FOUNDATION DAY

Tuesday, June 3, 2025

होमी भाभा राष्ट्रीय संस्थान

HOMI BHABHA NATIONAL INSTITUTE

(परमाणु ऊर्जा विभाग की एक सहायता प्राप्त संस्था एवं यूजीसी अधिनियम 1956 की धारा 3 के तहत एक मानद विश्वविद्यालय)

(A Deemed to be University u/s 3 of UGC Act 1956 and a Grant-in-Aid Institute of the Department of Atomic Energy, Govt. of India)

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

HBCH & RC, Chandigarh

MPMMCC & HBCH
Varanasi

VECC, Kolkata

HRI, Prayagraj

SINP, Kolkata

RRCAT, Indore

NISER, Bhubaneswar

IPR, Gandhinagar

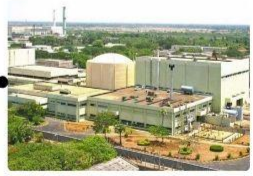
IoP, Bhubaneswar

BARC, Mumbai

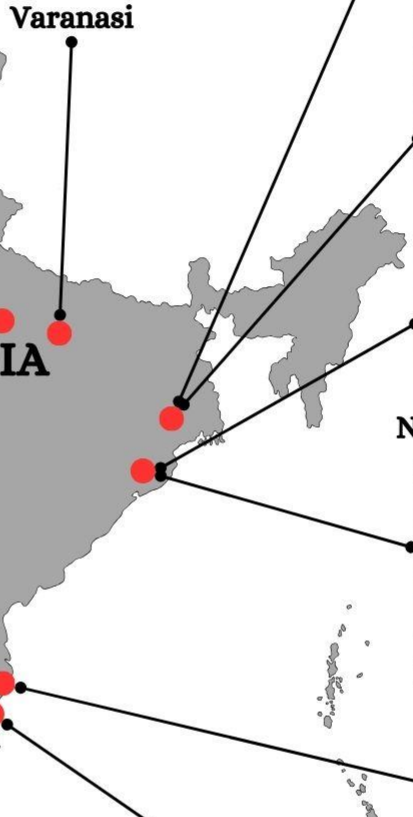
IMSc, Chennai

TMC, Mumbai

HBNI Central Office, Mumbai



IGCAR, Kalpakkam



nirf

6th Rank in Research Institution
16th Rank in University
27th Rank in Overall

A+ Grade
3.4 Score

nature index

1st in Physical Sciences
2nd in All Publications

Homi Bhabha National Institute

Foundation Day Program Schedule

Tuesday, 3rd June 2025, 14:30-18:30 hrs
DAE Convention Centre, Anushaktinagar

- **Welcome Address: Prof. A.K. Tyagi, Dean, HBNI**
- **Opening Remarks: Prof. U. Kamachi Mudali, Vice-chancellor, HBNI**
- **Chancellor's Address: Dr. Anil Kakodkar, Chancellor, HBNI**
- **Presidential Address: Dr. A. K. Mohanty, Chairman, Council of Management, HBNI**
- **Distribution of Outstanding Student Awards, J B Joshi Research Foundation Innovation Awards & Degree Certificates by the Chief Guest:**

  Shri R. Mukundan, Managing Director & CEO, Tata Chemicals Limited, Mumbai

- **J B Joshi Research Foundation Endowment Lecture by the Chief Guest:**

  Shri R. Mukundan

  Managing Director and CEO, Tata Chemicals Limited, Mumbai

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Shri R. Mukundan

Managing Director & CEO
Tata Chemicals Limited, Mumbai

Profile of the Chief Guest, Shri R. MUKUNDAN

Shri R. Mukundan, Managing Director & CEO of Tata Chemicals Limited, joined Tata Administrative Service in 1990, after completion of MBA from FMS, Delhi University. He is a distinguished alumnus of IIT, Roorkee, Fellow of Indian Chemical Society and an alumnus of Harvard Business School. He was awarded an Honorary Doctorate in business administration by XIM University, Bhubaneshwar. With over 30 years' experience at Tata Group, he has held various responsibilities across the Chemical, Automotive and Hospitality sectors of the Tata Group. He serves industry forums and impact organizations. He is currently Vice President – CII for FY 2024-25.

JB Joshi Research Foundation Endowment Lecture

Towards Viksit Bharat: Sustainable Energy for Industrial Advancement

Sustainable energy is crucial for India's industrial innovation, especially in energy-intensive sectors like chemicals. As India aims for Viksit Bharat by 2047, energy security is vital for continuous research, production, and technological advancement. The chemical industry, with its reliance on high-temperature and continuous processes, faces unique challenges in adopting low-carbon energy solutions. This talk will explore emerging sustainable energy technologies—such as green hydrogen, electrification, and carbon capture—and their transformative potential in the Indian context. It also highlights the role of academic research and interdisciplinary collaboration in shaping a secure, sustainable energy future for India's industrial progress, ensuring societal progress with minimal environmental impact.

ABOUT HOMI BHABHA NATIONAL INSTITUTE

Homi Bhabha National Institute (HBNI) is a unique research university that was formed under the umbrella of Department of Atomic Energy (DAE) on June 3, 2005. As of today, HBNI is a deemed to be university under section 3 of UGC act 1956 and a grant-in-aid institution of DAE. It brings together 13 premier institutions (4 R&D centres and 9 grant-in-aid institutions) of DAE called as Constituent Institutes (CIs) and Off-Campus Centre (OCCs) together under the academic context. The institute offers higher education at Masters and Doctoral level.

The pan India presence of HBNI affiliates gives opportunity to its researchers (both faculty and students) to gain access to world-class infrastructure and research facilities available at various CIs and OCCs. This enables our faculty and students to think beyond boundaries and provides a nurturing ecosystem to research and innovate.

HBNI currently offers 45 academic programs in Chemical Science, Physical Science, Life Science, Engineering Science, Mathematical sciences, Health and Medical Sciences, Studies for Applied Systems Analysis and Interdisciplinary Science and Engineering. HBNI offers many unique programs such as Diploma in Radiological Physics, specialty and super specialty programs in oncology and nuclear medicine which directly cater to skill development among the students. HBNI endeavors to provide the best learning opportunities to its students. To this end, a well-defined Foreign Travel Assistance scheme is in place which enables the students to present their research results at international platforms. HBNI cater to innovation and placement needs of our students by means of HBNI Institutional Innovation Council and HBNI Placement cell. HBNI has an active alumni group and monthly alumni webinars are organized so that the current students can understand the opportunities and challenges which they may face with respect to employment opportunities.

HBNI has an impressive academic record so far. The university has awarded 9234 students with degree/diploma/certificate since 2007. This includes 2848 Ph.D., 1690 M. Tech., 822 M.D., 259 M.Ch., 221 D.M., 1032 Int. M.Sc., 606 Skill Based Diploma Programs, 274 Skill Based PG Programs, 126 M.Sc. (Engg.), 259 M.Sc., 875 PGD, etc. (as on 31 March 2025).

During the period April 2024-March 2025, 1017 students were admitted in various academic programmes at HBNI, out of which 410 students were enrolled for Ph.D. program. Results have been declared for 897 students overall which includes 293 Ph.D. degrees, 131 M.Tech. degrees, 260 M.Sc. degrees (in various disciplines), 98 post-graduate & super specialty medical degrees (with specializations in Oncology and nuclear medicine), 70 Post Graduate Diploma (in Nuclear Science and Engineering), and 26 Diploma in Radiological Physics.

Beacons that Guide

Prof. A.K. Mohanty
Chairman, CoM, HBNI,
Secretary, DAE &
Chairman, AEC

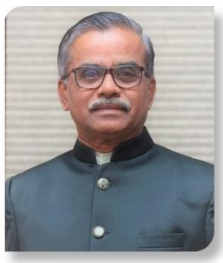
Dr. Anil Kakodkar
Chancellor, HBNI

Prof. U. Kamachi Mudali
Vice Chancellor, HBNI

Prof. A. K. Tyagi
Dean, HBNI

The Council of Management, HBNI

Prof. A.K. Mohanty
Chairman, CoM, HBNI,
Secretary, DAE &
Chairman, AEC



Prof. U. Kamachi Mudali
Vice Chancellor, HBNI

Shri. Vivek Bhasin
Director, BARC

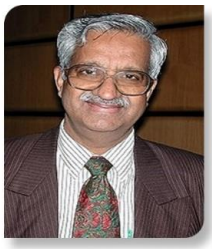
Ms. Seema Jain
Member (Finance), AEC

Dr. Sumit Som
Director, VECC

Dr. Sudeep Gupta
Director, TMC

Prof. H.N. Ghosh
Director, NISER

Prof. Ujjwal Sen
Director, HRI



Dr. V.S. Ramamurthy
Emeritus Professor, NIAS,
Bengaluru

Dr. S. Sivaram
Professor Emeritus
IISER, Pune and Hon.
Professor,
IISER, Kolkata

Prof. A. K. Tyagi
Dean, HBNI

Shri. Hari Narayan Sahu
Registrar, HBNI
Non-Member Secretary

डॉ. अजित कुमार मोहान्ती
Dr. Ajit Kumar Mohanty

भारत सरकार
Government of India

अध्यक्ष, परमाणु ऊर्जा आयोग
व
सचिव, परमाणु ऊर्जा विभाग
Chairman, Atomic Energy Commission
&
Secretary, Department of Atomic Energy

MESSAGE

Organising the first University Convocation ceremony for the Homi Bhabha National Institute is a moment of pride and privilege for us looking back the glorious past of the Institute. I hereby extend my warmest congratulations to all the 293 graduating students (Ph.D. and Integrated Ph.D.) for the year 2024-2025. Your hard work of the past 4-6 years has finally culminated into the award of a well-deserved degree. The young bright minds have been transformed into accomplished individuals, geared to bring positive change in the society by means of innovative science and technology. A doctorate degree represents the pinnacle of academic achievement and hence you represent the selected few in your field. As we celebrate this significant occasion, I must reiterate the additional responsibility bestowed upon you to carry forward the baton of higher education and the torch of excellence.

Your decision of doing a Ph.D. years ago at HBNI would certainly transform your entire life. The process of earning a doctoral degree develops important traits such as rational and logical thinking, time management, discipline, punctuality and sense of ownership towards something that you created, your Ph.D. thesis. All these traits are crucial for shaping independent scientists for the future of Science and Technology. I must urge all of you to use this achievement of yours not only as a gateway to employment but also foray into the arena of innovation and entrepreneurship.

To all our graduating students, congratulations once again on reaching this milestone. It is through your hard work, dedication and commitment to your studies that you stand here today. As we celebrate the achievements of our graduates, we must also express our gratitude to their parents and families as well as our academic faculty and staff members of HBNI who have been the leaning pillars every time, they needed the support. Last but not the least, you are now ambassadors of HBNI who will fly to new destinations as HBNI alumni. From this day on keep learning, keep growing, and you will certainly bring your alma mater's name to newer heights in the future. All the best and hearty congratulations for a bright future!

Ajit Kumar Mohanty

(Ajit Kumar Mohanty)

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दूरभाष/Phone:+(91) (22) 2202 2543 • फैक्स/Fax: +(91) (22) 2204 8476 / 2284 3888
ई मेल/E-mail: chairman@dae.gov.in

Dr. Anil Kakodkar

Chancellor, Homi Bhabha National Institute

Greetings to all colleagues on the occasion of Foundation Day.

HBNI was established on this day in 2005 as a unique experiment, one that sought to foster an environment conducive to fundamental research aligned with the interests of DAE, while emphasizing the translation of this research into cutting-edge technologies. Though there is still much to be achieved, the progress made so far is remarkable. This is evident from HBNI's performance in the NIRF rankings and its strong record of research publications in interdisciplinary domains.

HBNI has always been ahead of its time in fostering multi-disciplinary research. Many of the core principles outlined in the recently adopted National Education Policy 2020 have already been embraced. At the same time, there are several new directions we must actively incorporate. Among others, strengthening industry collaboration and shaping the framework of innovation to accelerate the advancement of the nuclear energy programme are very important. Foundation Day provides us a valuable opportunity to take stock of our journey so far and to chart a strategic course for the future. In this context, HBNI must evolve into an effective think tank, capable of guiding DAE's efforts to address the nation's most pressing challenges. Among these, goals of advancing India towards a developed-nation status, "Vikishit Bharat", and address our key needs i.e. food, energy, water and security stand paramount. Given the scale and complexity of this challenge, it is imperative to develop India-specific solutions. Shaping effective policies and actions to meet these goals will require original, comprehensive, and sustained research and development — grounded in a unique approach that reflects our unique strengths and culture.

I am glad that Shri R. Mukundan, Managing Director and CEO, Tata Chemicals Limited is with us on this occasion as the Chief Guest who will be delivering Professor J B Joshi endowment lecture. Hearty congratulations to all the students winning the Outstanding Student Awards, J B Joshi Research Foundation Innovation Awards and Degree Certificates. Once again my heartiest congratulations to everyone who have contributed to advancement of HBNI.

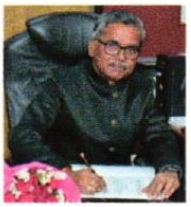
(Anil Kakodkar)

होमी भाभा राष्ट्रीय संस्थान
Homi Bhabha National Institute
प्रशिक्षण विद्यालय परिसर, अणुशक्तिनगर, मुंबई 400094, भारत Training School Complex, Anushaktinagar,
Mumbai – 400 094, India Tel. No. 91-22-69297638 Email: vicechancellor@hbni.ac.in

PLATINUM JUBILEE YEAR 70 Glorious Years 1954-2024
Department of Atomic Energy

Prof. U. Kamachi Mudali
FNAE, FNASc, FNACE, FASM, FAPAM, FIFHTSE
FICS, FIIM, HFECSI, FIIChE, FIE,
FASch, HMIIM, HMUDCTAA
Vice Chancellor

प्रो. यू. कामाची मुदली
FNAE, FNASc, FNACE, FASM, FAPAM, FIFHTSE
FICS, FIIM, HFECSI, FIIChE FIE
FASch, HMIIM, HMUDCTAA
कुलपति



Homi Bhabha National Institute (HBNI) was formed on 3rd of June 2005 as a Deemed to be University by the then MHRD, Government of India, and since then, this day is celebrated as HBNI's Foundation Day every year. It has been two decades of its inception, HBNI is getting stronger with every passing year in all domains of academic pursuits. As the Vice-Chancellor, I welcome everyone to the 20th Foundation Day of HBNI. It gives me immense proud and joy to be a part of the success story of this young university which has been grooming students for tomorrow, in niche areas of nuclear science and engineering as well medical and health sciences.

Let me brief you about the academic performance of HBNI during the year 2024-25 (April 2024-March 2025). HBNI awarded overall 897 degrees to its students, that included 293 Ph.D. degrees; 98 Medical degrees; 260 .Master degrees & 131 M.Tech degrees. The university performed excellent in National Institutional Ranking Framework (NIRF)-India Rankings and Nature Index Rankings for 2024. HBNI has been ranked 6th in the research institution; 16th in the University category; and 27th in Overall category by NIRF. We have also accomplished second rank in overall category and first rank for publications in physical Sciences as per Nature Index Rankings for 2024. These rankings evoke a sense of pride among all of us, however, we still have miles to go. I am sure, with the support of outstanding faculty, excellent students and committed staff members, HBNI will go higher up in the ladder. We are resolute to achieve further excellence in future.

New Education Policy (NEP) has been implemented since 2020 by Government of India, and HBNI has adopted several of its recommendations as per the directives of UGC such as formulation of HBNI Institutional Innovation Council, HBNI's Placement cell, HBNI's R&D Cell, Lateral Entry and Exit option in Academic Programs, Academic Bank of Credit system, etc. We are sure these steps will further streamline as well as enhance the academic experience at all Cis and OCCs of HBNI.

For benefit of the students and in line with NEP, HBNI organized several online courses during the year viz., Research Methodology & Research and Publication Ethics and Advanced Materials Chemistry. As a part of HBNI's placement cell activity, a series of alumni webinars were also conducted for the benefit of the students. These webinars are available on HBNI's YouTube channel for the benefit of students.

Contd.....

I am also happy to share with you that many of our faculty members and students bagged recognitions and prizes at national as well as international fora. Most prominent among these is the conferment of Vigyan Sri award to Prof. A.K. Tyagi, Dean, HBNI. Other notable recognitions include, Fellowship of The World Academy of Sciences, Fellowship of different Indian Science Academies and INAE, JC Bose Fellowship, and Fellowship of the Royal Chemical Society, UK. I take this moment to congratulate all the award winners of the HBNI family.

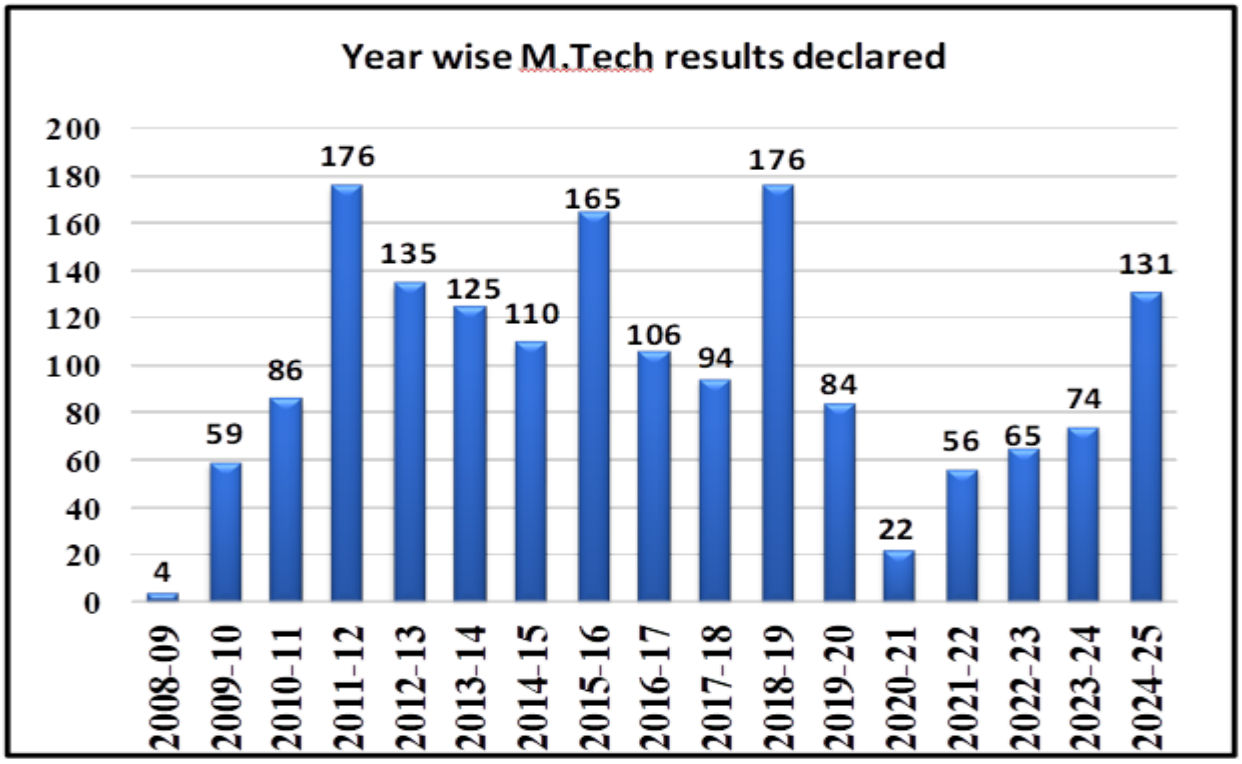
I am also happy to share with you that during 2024-25, two more centres i.e. Mahamana Pandit Madam Mohan Malaviya Cancer Centre and Homi Bhabha Cancer Hospital (MPMMCC & HBCH), Varanasi and Homi Bhabha Cancer Hospital and Research Centre, New Chandigarh, Punjab (Both under TMC) became our Off Campus Centres (OCCs). This brings the members of HBNI family to 13; 10 CIs and 3 OCCs. We congratulate and welcome the new members to our family.

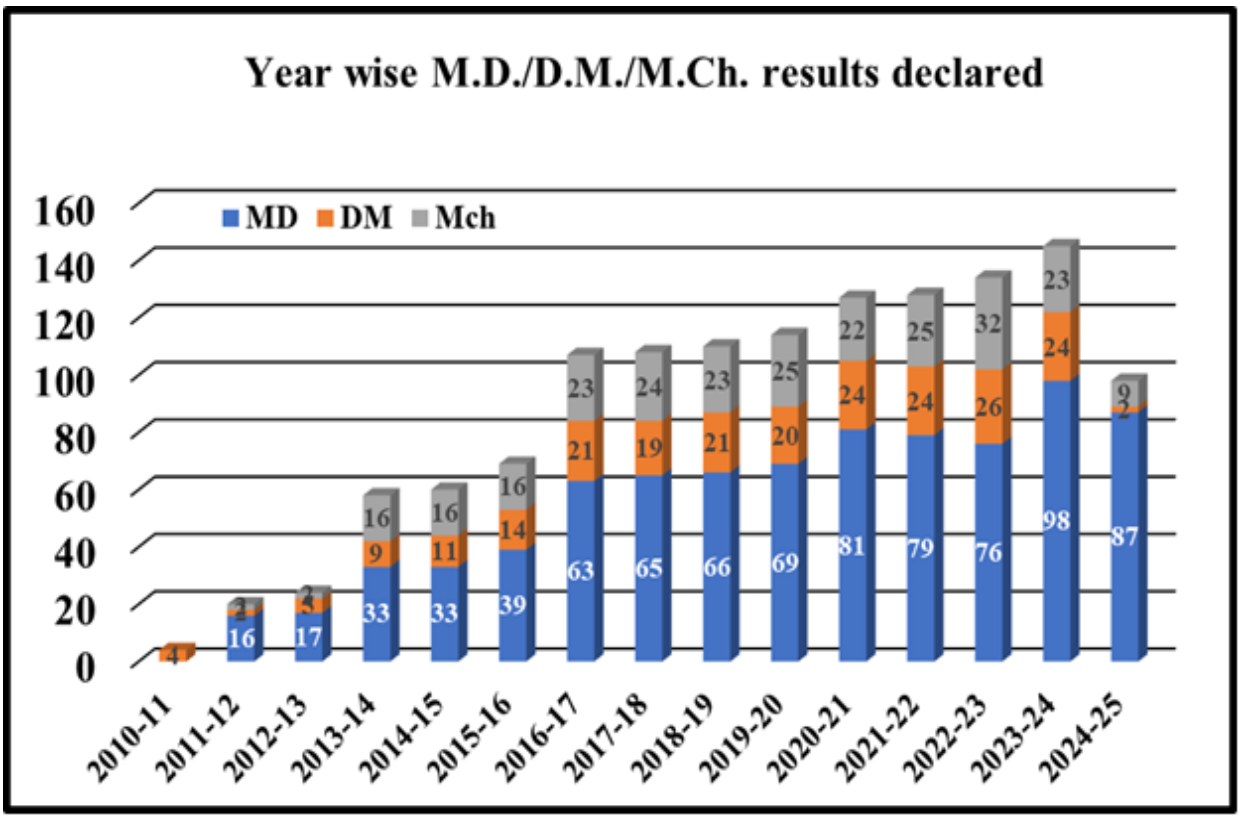
All the achievements happened in HBNI is due to team work. I must thank as well as congratulate all the Directors, Deans and supporting administrative authorities of all our CIs/OCC for smooth administration and excellent co-ordination with the HBNI Central office. This year also, we expanded our horizon to more students through our new degree programmes and courses towards holistic education as envisioned by NEP-2020. Currently there are 4134 students and 1260 faculties on the rolls in our 10 CIs and 3 OCCs. I believe that we are evolving into one of the best higher Educational Institutes internationally, and move towards the vision of becoming the leading knowledge centre in the arena of Nuclear Science & Technology and inter-disciplinary research for nurturing the sustainable development of our nation.

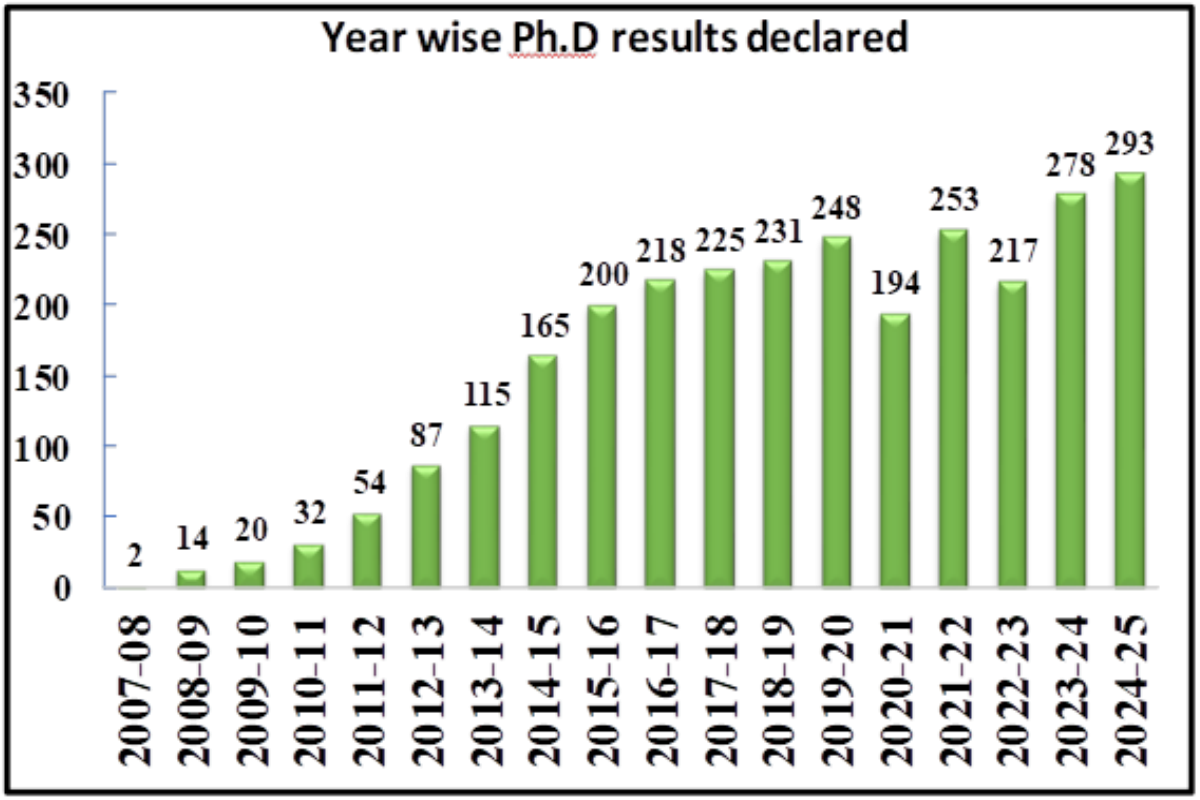
I congratulate all the HBNI faculty members and student awardees for bagging several coveted awards/recognitions. I am proud of all that you've accomplished this year and I sincerely wish all of you for continuing your effort towards sustainable eminence through HBNI. I am sure that with your commitment, support and contribution, the brand HBNI will scale new heights in the years to come.

(U. Kamachi Mudali)

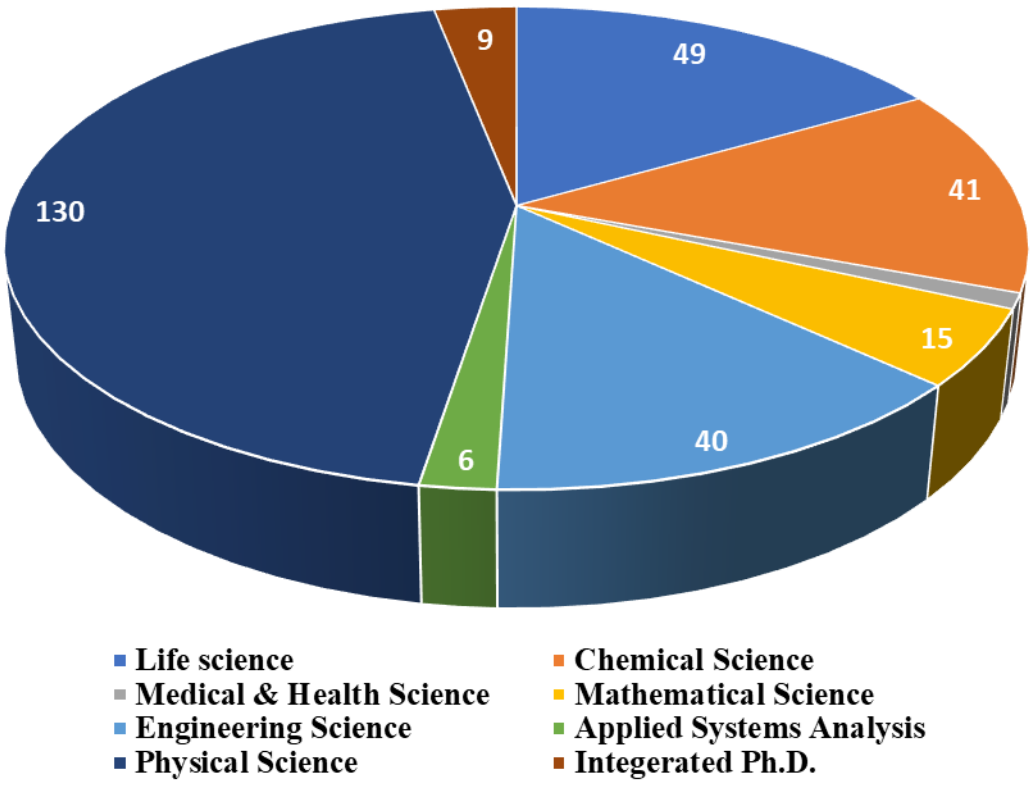
Academic Data of HBNI



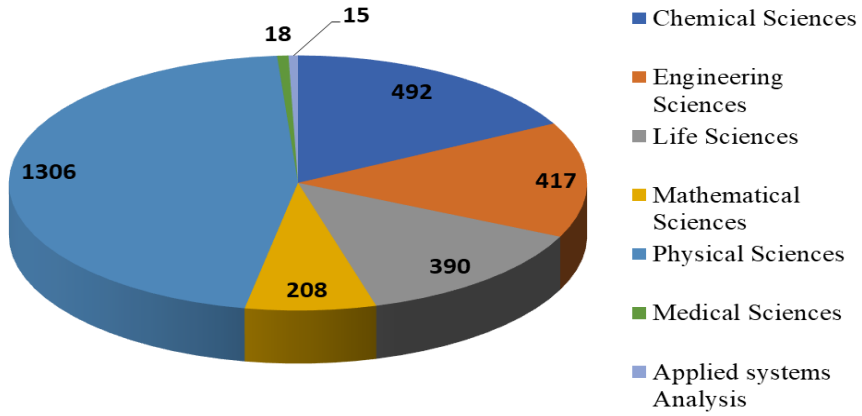




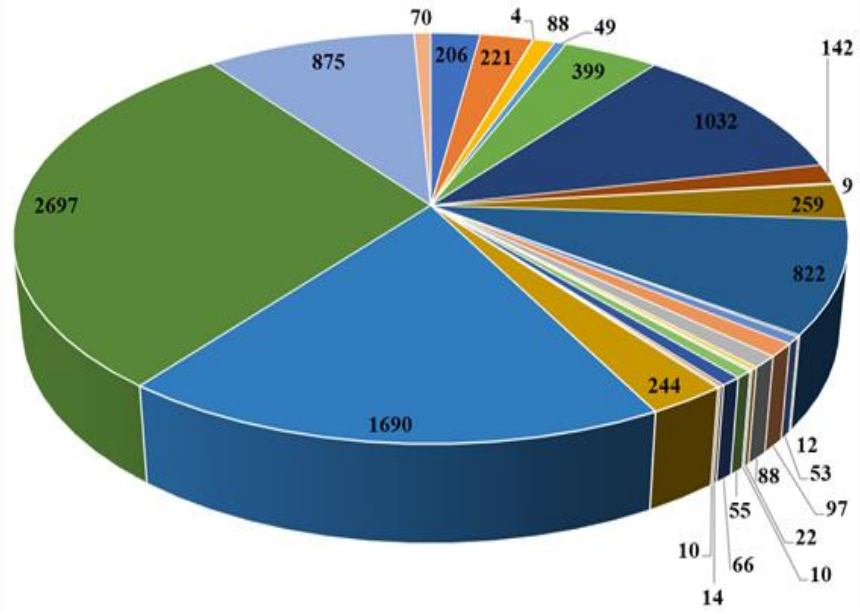
Discipline-wise Ph.D. Degrees Awarded by HBNI for the Period April 2024-March 2025



Discipline wise distribution of Total (2846) Ph.D results declared since inception



Total no. of results declared for various academic programs of HBNI till date



- Certified Fellowship
- D.M.
- DA-Dip. In Medicine(Anaesthesia)
- Diploma in Medical Radio-Isotope Tehniques (DMRIT)
- Diploma in Radiation Medicine (DRM)
- Diploma in Radiological Physics (Dip.RP)
- Integrated M.Sc. (Five Years)
- Integrated Ph.D. (Dual Degree)
- Integrated Ph.D. (Single Degree)
- M.Ch.
- M.D.
- M.Phil.
- M.Sc.
- M.Sc. (Clinical Research)
- M.Sc. (Engg)
- M.Sc. (Hospital Radiopharmacy)
- M.Sc. (Medical and Radiological Physics)
- M.Sc. (Nuclear Medicine and Molecular Imaging Technology)
- M.Sc. (Nursing)
- M.Sc. (Occupational Therapy in Oncology)
- M.Sc. (Public Health at Epidemiology)
- M.Sc. Degree of Int Ph.D. (Dual Degree)
- M.Tech.
- Ph.D.
- Post Graduate Diploma (PGD)
- Post Graduate Diploma in Fusion Imaging Technology

Academic Achievements of HBNI

National Institute Ranking Framework (NIRF) India, 2024

The National Institutional Ranking Framework (NIRF) outlines a methodology to rank institutions across the country by a set of parameters. The parameters broadly cover "Teaching, Learning and Resources," "Research and Professional Practices," "Graduation Outcomes," "Outreach and Inclusivity," and "Perception". NIRF was approved by the MHRD and launched by Honourable Minister of Human Resource Development on 29th September 2015.

HBNI obtained **6th rank** in the Research Institution Category, **16th rank** in the University and **27th rank** in overall category in the NIRF 2024 ranking. This is a significant improvement from 2023 performance wherein HBNI had obtained **15th rank** in the Research Institution Category, **17th rank** in the University and **39th rank** in overall category.

Nature Index Recognition

Based on the high-quality of publications in the Nature Group of Journals, the Nature Index 2024 has placed HBNI in the **second** position among all institutions in India, and in the **first** position with regard to the publications in Physical sciences.

Publications

The total number of journal publications with HBNI affiliation during the calendar year 2024, as indexed by Scopus, was 2711. Some of the publications have come in high impact journals such as Nature (IF 69.5), Nature Materials (IF 37.2), Nucleic Acid Research (IF 16.7), Nature Chemical Biology (IF 13) etc. HBNI faculty and/or students also published 6 books and 166 book chapters.

Awards and Honours

Many faculty members of HBNI across all its CIs and OCCs received prestigious awards and honours and became Fellows and Associates of Scientific Bodies. Some representative wards are listed in the table below:

Awards and recognitions received by HBNI faculty members during the year 2024-25			
S. No.	**Name CI/OCC**	**CI/OCC**	**Award/ recognition**
1	Prof. U. Kamachi Mudali	HBNI	Gold Medal of Chirantan Rasayan Sanstha & Lifetime Achievement Award of Rotary International District 3234, Chennai
2	Prof. A. K. Tyagi	HBNI	Vigyan Shri Puraskar, Govt. of India
3	Prof. S. M. Yusuf	BARC	Fellow of The World Academy of Sciences (TWAS)

4	Prof. Jyotirmayee Mohanty	BARC	DEVI AWARD-2024 in Science Category
5	Prof. Jyotirmayee Mohanty	BARC	SMC Distinguished Woman Scientist Award-2024
6	Prof. Sukhendu Nath	BARC	Fellow of the National Academy of Sciences, India (NASI)
7	Prof. Kathi Sudarshan	BARC	Fellow of Maharashtra Academy of Sciences
8	Prof. A. K. Ghosh	BARC	Fellow of Maharashtra Academy of Sciences
9	Prof. Musharaf Ali S. K.	BARC	Fellow of Maharashtra Academy of Sciences
10	Prof. Shilpa Sawant	BARC	Silver Medal of Society of Materials Chemistry
11	Prof. S. N. Achary	BARC	Silver Medal of Society of Materials Chemistry
12	Dr. Seemita Banerjee	BARC	Bronze Medal of Society of Materials Chemistry
13	Dr. Adish Tyagi	BARC	Bronze Medal of Society of Materials Chemistry
14	Dr. Adish Tyagi	BARC	Young Associate of Maharashtra Academy of Sciences
15	Dr Birija Sankar Patro	BARC	Associate Editor, Scientific Reports (Springer Nature) and Discover Oncology (Springer Nature) journals
16	Dr. Santosh K. Gupta	BARC	MRSI Medal for 2024
17	Dr. Santosh K. Gupta	BARC	Editorial board member of Scientific Report journal (Nature publishing) and Methods and Applications in Fluorescence (IOP publishing)
18	Dr. Soumyaditya Mula	BARC	Society for Materials Chemistry (SMC) Bronze Medal for 2024. Editorial board of Scientific Report journal (Nature publishing)
19	Dr. Amit Kunwar	BARC	Homi Bhabha Science and Technology Maanpatra 2024
20	Dr. Ashish Kumar Srivastava	BARC	Homi Bhabha Science and Technology Maanpatra 2024

21	Dr. Prabhat K. Singh	BARC	Chirantan Rasayan Sanstha (CRS) Silver Medal, 2024; Chemical Research Society of India (CRSI) Bronze Medal, 2025; Council Member, ORCID Research Advisory Council (ORAC) for the period 2025-2027
22	Dr. Mohit Tyagi	BARC	Homi Bhabha Science and Technology Maanpatra 2024
23	Dr. Rubel Chakravarty	BARC	Fellow of Maharashtra Academy of Sciences
24	Dr. Santosh Kumar	BARC	Fellow of Maharashtra Academy of Sciences
25	Dr. Celin Acharya	BARC	Fellow of NASI in the field of Biochemistry, Biophysics, Biotechnology category
26	Dr. Diptimayee Samantray	IGCAR	Homi Bhabha Science and Technology Maanpatra 2024
27	Dr. Deepak Kumar Gupta	IGCAR	Best Paper Award for his paper titled, “Aberration-free structured light in holographic optical tweezers”
28	Prof. S. Ningshen	IGCAR	Fellow of the Indian Institute of Metals
29	Dr. Ch. Jagadeeswara Rao,	IGCAR	Best Metallograph Award from The Indian Institute of Metals at IIM-ATM
30	Prof. Manoj Kumar Yadav	HRI	Fellow of the National Academy of Science, India
31	Dr. Tisita Das	HRI	SMC Emerging Scientist Award-2024
32	Dr. Amarendra Das	NISER	Recognized as the Times Icons of Odisha 2024
33	Dr. Manas Ranjan Sahoo	NISER	INSA Associate Fellows 2024
34	Dr. Bishnu P Biswal	NISER	Associate of the Indian Academy of Sciences 2024
35	Prof. Himansu S Biswal	NISER	Editorial Advisory Board Member of The Journal of Physical Chemistry Letters
36	Dr. Priyadarshi Chowdhury	NISER	Mineralogical Society of America Young Scientist Award for 2025; Associate of the Indian Academy of Sciences.

37	Prof. Bedangadas Mohanty	NISER	OTV's Odisha Citizens Award 2024
38	Dr. Aritra Banik	NISER	Nominated member of the ACM India Council
39	Dr. Manjusha Dixit	NISER	Editorial Board Member of the journal BMC-Biology
40	Prof. Shripad Dinanath Banavali	TMC	QIMPRO Gold Standard Award 2024 in Health care
41	Dr. Aseem Mishra	HBCH & MPMMCC	Awarded by the Indian Society of Thyroid Surgeons
42	Prof. Nayana Majumdar	SINP	Featured as one of the 27 Indian women scientists in a book titled Women Shaping Scientific Frontiers: From Lab Coats to Leadership
43	Dr. Debasish Mondal	VECC	Aswini Kumar Rath Memorial Award in Nuclear Physics by Indian Physics Association.
44	Dr. Tapan Kumar Rana	VECC	Homi Bhabha Science and Technology Maanpatra 2024
45	Dr. Arindam Kumar Sikdar	VECC	Young Achiever Award, 2024 (YAA-2024)" by Indian Physics Association
46	Dr. Jyoti Shankar Mishra	IPR	Best Paper Presentation Award for his talk titled, "Application of cryogenics in developing pellet injectors for fueling and plasma control in magnetically confined fusion devices"

Events conducted at the HBNI Central Office, Mumbai during 2024-25

- **Workshop on "Career on Opportunities in Industry for Chemistry & Chemical Engineering Doctoral Students"**

A one-day Workshop on "Career Opportunities in Industry" was organized by HBNI Industry Linkage Centre on April 5, 2024 in hybrid mode for the benefit of doctoral students of Chemistry and Engineering Sciences. The workshop was organized as a part of brainstorming session towards Viksit Bhartat@2047 campaign of Govt of lndia. Prof B. M. Bhanage, Head, Department of Chemistry, ICT, Mumbai and Prof B. Joshi, Distinguished Professor Emeritus, HBNI gave informative and insightful talks on the topics "**Careers in Chemistry**" and "**Careers in Industry**" respectively.

- **National Technology Day**

HBNI celebrated National Technology Day on May 13, 2024 in hybrid mode. Dr. Sudeep Gupta, Director, Tata Memorial Centre graced the occasion as the Chief Guest. Dr. R. Chidambaram, Former Secretary, DAE & Chairman, AEC and Former PSA to Govt of India participated in the event. Dr. Sudeep Gupta delivered an informative talk on the topic "**Innovation and Research at TMC: Practical Solutions for Affordable Cancer Care in India**."

- **Prof. Srikumar Banerjee Memorial Programme**

HBNI organized a memorial programme in honour and remembrance of Prof. Srikumar Banerjee Former Chancellor, HBNI on his third death anniversary on May 29, 2024 in hybrid mode. Dr. Deependra Singh, Chairman & Managing Directed, IREL (India) Ltd. was the chief guest on the occasion. He gave an informative talk on the topic "**Rare Earths-Discovery, Development and Deliverables**" wherein he elaborated on the applications and widespread uses of the rare earth metals and alloys in the field of material science, medicine, aerospace, national defence, etc., based on their unique properties such as luminescence, hydrogen storage, high thermal stability, electric conductivity, magnetic, and optical properties.

- **Nineteenth Foundation Day Celebration of HBNI**

The 19th Foundation Day of the Homi Bhabha National Institute (HBNI) was celebrated in hybrid mode at the DAE Convention Centre, Anushaktinagar, Mumbai on June 03, 2024. Prof. T. G. Sitharam, Chairman, All India Council for Technical Education (AICTE), New Delhi was the Chief Guest on the occasion. Prof. A. K. Mohanty, Secretary DAE and Chairman, Council of Management, HBNI presided over the function. Prof. Anil Kakodkar, Chancellor, HBNI, gave special address on this occasion. Ms. Seema Jain, Member Finance (AEC, Space & Earth Commission) was the Guest of Honour. Directors/Heads of CIs/OCC and Functionaries of HBNI at various CIs/OCC and Central Office, and many faculty members, alumni, and students of HBNI participated in the function, in both online and offline mode. An Innovation Showcase consisting of 19 stalls displaying the contributions of HBNI Students and Faculty was inaugurated on this occasion by Ms. Seema Jain, Member Finance. Outstanding students of HBNI in various academic programmes and students selected for JB Joshi Research Foundation Innovation awards for the year 2023 were also honoured during the function. Prof T. G. Sitharam delivered an informative and exciting talk on "**Building a Future Ready India-Vision, Plan & Strategy for Technical Education in India during Amrit Kaal**." He presented a detailed road map for transforming India's technical education landscape over the next 25 years, termed "Amrit Kaal".

- **Independence Day Celebration**

The 78th Independence Day was celebrated with enthusiasm and patriotic fervour at HBNI on August 15, 2024 by hoisting of the National Flag by Prof. U. Kamachi Mudali, VC, HBNI in the presence of HBNI functionaries and staff. In his address to the gathering, Prof. Mudali highlighted the achievements and initiatives taken by HBNI during the past year. He also talked about the progress of education in India since independence. Prof. A. K. Tyagi, Dean, HBNI and Prof. R. B. Grover, Former Professor Emeritus of HBNI also addressed the gathering. The program ended with the recitation of National Anthem.

- **Anti-Ragging Week Celebration**

As part of the anti-ragging week (12th-18th August 2024) celebration, HBNI Central Office, Mumbai, organised a slogan and poster competition with the theme "United Against Ragging". Students from across CIs and OCCs sent their entries for the competition. The entries received were judged by a three membered committee. The best entries for both the competition were awarded prizes.

- **Teachers' Day Celebration**

Teachers' Day was celebrated at the Central Office on September 5, 2024 in hybrid mode. Dr. S. Kailas, Former Director, Physics Group, BARC, Mumbai graced the occasion as Chief Guest. In his address to the gathering, Dr. Kailas talked about the life and works of Dr. S. Radhakrishnan paying tribute to his contributions to education and philosophy.

- **Dr. Sekhar Basu Memorial Program**

HBNI organized a memorial program in honour and remembrance of late Dr. Sekhar Basu, Former Secretary, Department of Atomic Energy and Former Chairman, Council of Management, HBNI on September 24, 2024 in hybrid mode. Shri S. A. Bhardwaj, Former Chairman, Atomic Energy Regulatory Board (AERB) was the Chief Guest on the occasion who delivered Dr. Sekhar Basu Memorial lecture titled "**Indian Nuclear Power Program - A Journey from Past to Future**." In his talk, he gave a brief account of the developments in Indian nuclear power program over the years since its inception immediately after independence and future challenges to increase the installed nuclear power capacity in the country.

- **Observance of "Swachhata Hi Seva 4.0 Campaign**

HBNI organized various activities during the period from September 17 to October 2, 2024 under the "Swachhata Hi Seva" campaign on the theme "Swabhav Swachhata - Sanskar Swachhata." As a part of the campaign, Swachhata Pledge was taken by all the staff and officials of HBNI on September 26, 2024 making a commitment to uphold cleanliness and environmental integrity. The institute also led a profound cleanliness drive during the period wherein HBNI officials and staff came together to clean the areas in and around HBNI office premises.

- **Workshop on "IPR and Industry – Academia Linkages"**

A half-day workshop on "IPR and Industry – Academia Linkages" was organized by HBNI on October 9, 2024 in hybrid mode for the benefit of HBNI students and faculty members. The workshop featured three talks by experts in "Intellectual Property Rights." Prof. Prabuddha Ganguli, Honorary Professor, HBNI gave an enlightening talk on the topic **"Overview of HBNI IPR Policy"**. Shri Dani Rajiah, Ex-member Secretary, IPR Cell, DAE gave a talk on the topic, **"Protecting Innovations".** Shri Daniel Babu, Head, Technology Transfer and Collaboration Division delivered a talk on **"Technology and Innovation at BARC".**

- **Observance of Vigilance Awareness Week - 2024 (VAW-2024)**

As per the directives of the DAE, HBNI observed Vigilance Awareness Week from October 28, 2024 to November 3, 2024, on the theme of "Culture of Integrity for Nation's Prosperity." The observance of Vigilance Awareness Week 2024 commenced with the integrity pledge being taken by HBNI officials and staff on October 28, 2024. HBNI organized a talk by Shri Gigi Joseph, Head, Security Electronic and Cyber Technology Division, BARC on the topic "**Cyber Hygiene and IT Security**" on 18.10.2024, detailing various aspects of cyber security, common cyber threats and how to tackle them.

- **Theme Meeting titled "HBNI: An Enabler to DAE's Academic Programmes"**

HBNI organized a half-day theme meeting titled "HBNI: an Enabler to DAE's Academic Programmes" on November 9, 2024 at Multi-Purpose Hall, Training School Hostel, Anushaktinagar, as a part of the Platinum Jubilee Celebrations of the Department of Atomic Energy (DAE). During the two technical sessions, four talks were delivered by eminent scientists and engineers from DAE. Prof. A.K. Tyagi, Dean HBNI delivered a talk titled "**Interdisciplinary Science and Engineering: Hallmark of DAE**." Prof. S. M. Yusuf, Director Physics Group, BARC gave a talk on the topic, "**Mega Science Programs in BARC**". Prof. S. Banavali, Department of Medical and Pediatric Oncology, Tata Memorial Centre spoke on "**Role of TMC in Cancer Care in India**". Shri B. K. Chakraborty, Sr. Executive Engineer, Nuclear Power Corporation of India Limited, gave an informative talk on the topic "**India's Nuclear Power Programme: Evolution and Road Ahead**" giving an overview of the developments in Indian nuclear power program over the years and roadmap to provide about 100 GW nuclear power capacity by 2047.

- **Workshop on Publishing Books and Research Papers, jointly with BARC**

HBNI conducted a workshop on the topic "Scientific Publication" in collaboration with Materials Group, BARC for the benefit of its students and faculty across all CIs/OCC in hybrid mode on November 13, 2024. The workshop was conducted by Ms. Swati Meherishi, Editorial Director at Springer Nature and included talks by her on the topics "**Scientific Publication**" and "**AI in Publication**." Through her talk on Scientific Publication, Ms. Meherishi enlightened the participants about skills of writing papers for international publications. Her presentation included how to structure a research paper, what would be the relevant sections and their constitutions, language tips in writing journal articles, etc.

- **Start-up pre-incubation program jointly organized by HBNI and AIC-BARC**

HBNI, Mumbai and the Atal Incubation Center, Bhabha Atomic Research Centre (AIC-BARC) organized a six-week "Cohort Pre-incubation program" starting 28 Oct 2024. A productive co-founder pairing session for the second cohort was organized on 10th November 2024 at HBNI Council Hall, Anushaktinagar. The CEO of AIC-BARC shared key tips with applicants on approaching BARC and DAE research challenges, emphasizing breaking down these complex problems into manageable components aligned with the start-up team's skill sets, thereby increasing the feasibility of tackling them within a start-up framework. This approach is essential for creating practical commercialization opportunities and developing solutions that can effectively bridge advanced research with market needs.

- **Bharatiya Bhasha Utsav at HBNI**

As per UGC advisory, HBNI celebrated Bharatiya Bhasha Utsav on December 11, 2024, commemorating the birth anniversary of the esteemed Tamil poet, writer, journalist, and freedom fighter, Mahakavi Subramania Bharati by organizing a multilingual webinar session on the theme "**The role of linguistic development in the promotion of science**."

In the webinar session, Dr. N. Ramanathan, IGCAR, Ms. Sanchita Ghosh, BARC, Dr. (Ms.) Neena Shetake, BARC, and Dr. (Ms.) Rachna Agarwal, HBNI delivered their talks in Tamil, Bengali, Marathi, and Hindi respectively. Each talk was followed by a panel discussion wherein panellists who were experts in their respective languages put forth their viewpoints.

- **Fit India Week Celebration at HBNI**

UGC urges all HEIs to actively participate in the Fit India Movement of Government of India for promotion of awareness of fitness among its various stakeholders. In this regard, to celebrate the 6th edition of "Fit India Week", which was scheduled to be celebrated between 15th Nov 2024 to 31st Dec 2024, a webinar was conducted by HBNI on 16th Dec 2024. Prof. B. K. Sapra, Outstanding Scientist and Head, Radiological Physics and Advisory Division, BARC was the speaker of the webinar titled "**Fit Hai Toh Hit Hai**". Prof. Sapra, through her talk, shared practical tips on maintaining fitness both physically and mentally, emphasizing the importance of consistency and simple daily habits. She also mentioned the importance of balanced diet.

- **Innovations and Entrepreneurship Conclave for Young India**

The "**Innovations and Entrepreneurship Conclave for Young India"** a one-day workshop, was jointly organised by TMC, DAE and HBNI on March 22, 2025 at Khanolkar Shodhika Auditorium, ACTREC-TMC, Navi Mumbai. The aim of the workshop was to encourage HBNI, ACTREC, TMC, BARC, NISER, RRCAT, SINP students, post-doc fellows, alumni, scientists and faculties, to explore the opportunities of entrepreneurship in the rapidly evolving world of biotechnology, healthcare, and allied life sciences. Twelve eminent experts and entrepreneurs from Mumbai, Pune, Bangalore and St.Louis, USA were the invited speakers of the event. They shared their success stories, challenges faced and tactics to overcome inner fears with courage and perseverance, invaluable experiences, insights, and strategies on how to navigate the entrepreneurial landscape. Following the talks, an enlightening panel discussion was conducted where Dr. Vikram Gota, ACTREC and Dr. Saumil Sanghavi, Alumni of ACTREC, were the moderator and all invited speakers were the panellists. There was stimulating and exciting discussion amongst speakers and students and faculties.

- **International Women's Day Celebration at HBNI**

The Women's Cell of HBNI celebrated International Women's Day on March 11, 2025 at Multipurpose Hall, TSH, Anushaktinagar, Mumbai by organizing special talks and panel discussion, keeping in mind the UN theme for the year, "Accelerate Action". Guest Speaker, advocate Ms. Sandhya Vasudevan Sondhi, delivered an inspiring talk on the topic, "**POSH policy**" wherein she highlighted the significance of the Prevention of Sexual Harassment (POSH) Act, the definition of the workplace, and the constitution and role of the Internal Complaints Committee (ICC) within organizations. Dr. (Mrs.) Aparajita Chattopadhyay, Professor, International Institute of Population Science (IIPS), Mumbai gave an insightful talk titled, "**Linking pertinent gender issues in India: Pessimism and Optimism**". Following the talks, an enlightening panel discussion was conducted on the topic, "**Overcoming the Barriers to Advancing Careers**." The key panellists were, guest speakers, Dr. (Smt.) Shobha Nair, Head of the Psychiatric Unit at BARC Hospital, and Prof. Umasankari, former Head of RPDD, BARC, who shared their valuable insights. The discussion also included the participation of HBNI Women's Cell members Smt. Swati Ingole, Prof. Naveen Kumar, and Prof. Aradhana Srivastava. The event also included a colourful poster competition, with participants from all CIs/OCCs submitting their entries via email. The winners of the competition were announced,

and prizes were awarded. There was a vibrant cultural performance, showcasing the talents of HBNI students, faculty, and staff members, making it a truly memorable and celebratory occasion.

Important Milestones

- HBNI signed MoUs with Indian Institute of Technology (IIT), Jammu, Indian Institute of Technology (IIT), Guwahati and JNCASR, Bengaluru.
- HBNI conducted faculty induction programs in hybrid mode on September 30, 2024 and December 9, 2024 for the benefit of newly inducted faculty members to brief them about the structure of academic processes and ordinances of HBNI. Fifteen new faculty members and six teaching staff from different CIs/OCCs of HBNI attended the program on September 30, 2024. Twenty-five new faculty members and six teaching staff from different CIs/OCC of HBNI attended the program on December 9, 2024.

Online Courses Conducted by HBNI

An online course on "Advanced Materials Chemistry" was conducted by HBNI from October 14-December 23, 2024. Prof. A. K. Tyagi, Dean, HBNI was the Course Director. The broad topics covered under the course included general materials chemistry, characterization techniques, major trace and ultra-trace chemical analysis techniques, and functional materials.

An online course titled "Research Methodology, Research and Publication Ethics" is being conducted by HBNI from March 10, 2025-June 30, 2025. Prof. Dipanwita Dutta, Associate Dean, HBNI is the course co-ordinator.

Webinars Conducted by HBNI

1. From PhD to Independent Faculty - Dr. Lalit Sehgal, Ohio State University of Hematology, USA (04.04.2024)
2. Oncology Practice in Tier 3 City - Dr. Amit Kumar Bagdia, Bagdia Cancer Hospital, Akola (24.05.2024)
3. Bridging the Gap: Navigating the Transition from Academia to Industry – Dr. Arnab Deka, Capegemini Engineering, Noida (28.06.2024)
4. Career Prospects in Quantum Computing - Dr. Sandeep Joshi, BARC (30.08.2024)
5. My Journey as a Physics Scholar of HBNI to the Scientist at University of Wisconsin - Overview on Post Ph.D. Opportunities for Early Career Researchers - Dr. Jagadeesh Sure, Dept. of Nuclear Engineering & Engineering Physics, Univ. of Wisconsin-Madison, US (04.10.2024)
6. Quantum Computing - An Ongoing Technology Revolution - Prof. Rajeev Singh, IIT (BHU), Varanasi (25.10.2024)
7. Understanding lncRNA Functions in Plasticity and Neurodegeneration - Dr. Kaushik Chanda, Scripps Research Institute, Florida, USA (22.11.2024)
8. My Professional Journey from a Research Lab to the Global Industry - Dr. Kruti Halankar, Mercedes Benz & Automotive Cell Company, Germany (20.12.2024)
9. Success factors in selection interview at core scientific technical institutions or companies, Shri M. G. Kelkar, Formerly NPCIL, Mumbai, (24.01.2025)
10. Career Opportunities in Entrepreneurship, Shri Shashikant Nayak, Founder & Director, Vensol Ventures Pvt., Mumbai (28.03.2025)

Outstanding Student Awards for the Year 2024

M.Tech.

Sandeep Singh Tomar

ENGG01202201056

Thesis Title:

Dissolution of washed and dried frit powder in nitric acid to produce clear zirconium nitrate solution.

A novel process is developed to address the critical challenge of suppressing the co-leaching of silica with zirconium. This is achieved by using Red Fuming Nitric Acid (RFNA), a novel leaching agent composed of approximately 84% nitric acid, 13% dinitrogen tetroxide, and 1–2% water at low temperatures. Investigations revealed that the water content in the reaction system has a significant influence on the leaching of silica. To effectively suppress the co-leaching of silica, it is essential to minimize the water content. Thus, the inherently low water content in RFNA provides a viable solution to this issue. This not only enhances the acid strength but also suppresses the co-leaching of silica and consequently crud/third phase formation in solvent extraction is avoided.

B. Vinith

ENGG01202201062

Thesis Title:

Studies on a novel process for recovery of uranium from Tummalapalle leach liquor

Tummalapalle holds nation's highest uranium reserves; yet the yellow cake from this ore has issues in efficiently producing uranium. A novel process was developed to tackle the issue of muck formation and make Tummalapalle mine sodium diuranate SDU comparable to the yellow cakes from other Indian mines. Also, this process regenerates the liquid effluents at every stage thereby following a closed loop minimizing the waste and leading the way for streamlined yellow cake production.

Outstanding Student Awards for the Year 2024

Doctor of Medicine (M.D.)

Dr. (Ms.) Shreya Dhingra

HLTH09202109002

M.D. in Radiation Oncology

Dr. Shreya Dhingra, TMC is conferred with HBNI Outstanding Award 2024 in the category of MD in Health and Medical Science. Dr Shreya worked on a project title "Memantine to preserve memory and neurocognition following craniospinal irradiation -A phase III randomised controlled trial (MEMENTO)." Her study was aimed to evaluate memantine in the context of Cranispinal irradiation (CSI) as opposed to Whole Brain Radiotherapy (WBRT) or partial brain irradiation.

Dr. (Ms.) Sumona Kundu

HLTH09202109051

M.D. in Anesthesiology

Dr. Sumona Kundu, TMC, is conferred with HBNI Outstanding Award 2024 in the category of MD in Health and Medical Science. Dr. Kundu worked on a project titled "A randomised controlled double blinded study to test the efficacy of protective one lung ventilation bundle in prevention of post-operative pulmonary complications following elective major lung resection surgeries in a tertiary care cancer institutes." This study contributes to evidence-based optimization of intraoperative ventilation strategies during thoracic surgery

Outstanding Student Awards for the Year 2024

Doctorate of Medicine (M.D.)

Dr. Aditya Dhanawat

HLTH09202110007

DM Medical Oncology

Dr. Aditya Dhanawat, TMC is conferred with HBNI Outstanding Award 2024 in the category of DM, in Health and Medical Science. Dr. Aditya worked on a project title "Impact of HER2 low on demographic profile and survival outcomes of Hormone Positive Breast Cancer (HER-IMPACT)." The study investigates the clinical significance of HER2-low expression in hormone receptor-positive (HR+) breast cancer patients. This study underscores the necessity to reconsider existing classification systems for HER2 expression (positive or negative), advocating for a more refined stratification to guide therapy selection

Master of Chirurgiae (M.Ch.)

Dr. Anup Srinivas

HLTH09202110059

M.Ch. Head & Neck Surgery

Dr. Anup Srinivas, TMC is conferred with HBNI Outstanding Award 2024 in the category of M. Ch. Health and Medical Science. Dr. Srinivas is specialised in Head and Neck Oncology. He has shown extraordinary surgical precision during this period with dedicated service for cancer patients in TMC

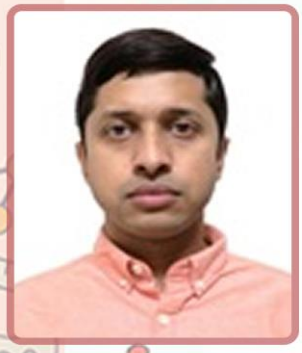
J B Joshi Foundation Innovation Awards for the year 2024

Dr. Soumen Das

CHEM01201704005

Thesis Title:

Clinical Scale Formulation and Evaluation of Novel Diagnostic Agaents based on ^{99m}Tc and ^{68}Ga



Cardiovascular diseases and cancer remain the leading causes of death worldwide, necessitating early and accurate detection for improved survival rates. In this connection, the research carried by Dr. Soumen Das focuses on the development of novel radiopharmaceuticals based on technetium- 99m (99mTc) and gallium-68 (68Ga) which were strategically designed to act as highly specific molecular probes for single-photon emission computed tomography (SPECT) and positron emission tomography (PET) imaging of these abnormalities. One of the key innovation part of this research is the pioneering application of 'click chemistry' towards the development of a myocardial metabolism marker.

Dr. Saurabh Srivastava

ENGG01201804011

Thesis Title:

Study and Optimization of Silicon Photomultiplier-Scintillator Detector based Instrumentation for Radiation Monitoring Applications

Environmental gamma monitoring with a network of miniaturised open-field systems having online data communication is important for real-time identification of atmospheric radiation levels and possibleradionuclides in case of a radiological/nuclear emergency. Dr. Saurabh has carried out extensive simulation and experimental studies on siliconphotomultipliers (SiPM) optically coupled with indigenously developed GGAG:Ce,B scintillator crystals for its potential utilization in the development of environmental gamma radiationmonitors. The investigation encompasses Monte Carlo simulation studies of various inorganic scintillators (NaI:Tl, CsI:Tl, and GGAG:Ce,B) as well as SPICE simulationstudies of SiPM to design the signal processing electronics. Two systems were subsequently developed based on the simulation and experimental studies conducted in this work, namely: (i) a SiPM-GGAG:Ce,B based gamma dose rate monitorand (ii) a SiPM-GGAG:Ce,B based gamma spectrometer.

Dr. Milaan Vijaybhai Patel

ENGG06201804009

Thesis Title:

Development of Pulsed Supersonic Beam System for Tokamak Edge Diagnostics and Other Applications

Dr. Milaan's work presents the development of a pulsed Supersonic Molecular Beam Injection (SMBI) system designed for edge plasma diagnostics in tokamaks. This SMBI system generatesa beam of neutralhelium atoms, which is injected into a localized region at the edge of the tokamak plasma. When these atoms interact with the plasma, they emit light at characteristic wavelengths, which can then be used to estimate plasma temperature and density.

The supersonic molecular beam is created by extracting the core of a supersonic jet within a vacuum chamber. To maintain a high particle flux and low divergence, crucial for avoiding plasma contamination and preserving integrity of the tokamak vacuum, the system must operate in a pulsed mode. This introduces additional challenges due to the transient nature of the pulsed SMBI. While the generationof molecular beams has been demonstrated previously, the detailed physical processes of beam extraction under realistic conditions were not understood due to non-existing measurement techniques.

Dr. Koustav Pal

PHYS05201904011

Thesis Title:

Investigation of Exchange Bias and Magnetotransport in Bulk and Thin Film Materials

Dr. Koustav's research has led to significant advancementsin magnetoresistive and exchange bias (EB) materials, crucial for next-generation spintronic devices, high-density magnetic storage, and sensor applications. By strategically engineering defects, disorder, and interfacial interactions, the nominee has pioneered novel methods to enhance EB and magnetotransport properties in various material systems, including perovskites, intermetallics, and thin films. One of the key innovations involves oxygen-deficient perovskites, where the nominee demonstrated that controlled oxygen vacancies in $SrFe_{0.5}Co_{0.5}O_{3-\delta}$ could inducecharge redistribution and enhance EB without conventional ionic doping. Furthermore, by introducing non-magnetic Ir doping, the nominee achieved an unprecedented EB value of 1.86 T, optimizing magnetic cluster interactions. In addition, he also discovered a giant EB of 2.36 T in Sr_2CoRuO_6, a material with pinned ferromagnetic clusters withinan antiferromagnetic matrix, driven by strong Co-Ru exchange coupling. These findings redefine the design principles for EB materials and provide new pathways for tuning magnetic interactions through controlled structural modifications.

CI/ OCC wise details of the students who have been awarded M.Tech. degree during the year 2024-25

Engineering Sciences			
S. No.	**Student Name**	**Enrollment No.**	**Title of the thesis**
BARC, Mumbai			
1	Dipesh Kumar Gupta	ENGG01201801022	Design Implementation of Innovative Speed Controller for Induction Motor Simulating Coast-Down Characteristics of PHT Pump for Thermal Hydraulic Studies
2	Gaurav Vashishtha	ENGG01201801023	Design, Simulation and Hardware Implementation of Cascaded H-Bridge Multilevel Inverter with Reduced Number of Switches for Power Quality Improvement
3	Moncy P.	ENGG01201801027	Design and Optimization Methodologies of High Uniformity Solenoid Magnets for Magnetic Resonance Imaging (MRI) Application
4	Varun Kumar Pandey	ENGG01201801032	Modeling and Simulation of Two-Phase Induction Motor for Optimal Operation with Two-Phase Inverter Drive
5	Deep Gupta	ENGG01201801041	Study of Evolution and Distribution of Defects and Change in Mechanical Properties of Alloy 690 in Molten Corrosive Glass Environment
6	Ankan Basak	ENGG01201901006	Development of 200 KV, 4 KA, 5 NS Tesla Transformer with Open Magnetic Core
7	Uppara Pradeep Kumar	ENGG01201901014	Design and Development of Instrumentation and Technique for In-Situ Response Time Estimation for Thermocouples
8	Rohit Tyagi	ENGG01201901015	Simulation of Induction Heating System and Implementation of Control Algorithms for Induction Furnace Temperature Control
9	Abhishek Lanje	ENGG01201901020	Design, Parametric Analysis, Modeling and Performance Demonstration of Transients in 11 KV High Tension Sub-Station for Typical Nuclear Facility
10	Abhishek Deep	ENGG01201901035	The Role of Strength Mismatch in Ductile Fracture of Dissimilar Metal Welds
11	Sreeju H	ENGG01201901037	Thermal Hydraulic Analysis of Vitrified Waste Product Storage Vault
12	Govind Sharma	ENGG01201901041	Development of Resistance Welding of non-Conventional Shaped Thin Tubes with End Plugs and its Validation: Numerical Simulation and Experiments

13	Lukka Veera Venkata Naga Satish	ENGG01201901044	Modeling and Performance Evaluation of Control Systems for High Precision Temperature Controlled Cooling Water System
14	Bollapragada Seshasaikumar	ENGG01201901069	Development of an Empirical Relation to Estimate the Natural Frequency of Interacting Pipe Assembly
15	Sonu Singh	ENGG01201901070	Development of Modified Bree Diagram for Intersecting Cylinder Type Geometries to Predict the Thermal Ratchet Condition
16	Mohanish Goel	ENGG02201901002	Study of Performance Characteristics of Hydrodynamic Bearing
17	Aiswarya K V	ENGG02201901005	Design of Passive Decay Heat Removal System for HLW Tank for FRP
18	Mohan Chandra Tiwari	ENGG01202101007	Study, Development and Performance Analysis of Isolated Two Winding Bouncer Scheme for Droop Correction in Hard Switched Modulator
19	Janagam Naveen	ENGG01202101008	Development of Phase Angle Controller for Six Pulse High Current Thyristor Rectifier with IPT for Thermal-Hydraulic Transient Simulation
20	Kuldeep	ENGG01202101010	Design, Simulation and Hardware Implementation of Compact IGBT Based Active Rectifier Replacing Conventional Multiphase Thyristor Rectifier Powering Plasma Incinerator at RSMS, BARC
21	Arunabha Chatterjee	ENGG01202101012	Optimal Design and Simulation of Large Format Outrunner Motor for Light Traction Applications
22	Achal Kumar	ENGG01202101019	Development of Clock Synchronization Framework for VME Controller Card
23	Ayush Gupta	ENGG01202101021	Study, Design, and Development of Machine Learning Based Technique for Spam Detection and Analyze its Capability, Limitations, and Suitability in RRCAT Environment
24	Nitin Kumar Radke	ENGG01202101027	To Study and Build an Intrusion Detection System for Identification of Infected Malicious Connections using Machine Learning
25	Mayank Gaur	ENGG01202101044	Development of Forming Limit Diagram for Anisotropic Zr_1Nb Thin-Walled Tubes and its Use in Improvement of End-Forming Process
26	Pranav S	ENGG01202101046	A Simplified Methodology to Generate Floor Response Spectra Using Complex Frequency Transfer Functions for a Structure with Variation in Base Input Motion

27	Tarkesh Singh	ENGG02202101008	Effect of Directional Loading (Unequal) in Estimating Low Cycle Fatigue Life as per RCC-MRx
28	Bechra Jeet Pravinbhai	ENGG02202101010	Process Development for the Treatment of Ring Material ($MgCl_2$ + Mg + Zr) Generated in Zirconium Sponge Plant
29	Srishti Priya	ENGG02202101015	Hydrodynamics of a Rotating Solid-Liquid Feed Clarification System
30	Amit Prajapati	ENGG02202101019	Computational Model Development for Molten Corium Concrete Interaction
31	Avantika Gautam	ENGG03202101001	Studies on Co Oxidation Catalyst and Theoretical Understanding of Gas Discharge Towards Development of Sealed-Off CO_2 Laser
32	Gaurav Yadav	ENGG03202101002	Experiments and Analysis on the Enhancement of Strain Sensitivity of Fiber Bragg Grating Sensor
33	Sachin Raturi	ENGG03202101003	Numercal studies on Tuning of a 325 MHz Drift Tube LINAC in Simlulation Environment
34	Krishnapada Maity	ENGG03202101004	Impact of Defects and Dislocations in GaN Epitaxial Layers on the Performance of Visible-Blind Ultraviolet Photodetectors
35	Ashwin Chalisgaonkar	ENGG03202101007	Development of Digital Control and Data Acquisition System for Pulsed Hydrogen Ion Source
36	Pokharkar Rahul Rohidas	ENGG03202101008	Studies on Modular Fast-Ramped, Switch-Mode Power Converters Energizing Series String of Electromagnets
37	Saurabh	ENGG03202101009	Development of FPGA Based VME bus-Compatible Location Monitor Module
38	Deeksha Vyas	ENGG03202101011	Design Studies and Development of RF Components for Solid State Amplifier
39	Sumit Lalan Kushwaha	ENGG03202101013	Study and Performance Analysis of OCR Technology on Metallic Objects
40	Nandan Boral	ENGG1G202101001	Study on Petro-Mineralogical Characteristics and Depositional Environment of Dharamshala Group of Rocks W.R.T. Uranium Mineralisation in Tileli – Chah ka Dora Area, Mandi District, Himachal Pradesh
41	Ashish Kumar Rai	ENGG1G202101003	Petromineralogical and geochemical characterisation of granitoids and pegmatites for assessing their rare metal and rare earth (RM & RE) potential in and around Kanahalli, Mangalur and Hal Ammapur, Shorapur taluk, Yadgir dist, Karnataka.
42	Devireddy Naveen Kumar	ENGG01202201004	Design Optimization of Radiation Source Localization (RSL) System Through Radiation Interaction Simulations using Geant4

	Reddy		
43	Syed Nabeeluddin	ENGG01202201006	Development of Visual-Inertial State Estimation System for Mobile Robot Navigation
44	Ganshyam	ENGG01202201012	Study and Design of Control Scheme for Addition and Control of Moisture Content in Dry Gas Stream for AmO_2 - UO_2 Pellet Stabilization.
45	Rahul Raj	ENGG01202201017	Development of AI Model for Reactivity Estimation Under Stochastic Noise
46	Bharat Jeswani	ENGG01202201019	Reliability Analysis of Network Topologies in Hierarchal Network Architectures
47	Prateek Kamal Gyanchandani	ENGG01202201020	Development of Localization Algorithm and its Software Implementation for Compton Camera based Gamma Imaging for Hot Cell Application
48	Divyank Mittal	ENGG01202201021	Development of Source Coding Technique for Efficient Wireless Voice and Data Communication for SDR Application.
49	Prashant Kumar Sharma	ENGG01202201022	Design and Development of Portable and Compact OSL Reader System for Space Dosimetry
50	Sweta Agarwal	ENGG01202201023	Design of RF System for Vertical Test Stand
51	Jeevika Tiwari	ENGG01202201024	Coverage Driven Test-Case Generation for HDL Designs
52	Namrata Joshi	ENGG01202201026	Comparative Study of Channel Access and PV Access Under Different Network Topology with Varying Loads
53	Abhisek Nayak	ENGG01202201028	Study of NoSQL Databases and Development of Data Logging and Visualization Application for Fast Data Acquisition (FDAQ) System of Indus -2
54	Neelam Singh	ENGG01202201031	C2 and Phishing Domains Detecion Using DNS Analysis
55	Sharath S Nair	ENGG01202201035	Risk Analysis of Battery Systems and Mitigating Hydrogen Risk in Submarines
56	Gundubogula Sri Krishna Kalyan	ENGG01202201042	Thermal Analysis of a Vertical Concentric Annulus to Improve its Performance as a Thermal Barrier
57	Patil Shubham Rajesh	ENGG01202201047	Study of UO_2-Al Alloy Dispersion Fuel using Finite Element Based Thermal Modelling
58	Chavda Jay Mahendrabhai	ENGG01202201049	Study on Inter-Subchannel Flow Mixing Behavior of Coolant in SMR ROD Bundles

59	Pragyanand	ENGG01202201050	Investigations of Failed Thermosiphon Evaporator and Thermal Hydraulic Performance Evaluation under Different Degraded Operating Conditions
60	Mohit Gupta	ENGG01202201052	Development of Model for Containment Clean Up and Heat Removal
61	Smrity Prakash	ENGG01202201053	Studies on Recovery of Uranium from Simulated HLLW using DHOA in n-dodecane Solvent and CALmsu Contactor
62	Ankit Ojha	ENGG01202201055	Experimental Studies on Multiphase Flow in an Air Lift Contactor
63	Sandeep Singh Tomar	ENGG01202201056	Dissolution of Washed and Dried Frit Powder in Nitric Acid to Produce Clear Zirconium Nitrate Solution
64	Seepana Sriharsha	ENGG01202201061	Study the Effect of Lateral and Transverse Inversion on Clad Thinning During Roll Bonding for Dispersion Based Plate Fuel Elements
65	B. Vinith	ENGG01202201062	Studies on a Novel Process for Recovery of Uranium from Tummalapalle Leach Liquor
66	Siddhant Gupta	ENGG01202201066	Effect of Heat Treatment on Microstructural Evolution and Properties of Additively Manufactured SS316L
67	Devendra Adhikari	ENGG01202201067	Nonlinear Seismic Analysis of Reinforced Concrete Structure with and without infill Walls using Simplified Macro-Models
68	Akhand Pratap Singh	ENGG01202201068	Seismic Behaviour of Buildings and Building Foundations Located on Hill Slopes
69	Milansingh Dalipsingh Dhamu	ENGG01202201080	Study of Effect of Welding Parameters on the Mechanical Properties and Oxidation Behaviour of Zr-4 to Zr-2.5Nb Weld
70	Laddha Shlok Kirti	ENGG01202201081	A Study on the Mechanical Stress Relieving in Laser Welded Tubes
71	Bakre Nisarg Prakash	ENGG01202201082	Mathematical Modelling of Coast Down Characteristics of a Canned Motor Pump
72	Jaiswar Shubham Virendra Ranu	ENGG01202201084	Study on Thermo-Physical Properties of Different Fuel Alloys/Compounds as Dispersion in Aluminum Matrix
73	Sabbavarapu Sai Ganesh	ENGG01202201091	Investigating the Effect of Inclusions on Fatigue Behaviour of Cr-Mo-V Pressure Vessel Steel
74	Hitlar	ENGG01202201092	Development of Carbon Fibre Reinforced Boron Carbide Composites

75	Prabhjot Kaur Bhatia	ENGG01202201096	Motion Mapping Between Kinematically Dissimilar Master and Slave Manipulator Arms
76	Bodhisattwa Banik	ENGG01202201105	Friction Stir Processing of Laser-Clad Copper on Commercially Pure Titanium (Grade 2)
77	Albin Mathew	ENGG01202201106	Oxidation Studies of Zr-2.5Nb Alloy in Superheated Steam Relevant to Accidental Condition Under Static Oxidation Testing
BARCTS(AMD), Hyderabad			
78	Saurav Bhattacharya	ENGG01202201107	Experimentation and Modeling of HIx Purification of Iodine Sulphur Thermo-Chemical Process for the Production of Hydrogen
79	Saumyajeet Mukherjee	ENGG01202201108	Dynamic Simulation of Combined Electrolysis and Catalytic Exchange (CECE) Process
80	Dhairyadhar Abhimanyu Bhelave	ENGG01202201110	Computational Modelling and Simulation of Desublimation of PG in Cooled Storage Cylinders
81	Palli Chaitanya Sai Sri Krishna	ENGG01202201116	Studies on Effect of Green Microstructure on Densification of RBSiC Composite
82	Abhijeet Dadarya	ENGG01202201117	Fabrication of U_3Si_2 Pellets by Powder Metallurgy Route and its Characterization
83	Kommula Satwik	ENGG01202201118	Study of the Nanoscale Phase Separation Behaviour in the Fe-Cr-Co System and its Correlation with the Micro Hardness and Magnetic Properties
84	Lokendra Singh	ENGG01202201127	Monte Carlo Simulation of Energy Response of Special Purpose Neutron Survey Meter and its Validation
85	Devashish Gautam	ENGG01202201130	Survival Analysis for Electrical System of a Nuclear Facility
86	Sanjay Kumar	ENGG01202201132	Life Estimation of Light Emitting Diode under Radiation Environment in Nuclear Facility
87	Shreyansh Bharadwaj	ENGG01202201133	Design Optimization of Multi Stage Coil Gun Through Numerical Simulation
88	Suru Gayatri	ENGG01202201135	AI Based Protection System to Enhance Power System Reliability, Security and Efficiency
89	Pritam Panigrahi	ENGG01202201142	Study, Design and Analysis of AI-Based Network Intrusion Detection System (NIDS)

90	Namrata Singh	ENGG01202201143	Real Time Estimation of Rotor Position and Speed Control of Switched Reluctance Motor Using Sensorless Measurement Techniques
91	Shubham Kawde	ENGG01202201144	Development of Image Processing Algorithm for Automated Detection and Classification of Defects in Weld Joint of PFBR Fuel Pin
92	Subham Pal	ENGG01202201145	User Internet Browsing Behaviour Analytics
93	Netraj Vyankatesh Surnis	ENGG02202201004	Design, Analysis and Simulation of Tracked Mobile Robot
94	Rishabh Kumar	ENGG02202201006	Study of Effects of Transients on PFBR Fuel Pin Life
95	Sabarish R	ENGG02202201007	Process Design of Sparger Type Contractor for Maximum Recovery of Actinides from Molten Salt Liquid Cd-Li Alloy
96	Debrup Paul	ENGG02202201030	Cesium Adsorption Studies on Zeolite for Molten Salt Treatment in Pyroprocessing
97	Deepak	ENGG03202201001	Design and Optimization of Fundamental Power Coupler for Superconducting Cavity
IGCAR, Kalpakkam			
98	Shivangi Bidoliya	ENGG03202201002	Laser Driven Proton Acceleration with Controlled Preplasma Scale-Length and Development of Transport System Based on Magnetic Field Devices
99	Divyansh Pandey	ENGG03202201003	Physics Design Studies of Doubly Achromatic Energy Filtering systems of Electron Linacs for Different Applications
100	Kavita Bhatt	ENGG03202201004	Preliminary Studies on Candidate Double-Bend Achromat Structure for Low Emittance Booster Synchrotron of High Brilliance Synchrotron Radiation Source
101	Subhash Kesharwani	ENGG03202201009	Development Control, Protection and Automation Scheme for 132 kV Substation
102	Piyush Kumar	ENGG03202201011	Study, Design and Development of Digital Close Loop Control for Pulsed Nd:YAG Laser Power Supply
103	Ashok Kumar Sahoo	ENGG03202201012	Investigation and development of Raman Optical Fiber Distributed Temperature Sensor with Enhanced Features
104	Bonagiri Bhanuprakash	ENGG03202201013	Design and Development of Digitally Controlled Pulse Width Modulated Rectifier for Reduced Libe Current Harmonic Pollution and 2-Way Utility Interface

105	Niklesh Kashyap	ENGG03202201014	Study and Investigation of Dynamic Control of Superconducting RF Cavity Resonance using Piezo Actuators Based Tuner
106	Ayush	ENGG06202201001	A Novel Design of Ohmic Transformer Power Supply (Otps) for Spherical Tokamaks
107	Aditya Naugraiya	ENGG06202201002	Electrostatic Field Analysis of High Voltage Ion Extraction and Acceleration Grid System for Neutral Beam Injectors
IPR, Gandhinagar			
108	Vishal Verma	ENGG06202201006	Dynamic Analysis of Soft Catch for Electromagnetic Launcher System using ANSYS
109	Ayush Bhatt	ENGG06202201007	Development of Calorimeter for the Positive Neutral Beam System
110	Manish Tak	ENGG06202201008	Analytical and Simulation Study of Windowless Gas Target System for Neutronics Applications
111	Purvkumar Bachubhai Hansapura	ENGG06202201010	Signal Conditioning System for Cryogenic Temperature Measurement for NBI
112	Sanket Hegde	ENGG1A202201009	Studies on the Performance of Carbon Coatings as an Effective Barrier Against Pellet-Clad Interaction
113	Dheeraj Kumar	ENGG1A202201014	Design and Development of Remotely Operated Battery Powered 150kV Pulsed Power Supply
RRCAT, Indore			
114	Immella Eswara Manikanta	ENGG1A202201016	Parametric Analysis, Design, Modelling and Simulation of a High Voltage DC Power Source with Optimum Performance Parameters for EBW Machine in Zircaloy Fabrication Process
115	Rounak Datta Roy	ENGG1G202201001	Litho-Structural and Sedimentological Studies of Uraniferous Phosphatic Sediments of Jhamarkotra Formation in Kirauli Area, Udaipur and Rajsamand Districts, Rajasthan with Special Emphasis on Control of Uranium Mineralization.
116	Raghvendra Shukla	ENGG1G202201002	Characterisation of Hydrothermal Alteration Zones in the Deformed Horizons of the Shahabad Limestone and Basement Granite with its Implications on the Uranium Mineralisation in Kanchankayi
117	Smrutiranjan Sahoo	ENGG1G202201003	Litho-Tectonic and Geochemical Characterization of Lithounits in the Vicinity of Tan Shear Zone from Uran- Barbhata- Barimundra- Barbahari Area, Gpm & Korba District, Chhattisgarh: Inference on Genesis of Uranium Mineralization

118	Abhishek Chaurasiya	ENGG1G202201004	Geochemical Characterisation of Aegirine/Riebeckite Bearing Granite and Rhyolite and their Potentialities for REE-Nb-Zr Mineralisation in Gugrot Area, Siwana Ring Complex, Barmer District Rajasthan
119	Bulu Chandra Mahanta	ENGG1G202201005	Study on Provenance and Paleodepositional Setting of Manikaran Quartzite Vis-À-Vis Genesis of Uranium Mineralisation in Bradha Sangchan Tract, Kullu District, Himachal Pradesh
120	Abhishek Kumar Yadav	ENGG1G202201006	Sedimentological and Geochemical Study of Basal Siliciclastics of Dhanjori Basin and their U-AU Potential Along Phuljhari-Haludbani Tract, East Singhbhum District, Jharkhand
121	Bitihotri Rit	ENGG1G202201007	Structural and Petro Mineralogical Studies of Granite Related Uranium Mineralisation in the Southern Margin of Cuddapah Basin at Rachakuntapalle Area, Ysr District, Andhra Pradesh
122	Ajay Haridas	ENGG1G202201008	A Geochemical Study to Understand the Hydrothermal System Responsible for U-REE Mineralization in Bagjata and Pathargora Areas, East Singhbhum District, Jharkhand
123	Arindam Gope	ENGG1G202201009	Facies Architecture and Depositional Environment of Uranium-Bearing Sediments of Kaimur Group of Vindhyan Basin Along Maharampura-Rajgarh Sector, Gwalior and Shivpuri District, Madhya Pradesh
124	Mukunda Madhab Borah	ENGG1G202201010	Study on the Occurences of Uraniuma and REE Phases in Abilities of Ghasipura -Rayan Ka Bas Area, Sikar District, Rajasthan: An Integrated Approach Through Geological, Mineralogical and Geochemical Studies
125	Ashish Mahanta	ENGG1G202201011	Study of Control of Uranium Mineralisation Based on Petrography and Geochemistry of Mineralised Granite from Chundi and its Adjoining Area, Garhwa District, Jharkhand
126	Vivek Kumar Yadav	ENGG1G202201012	Structural, Petro-Mineralogical and Geochemical Studies of Mylonite/Cataclasite Zone with Special Emphasis on Uranium Mineralization in B.R. Palle-Katimayakuntamadhavaram Area, Annamayya District, Andhra Pradesh
127	Sandip Choudhuri	ENGG1G202201013	Constraints on Uranium Mineralization in Migmatitic Terrain of Chhotanagpur Granite Gneiss Complex (CGGC) at Kudar Area, Sonbhadra District, Uttar Pradesh: A Mineralogica

128	Kunal Maharana	ENGG1G202201014	Study of Effect of Alteration on Unconformity and Fracture-Controlled Uranium Mineralisation in Madinapadu-Sarangapallitangeda Sector, Palnadu District, Andhra Pradesh
129	Chetan Eknath Kinkar	ENGG1G202201015	Provenance and Depositional Environments of Red Sediments of Badaputi- Basanputi Area, Ganjam District, Odisha- A Granulometric and Heavy Mineral Study with Geochemical Approach.
130	Shriya Mishra	ENGG1G202201016	Petro-Mineralogical and Mineral-Chemical Studies of U and REE Minerals in Mohuldih Deposit, Singhbhum Shear Zone, Seraikelakharsawan District, Jharkhan
131	Ayush Kumar	ENGG1G202201017	Petro-Mineralogical and Geochemical Studies of Sandstones and Mudstones and its Implication on Uranium Mineralisation in Motur Formation of Kalapani-Dharangmau Area, Betul District, Madhya Pradesh

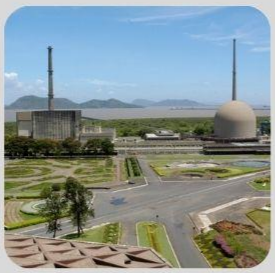
Important Milestones of HBNI		
S.No.	**Milestone**	**Date**
1.	Constituting a steering committee to set up HBNI	April 21, 2003
2.	Submission of documentation to the MHRD by the DAE	January 14, 2004
3.	Constitution of the first Council of Management, designating individuals to the post of Director and Dean	November 18, 2004
4.	Registration of HBNI as a Society	November 18, 2004
5.	Visit of an expert committee appointed by the UGC to HBNI	March 28, 2005
6.	Registration of HBNI as a trust	June 2, 2005
7.	Notification by the MHRD declaring HBNI as a deemed to be University	June 3, 2005
8.	Approval of first set of results by the CoM	July 14, 2008
9.	First review of the functioning of HBNI by a review committee set up by the MHRD	September 19, 2009
10.	Review by a committee appointed by the UGC	April 2, 2010
11.	Second review of the functioning of HBNI by a task force constituted by the MHRD	August 21, 2012
12.	Notification by the DAE declaring HBNI as a "Grant-in-Aid Institution	February 19, 2014
13.	Review of HBNI by the National Assessment and Accreditation Council (NAAC)	April 25-May 2, 2015
14.	Accreditation of HBNI as a "A^{+}" grade University by NAAC (second cycle)	March 16, 2021
15.	15^{th} rank among all Indian Research Universities, 17^{th} in University Category, 30^{th} in Overall Category by National Institutional Ranking Framework (NIRF) of MoE	June 05, 2023
16.	Notification of Ministry of Education approving HBNI, Mumbai to start its 2^{nd} off-campus Centre at Varanasi consisting of Mahamana Pandit Madan Mohan Malviya Cancer Centre and Homi Bhabha Cancer Centre.	May 20, 2024
17.	Notification of Ministry of Education approving HBNI, Mumbai to start its 3^{rd} Off-Campus Centre called Homi Bhabha Cancer Hospital and Research Centre at New Chandigarh, Punjab	April 7, 2025

HBNI Ranked 6 in Research Institution Category

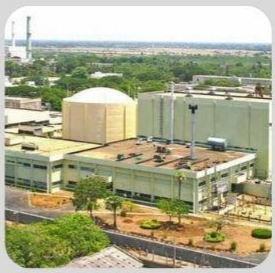
HBNI Ranked 16 in University Category

HBNI Ranked 27 in Overall Category

Homi Bhabha National Institute (HBNI)



Bhabha Atomic Research Centre (BARC)



Indira Gandhi Centre for Atomic Research (IGCAR)

Raja Ramanna Centre for Advanced Technology (RRCAT)

Variable Energy Cyclotron Centre (VECC)

Institute of Mathematical Sciences (IMSc)

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HOMI BHABHA NATIONAL INSTITUTE

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Harish-Chandra Research Institute (HRI)

Institute of Physics (IoP)

होमी भाभा राष्ट्रीय संस्थान
Homi Bhabha National Institute

(An aided Institute of the Department of Atomic Energy and a Deemed to be University u/s 3 of UGC Act 1956)

www.hbni.ac.in

Institute for Plasma Research (IPR)

Tata Memorial Centre (TMC)

Mahamana Pandit Madan Mohan Malaviya Cancer Centre & Homi Bhabha Cancer Hospital (MPMMCC & HBCH)

National Institute of Science Education and Research (NISER)

Homi Bhabha Cancer Hospital & Research Centre, (HBCH & RC) New Chandigarh

होमी भाभा राष्ट्रीय संस्थान

Homi Bhabha National Institute

ट्रेनिंग स्कूल परिसर /Training School Complex

अणुशक्तिनगर, मुंबई, (भारत) / Anushaktinagar, Mumbai (India)- 400094

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