

## **Admission of Foreign Nationals in NIPER**

National Institutes of Pharmaceutical Education and Research (NIPERs) were set up in India at SAS Nagar (Mohali, Punjab), Ahmedabad (Gujarat), Guwahati (Assam), Hajipur (Bihar), Hyderabad (Telangana), Kolkata (West Bengal) and Raebareli (Uttar Pradesh) as autonomous institutes under the aegis of the Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Government of India to foster and enhance the quality and excellence of pharmaceutical education and research.

2. These institutes presently run postgraduate, doctorate and integrated (PG +PhD) courses across 16 diverse streams catering to the needs of the pharmaceutical industry, academia and research institutes. More than 8,000 students have already passed from these institutions. NIPERs have made significant contributions to research with about 6,700 papers published in prestigious research journals with high impact factors, filed about 360 patents and signed more than 250 MOUs with industry and Indian and international academic institutes.

3. As per the National Institutional Ranking Framework (NIRF) release by the Ministry of Education, Government of India every year, five of the seven NIPERs have been ranked among the top in India in 'Pharmacy' category with NIPER at Hyderabad being the top most institute in India in the category. Collectively, the seven NIPERs admit over 1,300 aspiring pharmaceutical researchers for Master's programs (MS/ M Pharma/ M Tech/ MBA) and more than 200 students for Doctoral courses annually. The selection is through a common NIPER Joint Entrance Examination. NIPERs boast a competent workforce, well-established infrastructure, and state-of-the-art research laboratories with modern equipment to tackle current challenges in the pharmaceutical sector and meet societal demands. Recently, these institutes have also been empowered to run underground courses.

4. The NIPER International Student Admission Brochure (Masters, Ph.D. and Integrated Ph.D.) is enclosed herewith (also available on the link <http://brochure.niperkolkata.edu.in/>). Detailed information about the research projects at NIPERs' is available on the link <https://nipermis.pharmaceuticals.gov.in>. For any further information, please contact at e-mail: [intladmin@niperkolkata.ac.in](mailto:intladmin@niperkolkata.ac.in).

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# International Student Admission Brochure



National Institute(s) of Pharmaceutical  
Education and Research

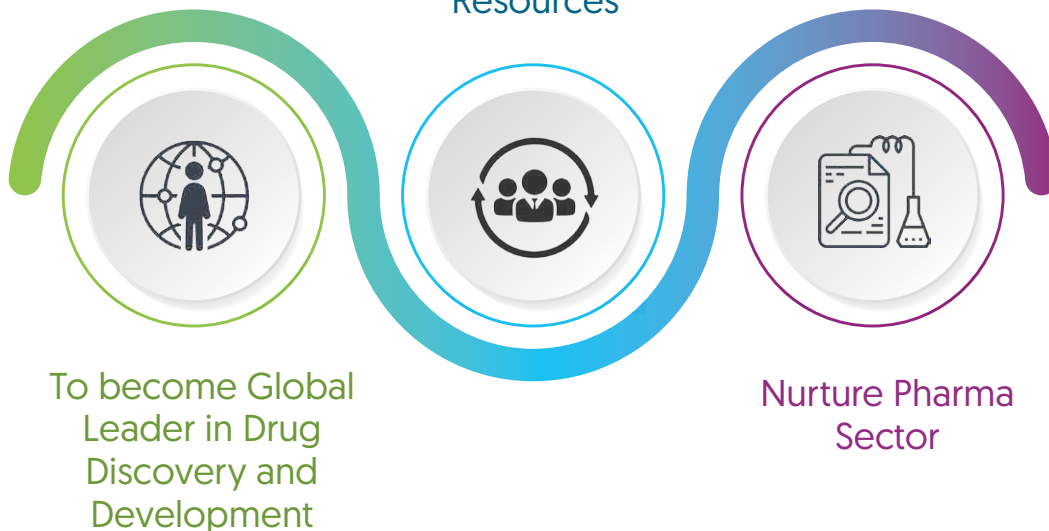
(NIPERs: An Institute of National Importance<sup>4</sup>)

# About NIPERs

The National Institute[s] of Pharmaceutical Education and Research [NIPERs] have been established under the aegis of Ministry of Chemicals and Fertilizers, Government of India, Department of Pharmaceuticals, as centers of excellence for imparting higher education, research and development in pharmaceutical sciences. The first NIPER at S.A.S. Nagar, Mohali was established in 1998, and the Institute was declared as an Institute of National Importance by the Government of India through an Act of Parliament, notified on 26th June 1998. During 2007 -08, six new NIPERs were established at Ahmedabad, Guwahati, Hajipur, Hyderabad, Kolkata, and Raebareli. These institutes are members of the Association of Indian Universities and Association of Commonwealth Universities.

## NIPERs VISION

Advanced Human  
Resources



# Objectives of NIPERs



# Courses Offered in NIPERs

Departments	NIPER SAS NAGAR	NIPER Ahmedabad	NIPER Hyderabad	NIPER Guwahati	NIPER Raebareli	NIPER Kolkata	NIPER Hajipur
Biotechnology	✓	✓		✓	✓		✓
Clinical Research	✓						
Medicinal Chemistry	✓	✓	✓	✓	✓	✓	
Medical Devices	✓	✓	✓	✓		✓	
Natural Products	✓	✓	✓			✓	
Pharmaceutical Analysis	✓	✓	✓	✓		✓	✓
Pharmaceutical Technology (Biotechnology)	✓						
Pharmaceutical Technology (Formulation)	✓			✓			
Pharmaceutical Technology (Process Chemistry)	✓		✓				
Pharmaceutics	✓	✓	✓	✓	✓	✓	✓
Pharmacoinformatics	✓		✓			✓	
Pharmacology and Toxicology	✓	✓	✓	✓	✓	✓	✓
Pharmacy Practice	✓			✓			✓
Regulatory Toxicology	✓		✓		✓		
Traditional Medicine	✓						
Regulatory Affairs			✓				
Pharmaceutical Management	✓	✓	✓				

# WHY NIPERs:

- The institutes are globally recognised as centres of academic excellence in pharmaceutical sciences and are reputed for the outstanding calibre of the students completing education from them.
- NIPERs are ranked alongside some of the best universities in India.
- NIPERs are institutes of international repute with alumni spread all across the globe.
- Our degrees are developed in consultation with industry and based on cutting-edge research.
- We are involved in technology-driven translational research in the frontier areas of pharmaceutical sciences.
- World-Class research facilities with scientifically recognized faculty and staff for executing cutting edge research and innovative teaching.

## COURSES OFFERED:

- Post Graduate and Ph.D

## NUMBER OF SEATS RESERVED FOR FOREIGN STUDENTS:

- Sanctioned Seats for foreign students limited to 5% of the existing intake of the institutes.

## ADMISSION CRITERIA FOR FOREIGN NATIONALS:

- The candidate should have passed the qualifying degree with a minimum of 60% marks in aggregate or CGPA of 6.75 on a 10 point scale wherever grades are awarded or equivalent as determined by Board of Studies and Research of NIPER [Percentage of marks or CGPA so calculated will be based on the norms fixed by the concerned University / Institution or aggregate marks or CGPA scored by the candidate for all years of the qualifying degree, in case University / Institution has not prescribed any norm for calculating such percentage or CGPA.]
- On the recommendation of Ministry of Education/ Ministry of External Affairs, Govt. of India, eligible Foreign Nationals selected by the respective ministry under various scholarship schemes shall be considered for admission; and Eligible Self- Financing Foreign Nationals shall be directly considered for admission by the Institute.
- These candidates shall approach the Institute for admission with prior clearance from Ministry of External Affairs, Govt. of India.
- Only those Students who have qualified from "Foreign Universities" or "Boards of Higher Education recognized as equivalent by the 'Association of Indian Universities' [AIU] are eligible for admission". When required, a reference will be made to AIU to check the equivalence. In case the University or Board is not included in the list, the candidate has to obtain and submit a certificate to this effect from AIU by paying the requisite fee. Submission of Equivalence Certificate from AIU is mandatory for International Students.

### AIU address is given below :

AIU HOUSE, 16, Comrade Indrajit Gupta Marg, New Delhi 110002, India.

Phones: [91]-11-23230059, [91]-11-23232429

Fax: [91]-11-23232131

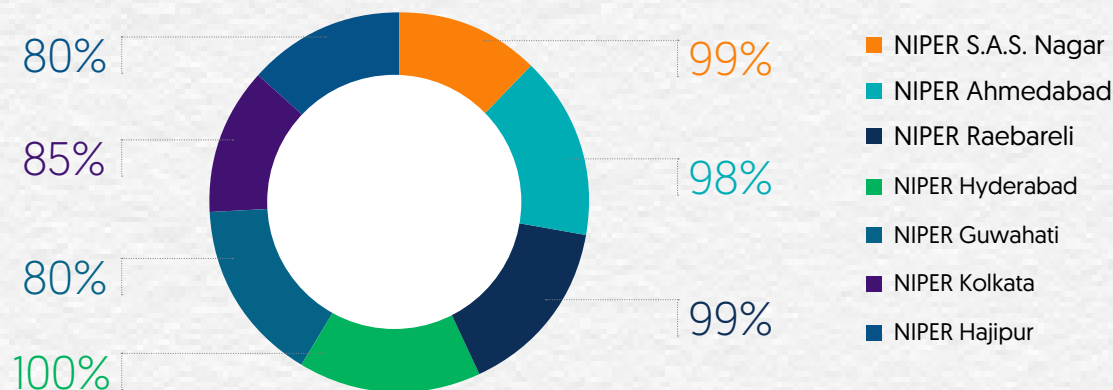
E mail: [aiu@del2.vsnl.net.in](mailto:aiu@del2.vsnl.net.in) Website: <http://www.aiuweb.org>

- The eligible candidates will be informed through foreign embassy in India.





# Placement



Fee Structure for NRI and their wards/Self-Financing  
'Foreign National' students :

## MASTERS, INTERATED PG-PhD

### MASTERS

US\$ 2355  
At the time of  
admission

US\$ 1300  
Every  
subsequent  
semester

### MBA

US\$ 4300  
At the time of  
admission

US\$ 2815  
Every  
subsequent  
semester

- Any other fee, charges or dues at the same rate as payable by the Indian students of the same academic category and level, will be payable in US \$ by such candidates
- NRI candidates even if they do not avail hostel facility, they will not be declared as non hosteller
- INTERATED PG-PhD: Fee structure during the duration of Master's program
- Once the student clears the master's program and enters the Ph.D. program, he/she should pay the fees on par with the fees prescribed for the Ph.D. program of foreign Nationals along with the annual contingency fees

Fee Structure for Self-Financing 'Foreign National'

## PhD

### PhD

US\$ 3250  
At the time of admission

US\$ 2075  
Every subsequent semester

The candidates will be required to deposit US\$ 1375 p.a. (nonrefundable) towards project expenditure along with admission/ semester fees. Any other fees, charges or dues [at the same rate] as payable by the Indian students of the same academic category and level will be payable in US \$ by such candidates.

### Refund of Security Amount

- If the student does not join the programme after paying the fees and leaves the Institute, the fees would not be refunded excluding Security Amount.
- Students in eventuality of withdrawing/leaving a course after joining will have to return the entire fellowship received.

# Institute Facilities



NMR



Medicinal Chemistry



Computer Lab



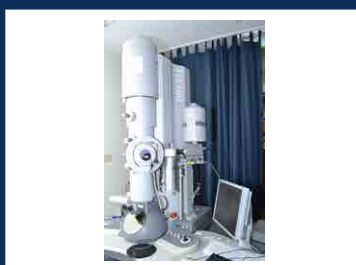
Library



Animal House



DD Lab



High Resolution Transmission  
Electron Microscopy



LCMS



Spray Dryer



3D Printer [SLS]



Confocal Microscope



# Research Focus

## NIPER - Mohali

- Drug development in Tuberculosis, Leishmaniasis, Malaria, and metabolic pathways in diseases like inflammation, infection, cancer, diabetes, and neurodegeneration.
- Improvement of oral bioavailability, synergistic anticancer efficacy, and reduced toxicity of drugs.
- Green sustainable synthesis of APIs, KSMs, and intermediates.
- Monograph on herbals is being developed.
- Study of the effect of RNA aptamers on stabilization of misfolded proteins.
- Artificial intelligence, Machine Learning, Big data Analytics.
- HEOR and pharmacovigilance.



## NIPER - Ahmedabad

- Leads identification and optimization of natural scaffolds in cancer and type 2 diabetes.
- Nanoformulation mediated site-specific delivery of RNAi-therapeutics in cancer.
- Development of laser-guided and magnetic mediated cancer theragnostics.
- Stem cell engineering and therapy, regenerative medicine for neurological disorders.
- Nanoparticle-based brain targeted drug delivery.
- Piezoelectric smart biomaterials for rapid regeneration of articular surfaces.
- Tissue engineering biomaterials for spinal cord regeneration.



## NIPER - Hyderabad

- Integrated Drug Discovery and Product Development Programmes in Cancer, Diabetes, other metabolic disorders and Neurodegeneration.
- Development of novel Process for NCEs, Bulk Drugs and Intermediates.
- Development of Analytical Methods, Impurity Profiling and Stability studies.
- Solid state characterization.
- Targeted drug delivery systems.
- Peptidomimetics as therapeutic agents and Drug Delivery Systems.
- Bioavailability improvement using nanotechnology, lipid-based systems and crystal engineering techniques.



## NIPER - Guwahati

- Development of drug delivery systems against Cancer.
- Screening of NCE's and North-East plant products against Parkinson's Disease and Depression.
- Screening Indian biodiversity and Indian Systems of Medicine for lead molecules in inflammation, arthritis, diabetes, and cancer.
- Study of drug utilization pattern for antiepileptic and antipsychotic drugs.
- Pharmaceutical 3D and 4D Printing Technology.
- Pharmacoengineered delivery devices to fight against neglected diseases.
- Bioavailability, IVIVC and IVIVE analysis.
- Pharmacokinetic, Toxicokinetic, Metabolic and Impurity profiling.



## NIPER - Raebareli

- Development and evaluation of drugs using Nano formulations.
- Development of green and eco-friendly synthetic methods.
- Identification of novel chemotherapeutic agents for various diseases like cancer, malaria, tuberculosis and other inflammatory diseases.
- Dendrimers for drug delivery applications with simultaneous immunostimulation and antiangiogenic activity.
- Stress Biology and Environmental biotechnology.



## NIPER - Kolkata

- Transcriptomics, Proteomics and Network Pharmacology of herbal medicines.
- Understanding disease pathogenesis of NASH, Diabetic complications and Neurological disorders.
- Computational designing of anti-microbial agents and targeting biofilms and quorum sensing.
- Genome editing and Metabolic bioengineering for production of small molecules.
- Green Chemistry and Flow Chemistry for API synthesis.
- Nucleic acid based therapeutics agents.
- Biomaterial optimization for Medical Devices and Biosensor development.
- Novel drug delivery system and 3D bioprinting.





## NIPER - Hajipur

- Developing pharmacologic, genetic, and stem cell-based interventions for reversing the mood and cognitive deficits in cancer survivors, Alzheimer's patients, and in aged population.
- Exploring the epigenetic alterations in chemo and-radio resistance tumors, and to develop translational strategies reversing tumor resistance against cancer treatment.
- Neural tissue engineering and developing 3D culture/organoid based personalized medicine interventions for diagnosis, prognosis and treatment of cancer and neurological disorders.
- Micro-and nanoscale technologies for the treatment of leishmania, cancer, and brain disorders.
- Medication safety studies such as Drug Utilization Evaluation/Review, Drug interactions / Pharmacoeconomics studies.
- Clinicalefficacyandsafety studies alongwith pharmacovigilance and materiovigilance activity pertaining to infectious diseases such as HIV, tuberculosis and Cancer.



## Nodal Officer Contact Details:

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- ◆ **Website:** [www.niper.nic.in](http://www.niper.nic.in)



## NIPER - Ahmedabad and Hyderabad

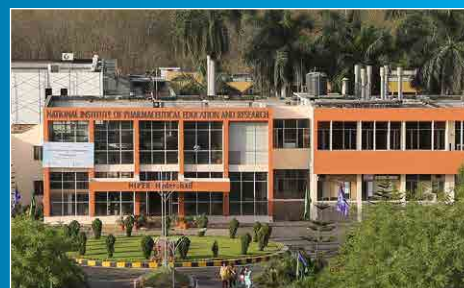
### Dr. Shailendra Saraf

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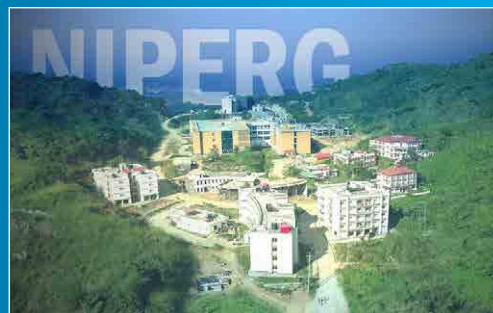


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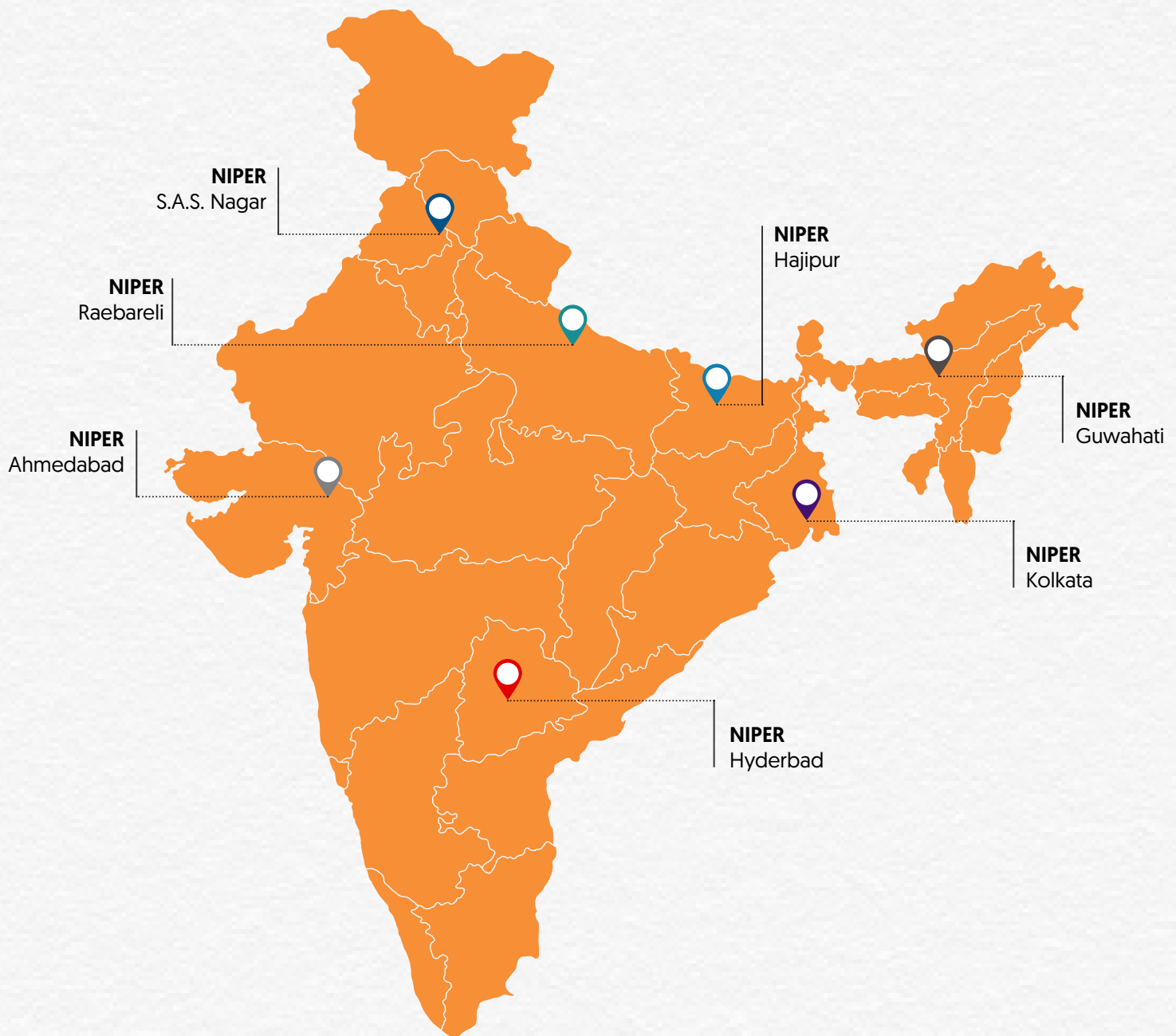
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## National Institute(s) of Pharmaceutical Education and Research

[NIPERs: An Institute of National Importance]

**For queries related to international admission in NIPER**

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or call us at +91 033-23200086 [Ext No: 218]