domain of science and engineering. The Headquarters of Academy of Scientific Innovative Research is located at CSIR-Human Resource Development Centre (CSIR-HRDC) Campus, Postal Staff College Area, Sector 19, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh 201002.

Supervisors: Under this programme there will be two supervisors i.e. one from NIA (concerned department) and one from CSIR (concerned lab).

Thesis: Scholars under JDP will have to write one single thesis containing his/her research work done at both the sites.

Course work: Scholar who will be enrolled in NIA has to clear the course work from NIA as per the existing regulations.

Stipend: As per NIA rules and GoI orders.

Other Information about JDP: A Candidate will be enrolled as required at both NIA and AcSIR (Primary and Secondary enrolment or *vice versa*, as the case may be) for the duration of the Programme and will spend a considerable time of research at the Home and Host Institutions, duration of which shall be mutually decided by the Joint Supervisors. The JDP can be completed in any discipline/interdisciplinary areas of mutual interest within relevant schools or faculties at

NIA and AcSIR subject to the availability of appropriate supervision, complementary research interest and strength of interdisciplinary with respect to Ayush and Molecular/modern Medicine in broader sense and perspectives.

The interdisciplinary research domains would be identified jointly by AcSIR (through CSIR's constituent institutes working in health domains, which include, CSIR-IIIM, CSIR-IHBT, CSIR-CDRI, CSIR-CIMAP, CSIR-NBRI, CSIR-IITR, CSIR-NEIST, CSIR-IICB, CSIR-IGIB, CSIR-IMTECH, CSIR-NCL, CSIR-CCMB, CSIRIICT, CSIR-CFTRI and CSIR-NIIST) and NIA. Other CSIR institutes that may include, but not limited to, are CSIR-CSIO, CSIR-CEERI, and CSIR-4PI, Bengaluru for integrating applications of Artificial Intelligence (AI), Quantum Computing and other emerging science and technological interventions for the service of the key mission and objectives under this Agreement. The PhD courses of study and their curricular content shall be jointly evolved by AcSIR (through the CSIR institutes) and NIA.

Changes made in the programme after the release of this BOI shall become effective with immediate effect unless stated otherwise.

NIA reserves the rights to revise, amend, update or delete any part of this brochure without giving any prior notice or reason. Any change so made be updated on the website of the NIA i.e. www.nia.nic.in

Applicants are advised to regularly visit the institute's website for any updates regarding any information related to PhD programme.

INFORMATION RELATED TO ADMISSION PROCESS:

1.1 Calendar of Events

A. For admission through written Entrance Test

S.No.	Events	Date
1	Date of Notification	05.08.2024
2	Closing Date for receipt of application form	21.08.2024
3	Tentative date for the conduct of the entrance examination	(Date shall be notified on institute website)
4	Uploading of answer key	One hour after entrance examination is over.
5	Submission of grievances related to questions and answers key. Candidate has to give proof of the grievance.	Up to 5:00 pm of the date of entrance exam
6	Redressal of grievances and uploading of revised key if required	By 5:00 pm on the day following entrance exam
7	Announcements of results	By 6:00 pm on the day following grievance redressal
8	Date of Interviews	Next day of declaration of results of Entrance

	Notification of final selected candidates	Next day of Interview
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B. For Admission to UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET qualified candidates

S.No.	Events	Date
1	Date of Notification	05.08.2024
2	Closing Date for receipt of application form	21.08.2024
3	Tentative date of Interview	(Date shall be notified on institute website)
4	Notification of final selected candidates	Next day of Interview

Note:- Any change in above schedule shall be notified on the website of National Institute of Ayurveda, Jaipur (www.nia.nic.in)

2 Admission Procedures

2.1 Filling up of the Application Form

Application forms can be filled and submitted only online mode from our website www.nia.nic.in .

Forms submitted in any other mode will not be considered and summarily rejected.

3. Entrance Examination

3.1. A common entrance examination for PhD Programme including Joint Degree Programme (*Cotutelle* Programme) of various subjects will be conducted for screening of the applicants.

3.2. Entrance test shall consist of multiple choice questions (MCQ's). All the candidates except **UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET** qualified candidates applying for PhD programme shall appear for the Entrance examination conducted by the National Institute of Ayurveda, Deemed to be University (De-Novo). However the foreign nationals will not appear in this programme and a separate procedure through ICCR will be followed.

3.3. The test shall consist of 100 multiple choice questions (MCQ's) covering 60 subject specific questions with the competence of PG standard, 25 questions from Research Methodology and Medical Statistics, 10 questions from the general knowledge regarding AYUSH and 5 questions from basic working knowledge about computers.

3.4. The Duration of the Entrance Examination shall be 90 minutes.

3.5. Each question shall consist of 1 mark for each right answer one mark will be awarded whereas for **each wrong answer ¼ (one fourth) mark shall be deducted.**

3.6. Entrance test is just for screening and short listing of the candidates and final selection will be done after the Interview.

3.7 On the basis of entrance examination merit will be declared and 3 students from the merit against each seat will be shortlisted for the interview.

3.8. Admission of **UGC-NET/JRF/SLET/AYUH-NET/CSIR-NET** qualified candidates will be through interview. Separate interview as per notified dates will be conducted by National Institute of Ayurveda, Deemed University, Jaipur.

3.9. A list of subjects in which PhD Programme will be offered is given at **Annexure-1**

4. Examination Fee

Examination Fee for the entrance examination is as under:

For SC/ST and Persons with Disabilities (PwD)	Rs. 2500/-
For all other categories (Unreserved, OBC etc.)	Rs. 3000/-

5. Mode of Payment

Examination fee can be paid through ONLINE mode only. Fees will not be refunded in any condition.

6. Reservation and Distribution of Seats

The Reservation and seat distribution for PhD Programme in various specialities is as follows:

S.No.	Speciality	UR	Foreign	OBC	SC	ST	Total
2	Ayurveda Samhita Evam Siddhant	-	-	1(PH)	-	-	1
5	Kayachikitsa	1	-	-	-	-	1
	Total	1	-	1	-	-	2

Note 1: In case of non- availability of OBC differently abled candidate (PH) the same seat will be offered to OBC candidate. Therefore, the OBC candidate of **Ayurveda Samhita Evam Siddhant** may also apply for this seat.

Note 2: Seats for **UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET** qualified candidates in each speciality will be extra from the above mentioned seats and will be available depending upon the availability of the eligible guides in the concerned specialities.

7. Interview

7.1. The shortlisted candidates (maximum 3 candidates for 1 seat) on the basis of merit list will be called for interview.

7.2. The list of shortlisted candidates for interview will be shared after the entrance examination on the website only (www.nia.nic.in) as no separate information will be circulated to individual candidate.

7.3. 50% marks (45% for ST/SC Candidates) in entrance examination are required to be eligible for appearing in the Interview.

7.4. The candidate shortlisted for interview shall present their interest and research proposal through a presentation (Duration 8-10 minutes) before a duly constituted University committee of the respective faculty.

7.5. The interview will also consider following aspects-

- To evaluate the research aptitude of the applicants.
- The candidate possesses the competence for the proposed research.
- The research work can be suitably undertaken at the Institution/College.
- The proposed area of research can contribute to new/additional knowledge.

8. Centre for Entrance Examination

8.1. Entrance examination shall be conducted at National Institute of Ayurveda, Deemed University, Jaipur. The date of the entrance examination shall be notified on the institute's website www.nia.nic.in. Hence, the applicants are requested to check the institute's website regularly.

8.2. National Institute of Ayurveda, Deemed University, Jaipur reserves the right to change/cancel the centre of examination and date without assigning any reason.

9. Intimation Regarding Admission

9.1. Result of the Entrance examination and interview shall be notified on the website of National Institute of Ayurveda, Deemed University, Jaipur i.e. www.nia.nic.in

9.2. The shortlisted candidate will be required to produce all the required documents in original at the time of interview.

9.3. Information regarding subsequent lists of selected candidates, if any, shall be notified on the website of National Institute of Ayurveda, Deemed University i.e. www.nia.nic.in

9.4. For all the updates related to PhD admission, candidates are advised to check the institute's website regularly at website of National Institute of Ayurveda, Deemed University, Jaipur i.e. www.nia.nic.in as no separate information will be circulated to individual candidate, from the institute.

10. Syllabus for Entrance Examination

10.1 Question paper shall be based on the syllabi prescribed by NCISM for Research Methodology in MD/MS Ayurveda programme and the subject concerned under which the candidate has applied for PhD Programme.

- 10.1. Question shall be covering the recent updates in AYUSH and the subject concerned.
- 10.2. Basic Working knowledge of the Information technology.

11. Eligibility Criteria

- 11.1. MD/MS Degree in Ayurveda in concerned subject from an institute recognizes by NCISM.
- 11.2. PG Degree must be completed at the closing date of application from i.e. 22.03.2024.
- 11.3. No candidate shall be eligible to register for the PhD Programme if he/she is already registered for a full-time programme in other University/Institution. In such case if a candidate gets selected then he/she will have to leave the ongoing PhD programme in other organization.

11.4. Foreign Nationals

02 Seats are reserved for foreign nationals per session. The subject available for PhD to foreign nationals will be on the basis of rotation. Foreign nationals applying through ICCR will only be entertained. In any case if the seats reserved for foreign nationals in any subject remain vacant, the same shall be filled on the basis of waiting list from the Indian applicants in the subject concerned from unreserved category.

12. Reservation

- 12.1. Reservation of Scheduled Caste (SC), Scheduled Tribe (ST), and Other Backward Class(OBC) to the prescribed extent (according to the policy of Government of India) shall apply in compliance with the rules notified by the University.

13. Selection Process for UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET Qualified Candidates

13.1. AYUSH-NET- An interview shall be conducted by National Institute of Ayurveda, on notified dates for AYUSH-NET qualified candidates who have been awarded SRF by research councils of Ministry of AYUSH. In case if the applications received are more than the available guides in any subject, the admission will be given on the basis of interview and shall be decided by the committee framed for the interview.

13.2. Biomedical Sciences/Life Sciences- For streams other than AYUSH as mentioned in AYUSH PhD Fellowship scheme 2018, eligible candidates who have qualified a National Eligibility Test like CSIR-UGC NET for JRF and LS (NET) DBT-JRF in Bio technology; Bio Technology Eligibility Test (BET); etc. If willing to undertake research on AYUSH related projects can also apply through AYUSH research councils in prescribed application form. Their fellowship will be considered after receiving clearance from the respective AYUSH council.

13.3. Only those candidates shall be eligible for PhD registration whose fellowship is within the validity period notified by the respective councils/bodies conducting those qualifying examinations.

13.4. The candidate appearing in the interview shall have to present their interest and research proposal through a presentation (duration 8-10 minutes) before a duly constituted committee of the respective faculty.

13.5. The interview will also consider the following aspects.

- To evaluate the research aptitude of the applicants.
- The candidate possesses the competence for the proposed research.
- The research work can be suitably undertaken at the Institution/College.
- The proposed area of research can contribute to new/additional knowledge.

14. Mode of Interview

Interview shall be conducted offline at National Institute of Ayurveda, Deemed University, Jaipur.

15. Declaration of Result

The list of selected candidates in the interview shall be displayed at the website of NIA i.e. www.nia.nic.in

16. General Rules and Regulations

Candidates registered for PhD programme under fellowship scheme shall have to abide by the general rules and regulations as laid down by the university and the respective council who is providing the fellowship.

Note: For detailed guidelines of AYUSH PhD Fellowships Scheme (2018) visit the website of respective research councils under ministry of AYUSH. Govt. of India (www.ccras.nic.in/www.siddhacouncil.com/www.ccrum.res.in/www.ccryn.org/www.ccrhindia.nic.in)

17. Fee Structure

Fee structure of PhD Ayurveda Programme is given at **Annexure-3**

18. Duration of PhD Programme

18.1. As per UGC Regulations 2022, PhD Programme including UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET Qualified Candidates and Joint PhD Degree Programme (JDP) (*Cotutelle* programme) shall be for a minimum duration of three years from the date of admission, including course work and up to a maximum of six years.

18.2. Scholar who will be enrolled in NIA has to clear the course work from NIA as per the existing regulation.

18.3. Women candidate and a person with disability (more than 40% disability) may be allowed a relaxation of two years for PhD in the maximum duration.

18.4. As per UGC Regulations 2022, Extension beyond the above limits will be governed by relevant clauses as stipulated in the statute/ Ordinance of the individual Institution concerned.

19. Scholarship/Stipend

19.1. Students admitted through entrance test shall receive monthly stipend as per the NIA Rules and GOI orders.

19.2. Candidates selected from UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET/CCRAS, Fellowship will not be paid any stipend from the institute. They will draw stipend as well as their research budget from the concerned department as per the guidelines issued by the bodies conducting those examinations.

19.3. The stipend will be paid to the registered candidates under fellowship scheme according to terms and conditions laid down under AYUSH PhD Fellowship scheme 2018.

19.4. Research Grant as received from the respective council will be issued to the registered candidate according to the terms and conditions as mentioned in AYUSH PhD Fellowship scheme 2018.

19.5. Central/State Government sponsored or selected candidates will draw their salary from their concerned Central/State Government. National Institute of Ayurveda, will not pay any monthly stipend to such candidates.

20. Progress Report

20.1. Registered Candidates have to submit the six monthly progress report of the research work to the institute through department.

20.2. Registered Candidates through UGC-NET/JRF/SLET/AYUSH-NET/CSIR-NET/CCRAS have to submit the six monthly progress report of the research work to the institute as well as to the respective research council on prescribed format.

21. General Information

21.1. NIA reserves the right not to fill up the vacant seats of PhD programme in case of non-availability of suitable candidate.

21.2. The list of supervisors to guide PhD course in various subjects is given in the **annexure - 2**. Admission will be strictly on the basis of availability of guides.

21.3. The admit card for the entrance examination shall be available at online registration account.

21.4. Candidates must bring the coloured or black and white printed copy of admit card to the examination centre with a valid photo identity card for verification (Aadhar card, Driving Licence, PAN Card, Passport, Voter card or Valid Identity Card). Without valid photo identity proof, candidate will not be allowed to enter in the examination.

- 21.5. The merit list of unreserved category seats will comprise all the candidates in the order of merit including SC/ST/OBC candidates if they come in the unreserved merit. SC/ST/OBC candidates who figure in the unreserved merit list is entitled to be considered for admission under the unreserved category. Admission to open category seats will be strictly in order of merit without excluding SC/ST/OBC candidates.
- 21.6. The candidates seeking admission under reserved category shall produce the relevant certificates issued from respective competent authority for availing the benefits of reservation.
- 21.7. The research proposal for PhD programme shall be submitted by the provisionally registered scholars within three months after admission.
- 21.8. The candidates who are in service shall submit No Objection Certificate (NOC) from their respective Department/Institution before registering in PhD programme.
- 21.9. Please note that permission to appear in the entrance examination is subject to the candidates fulfilling the minimum eligibility requirements prescribed for applying to the concerned programme of study. In case a candidate does not meet the minimum eligibility criteria prescribed for applying to the concerned programme and appears in the entrance examination, it is done at the candidate's own risk and cost, and if at any stage, it is found that minimum eligibility requirements are not fulfilled, the admission if granted, the same be cancelled ipso facto.

Note: Preference will be given to the candidates applying for Joint PhD Degree Programme (Dual Degree Programme- *Cotutelle*).

Annexure-1

List of Subjects/Specialities in which PhD Programme will be offered at NIA,DU

S.No.	Speciality	Seats
1	Ayurveda Samhita & Siddhanta	01
2	Kayachikitsa	01
	Total	02

Annexure-2

I. List of Supervisors to Guide PhD Course in various Subjects/Specialities at NIA,DU

S.No.	Supervisors	Speciality
1.	Prof. (Dr.)Nisha Gupta, Professor	Ayurveda Samhita & Maulik Siddhant
2.	Prof. Asit Kumar Panja, Professor	
3.	Dr. Shailza Kumari, Associate Professor	
4.	Dr. Bhuvnesh Kumar Sharma, Associate Professor	
5.	Prof.(Dr.)Hari Mohan Lal Meena, Professor	Kaya Chikitsa
6.	Prof. (Dr.)Udai Raj Saroj, Professor	
7.	Dr. Ajay Kumar Sahu, Associate Professor	
8.	Dr. Pravin Shamrav Sawant, Associate Professor	
9.	Dr. Bharat Kumar ChaganBhaiPadhar, Senior Assistant Professor	

Note: Above mentioned list is tentative and is not absolute.

II. List of Supervisors to Guide PhD Course in various Subjects/Specialities at CSIR Institutes for Dual Degree PhD Programme

Sr . No.	Area of Collaborative Research for JDP	Sub-areas of Collaborative Research of JDP	Supervisor with designation and e-mail ID	CSIR- Institutes
1	Cell Death Biology	Cancer Biology, NAFLD/NASH, Cerebral stroke &Traumatic Brain Injury	Dr. Durga Prasad Mishra, Senior Principal Scientist, Professor (AcSIR); dpm@cdri.res.in	CSIR-CDRI
2	Pulmonary and Cardiovascular, Pharmacology and Therapeutics	COPD, Asthma, Cardiomyopathy	Dr. Baisakhi Moharana, Scientist, Assistant Professor (AcSIR); b.moharana@cdri.res.in	CSIR-CDRI
3	Drug discovery	Microbiology	Dr. Sidharth Chopra,	CSIR-

	(antibacterials)		Principal Scientist, Associate Professor (AcSIR); skchopra.007@cdri.res.in	CDRI
4	Parasitology	Malaria Biology	Dr. Satish Mishra, Principal Scientist, Associate Professor (AcSIR); satish.mishra@cdri.res.in	CSIR-CDRI
5	Cradiovascular System Diseases	Hypertension, Pulmonary Hypertension, Cardiac hypertrophy	Dr. Kashif Hanif, Principal Scientist, Associate Professor (AcSIR); k_hanif@cdri.res.in	CSIR-CDRI
6	Formulation Development and Pharmacokinetics	Drug delivery	Dr. Manish Kumar Chourasia, Senior Principal Scientist, Professor (AcSIR); manish_chourasia@cdri.res.in	CSIR-CDRI
7	Male & Female Reproductive Health	Infertility &Gynaec Cancers	Dr. Monika Sachdev, Principal Scientist, Associate Professor (AcSIR); monika@cdri.res.in	CSIR-CDRI
8	Biochemistry and Biophysics	Characterization of natural compounds and biomolecules by NMR spectroscopy, ITC, HPLC, and DSF	Dr. Ashish Arora, Senior Scientist, Assistant Professor (AcSIR); ashish_arora@cdri.res.in	CSIR-CDRI
9	Natural Products Chemistry	Phytochemistry	Dr. Richa Pandey, Senior Scientist, Assistant Professor (AcSIR); richa.pandey@cdri.res.in	CSIR-CDRI
10	Neurotherapeutics	Neuroprotection	Dr. Shubha Shukla, Principal Scientist, Associate Professor (AcSIR); shubha_shukla@cdri.res.in	CSIR-CDRI
11	Isolation and structure elucidation of Natural Products from indian	Detailed studies of extracts/ molecules against biological targets for cancer/neurological disorder and Immunomodulator	Dr. Asif Ali, Principal Scientist, Associate Professor (AcSIR); asifali@cdri.res.in; asifchem73@gmail.co	CSIR-CDRI

	medicinal plants, endophytic microbes and marine organisms including synthesis and bioactivity testing.		m	
12	Validation and Redefining of Ayur foods in alleviation of Anemia	1. Formulation of foods with ayurvedic herbs for alleviation of anemia 2. Community based studies	Dr. Jyothi Lakshmi A, Sr. Principal Scientist, jyothi.lakshmi@cftri.res.in, Traditional Foods & Applied Nutrition, CSIR – CFTRI, Mysore	CSIR-CFTRI
13	Ayush Aahaar&Ayurceuticals	1.Phyto profiling of novel Ayurceuticals 2.Safety, pre-clinical & clinical trials of Ayurveda Aahar for immune & live health	Dr. Madan Kumar P, Scientist, madanperumal@cftri.res.in Dept. of Biochemistry, CSIR – CFTRI, Mysore	CSIR-CFTRI
14	Exploirng the functioal attributes of traditional Ayurvedic foods	1. To study the nutritional and nutraceutical potential of Ayurveda signified rice varieties sali, sastika and Vrihi and optimize cooking properties for better bioaccessibility of nutrients through various ayur foods ; 2.Kulatha (horse gram) based ayurvedic soup ‘Yusa’ and studies on its hidden health benefits preparations.	Dr. Shruti Pandey, Principal Scientist, shruti@cftri.res.in Grain Science Technology, CSIR – CFTRI, Mysore	CSIR-CFTRI
15	Food Grade Polyherbal formulations and evaluation of efficacy against Life style diseases	Broadly areas of plantation products, spices, herbs and flavours and innovations complementary to Food science Technology and Ayurveda such as 1.Life style issues (LSI), health, nutraceuticals, cognition etc. 2. LSI, health and phytobioceticals, biofortification. 3. Bioefficacy and bioavailability. 4. Invitro and invivo studies. 5. Targetted product development. 6.Role of food (plantation products, spices, herbs, flavours), yoga and meditation in health and LSI. 7. Identification and mitigation of toxic elements during the storage of Ayurvedic formulations.	Dr. B BBorse, Sr. Principal Scientist, borsebb@cftri.res.in Plantation Products, Spices &Flavour Technology CSIR – CFTRI, Mysore Dr. Bettadaiah B K, Principal Scientist bettadaiah@cftri.res.in Plantation Products, Spices &Flavour Technology CSIR – CFTRI, Mysore	CSIR-CFTRI
16	Fermented Ayur products and Gut health	1. Gut microbiota modulation studies in existing ayurvedic products 2. Microflora and health benefit studies of fermented ayurvedic products, &	Dr. PrakshHalami, Chief Scientist prakashalami@cftri.res.in, Microbiology and	CSIR-CFTRI

		3. Health benefits of phytochemicals and bioactive from ayurvedic products available commercially.	Fermentation Technology, CSIR – CFTRI, Dr. Praveena B Mudliar, Principal Scientist praveena@cftri.res.in, Microbiology and Fermentation Technology, CSIR – CFTRI Dr Mahejibin Khan, Sr. Scientist mahejibin@cftri.res.in, Microbiology and Fermentation Technology, CSIR – CFTRI,	
17	Scientific validation of traditional claims/leads using Reverse Pharmacology Approach under AYUSH guidelines.	v Development of standardized herbal formulations, based on Ayurveda [proprietary Ayurvedic formulations] (mono or polyherbal) using traditional claims. v Pre-clinical [efficacy and safety study on small animal model]. v Standardization of Medicinal plant or plant based Formulations based on Ayurveda, Siddha, Unani against. Ø Diabetes Ø Arthritis Ø Gut inflammation [Ulcerative Colitis] Ø Allergy & Asthma Ø Pyrexia [Javar], Ø Hepatoprotective.	Dr. Daya Nandan Mani Professor, dn.mani@cimap.res.in, 0522-2718587 cell-No: 9415251464	CSIR-CIMA P
18	Pharmacology and Toxicology	Inflammation-linked diseases using in-vitro and in-vivo pharmacology on the following diseases Ø Immuno-Pathogenesis of Malaria Ø Sepsis; A systemic inflammatory response Ø Skin Inflammation Ø Liver Inflammation Ø Lung Inflammation Ø Pain, Fever, and Inflammation Management Ø Rheumatoid Arthritis Ø Low-grade inflammation induced Insulin Resistance in mice	Dr. Dnyaneshwar Umrao Bawankule, Professor (AcSIR), du. bawankule@cimap.res.in, 0522-2718646 (Office) +91-9415329719 (Mobile)	CSIR-CIMA P
19	Biological Sciences; Medicinal Plant	(I) Biotechnology with focus on alkaloid-producing plants; (II) Modern science-based evaluation of selected	Dr. Ashutosh K. Shukla, Associate Professor,	CSIR-CIMA P

	Biotechnology; Ayurveda Omics	Ayurvedic medicinal plants for antidiabetic, hepatoprotective, antiallergic, and IBD-managing potential; (III)* Exploration of the molecular basis for dosha-balancing property-based classification of plants in Ayurveda.	ashutoshshukla@cimap.res.in; ashupov@yahoo.com, 91-522-2718553 (Off); 91-9450932113 (Cell)	
20	Immunity and Infectious Diseases	In-vivo studies related to prospecting Medicinal and Aromatic Plants for Gut Immunity, Malaria, Staphylococcus aureus and Salmonella	Dr. Anirban Pal Professor, a.pal@cimap.res.in, drapaul@gmail.com, +91 522 2718644, +91 9415011404	CSIR-CIMA P
21	Pharmacology and Toxicology	Cardiovascular Pharmacology and safety evaluation	Dr Debabrata Chanda, Associate Professor d.chanda@cimap.res.in, 0522-2718643, 9919873638	CSIR-CIMA P
22	Analytical Chemistry of Aromatic and Medicinal Plants Natural Product Chemistry	Separation of natural product compounds using various chromatographic techniques including gas chromatography (GC), gas chromatography - mass spectrometry (GC-MS), high-performance liquid chromatography (HPLC) are the research works being carried out in the lab. Our lab also works on the evaluation of quality parameters for essential oils and medicinal plant extracts. Development of methods/methodologies for separation, identification and quantification of secondary metabolites from plants using various analytical techniques are also carried out by our lab.	Dr. V S Pragadheesh Assistant Professor (Chemical Sciences), vspragadheesh@cimap.res.in, Mobile : 994558650	CSIR-CIMA P
23	Natural Products Chemistry	1. Isolation, characterization and bioactivity of natural products 2. Chemical and catalytic modification of natural products for enhancing bioactivities	Dr. Prasanta Kumar Rout, Associate Professor, pk.rout@cimap.res.in, 0522-2718662 (Office) 9598683304 (mobile)	CSIR-CIMA P
24	• Standardization and QA/QC of herbs and Herbo-mineral products • Phytochemistry • Analytical Chemistry	v Phytochemical investigations of the Indian Medicinal plants used in AYUSH v Validated chromatographic development for the standardization of raw hers and derived products v Marker based shelf-life assessment of plant based products	Dr. Karun Shanker Professor, k.shanker@cimap.res.in 0522-2718580, Cell- No: 9415329718	CSIR-CIMA P
25	Phytochemistry	Natural Product Chemistry, especially	Dr. R.C. Padalia,	CSIR-

		on aromatic plants	Associate Professor rc.padalia@cimap.res.in , 9917472497	CIMA P
26	Microbiology,	Anti-infective: Prospecting plants, phytomolecules for antimicrobial properties	Dr. D. Saikia, Chief Sci., Professor d.saikia@cimap.res.in, 0522-2718650	CSIR- CIMA P
27	Integrative Genomics of Host-Pathogen	Infectious Disease, Clinical Genomics, Pathogen genome, Host response	Dr. Rajesh Pandey, Principal Scientist, CSIR-IGIB, rajesh.p@igib.res.in, https://www.igib.res.in/?q=RajeshPandey	CSIR- IGIB
28	Machine Learning and Artificial Intelligence on Big Data from Biological Domain	Genotype-Phenotype Association Analysis, Genome Informatics	Dr. Kumardeep Chaudhary, Senior Scientist, CSIR-IGIB, kumardeep@igib.in, https://www.igib.res.in/?q=Kumardeep	CSIR- IGIB
29	Machine Learning and Artificial Intelligence	Physiological Understanding of bio-signal data, NAFLD/Lung Diseases and Immunology	Dr. Viren Sardana, Principal Scientist, CSIR-IGIB, viren.sardana@igib.in, https://www.igib.res.in/?q=VirenSardana	CSIR- IGIB
30	Ayurgenomics	physiological and genomic correlates of Dosh and prakriti ; Mechanistic understanding of therapeutic interventions of Ayurveda through Ayurgenomics approach; Application of prakriti and vikriti in disease stratification for precision interventions_ cardiometabolic disorders	Dr. Bhavana Prasher, Senior Principal Scientist, CSIR-IGIB, bhavana.p@igib.res.in, https://www.igib.res.in/?q=bhavnaprasher	CSIR- IGIB
31	Scientific Validation of Plant Traditional Knowledge	1. Plant Traditional Knowledge Derived Discovery of Lead Anti-malarial Agents 2. Scientific Understanding of Anti-microbial Formulations used in Traditional System of Medicines 3. Phytochemical Investigation of Himalayan Medicinal Plants used for Immunomodulation in Ayurveda	Name: Dr. Upendra Sharma Designations (CSIR and AcSIR): Senior Scientist & Asst. Professor Email ID: upendra@ihbt.res.in	CSIR- IHBT
32	Pharmacognosy and Phytochemistry	1. Standardization and quality control of Ayurvedic drugs 2. Pharmacognostical and phytochemical investigations of medicinal plants 3. Formulation development and	Name: Dr. Dinesh Kumar Designations (CSIR and AcSIR): Senior Scientist & Asst. Professor	CSIR- IHBT

		standardizations as per AYUSH	Email ID: dineshkumar@ihbt.res.in	
33	Computational Structural Bioinformatics	1. Exploration of Himalayan bio-active leads against MDR-TB. 2. Identification of natural molecules for the treatment of type 2 diabetes mellitus. 3. Mechanistic insight into the synergistic effect of plant extract given for curing diseases.	Name: Dr. Rituraj Purohit Designations (CSIR and AcSIR): Principal Scientist & Associate Professor Email ID: rituraj@ihbt.res.in	CSIR-IHBT
34	Medicinal plant biotechnology and tissue culture	1. Hydroponic and aeroponic cultivation of medicinal plants for metabolite enriched quality plant biomass production for the preparation of herbal formulations 2. Ayurvedic herbal formulation development from hydroponically grown plants 3. Quality assessment of herbal formulations developed from hydroponically cultivated medicinal herbs	Name: Dr. Ashish R. Warghat Designations (CSIR and AcSIR): Senior Scientist & Asst. Professor Email ID: ashishwarghat@ihbt.res.in	CSIR-IHBT
35	Skeletal and Respiratory Biology	1. Efficacy evaluation of polyherbal formulation on a preclinical model of osteoarthritis. 2. Studies for unraveling molecular mechanisms involved in the mitigation of allergen-induced asthma. 3. Therapeutic potential of polyherbal formulation on bleomycin-induced pulmonary fibrosis.	Name: Dr. Narendra Vijay Tirpude Designations (CSIR and AcSIR): Senior Scientist & Asst. Professor Email ID: narendra@ihbt.res.in	CSIR-IHBT
36	Diabetes and metabolic diseases, immunity dysfunction and inflammation	To be discussed and decide later after due deliberations	Dr. Y. S. Padwad, Designations (CSIR and AcSIR): Principal Scientist & Asst. Professor Email ID: yogendra@ihbt.res.in	CSIR-IHBT
37	microbiology	drug resistance in microbes	Dr. Suchi Srivastava Principal Scientist, CSIR- National Botanical Research Institute, Lucknow, S.srivastava@nbri.res.in	CSIR-NBRI
38	Herbal Drug	Pharmacognosy and Ethnopharmacology	Dr. Sanjeev Kumar Ojha, MD (Ayurveda) Senior Principal Scientist, E-mail:	CSIR-NBRI

			dr.sanjeevojha@nbri.res.in drsanjeevojha@yahoo.co.in	
39	Pharmacognosy and Phytochemistry	Monographic studies of ayurveda drugs; Shodhana process; Adulterants and substitutes; Rasanaya; Pharmacopoeial standardizations	Dr. Sharad Sruvasrtava, Sr. Principal Scientist and Head Pharmacognosy Division, Email: sharad@nbri.res.in	CSIR-NBRI
40	Medicinal and Aromatic plant	Abiotic stress- salt, drought and moisture (Soil Science)	Dr. Lal Bahadur, Principal Scientist, lb.yadav@nbri.res.in	CSIR-NBRI
41	Biological Sciences	Botany/Ethnomedicine	Dr Bikarma Singh, Senior Scientist, drbikarma.singh@nbri.res.in	CSIR-NBRI
42	Pharmacology	Invivo safety and efficacy studies	Dr Ch V Rao, Chief Scientist, Head Pharmacology Division CSIR-NBRI, Lucknow chvrao72@nbri.res.in	CSIR-NBRI
43	Noanobiotechnology Microbiology and drug developmet		Dr B N Singh, Principal Scientist brahmasingh99@gmail.com	CSIR-NBRI
44	Phytopharmaceuticals and nutraceuticals	Plants and Microorganisms	Thulasiram H V, Chief Scientist, CSIR-NCL, Pune 411008	CSIR-NCL
45	Microbiology, Mycotoxins	Microbial Quality of Herbal products and drugs and Process for decontamination	Dr.V.Koteswara Rao; v.koteswara@ncl.res.in	CSIR-NCL
46	Chemical characterization of Prakriti (Vata, Pitta, and Kapha) by using proteomics and metabolomics approaches	Proteomics and Metabolomics	Dr. Mahesh Kulkarni, Senior Principal Scientist, CSIR-NCL, Pune E-Mail: mj.kulkarni@ncl.res.in	CSIR-NCL
47	Area: Phytochemistry of medicinal plants	Bioactivity-guided Isolation and characterization of biologically active metabolites from natural origins Expertise in isolation and characetrisation of complex phytomolecules Scientific validation of herbal formulations, Development of protocols for scientific validation, and other related aspects in Dravyaguna	Dr. KV Radhakrishnan, Sr Principal Scientist Email:radhu@niist.res.in ,Mobile: 9446555258	CSIR-NIIST

48	Area : AYUSH Drugs and Phytopharmaceuticals	Bioactivity-guided Isolation and characterization of biologically active metabolites from natural origins Development of New Herbal Formulations/Nutraceuticals Development of new analytical methods for herbal drugs and validation of methods Research focus: Diabetes mellitus, Rheumatoid arthritis, Reproductive health, and Alzheimer's disease.	Dr. A. Kumaran, Principal Scientist CSTD, CSIR-NIIST, Thiruvananthapuram akumaran@niist.res.in, 8714510546	CSIR-NIIST
49	Area-Biochemical validation of AYUSH DRUGS	Biomarker level validation in in vitro and in vivo conditions against inflammation, cancer and maintenance of gut health and intestinal microflora.	Dr. Priya S, Principal Scientist APTD, CSIR-NIIST, Thiruvananthapuram priasulu@niist.res.in, 8606135606	CSIR-NIIST
50	Area :Food Science Formulation of P & P Products and physicochemical characterization	(1) Modernization of process for the preparation of classical products and process efficacy evaluation (2) Phytochemical characterization (3) Byproduct valorisation: Recovery and application of bioactives and biopolymers	Dr. P Nisha, Principal Scientist APTD, CSIR-NIIST, Thiruvananthapuram, pnisha@niist.res.in, 9846777133	CSIR-NIIST
51	Area: Phytochemistry and Phytopharmaceuticals	Bioactivity guided isolation and identification of medicinally significant metabolites from natural origins Development of New Herbal Formulations/Nutraceuticals Research focus: Metabolic disorders, inflammation and Alzheimer's disease.	Dr. Sasidhar B S Principal Scientist CSTD, CSIR-NIIST, Thiruvananthapuram drsasidharbs@niist.res.in Mobile: 9497260897	CSIR-NIIST
52	Area: Targeted Drug Delivery System / Nanomedicine	Development of Synergetic combination of drugs / phytomolecules; Drug loading and release profile; in vitro screening in the area of cancer and neurodegenerative disorder, e.g. Alzheimer's disease.	Dr. Kaustabh Kumar Maiti Sr Principal Scientist CSTD, CSIR-NIIST kkmaiti@niist.res.in	CSIR-NIIST
53	Area : Modernizing ayurvedic drug manufacturing	Standardisation of fermentation processes in the manufacturing of Arishtas and Asavas including development of standard inocula Development of quality control parameters based on detection of molecule(s) for monitoring the manufacture of Arishtas and Asavas	Dr Rajeev K Sukumaran Sr. Principal Scientist MPTD, CSIR-NIIST, Thiruvananthapuram rajeevs@niist.res.in 9446482557	CSIR-NIIST

54	Area : Phytochemistry of medicinal plants & Microbial natural products	Expertise in isolation and characterisation of complex phytomolecules and microbial natural products, especially the fermentation products in arishta, asavaetc	Dr. Ravishankar L ,Principal Scientist CSTD, CSIR-NIIST, Thiruvananthapuram ravishankar@niist.res.in ,Mobile: 9037386623	CSIR-NIIST
55	Area : Food Science	Food products & nutraceuticals based on classical ayurveda Protocol development for validation of classical ayurveda products and P& P products in herbal sector	Dr. Reshma MV, Principal Scientist APTD, CSIR-NIIST, Thiruvananthapuram mvreshma@niist.res.in, 9496100937	CSIR-NIIST
56		Development of fermented ayurvedic formulation(s); Development of novel biocompatible delivery systems for ayurvedic treatment	Dr. Anirban Roy Choudhury	CSIR-IMTE CH
57		Data analysis specifically dealing with NGS and evaluation of small molecules including peptides for new drug discovery or drug repurposing	Dr. Anshu Bhardwaj	CSIR-IMTE CH
58		In silico screening of ayush libraries on low resolution and low confidence models from SAXS and ED.	Dr. Ashish	CSIR-IMTE CH
59		Computational Biology, Bioinformatics, Molecular modeling and Simulations	Dr. Balvinder Singh	CSIR-IMTE CH
60		Infectious Diseases more specifically pathogenesis of Tuberculosis.	Dr. Charu Sharma	CSIR-IMTE CH
61		Antimicrobial Resistance (AMR); Bacterial signaling mechanisms; ONE health; Microbiome	Dr. G. Rajamohan	CSIR-IMTE CH
62		Antimicrobial resistance and its management by drug/antibiotic/inhibitor discovery from phytochemicals of medicinal plants as well as unexplored plants for infectious disease indications.	Dr. Hemraj S. Nandanwar	CSIR-IMTE CH
63		Protein biochemistry; Structural Biology; Enzymology.	Dr. Karthikeyan Subramanian	CSIR-IMTE CH
64		Plant/microbe based bioactives,	Dr. M. S.	CSIR-

		nutraceuticals, and development of new methods for their production.	Bhattacharyya	IMTE CH
65		Pharmacological and toxicological studies of ayurvedic products. Safety and efficacy studies/scientific validation of value of ayurvedic products in preclinical research.	Dr. Neeraj Khatri	CSIR- IMTE CH
66		Probiotics and Antimicrobials	Dr. P. Anil Kumar	CSIR- IMTE CH
67		Naturopathy with specific area of using ginger compounds as remedy for Chronic Kidney disease (CKD) and the identification of active ingredients from beet root for lowering blood pressure.	Dr. Raman Parkesh	CSIR- IMTE CH
68		Microbiology and Microbial ecology	Dr. S. Krishnamurthi	CSIR- IMTE CH
69		Microbial diversity and antimicrobial peptides,	Dr. Suresh Korpole	CSIR- IMTE CH
70		Exploitation of plant-based pigments for Biotherapeutic applications.	Dr. V. Venkata Ramana	CSIR- IMTE CH
71		Nanotechnology/immunodiagnostics /Biosensors	Dr. Vijayender Bhalla	CSIR- IMTE CH

Annexure-3

Fee Structure for PhD (Ay.) Ayurveda Vidyavaridhi, Session 2024-25

S.No.	Particulars of Fee	1 st Year Fee	2 nd Year Fee	3 rd Year Fee	Total
1	Fee(Non Refundable)	75,750.00	62,500.00	62,500.00	2,00,750.00
2	Caution Money (Refundable)	25,000.00	-	-	25,000.00
3	Total	1,00,750.00	62,500.00	62,500.00	2,25,750.00
4	Hostel Fee	27,500.00	27,500.00	27,500.00	82,500.00
5	Total	1,28,250.00	90,000.00	90,000.00	3,08,250.00

Note: Fee once deposited will not be refunded except the refundable amount.

