

HBNI-Industry Linkage Centre

Location of HBNI Central Office, Constituent Institutions & Off Campus Centre





Homi Bhabha National Institute (HBNI)

The **Homi Bhabha National Institute (HBNI)** was established in 2005 under section 3 of the UGC Act. The role of HBNI is to nurture in-depth capabilities in nuclear science and engineering and to serve as a catalyst to accelerate the pace of basic research and facilitate its translation into technology development and applications through academic programs, viz., Master's and Ph.D. degrees in Engineering, Physical, Chemical, Mathematical, Life and Medical & Health Sciences while encouraging inter-disciplinary research. Additionally, academic programs in the domain of Applied Systems Analysis have also been identified to ensure the availability of adequate qualified human resources to address issues pertaining to nuclear law, the economics of nuclear power, nuclear security, nuclear proliferation, intellectual property rights among others. HBNI has been accredited by NAAC with a score of 3.4, as a category '**A+**' University in 2021.

HBNI received **17th rank** in University, **15th position** in Research Institution category and was placed at **30th position** among **1657** institutions in the overall category in the **MHRD's National Institutional Ranking Framework (NIRF)** exercise for the academic year **2023**. Nature index has ranked HBNI in **Second Position** next to **IISC** Bangalore with respect to research publications. More than **2300 PhD** (Passed out since **2007-08**). With a view to facilitate the translation of the R&D in the laboratory to the Industry and for the welfare of the common man, HBNI has set up "**HBNI-Industry Linkage Centre (HILC)**". The Center will also facilitate skill development of HBNI PhD student by way of internship in Industry.

BACKGROUND



BACKGROUND

Function of HILC

Student Internship in Industry

- ◆ Towards the objective of skill development of HBNI students, HILC will facilitate their internship in Industry for a period of 3-6 months.
- ◆ Students who have completed a substantial part of thesis work of their Ph.D program, as well as those who have submitted the thesis/synopsis but are yet to be awarded the degree, will be eligible for the internship.

Consultancy Services

- ◆ With a view to utilize the vast experience of former scientific and technical experts from DAE, and particularly the former faculty from CIs/OCC units, for the benefit of Industry, HILC will facilitate the interaction between them and industry for taking up consultancy projects.

R&D collaboration

- ◆ HILC will facilitate R&D collaboration between Industry and HBNI students / faculty with the aim of scaling up processes, commercializing / incubating new technologies developing new processes / products of interest to DAE.

BACKGROUND



Technology transfer

◆ A large number of technologies in the field of Agriculture and Bioscience, Radiation technology, Advanced instrumentation, Medical equipment, Engineering, Environment, Chemical and Water technology have been developed by Scientists and Engineers of **DAE**. Many of them are amenable for opening starts up ventures by Alumni / PhD students of HBNI as well as other institutes/ Universities.

HBNI has the following Centres as its Constituent Institutions **(CIs)/Off-Campus Centre (OCC)**:

- i. **Bhabha Atomic Research Centre (BARC), Mumbai**
 - ii. **Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam**
 - iii. **Raja Ramanna Centre for Advanced Technology (RRCAT), Indore**
 - iv. **Variable Energy Cyclotron Centre (VECC), Kolkata**
 - v. **Saha Institute of Nuclear Physics (SINP), Kolkata**
 - vi. **Institute for Plasma Research (IPR), Gandhinagar**
 - vii. **Institute of Physics (IoP), Bhubaneswar**
 - viii. **Harish-Chandra Research Institute (HRI), Prayagraj**
 - ix. **Institute of Mathematical Sciences (IMSc), Chennai**
 - x. **Tata Memorial Centre (TMC), Mumbai**
 - xi. **National Institute of Science Education and Research (NISER), Bhubaneswar**
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ACADEMIC PROGRAMMES OF HBNI: PATHWAYS TO PROFESSIONAL CAREERS

HBNI offers a range of academic programmes in various disciplines of science at its constituent institutes (CI)/off campus Centres (OCC) and the details are given below:

- ◆ **Ph.D.** degrees in varied disciplines (Applied System Analysis, Chemical Sciences, Computer Science, Computational Biology, Earth & Planetary Science, Engineering Sciences, Humanities & Social Sciences, Life Sciences, Mathematical Sciences, Medical & Health Sciences, Physical Sciences and Theoretical Computer Science)
- ◆ **Integrated Ph.D.** in Applied System Analysis, Chemical Sciences, Computational Biology, Engineering Sciences, Life Sciences, Mathematical Sciences and Theoretical Computer Science
- ◆ **M.Sc.** (Engineering Sciences), M.Sc. (Physics)
- ◆ **M.Sc.** (Nursing) and M.Sc. (Clinical Research)
- ◆ **M.Sc.** (Public Health in Epidemiology) and M.Sc. (Occupational Therapy in Oncology)
- ◆ **M.Sc** (Nuclear Medicine and Molecular Imaging Technology) and M.Sc. (Hospital Radiopharmacy)
- ◆ **Integrated M.Sc.** (five-year duration in Chemical Sciences, Life Sciences, Mathematical Sciences and Physical Sciences)
- ◆ **Post-Graduate Medical Degree, M.D.** in various broad domains of oncology
- ◆ **Super Speciality Medical Degree, D.M. and M.Ch.** in specialised domains of oncology
- ◆ **Post graduate (PG) Diploma** in Nuclear Science and Engineering (DipNSE)
- ◆ **PG Diploma** in Radiological Physics (DipRP)

More details about the courses and admission requirements are available on HBNI website: <http://www.hbni.ac.in/>.



HBNI Ranked 15 in research Institution Category



HBNI Ranked 17 in University Category

HBNI Ranked 30 in Overall Category





Homi Bhabha National Institute

An aided institution of the Department of Atomic Energy and a
Deemed to be University under section 3 of the UGC Act, 1956.

PhD students' Industry internship form

Name of the Student	
Enrolment Number	
Date of enrolment	
Name of CI/OCC	
Discipline	
Title of thesis	
OGCE and all annual progress reports have been submitted/ PhD Thesis submitted/ Degree awarded	
List of publications (if any)	
Broad areas of research for internship	
Suggested relevant company/Industry for internship	1) 2) 3) 4) 5)
Attach the following documents along with this form (i) Brief CV of the student (highlight your industry relevant skill) (ii) Guide's recommendation	

To be submitted through
Dean Academic

Key Officials of HBNI

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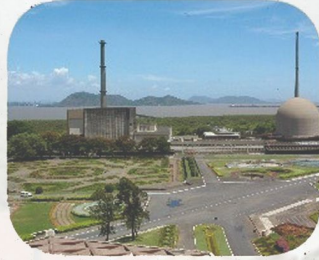
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CORE VALUES OF HBNI





HBNI Central Office



Bhabha Atomic Research Centre



Indira Gandhi Centre for Atomic Research



Raja Ramanna Centre
for Advanced Technology



Variable Energy Cyclotron Centre



(An aided institution of the Department of Atomic Energy and
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www.hbni.ac.in



Institute of Mathematical Sciences



Institute of Physics



Institute for Plasma Research



Harish-Chandra Research Institute



Saha Institute of Nuclear Physics



Tata Memorial Centre



National Institute of Science
Education and Research

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a Deemed to be University under section 3 of the UGC Act, 1956

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